

# CC 68.1250-1

1250 TONNE CAPACITY



TADANO  
GREEN  
SOLUTIONS

- Suitable for alternative fuels



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# Contents

Inhalt · Contenu · Indice · Contenido · Indice · Содержание

|                                                                                                                                                                                                                                                                                                                                                                         |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>Specifications · Technische Daten · Caractéristiques · Dati tecnici · Datos técnicos · Especificações · Технические характеристики</b>                                                                                                                                                                                                                               | <b>7</b>   |
| Working speeds · Arbeitsgeschwindigkeiten · Vitesses de travail · Rapporti di lavoro · Velocidades de trabajo · Velocidades de trabalho · Рабочие скорости                                                                                                                                                                                                              | 8          |
| Hook block system · Unterflaschensystem · Système de crochet-moufle · Sistema per bozzello · Sistema de bloque de gancho · Sistema de moitão · Система крюкоблока                                                                                                                                                                                                       | 9          |
| Hook block · Unterflasche · Crochet-moufle · Bozzello · Bloque de gancho · Moitão · Крюкоблок                                                                                                                                                                                                                                                                           | 9          |
| Number of lines · Einscherung · Nombre de brins · Numero di rinvii · Número de ramales · Número de cabos · Кратность троса                                                                                                                                                                                                                                              | 9-10       |
| Counterweight · Gegengewicht · Contrepoids · Contrappeso · Contrapeso · Contrapeso · противовес                                                                                                                                                                                                                                                                         | 10         |
| Basic crane dimensions · Hauptabmessungen · Dimensions de la grue de base · Dimensioni di base della gru · Dimensiones básicas de la grúa · Dimensões do guindaste básico · Базовые габариты крана                                                                                                                                                                      | 11-13      |
| Superlift Configurations · Superlift-Konfigurationen · Combinaisons Superlift · Configurazioni Superlift · Configuraciones Superlift · Configurações do Superlift · Варианты конфигурации суперлифт                                                                                                                                                                     | 14         |
| Transportation · Transport · Transport · Trasporto · Transporte · Transporte · Транспортировка                                                                                                                                                                                                                                                                          | 15-16      |
| Boom heads · Auslegerköpfe · Têtes de flèche · Cabezas de pluma · Teste del braccio · Cabeças de lança · Головки стрелы                                                                                                                                                                                                                                                 | 16         |
| Erection / lowering of the boom systems to the ground · Aufrichten / Ablegen der Auslegersysteme · Montée / placement sur sol des systèmes de flèche · Montaggio / calata dei sistemi braccio a terra · Erección / descenso al terreno del sistema de pluma · Levantamento / descida dos sistemas da lança para o solo · Подъем/опускание системы стрелы крана на землю | 17         |
| Boom Combinations · Ausleger-Kombinationen · Combinaisons de flèche · Combinazioni braccio · Combinaciones de pluma · Combinações de lanças · Комбинации стрелы                                                                                                                                                                                                         | 18-21      |
| <b>Main boom · Hauptausleger · Flèche principale · Braccio base · Pluma principal · Lança principal · Главная стрела</b>                                                                                                                                                                                                                                                | <b>23</b>  |
| SH, SH/LH, LH                                                                                                                                                                                                                                                                                                                                                           | 24-27      |
| SSL, SSL/LSL, SSL/LSL S1                                                                                                                                                                                                                                                                                                                                                | 28-35      |
| <b>Fixed fly jib · Starrer Hilfsausleger · Fléchette fixe · Falcone fisso · Plumín fijo · Lança auxiliar fixa · Неподвижная стрела с изменяемым вылетом</b>                                                                                                                                                                                                             | <b>37</b>  |
| SH+LF                                                                                                                                                                                                                                                                                                                                                                   | 38-41      |
| SH/LH+LF                                                                                                                                                                                                                                                                                                                                                                | 42-50      |
| SH/LH+LF3 S3                                                                                                                                                                                                                                                                                                                                                            | 52-54      |
| SSL+LF, SSL/LSL S1+LF                                                                                                                                                                                                                                                                                                                                                   | 56-77      |
| <b>Luffing fly jib · Wippbarer Hilfsausleger · Fléchette à volée variable · Falcone a volata variabile · Plumín abatible · Jib de lance variável · Стрела с изменяемым углом вылета и гуськом</b>                                                                                                                                                                       | <b>79</b>  |
| SW                                                                                                                                                                                                                                                                                                                                                                      | 80-84      |
| SWSL, SFSL                                                                                                                                                                                                                                                                                                                                                              | 86-111     |
| <b>Fixed fly jib with SL · Starrer Hilfsausleger mit SL · Fléchette fixe avec SL · Falcone fisso con SL · Plumín fijo con SL · Lança auxiliar fixa com SL · Неподвижная стрела с изменяемым вылетом с SL</b>                                                                                                                                                            | <b>113</b> |
| SFVL, LFVL                                                                                                                                                                                                                                                                                                                                                              | 114-115    |
| Notes to Lifting Capacity                                                                                                                                                                                                                                                                                                                                               | 116        |
| Technical description · Technische Beschreibung · Descriptif technique · Descrizione tecnica · Descripción técnica · Descrição técnica · Техническое описание                                                                                                                                                                                                           | 118-131    |

# Key

Zeichenerklärung · Légende · Leggenda · Leyenda · Legenda ·  
Условные обозначения

|                                                                                     |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Track · Spur · Voie · Cingolo · Orugas · Esteira ·<br>Колея                                                                                                                                                                                                                      |    | Hook block · Unterflasche · Crochet-moufle · Bozzello ·<br>Gancho · Moitão · Крюкоблок                                                                                                                                                                           |
|    | Counterweight + central ballast (ZB) · Gegen-<br>gewicht + Zentralballast (ZB) · Contrepoids + lest<br>central (ZB) · Contrappeso + zavorra centrale (ZB) ·<br>Contrapeso + lastre central (ZB) · Contrapeso +<br>lastro central (ZB) · Противовес + центральный<br>балласт (ZB) |    | Hoist 1 · Hubwerk 1 · Treuil de levage 1 · Agano 1 ·<br>Cabrestante 1 · Guincho 1 · механизм подъема 1                                                                                                                                                           |
|    | Superlift counterweight · Superlift-Gegengewicht ·<br>Contrepoids Superlift · Contrappeso Superlift ·<br>Contrapeso Superlift · Contrapeso do Superlift ·<br>Противовес суперлифт                                                                                                |    | Hoist 2 · Hubwerk 2 · Treuil de levage 2 · Agano 2 ·<br>Cabrestante 2 · Guincho 2 · механизм подъема 2                                                                                                                                                           |
|    | Central ballast · Zentralballast · Lest central ·<br>Zavorra centrale · Lastre central · Lastro central ·<br>Центральный балласт                                                                                                                                                 |    | Hoist 3 · Hubwerk 3 · Treuil de levage 3 · Agano 3 ·<br>Cabrestante 3 · Guincho 3 · механизм подъема 3                                                                                                                                                           |
|    | Superlift radius · Superlift-Radius · Rayon Superlift ·<br>Sbraccio Superlift · Radio de Superlift · Raio do<br>Superlift · Радиус для оборудования суперлифт                                                                                                                    |    | Jib luffing · Wippwerk Hilfsausleger · Variation de volée ·<br>Sollevamento del braccio · Abatimiento de plumín ·<br>Inclinação da lança auxiliar · Изменение вылета<br>стрелы                                                                                   |
|   | Possible load of hook block · Mögliche Traglast<br>Unterflasche · Charge possible de crochet-moufle ·<br>Portata possibile di bozzello · Carga permitida<br>de gancho · Carga possível do moitão · Допустимая<br>нагрузка на крюкоблок                                           |    | Boom derricking · Wippwerk Hauptausleger ·<br>Variation de flèche · Inclinazione del braccio ·<br>Descenso de pluma · Inclinação da lança ·<br>Подъем стрелы деррик-краном                                                                                       |
|  | Weight of hook block · Gewicht Unterflasche ·<br>Poids de crochet-moufle · Peso di bozzello ·<br>Peso de gancho · Peso do moitão · Вес крюкоблока                                                                                                                                |    | Boom hoist · Einziehwerk · Relevage de flèche ·<br>Argano del braccio · Cabrestante de pluma ·<br>Guincho da lança · Подъем стрелы                                                                                                                               |
|  | Load radius · Lastradius · Portée · Raggio di lavoro ·<br>Radio de trabajo · Raio de operação ·<br>Рабочий радиус                                                                                                                                                                |  | Travel speed · Fahrgeschwindigkeit · Vitesse de<br>déplacement · Velocità di spostamento · Velocidad<br>de desplazamiento · Velocidade de deslocamento ·<br>Скорость движения                                                                                    |
|  | Main boom · Hauptausleger · Flèche principale ·<br>Braccio principale · Pluma principal · Lança principal ·<br>Главная стрела                                                                                                                                                    |  | Working speeds · Arbeitsgeschwindigkeiten ·<br>Vitesses opérationnelles · Velocità di lavoro ·<br>Velocidades de trabajo · Velocidades de trabalho ·<br>Рабочие скорости                                                                                         |
|  | Fly jib · Hilfsausleger · Fléchette · Falcone · Plumín ·<br>Lança auxiliar · Стрела с изменяемым вылетом                                                                                                                                                                         |  | Slewing · Drehwerk · Orientation · Rotazione ·<br>Unidad de giro · Giro · механизм вращения                                                                                                                                                                      |
|  | Main boom angle · Hauptauslegerwinkel ·<br>Jarret de flèche principale · Inclinazione braccio base ·<br>Ángulo de pluma principal · Ángulo da lança principal ·<br>Угол наклона главной стрелы                                                                                   |  | Max. line pull · Max. Seilzug · Traction par câble max. ·<br>Tiro singolo max. · Tensión máx. de cable · Tração máx.<br>por cabo · Максимальная грузоподъемность троса                                                                                           |
|  | Fly jib angle · Hilfsauslegerwinkel · Jarret de<br>fléchette · Inclinazione falcone · Ángulo de plumín ·<br>Ángulo da lança auxiliar · Угол наклона стрелы с<br>изменяемым вылетом                                                                                               |  | Rope diameter · Seildurchmesser · Diamètre du câble ·<br>Diametro della fune · Diámetro cable · Diámetro do<br>cabo · Диаметр троса                                                                                                                              |
|                                                                                     |                                                                                                                                                                                                                                                                                  |  | Rope length · Seillänge · Longueur de câble ·<br>Lunghezza fune · Longitud cable · Compr. cabo ·<br>Длина троса                                                                                                                                                  |
|                                                                                     |                                                                                                                                                                                                                                                                                  |  | Number of lines · Einscherung · Nombre de brins ·<br>Numero di rinvii · Número de ramales · Número de<br>cabos · Кратность троса                                                                                                                                 |
|                                                                                     |                                                                                                                                                                                                                                                                                  |  | Number of sheaves · Anzahl Seilrollen · Nombre de<br>poules · Número de poleas · Numero di pulegge ·<br>Número de polias · Количество шкивов                                                                                                                     |
|                                                                                     |                                                                                                                                                                                                                                                                                  |  | Wind speed in m/s (meter per second) · Wind-<br>geschwindigkeit in m/s · Vitesse du vent en m/s ·<br>Velocità del vento in m/s (metri al secondo) ·<br>Velocidad del viento en m/s · Velocidade do vento em<br>m/s (metros por segundo) · Скорость ветра в м/сек |



# Key

Zeichenerklärung · Légende · Leggenda · Leyenda · Legenda ·  
Условные обозначения



Distance head sheave axle – hook ground · Abstand  
Kopffrollenachse – Hakengrund · Distance entre l'axe de  
la poulie de tête et le fond du crochet · Distanza asse  
puleggia da testa – zona di ancoraggio del gancio ·  
Distancia eje de la polea de cabeza – fondo del gancho ·  
Distância entre o eixo da polia da cabeça e o fundo  
do gancho · Расстояние от оси шкива вершины до  
низа крюка

S: heavy · schwer · lourd · pesante · pesado · pesada ·  
сильный

L: light · leicht · léger · leggera · ligero · leve ·  
слабый

H/HA: Main boom · Hauptausleger · Flèche principale ·  
Braccio principale · Pluma principal · Lança principal ·  
Главная стрела

HI: Luffing jib · Hilfsausleger · Fléchette · Falcone · Plumín ·  
Lança auxiliar · Стрела с изменяемым вылетом

W: Luffing fly jib · Wippbarer Hilfsausleger ·  
Fléchette à volée variable · Falcone a volata variabile ·  
Plumín abatible · Jib de lance variável ·  
Стрела с изменяемым углом вылета и гуськом

F: Fixed fly jib · Starrer Hilfsausleger · Fléchette fixe ·  
Falcone fisso · Plumín fijo · Lança auxiliar fixa ·  
Неподвижная стрела с изменяемым вылетом

SL: Superlift · Superlift · Levage supplémentaire ·  
Superlift · Superlift · Kit Superlift · Суперлифт  
(система для увеличения грузоподъемности)

V: Vessellift · Vessellift · Vessellift · Vessellift ·  
Vessellift · Içamento de embarcação ·  
Подъем судов

SGL: Heavy base length · Schwere Grundlänge ·  
Longueur de base lourde · Lunghezza carro in versione  
pesante · Longitud de base pesada · Comprimento da  
base pesada · Длина тяжелой базы

# Highlights

Excellent lifting capacities throughout all working ranges, especially with luffing fly jib  
Max. load moment 15856 tm (991 t @ 16 m)  
Two redundant operating drivelines  
Highly simplified assembly processes for short rigging times  
Hydraulic quick-connection  
Innovative IC-1 crane control system with touchscreen  
Superlift radius infinitely variable during operation from 15-24 m (+ 24-30 m)  
Variable offset of main boom with SW and SWSL configurations  
Powerful Quadro-Drive as standard  
Hydraulic assisted pinning of boom sections is standard  
PC outrigger optional

Hervorragende Tragfähigkeiten über alle Arbeitsbereiche, insbesondere am wippbaren Hilfsausleger  
Max. Lastmoment 15856 mt (991 t @ 16 m)  
Zwei redundant arbeitende Antriebseinheiten  
Enorm vereinfachte Montage und kürzeste Rüstzeiten  
Hydraulische Schnellverbindung  
Innovative Kransteuerung IC-1 mit Touchscreen  
Variabler Superlift-Radius verstellbar von 15-24 m (+ 24-30 m)  
Variable Vorneigung Hauptausleger für SW und SWSL  
Leistungsstarker Quadro-Antrieb serienmäßig  
Serienmäßig hydraulisch verbolzbare Auslegerteile  
Optionale PC-Abstützung

Excellentes capacités de levage dans tous les domaines de travail particulièrement avec volée variable  
Couple de charge max. 15856 tm (991 t @ 16 m)  
Deux unités de propulsion avec redondance intégrée  
Assemblages considérablement simplifiés et temps de montage réduit  
Connexion rapide hydraulique entre châssis et partie tournante  
Nouveau système de contrôle IC-1 avec écran tactile  
Rayon du Superlift variable 15-24 m (+ 24-30 m)  
Flèche principale inclinable pour SW et SWSL  
Puissant quadro en série  
Boulonnement hydraulique des intercalaires de flèche en série  
Base de calage variante PC en option

Eccellenti capacità di sollevamento a tutte le portate di lavoro, in particolare con falcone a volata variabile  
Momento di carico massimo 15856 (991 t @ 16 m)  
Due trasmissioni operative per assicurare la ridondanza  
Processo di montaggio altamente semplificato per abbreviare i tempi di attrezzamento  
Attacchi rapidi idraulici  
Innovativo sistema di controllo della gru IC-1, con display touch-screen  
Sbraccio Superlift con regolazione continua durante il funzionamento da 15 a 24 m (+ 24-30 m)  
Inclinazione variabile del braccio con configurazioni SW e SWSL  
Potente Quadro Drive di serie  
Fissaggio degli elementi del braccio con servocomando idraulico di serie  
Stabilizzatori piedistallo gru opzionali

Excelentes capacidades de elevación en todos los rangos de trabajo, especialmente con plumín abatible  
Momento de carga máx. 15856 tm (991 t @ 16 m)  
Dos líneas de transmisión de operación redundante  
Proceso de montaje extremadamente simplificado para cortos tiempos de montaje  
Conexión hidráulica rápida  
Innovador control de grúa IC-1 con pantalla táctil  
Radio de Superlift en progresión continua durante la operación de 15 a 24 m (+ 24-30 m)  
Angulamiento variable de la pluma principal con configuraciones SW y SWSL  
Potente transmisión Quadro de serie  
Fijación de tramos de pluma por pernos asistidos hidráulicamente de serie  
Estabilizador PC opcional

Excelentes capacidades de içamento em todas as faixas de trabalho, especialmente com lança auxiliar articulada  
Momento de carga máx. 15856 toneladas (991 t @ 16 m)  
Dois sistemas de tração redundantes em operação  
Processos de montagem bastante simplificados reduzem os tempos de instalação  
Conexão hidráulica de engate rápido  
Inovador sistema IC-1 de controle do guindaste com tela de toque  
Raio do Superlift infinitamente variável entre 15 e 24 m (+ 24-30 m) durante a operação  
Inclinação variável da lança principal com configurações SW e SWSL  
Poderosa tração quádrupla como item de série  
A pinagem hidráulica assistida das seções da lança é característica de série.  
Estabilizador opcional para PC

Отличная грузоподъемность во всех диапазонах, особенно со стрелой с изменяемым вылетом  
Макс. момент нагрузки 15856 мт (991 т @ 16 м)  
Две рабочие трансмиссии, одна всегда резервная  
Значительно упрощенный процесс сборки, обеспечивающий быстроту установки  
Быстроразъемное гидравлическое соединение  
Инновационная система управления краном IC-1 с сенсорным экраном  
Бесступенчатая регулировка радиуса суперлифта в процессе подъема в диапазоне 15-24 м (+ 24-30 м)  
Плавно изменяемый угол смещения главной стрелы в конфигурациях с SW и SWSL  
Мощный квадропривод в стандартной комплектации  
Гидравлическая система соединения штифтами секций стрелы входит в стандартную комплектацию  
Выдвижные опоры для сборки в версии пьедестального крана (опция)

# SPECIFICATIONS

TECHNISCHE DATEN

CARACTÉRISTIQUES

DATI TECNICI

DATOS TÉCNICOS

ESPECIFICAÇÕES

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ



# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Working speeds (infinitely variable) · Arbeitsgeschwindigkeiten (stufenlos regelbar) · Vitesses de travail (réglables sans paliers) · Rapporti di lavoro (a regolazione continua) · Velocidades de trabajo (progresión continua) · Velocidades de trabalho (infinitamente variáveis) · Рабочие скорости (с бесступенчатой регулировкой)

|                                                                                     |  |  |  |  |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    | max. 110 m / min                                                                  | 239 kN                                                                            | 32 mm                                                                               | 1240 m                                                                              |
|    | max. 110 m / min                                                                  | 239 kN                                                                            | 32 mm                                                                               | 1240 m                                                                              |
|    | max. 100 m / min                                                                  | 239 kN                                                                            | 32 mm                                                                               | 700 m                                                                               |
|    | max. 110 m / min                                                                  |                                                                                   | 32 mm                                                                               |                                                                                     |
|    | max. 50 m / min                                                                   |                                                                                   | 32 mm                                                                               |                                                                                     |
|    | max. 105 m / min                                                                  |                                                                                   | 32 mm                                                                               |                                                                                     |
|   | 1,2 rpm                                                                           |                                                                                   |                                                                                     |                                                                                     |
|  | max. 1,1 km/h                                                                     |                                                                                   |                                                                                     |                                                                                     |

1) top layer · oberste Lage · couches supérieure · avvolgimento superiore · capa superior · camada superior · верхний слой

# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Hook block system · Unterflaschensystem · Système de crochet-moufle · Sistema per bozzello · Sistema de bloque de gancho · Sistema de moitão · Система крюкоблока

| 2 x 625 | 1250 t<br>630 t<br>630 t<br>330 t | 2 x 15<br>2 x 7<br>15<br>7 | 2 x 31<br>2 x 15<br>31<br>15 | 29 t<br>19 t<br>19 t<br>9 t           | 7,90 m<br>5,90 m<br>5,90 m<br>5,90 m                               |
|---------|-----------------------------------|----------------------------|------------------------------|---------------------------------------|--------------------------------------------------------------------|
| 1000    | 1000 t<br>500 t<br>500 t<br>250 t | 2 x 11<br>2 x 5<br>11<br>5 | 2 x 23<br>2 x 11<br>23<br>11 | 18 t<br>11 t<br>8 t<br>7,6 t (5,8 t*) | 6,70 m<br>7,20 m (6,50 m*)<br>7,20 m (6,50 m*)<br>7,20 m (6,00 m*) |
| 800     | 800 t<br>500 t<br>500 t<br>250 t  | 2 x 11<br>2 x 5<br>11<br>5 | 2 x 19<br>2 x 11<br>23<br>11 | 16 t<br>11 t<br>8 t<br>7,6 t (5,8 t*) | 6,50 m<br>7,20 m (6,50 m*)<br>7,20 m (6,50 m*)<br>7,20 m (6,00 m*) |

\* with optional equipment 500 t hook · mit optionalem 500 t Haken · avec équipement optionnel: crochet de 500 t · con gancio opzionale da 500 t · con equipamiento opcional, gancho 500 t · com gancho de 500 t como equipamento opcional · с опциональным крюком 500 т

Hook block · Unterflasche · Crochet-moufle · Bozzello · Bloque de gancho · Moitão · Крюкоблок

| 2 x 125 | 250 t | 2 x 3 | 2 x 6 | 4,8 t – 11,9 t | 5,40 m |
|---------|-------|-------|-------|----------------|--------|
| 2 x 95  | 190 t | 2 x 2 | 2 x 4 | 2,9 t – 8,4 t  | 5,40 m |
| 70      | 70 t  | 1     | 3     | 3,9 t          | 4,80 m |
| 25      | 23 t  | *     | 1     | 1,5 t          | 4,00 m |

\* Single line hook · Hakengehänge · Boulet · Gancio singolo · Gancho simple · Gancho para linha singela · Крюк на одиночном тросе

Number of lines · Einscherung · Nombre de brins · Numero di rinvii · Número de ramales · Número de cabos · Кратность троса

|  | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  | 24  | 48  | 71  | 95  | 118 | 141 | 164 | 186 | 209 | 231 | 253 | 274 | 296 | 317 | 338 | 359 |
|  | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  |     | X   | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  |     |     |     | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |
|  |     |     |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
|  |     |     |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |
|  |     |     |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |
|  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  |     |     |     |     |     |     |     |
|  | 380 | 400 | 420 | 440 | 460 | 480 | 499 | 518 | 537 |     |     |     |     |     |     |     |
|  | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |     |     |     |     |
|  | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |     |     |     |     |     |     |



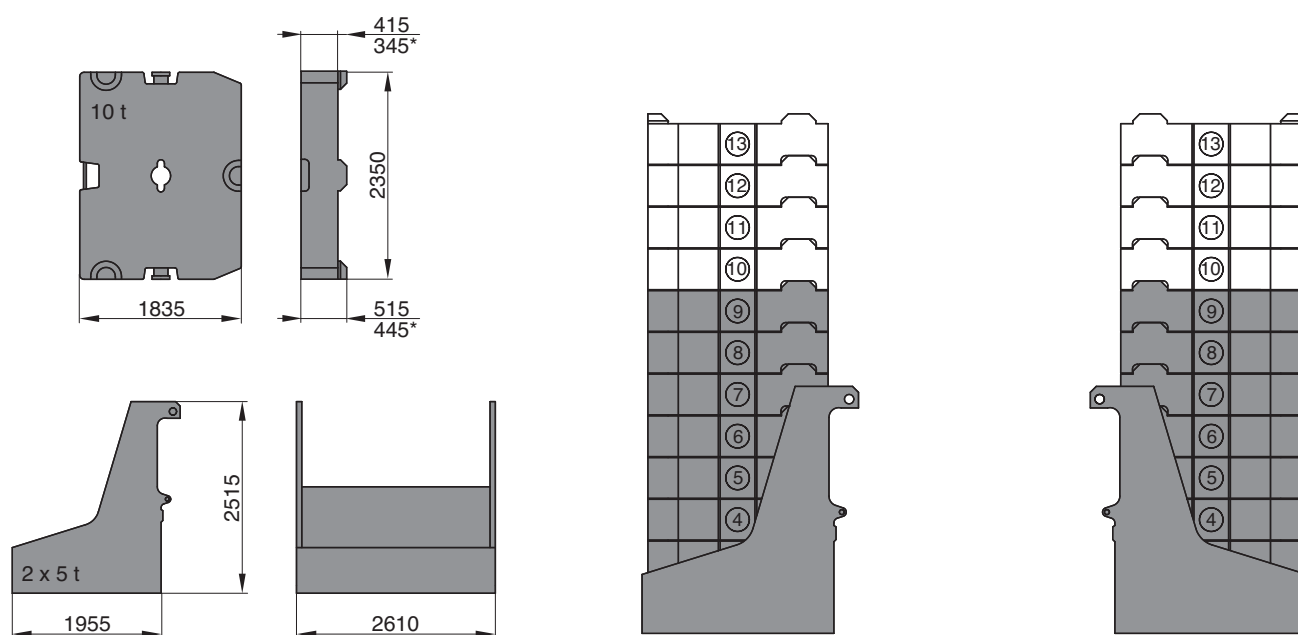
# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

| Number of lines · Einsicherung · Nombre de brins · Numero di rinvii · Número de ramales · Número de cabos · Кратность троса |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                            | 2 x 1  | 2 x 2  | 2 x 3  | 2 x 4  | 2 x 5  | 2 x 6  | 2 x 7  | 2 x 8  | 2 x 9  | 2 x 10 | 2 x 11 | 2 x 12 | 2 x 13 | 2 x 14 | 2 x 15 | 2 x 16 |
|                                            |        | 96     | 142    | 190    | 236    | 282    | 328    | 372    | 418    | 462    | 506    | 548    | 592    | 634    | 676    | 718    |
|  2 x 95 t                                  |        | X      | X      | X      | X      |        |        |        |        |        |        |        |        |        |        |        |
|  2 x 125 t                                 |        |        | X      | X      | X      | X      |        |        |        |        |        |        |        |        |        |        |
| 2 x 250 t                                                                                                                   |        |        |        | X      | X      | X      | X      | X      | X      | X      | X      |        |        |        |        |        |
| 2 x 330 t                                                                                                                   |        |        |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| 2 x 400 t                                                                                                                   |        |        |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| 2 x 500 t                                                                                                                   |        |        |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| 2 x 625 t                                                                                                                   |        |        |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |
|                                            | 2 x 17 | 2 x 18 | 2 x 19 | 2 x 20 | 2 x 21 | 2 x 22 | 2 x 23 | 2 x 24 | 2 x 25 | 2 x 26 | 2 x 27 | 2 x 28 | 2 x 29 | 2 x 30 | 2 x 31 |        |
|                                            | 760    | 800    | 840    | 880    | 920    | 960    | 998    | 1036   | 1074   | 1112   | 1150   | 1187   | 1223   | 1250   | 1250   |        |
|  2 x 400 t                                | X      | X      | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |
|  2 x 500 t                               | X      | X      | X      | X      | X      | X      | X      |        |        |        |        |        |        |        |        |        |
| 2 x 625 t                                                                                                                   | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |

Counterweight · Gegengewicht · Contrepoids · Contrappeso · Contrapeso · Contrapeso · противовес



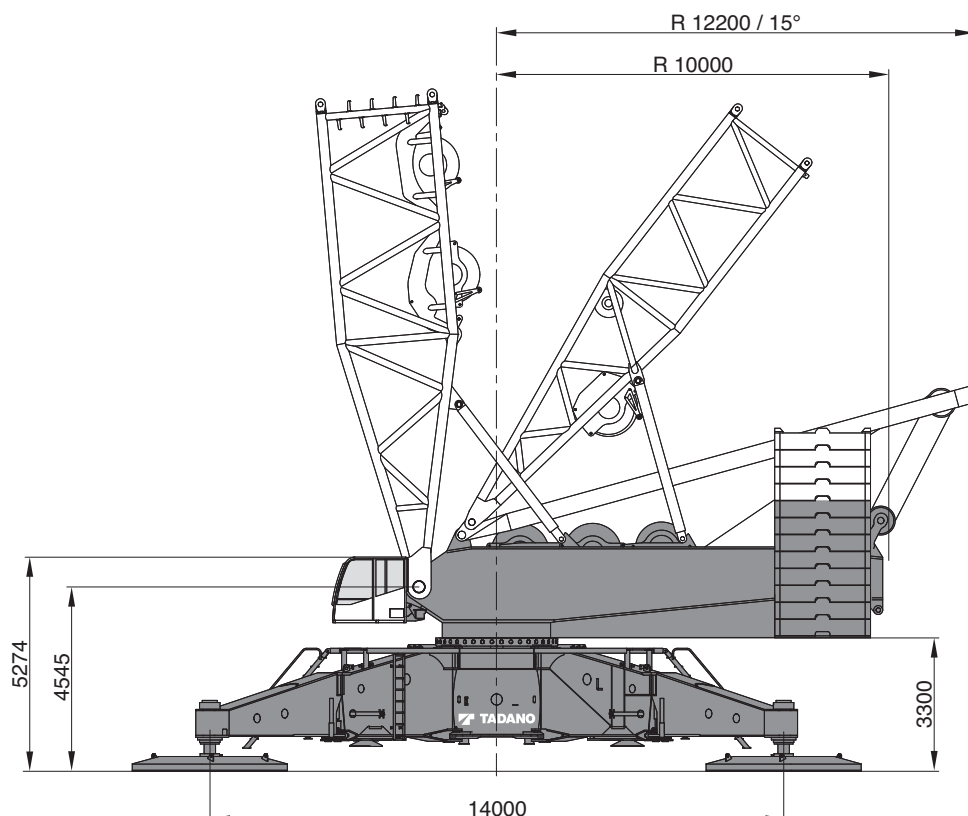
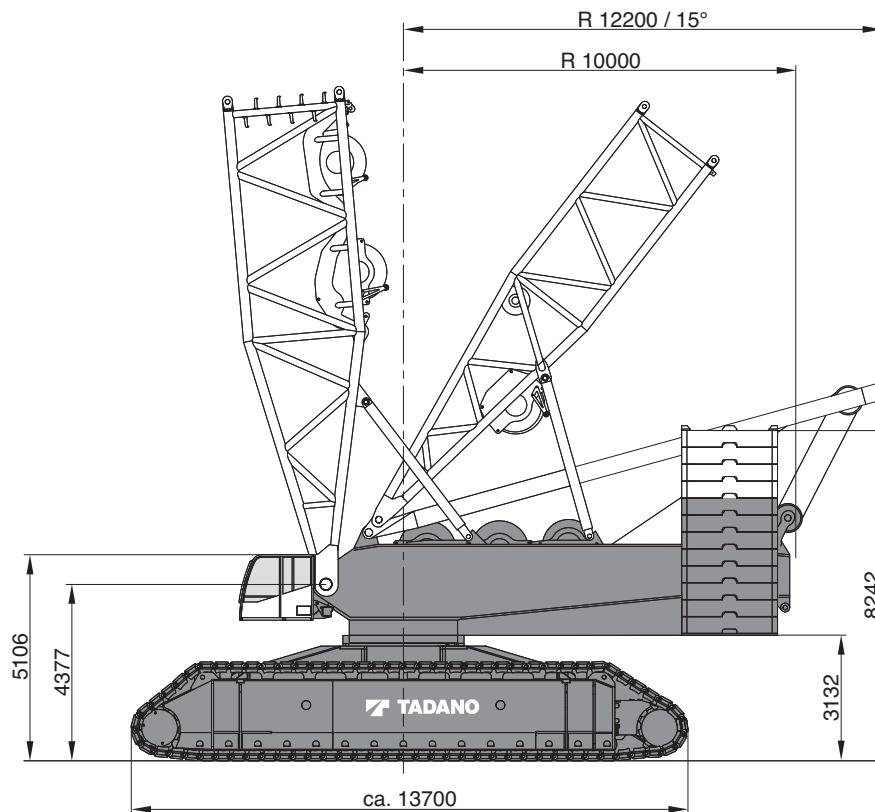
\* Option · Option · En option · Opzione · Opcion · Opcional · Опция

# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Basic crane dimensions · Hauptabmessungen · Dimensions de la grue de base · Dimensioni di base della gru ·  
Dimensiones básicas de la grúa · Dimensões do guindaste básico · Базовые габариты крана

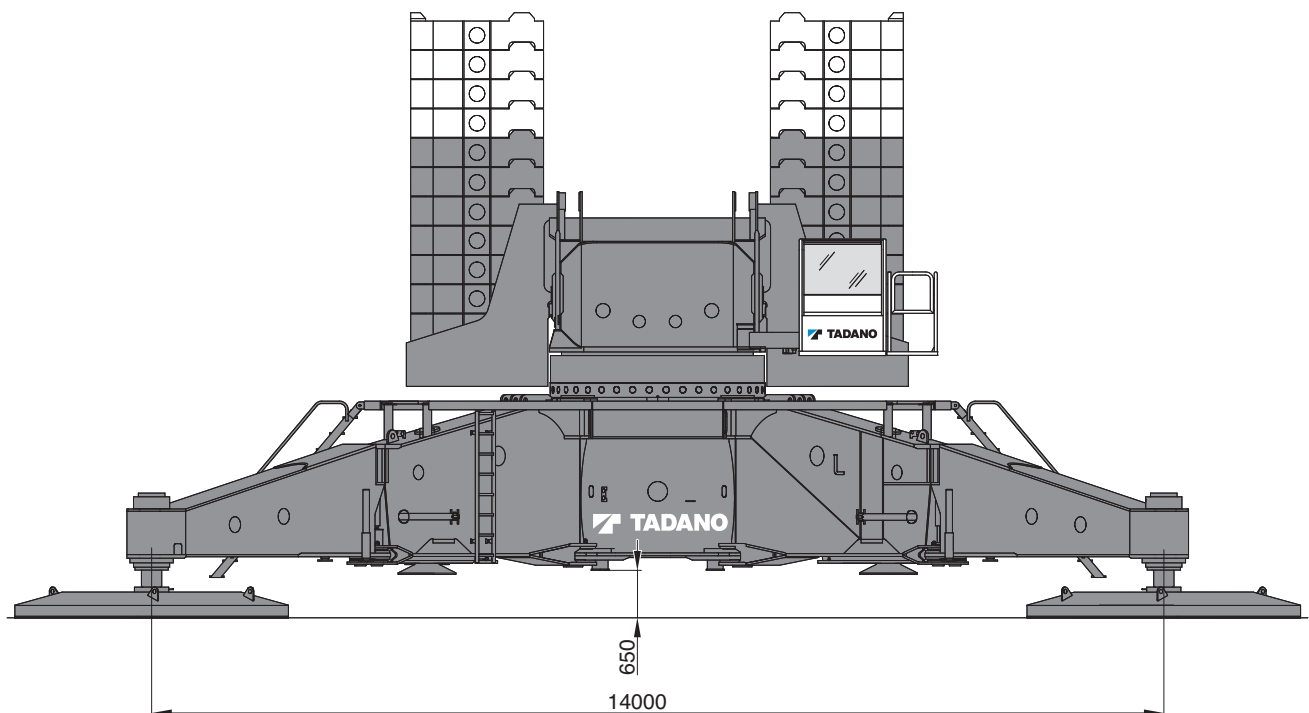
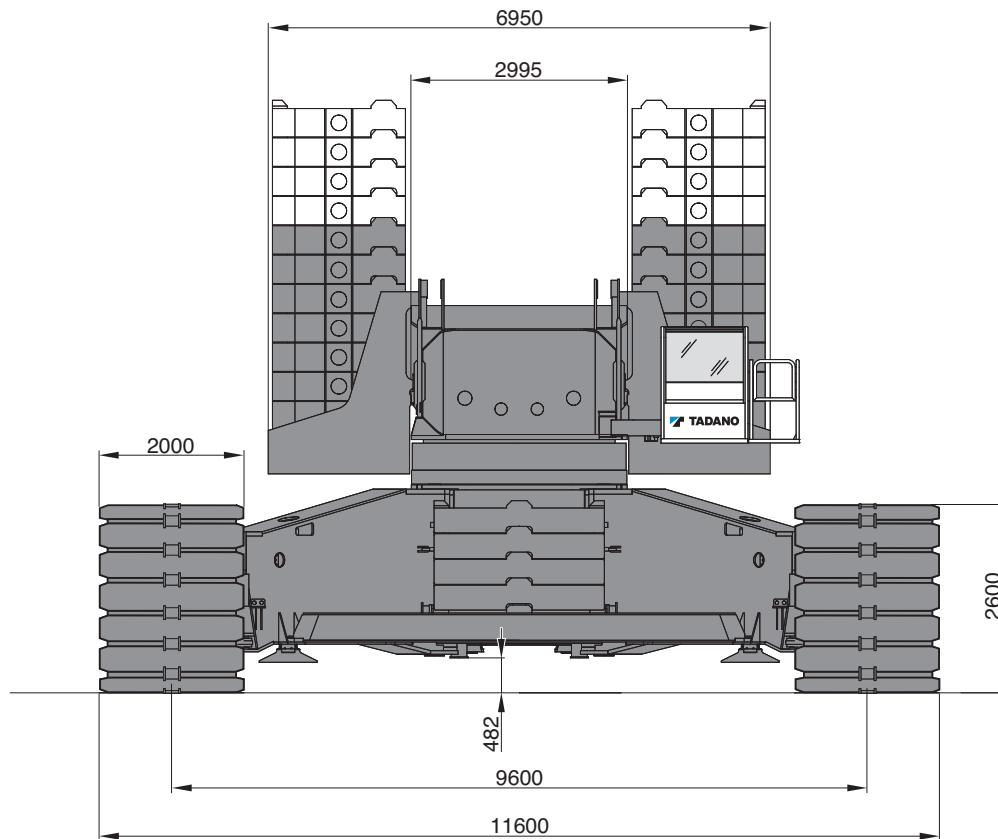


# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Basic crane dimensions · Hauptabmessungen · Dimensions de la grue de base · Dimensioni di base della gru ·  
Dimensiones básicas de la grúa · Dimensões do guindaste básico · Базовые габариты крана

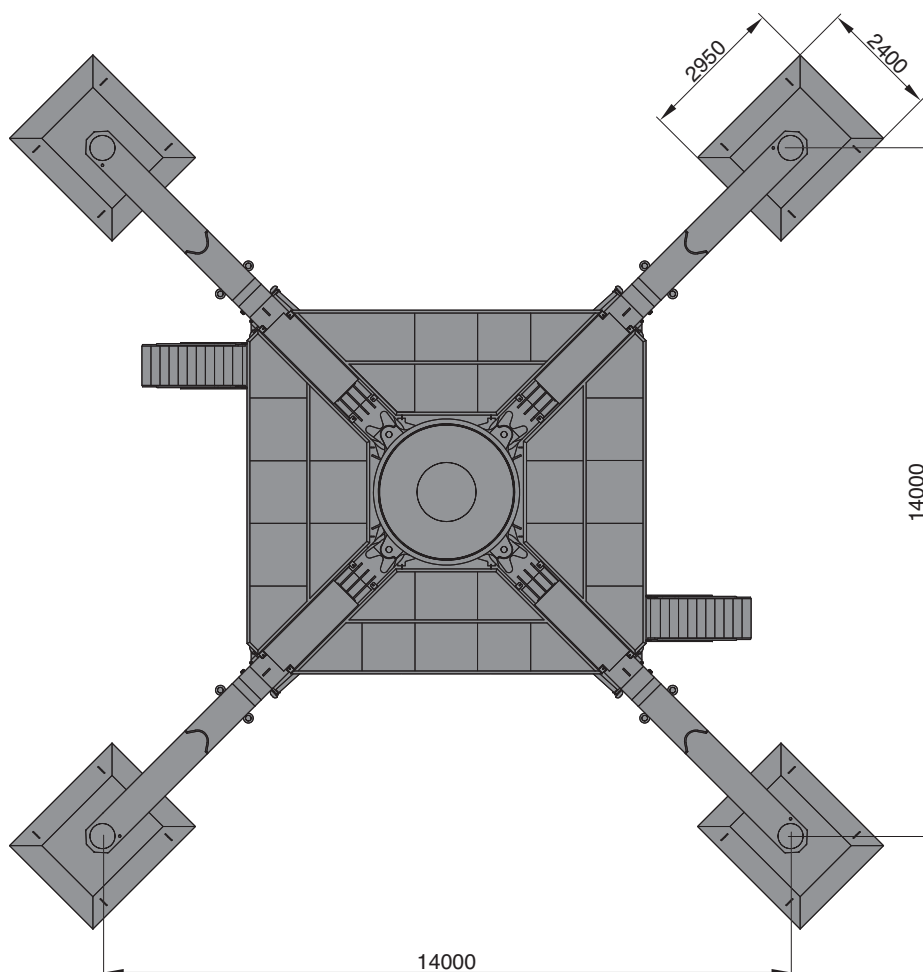
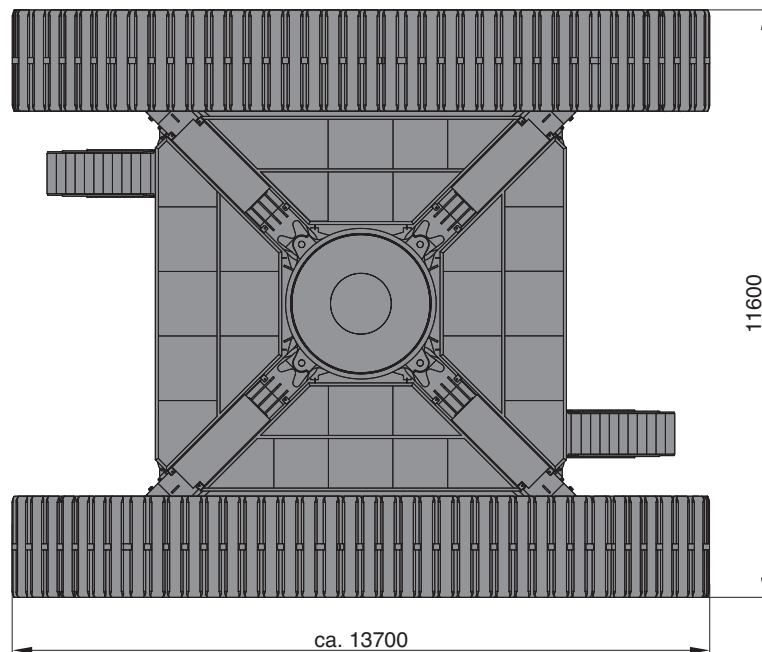


# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Basic crane dimensions · Hauptabmessungen · Dimensions de la grue de base · Dimensioni di base della gru ·  
Dimensiones básicas de la grúa · Dimensões do guindaste básico · Базовые габариты крана



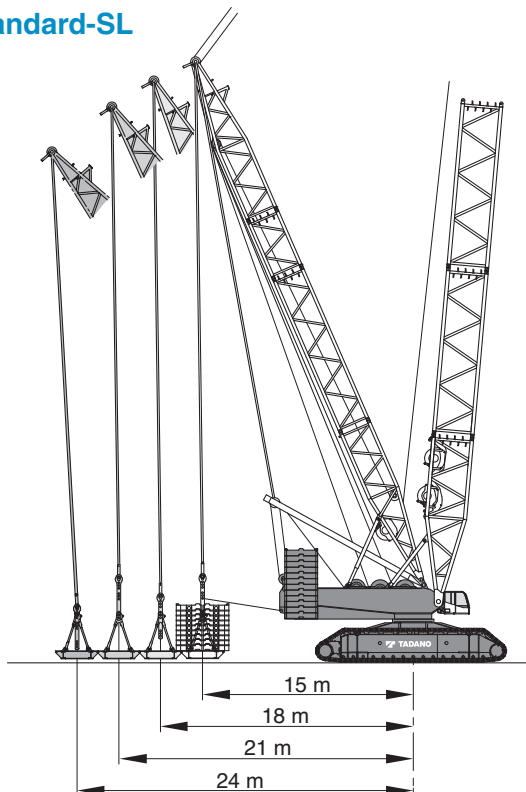
# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

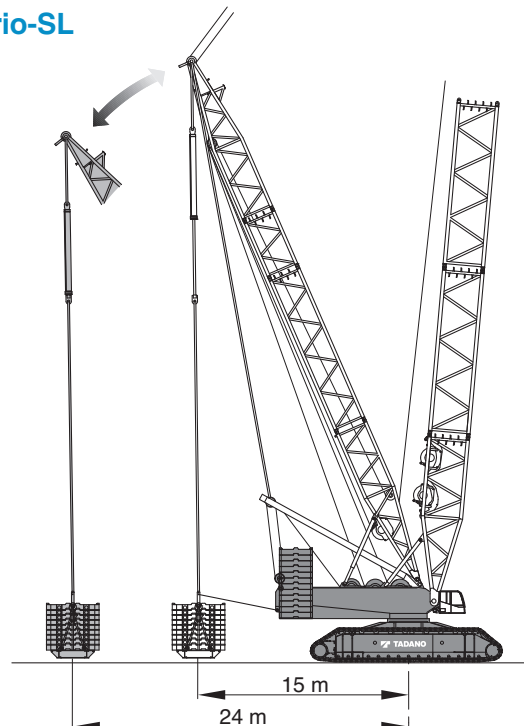
Datos técnicos · Especificações · Технические характеристики

Superlift Configurations · Superlift-Konfigurationen · Combinaisons Superlift · Configurazioni Superlift · Configuraciones Superlift · Configurações do Superlift · Варианты конфигурации суперлифт

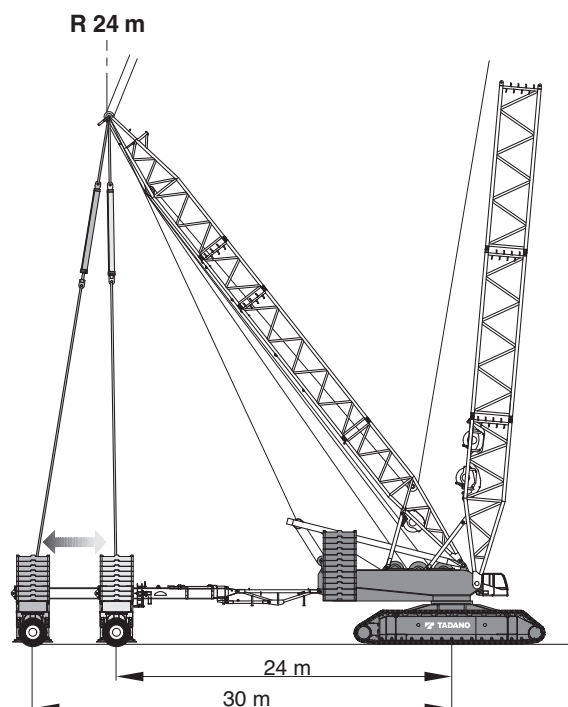
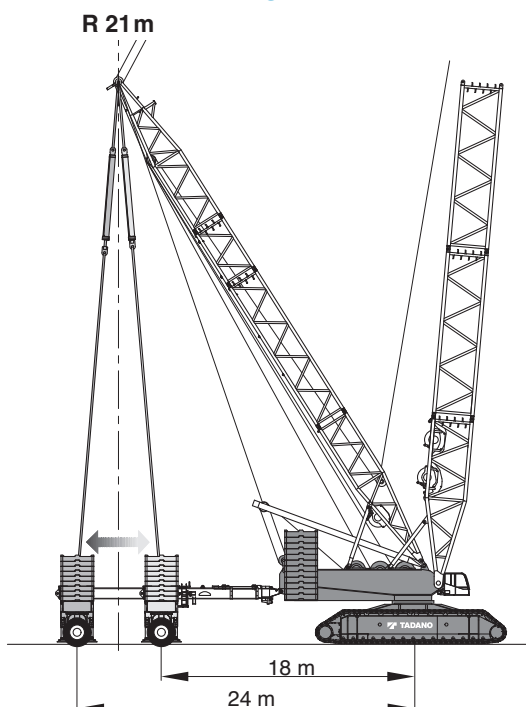
## Standard-SL



## Vario-SL



## SL Carrier · SL-Wagen · Châssis SL · Carro SL · Carro SL · Veículo do SL · Шасси SL



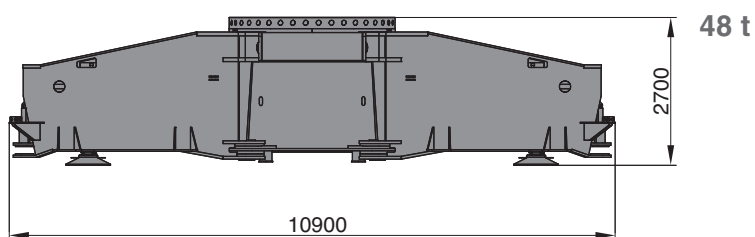
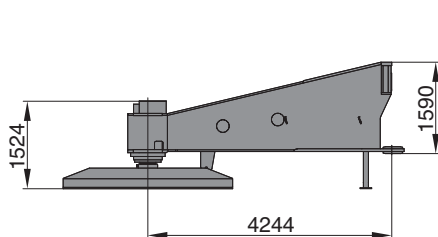
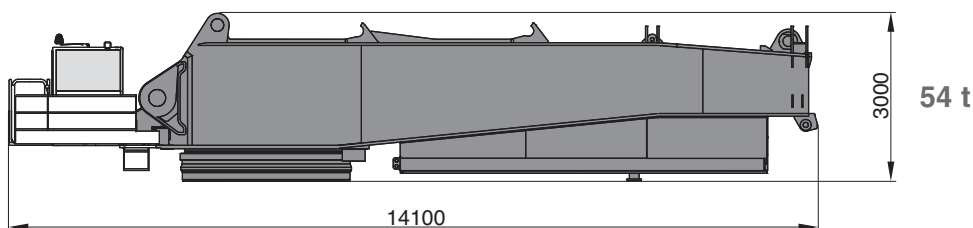
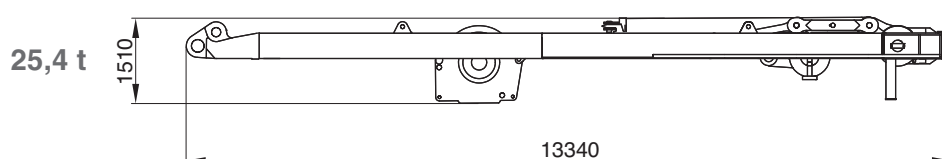
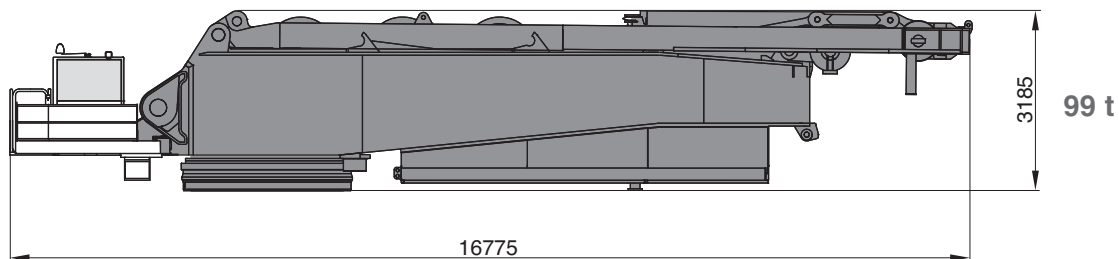
Alternatively, the telescope connector may be used in combination with the Superlift Tray · Alternative Verwendung der Teleskopverbindung mit dem Superlift-Tray ist möglich · Vous pouvez également utiliser un connecteur télescopique avec le plateau SuperLift Tray · In alternativa, può essere utilizzato il cilindro di sfilo in combinazione con il supporto Superlift · Alternativamente se puede utilizar el conector telescópico en combinación con la bandeja Superlift · Como alternativa, o conector do telescópio pode ser usado em combinação com a Base do Superlift · В качестве альтернативы может использоваться телескопический соединитель в сочетании с платформой для противовесов Superlift

# Specifications

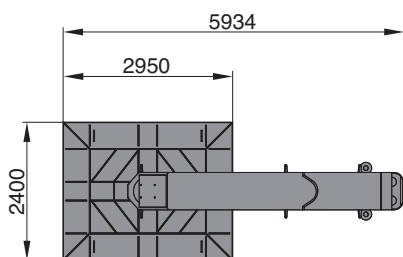
Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

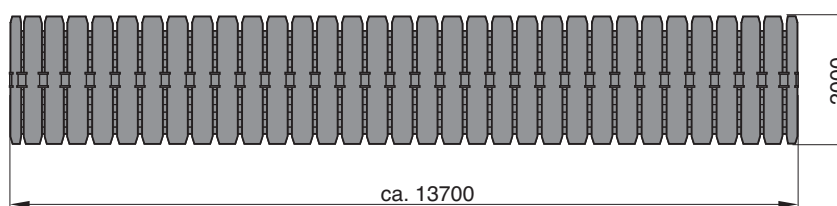
Transportation · Transport · Transport · Trasporto · Transporte · Transporte ·  
Транспортировка



4 x 8 t



2 x 70 t



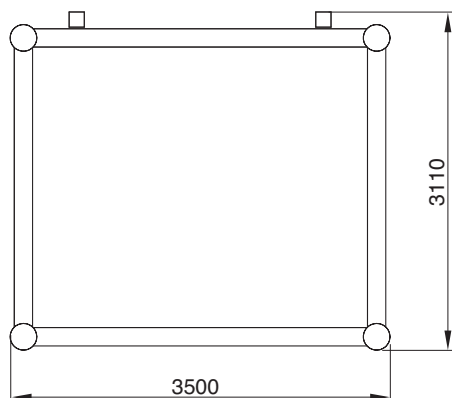
# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

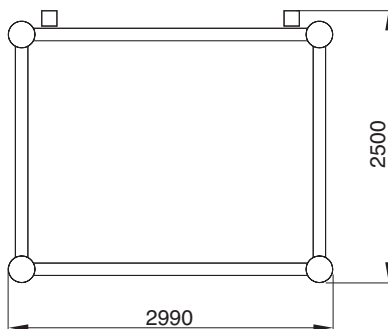
Transportation · Transport · Transport · Trasporto · Transporte · Transporte ·  
Транспортировка

## Main Boom (HA)



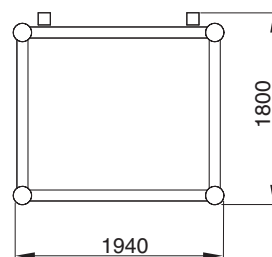
Typ 3328

## Jib (HI)



Typ 2822

## LF



Typ 1816A

### S3:

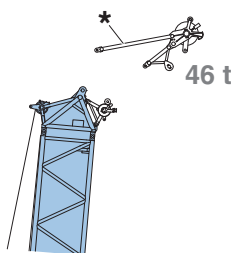
Add. 2420A · zusätzlich 2420A · 2420A de plus · Aggiunta di 2420A · 2420A adicionales · Adicionalmente 2420A · дополнительных 2420A (2570 x 2275)

LF3: 2016B (2235 x 1850)

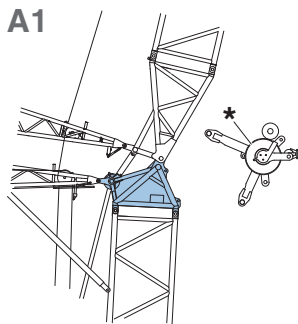
Boom heads · Auslegerköpfe · Têtes de flèche · Cabezas de pluma · Teste del braccio · Cabeças de lança ·  
Головки стрелы

### A

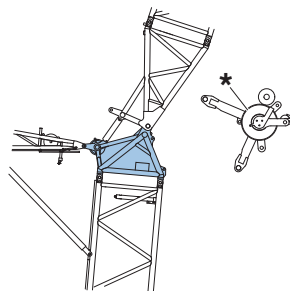
(max. 1250 t\*\* / 1000 t)



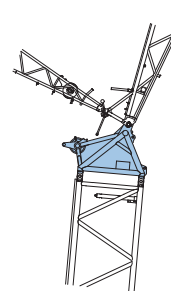
### A1



### A2

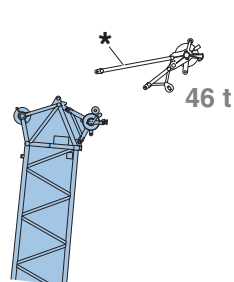


### A3

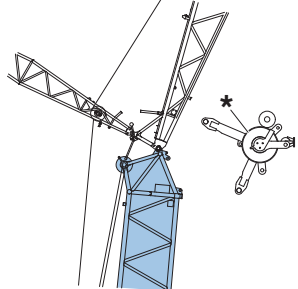


### B

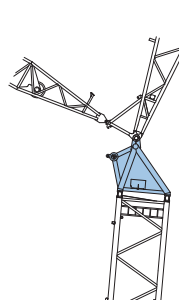
(max. 509 t)



### B1



### C



### D

(max. 250 t)

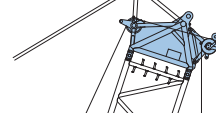


### E

(max. 175 t)



### F



\* Attachable · Anbaubar · Amovible · Montabile · Acoplable · Adaptável · Приставн

\*\* Option · Option · En option · Opzione · Opção · Opcional · Опция



# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Erection / lowering of the boom systems to the ground · Aufrichten / Ablegen der Auslegersysteme ·  
 Montée / placement sur sol des systèmes de flèche · Montaggio / calata dei sistemi braccio a terra ·  
 Erección / descenso al terreno del sistema de pluma · Levantamento / descida dos sistemas da lança para o solo ·  
 Подъем / опускание системы стрелы крана на землю

| 170-250 t +  0-80 t  |                                                                                   |                                                                                    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                                                                                       |  |  |    |    |     |     |     |     |     |     |     |     |     |     |     |     |
|                                                                                                       | m                                                                                 | m                                                                                  | 36 | 42 | 48  | 54  | 60  | 66  | 72  | 78  | 84  | 90  | 96  | 102 | 108 | 114 |
| SH                                                                                                    |                                                                                   |                                                                                    | X  | X  | X   | X   | X   | X   | X   | [X] | [X] | [X] | [X] | –   | –   | –   |
| SH+LF                                                                                                 | 15                                                                                |                                                                                    | –  | –  | –   | –   | –   | [X] | [X] | [X] | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 21                                                                                |                                                                                    | –  | –  | –   | –   | –   | [X] | [X] | [X] | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 27                                                                                |                                                                                    | –  | –  | –   | –   | –   | [X] | [X] | [X] | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 33                                                                                |                                                                                    | –  | –  | –   | –   | –   | [X] | [X] | [X] | –   | –   | –   | –   | –   | –   |
| SH/LH                                                                                                 |                                                                                   |                                                                                    | –  | –  | X   | X   | X   | X   | X   | X   | X   | X   | [X] | [X] | [X] | –   |
| SH/LH+LF                                                                                              | 15                                                                                |                                                                                    | –  | –  | X   | X   | X   | X   | X   | [X] | [X] | [X] | –   | –   | –   | –   |
|                                                                                                       | 21                                                                                |                                                                                    | –  | –  | X   | X   | X   | X   | [X] | [X] | [X] | [X] | –   | –   | –   | –   |
|                                                                                                       | 27                                                                                |                                                                                    | –  | –  | X   | X   | X   | X   | [X] | [X] | [X] | [X] | –   | –   | –   | –   |
|                                                                                                       | 33                                                                                |                                                                                    | –  | –  | X   | X   | X   | [X] | [X] | [X] | [X] | [X] | –   | –   | –   | –   |
| LH                                                                                                    |                                                                                   |                                                                                    | –  | –  | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | [X] | [X] |
|  65°, 75°, 85°, 87° | 24                                                                                |                                                                                    | –  | X  | X   | [X] | [X] | –   | –   | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 30                                                                                |                                                                                    | –  | X  | X   | [X] | [X] | –   | –   | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 36                                                                                |                                                                                    | –  | X  | X   | [X] | [X] | –   | –   | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 42                                                                                |                                                                                    | –  | X  | X   | X   | [X] | –   | –   | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 48                                                                                |                                                                                    | –  | X  | X   | X   | [X] | –   | –   | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 54                                                                                |                                                                                    | –  | X  | X   | X   | [X] | –   | –   | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 60                                                                                |                                                                                    | –  | X  | X   | [X] | [X] | –   | –   | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 66                                                                                |                                                                                    | –  | X  | X   | [X] | [X] | –   | –   | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 72                                                                                |                                                                                    | –  | X  | X   | [X] | –   | –   | –   | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 78                                                                                |                                                                                    | –  | X  | X   | [X] | –   | –   | –   | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 84                                                                                |                                                                                    | –  | X  | X   | [X] | –   | –   | –   | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                       | 90                                                                                |                                                                                    | –  | X  | X   | [X] | –   | –   | –   | –   | –   | –   | –   | –   | –   | –   |
| 96                                                                                                    |                                                                                   | –                                                                                  | X  | X  | [X] | –   | –   | –   | –   | –   | –   | –   | –   | –   | –   |     |
|                                                                                                       |                                                                                   | m                                                                                  |    |    |     |     |     |     | 98  | 101 | 104 | 107 | 110 | 113 | 116 | 119 |
| SH/LH+LF3_S3                                                                                          | 15                                                                                |                                                                                    |    |    |     |     |     |     | [X] | [X] | [X] | [X] | [X] | [X] | [X] | [X] |
|                                                                                                       | 21                                                                                |                                                                                    |    |    |     |     |     |     | [X] | [X] | [X] | [X] | [X] | [X] | –   | –   |

X without assisting equipment · ohne Zusatzausrüstung · sans équipement aditionnel · senza attrezzatura di supporto ·  
 sin equipamiento de asistencia · sem equipamento auxiliar · без вспомогательного оборудования

[X] with additional side jack · mit seitlicher Zusatzabstützung · avec support latéral aditionnel · con martinetto laterale aggiuntivo ·  
 con gato lateral adicional · com macaco lateral adicional · с дополнительным боковым домкратом

All Superlift combinations can be erected or lowered to the ground without assisting equipment.

Alle Varianten mit Superlift können ohne Zusatzausrüstung aufgerichtet bzw. abgelegt werden.

Montée et dépose sur sol de toutes les combinaisons avec SL sans équipement aditionnel.

Tutte le combinazioni Superlift possono essere alzate o abbassate a terra senza attrezzatura di supporto.

Todas las combinaciones Superlift se pueden erigir o descender al terreno sin equipamiento de asistencia.

Todas as combinações de Superlift podem ser levantadas ou baixadas ao solo sem equipamentos auxiliares.

Оборудование суперлифт в любой конфигурации поднимается и опускается на землю без вспомогательного оборудования.

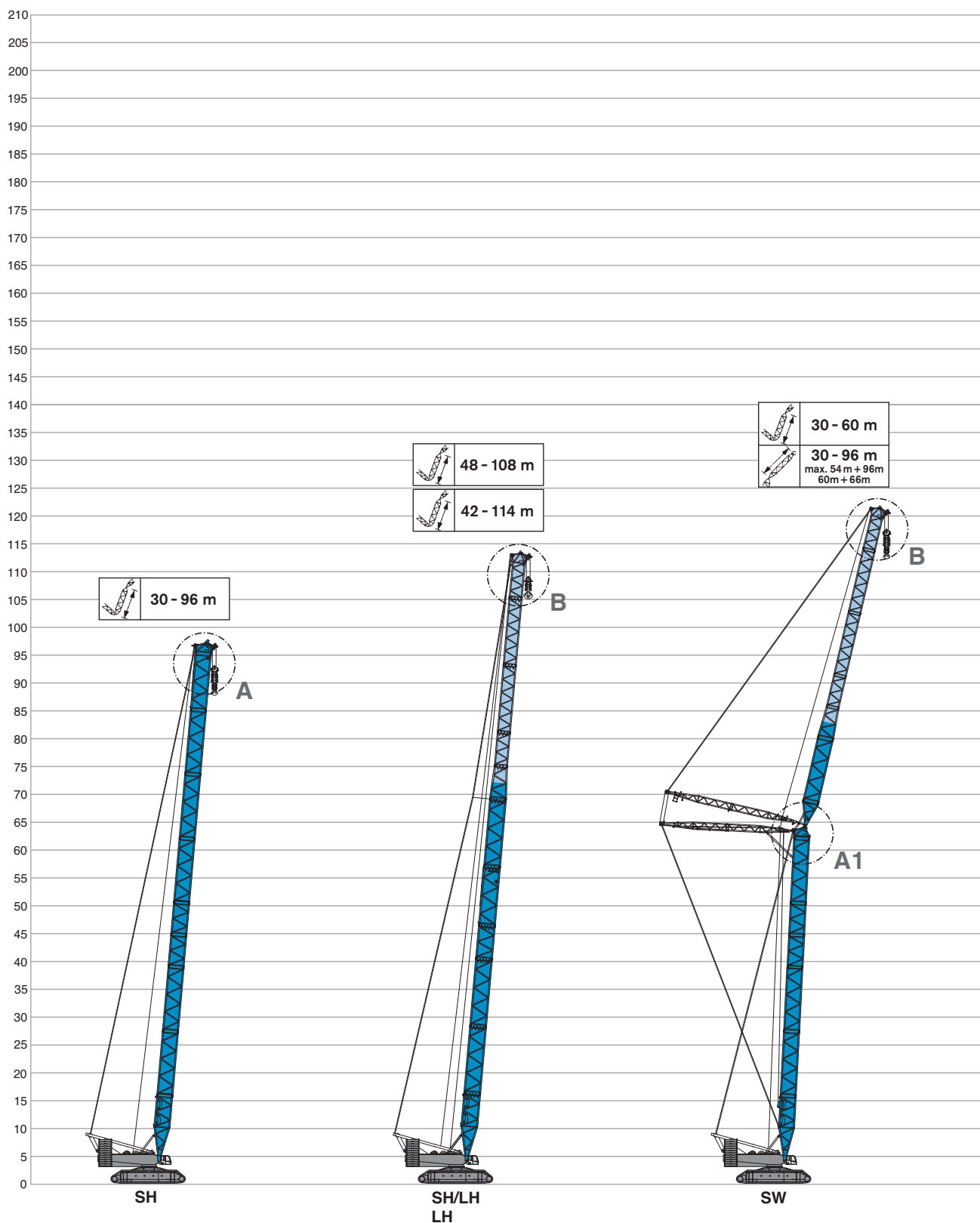
# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Boom Combinations · Ausleger-Kombinationen · Combinaisons de flèche · Combinazioni braccio ·  
Combinaciones de pluma · Combinações de lanças · Комбинации стрелы

Тип 3328    Тип 2822



# Specifications

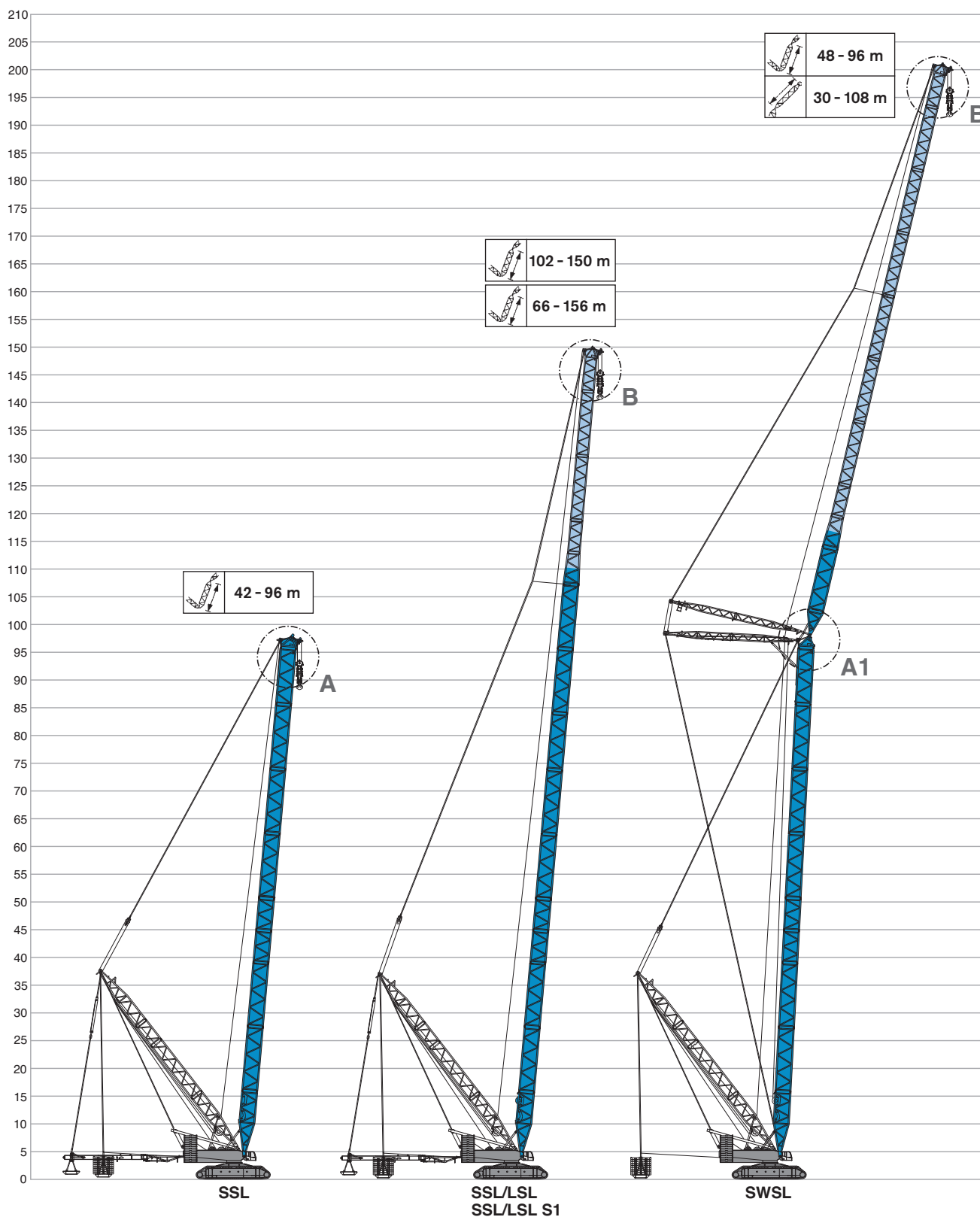
Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Boom Combinations · Ausleger-Kombinationen · Combinaisons de flèche · Combinazioni braccio ·  
Combinaciones de pluma · Combinações de lanças · Комбинации стрелы

Тип 3328

Тип 2822



# Specifications

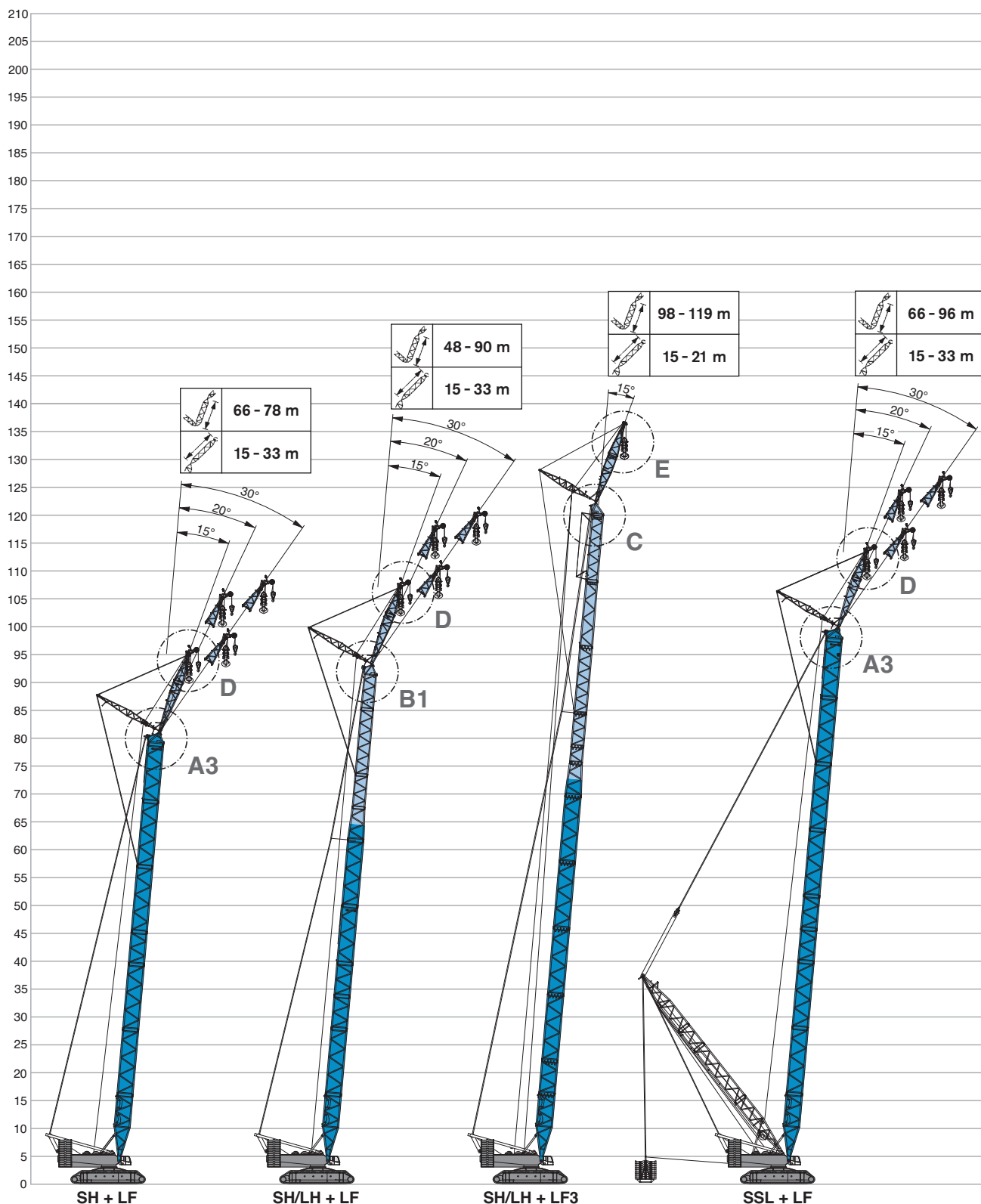
Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Boom Combinations · Ausleger-Kombinationen · Combinaisons de flèche · Combinazioni braccio ·  
Combinaciones de pluma · Combinações de lanças · Комбинации стрелы

Typ 3328

Typ 2822



# Specifications

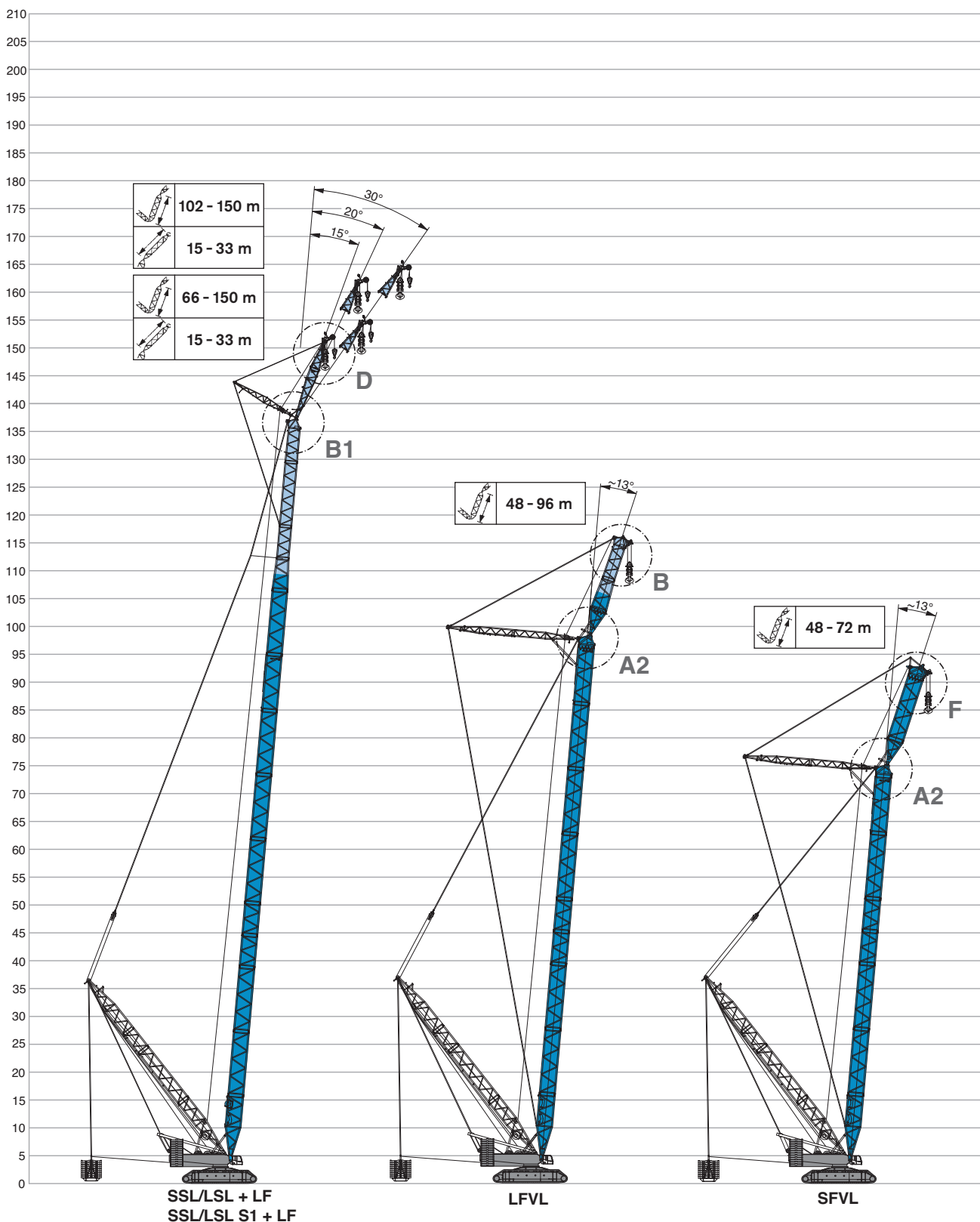
Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Boom Combinations · Ausleger-Kombinationen · Combinaisons de flèche · Combinazioni braccio ·  
Combinaciones de pluma · Combinações de lanças · Комбинации стрелы

Typ 3328

Typ 2822



## Notes

Notizen · Notes · Nota · Notas · Notas · пометы, комментарии, примечания

# MAIN BOOM

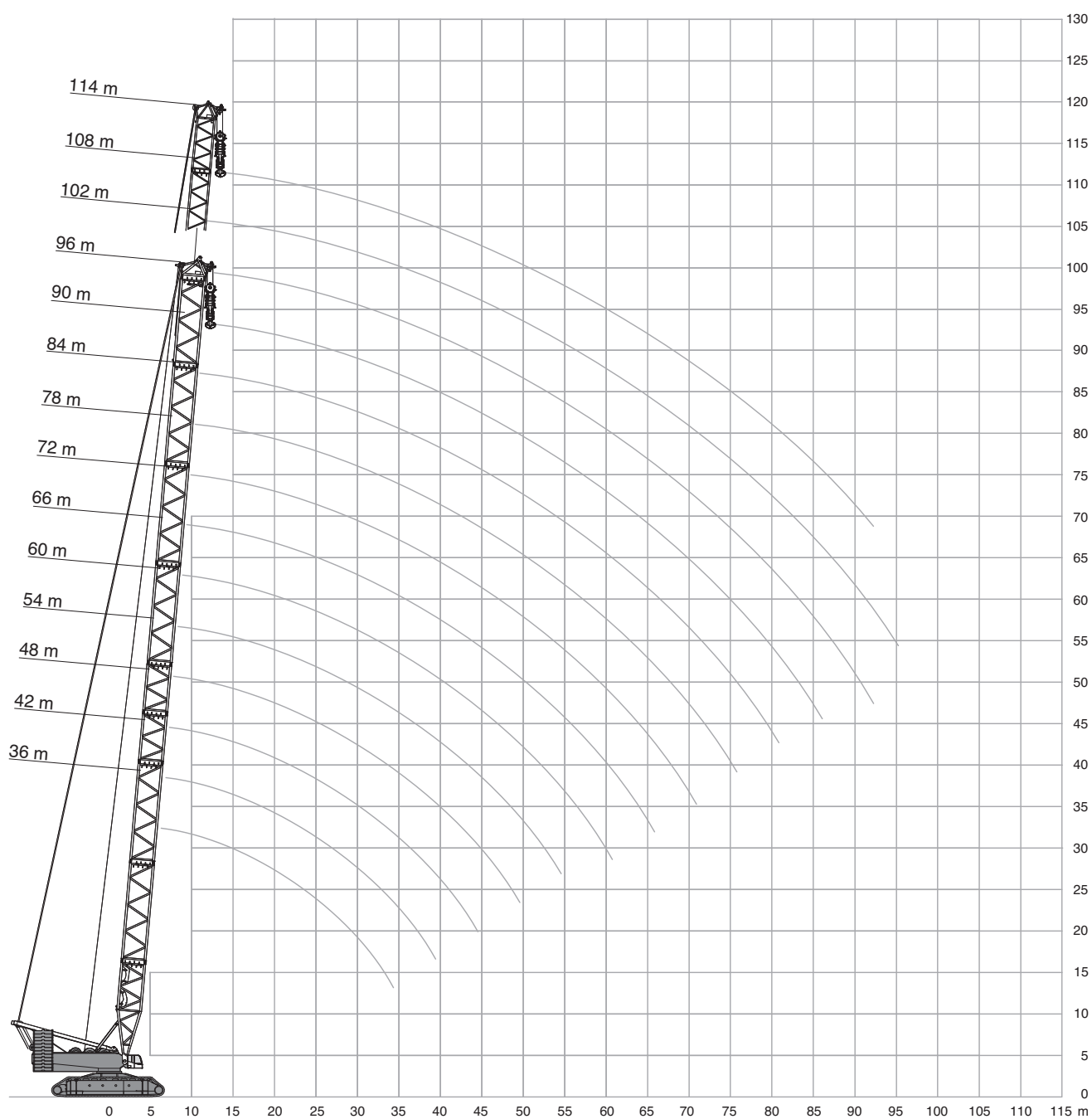
HAUPTAUSLEGER  
FLÈCHE PRINCIPALE  
BRACCIO BASE  
PLUMA PRINCIPAL  
LANÇA PRINCIPAL  
ГЛАВНАЯ СТРЕЛА



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SH, SH/LH, LH





# Operation

SH

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|   9,60 m  9.8 m/s           360°           EN13000 |        |        |        |        |        |        |        |        |        |        |        |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
|                                                                                                                                                                                                                                                                                                       | 36,0 m | 42,0 m | 48,0 m | 54,0 m | 60,0 m | 66,0 m | 72,0 m | 78,0 m | 84,0 m | 90,0 m | 96,0 m |    |
| m                                                                                                                                                                                                                                                                                                     | t      | t      | t      | t      | t      | t      | t      | t      | t      | t      | t      | m  |
| 7                                                                                                                                                                                                                                                                                                     | 791,0  | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | 7  |
| 8                                                                                                                                                                                                                                                                                                     | 696,0  | 691,0  | 681,0  | -      | -      | -      | -      | -      | -      | -      | -      | 8  |
| 9                                                                                                                                                                                                                                                                                                     | 620,0  | 616,0  | 592,0  | 556,0  | -      | -      | -      | -      | -      | -      | -      | 9  |
| 10                                                                                                                                                                                                                                                                                                    | 559,0  | 554,0  | 523,0  | 493,0  | 466,0  | 441,0  | -      | -      | -      | -      | -      | 10 |
| 11                                                                                                                                                                                                                                                                                                    | 507,0  | 494,0  | 467,0  | 442,0  | 419,0  | 398,0  | 378,0  | 360,0  | -      | -      | -      | 11 |
| 12                                                                                                                                                                                                                                                                                                    | 459,0  | 444,0  | 421,0  | 400,0  | 380,0  | 362,0  | 345,0  | 329,0  | 313,0  | 299,0  | -      | 12 |
| 13                                                                                                                                                                                                                                                                                                    | 418,0  | 403,0  | 383,0  | 365,0  | 348,0  | 332,0  | 316,0  | 302,0  | 288,0  | 276,0  | 250,0  | 13 |
| 14                                                                                                                                                                                                                                                                                                    | 383,0  | 368,0  | 351,0  | 335,0  | 319,0  | 306,0  | 292,0  | 279,0  | 266,0  | 255,0  | 243,0  | 14 |
| 16                                                                                                                                                                                                                                                                                                    | 322,0  | 313,0  | 299,0  | 286,0  | 274,0  | 262,0  | 251,0  | 241,0  | 230,0  | 220,0  | 210,0  | 16 |
| 18                                                                                                                                                                                                                                                                                                    | 267,0  | 265,0  | 259,0  | 249,0  | 238,0  | 229,0  | 219,0  | 210,0  | 201,0  | 192,0  | 184,0  | 18 |
| 20                                                                                                                                                                                                                                                                                                    | 227,0  | 225,0  | 223,0  | 219,0  | 209,0  | 201,0  | 193,0  | 185,0  | 177,0  | 169,0  | 162,0  | 20 |
| 22                                                                                                                                                                                                                                                                                                    | 197,0  | 194,0  | 192,0  | 190,0  | 186,0  | 179,0  | 171,0  | 164,0  | 157,0  | 150,0  | 143,0  | 22 |
| 24                                                                                                                                                                                                                                                                                                    | 172,0  | 170,0  | 167,0  | 165,0  | 163,0  | 160,0  | 153,0  | 147,0  | 140,0  | 134,0  | 127,0  | 24 |
| 26                                                                                                                                                                                                                                                                                                    | 153,0  | 150,0  | 148,0  | 146,0  | 144,0  | 142,0  | 138,0  | 132,0  | 126,0  | 120,0  | 114,0  | 26 |
| 28                                                                                                                                                                                                                                                                                                    | 137,0  | 134,0  | 132,0  | 129,0  | 127,0  | 126,0  | 124,0  | 119,0  | 113,0  | 108,0  | 102,0  | 28 |
| 30                                                                                                                                                                                                                                                                                                    | 124,0  | 121,0  | 118,0  | 116,0  | 114,0  | 112,0  | 111,0  | 108,0  | 102,0  | 97,5   | 92,0   | 30 |
| 34                                                                                                                                                                                                                                                                                                    | 103,0  | 100,0  | 97,0   | 94,5   | 92,5   | 91,0   | 89,0   | 87,0   | 84,0   | 79,5   | 74,5   | 34 |
| 38                                                                                                                                                                                                                                                                                                    | -      | 84,0   | 81,0   | 78,5   | 76,0   | 74,5   | 72,0   | 70,0   | 67,5   | 65,5   | 60,5   | 38 |
| 39                                                                                                                                                                                                                                                                                                    | -      | 81,0   | 77,7   | 75,2   | 72,5   | 70,7   | 68,5   | 66,2   | 63,7   | 61,7   | 57,5   | 39 |
| 42                                                                                                                                                                                                                                                                                                    | -      | -      | 69,0   | 66,2   | 63,0   | 61,0   | 58,7   | 56,5   | 53,6   | 51,5   | 48,5   | 42 |
| 44                                                                                                                                                                                                                                                                                                    | -      | -      | 63,5   | 60,5   | 57,0   | 55,0   | 52,5   | 50,5   | 47,9   | 45,9   | 42,6   | 44 |
| 46                                                                                                                                                                                                                                                                                                    | -      | -      | -      | 55,7   | 52,4   | 50,3   | 47,7   | 45,5   | 42,9   | 40,8   | 37,3   | 46 |
| 49                                                                                                                                                                                                                                                                                                    | -      | -      | -      | 49,4   | 45,9   | 43,5   | 41,0   | 38,6   | 35,7   | 33,7   | 30,4   | 49 |
| 50                                                                                                                                                                                                                                                                                                    | -      | -      | -      | -      | 43,9   | 41,6   | 39,0   | 36,6   | 33,6   | 31,7   | 28,3   | 50 |
| 54                                                                                                                                                                                                                                                                                                    | -      | -      | -      | -      | 37,0   | 34,5   | 31,5   | 29,2   | 26,3   | 24,1   | 20,6   | 54 |
| 58                                                                                                                                                                                                                                                                                                    | -      | -      | -      | -      | -      | 28,6   | 25,5   | 22,9   | 19,8   | 17,7   | 14,3   | 58 |
| 60                                                                                                                                                                                                                                                                                                    | -      | -      | -      | -      | -      | 25,9   | 22,7   | 20,1   | 17,0   | 14,8   | 11,4   | 60 |
| 62                                                                                                                                                                                                                                                                                                    | -      | -      | -      | -      | -      | -      | 20,3   | 17,6   | 14,5   | 12,2   | 8,8    | 62 |
| 63                                                                                                                                                                                                                                                                                                    | -      | -      | -      | -      | -      | -      | 19,1   | 16,4   | 13,3   | 10,9   | 7,5    | 63 |
| 65                                                                                                                                                                                                                                                                                                    | -      | -      | -      | -      | -      | -      | 17,0   | 14,1   | 11,0   | 8,6    | -      | 65 |
| 66                                                                                                                                                                                                                                                                                                    | -      | -      | -      | -      | -      | -      | -      | 13,1   | 10,0   | 7,5    | -      | 66 |
| 68                                                                                                                                                                                                                                                                                                    | -      | -      | -      | -      | -      | -      | -      | 11,1   | 7,9    | -      | -      | 68 |
| 70                                                                                                                                                                                                                                                                                                    | -      | -      | -      | -      | -      | -      | -      | 9,3    | -      | -      | -      | 70 |

 250 t
  80 t

# Operation

SH/LH

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|   9,60 m  9.8 m/s           360°           EN13000 |       |        |        |        |        |        |        |        |        |        |         |         |                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-------------------------------------------------------------------------------------|
|                                                                                                                                     |       | 48,0 m | 54,0 m | 60,0 m | 66,0 m | 72,0 m | 78,0 m | 84,0 m | 90,0 m | 96,0 m | 102,0 m | 108,0 m |  |
| m                                                                                                                                                                                                                                                                                                     | t     | t      | t      | t      | t      | t      | t      | t      | t      | t      | t       | t       | m                                                                                   |
| 8                                                                                                                                                                                                                                                                                                     | 506,0 | -      | -      | -      | -      | -      | -      | -      | -      | -      | -       | -       | 8                                                                                   |
| 9                                                                                                                                                                                                                                                                                                     | 506,0 | 506,0  | 506,0  | -      | -      | -      | -      | -      | -      | -      | -       | -       | 9                                                                                   |
| 10                                                                                                                                                                                                                                                                                                    | 506,0 | 501,0  | 474,0  | 451,0  | 429,0  | -      | -      | -      | -      | -      | -       | -       | 10                                                                                  |
| 11                                                                                                                                                                                                                                                                                                    | 468,0 | 455,0  | 431,5  | 412,0  | 393,0  | 373,0  | 357,0  | -      | -      | -      | -       | -       | 11                                                                                  |
| 12                                                                                                                                                                                                                                                                                                    | 430,0 | 409,0  | 389,0  | 373,0  | 357,0  | 342,0  | 328,0  | 315,0  | 300,0  | -      | -       | -       | 12                                                                                  |
| 13                                                                                                                                                                                                                                                                                                    | 395,0 | 376,5  | 359,0  | 344,5  | 330,5  | 317,5  | 305,0  | 293,0  | 279,5  | 268,0  | 242,0   | -       | 13                                                                                  |
| 14                                                                                                                                                                                                                                                                                                    | 360,0 | 344,0  | 329,0  | 316,0  | 304,0  | 293,0  | 282,0  | 271,0  | 259,0  | 250,0  | 241,0   | -       | 14                                                                                  |
| 16                                                                                                                                                                                                                                                                                                    | 309,0 | 296,0  | 283,0  | 274,0  | 263,0  | 254,0  | 245,0  | 237,0  | 226,0  | 219,0  | 212,0   | -       | 16                                                                                  |
| 18                                                                                                                                                                                                                                                                                                    | 269,0 | 258,0  | 248,0  | 240,0  | 232,0  | 224,0  | 217,0  | 210,0  | 200,0  | 194,0  | 188,0   | -       | 18                                                                                  |
| 20                                                                                                                                                                                                                                                                                                    | 231,0 | 229,0  | 220,0  | 213,0  | 206,0  | 199,0  | 193,0  | 187,0  | 178,0  | 173,0  | 168,0   | -       | 20                                                                                  |
| 22                                                                                                                                                                                                                                                                                                    | 203,5 | 201,5  | 196,0  | 192,5  | 186,5  | 180,5  | 175,0  | 169,5  | 161,5  | 156,5  | 152,0   | -       | 22                                                                                  |
| 24                                                                                                                                                                                                                                                                                                    | 176,0 | 174,0  | 172,0  | 172,0  | 167,0  | 162,0  | 157,0  | 152,0  | 145,0  | 140,0  | 136,0   | -       | 24                                                                                  |
| 26                                                                                                                                                                                                                                                                                                    | 158,5 | 156,0  | 154,0  | 154,0  | 151,5  | 148,0  | 143,5  | 139,0  | 132,5  | 128,0  | 124,5   | -       | 26                                                                                  |
| 28                                                                                                                                                                                                                                                                                                    | 141,0 | 138,0  | 136,0  | 136,0  | 136,0  | 134,0  | 130,0  | 126,0  | 120,0  | 116,0  | 113,0   | -       | 28                                                                                  |
| 30                                                                                                                                                                                                                                                                                                    | 128,5 | 125,5  | 123,5  | 123,5  | 123,0  | 122,0  | 119,5  | 116,0  | 110,0  | 106,7  | 104,0   | -       | 30                                                                                  |
| 34                                                                                                                                                                                                                                                                                                    | 106,7 | 103,7  | 101,7  | 101,5  | 100,7  | 100,5  | 99,5   | 97,7   | 92,5   | 90,0   | 87,5    | -       | 34                                                                                  |
| 38                                                                                                                                                                                                                                                                                                    | 90,5  | 87,5   | 85,2   | 85,0   | 84,2   | 83,7   | 82,7   | 82,2   | 78,2   | 76,2   | 74,0    | -       | 38                                                                                  |
| 42                                                                                                                                                                                                                                                                                                    | 78,2  | 75,3   | 72,6   | 72,5   | 71,5   | 71,0   | 70,0   | 69,3   | 65,6   | 64,1   | 62,5    | -       | 42                                                                                  |
| 44                                                                                                                                                                                                                                                                                                    | 73,0  | 70,1   | 67,3   | 67,0   | 66,0   | 65,5   | 64,5   | 63,6   | 59,8   | 58,3   | 57,0    | -       | 44                                                                                  |
| 46                                                                                                                                                                                                                                                                                                    | -     | 65,0   | 62,0   | 61,5   | 60,5   | 60,0   | 59,0   | 58,0   | 54,0   | 52,5   | 51,5    | -       | 46                                                                                  |
| 49                                                                                                                                                                                                                                                                                                    | -     | 59,0   | 56,2   | 55,5   | 54,4   | 53,6   | 52,5   | 51,6   | 47,5   | 46,0   | 44,9    | -       | 49                                                                                  |
| 50                                                                                                                                                                                                                                                                                                    | -     | -      | 54,3   | 53,5   | 52,3   | 51,5   | 50,3   | 49,5   | 45,3   | 43,9   | 42,7    | -       | 50                                                                                  |
| 54                                                                                                                                                                                                                                                                                                    | -     | -      | 47,3   | 46,5   | 45,1   | 44,0   | 42,7   | 41,9   | 37,5   | 36,2   | 35,3    | -       | 54                                                                                  |
| 58                                                                                                                                                                                                                                                                                                    | -     | -      | -      | 40,3   | 38,7   | 37,5   | 36,2   | 35,3   | 31,0   | 29,6   | 28,6    | -       | 58                                                                                  |
| 59                                                                                                                                                                                                                                                                                                    | -     | -      | -      | 39,0   | 37,4   | 36,1   | 34,7   | 34,0   | 29,6   | 28,1   | 27,2    | -       | 59                                                                                  |
| 62                                                                                                                                                                                                                                                                                                    | -     | -      | -      | -      | 33,6   | 32,3   | 30,9   | 30,1   | 25,5   | 24,2   | 23,2    | -       | 62                                                                                  |
| 65                                                                                                                                                                                                                                                                                                    | -     | -      | -      | -      | 30,3   | 28,9   | 27,3   | 26,4   | 22,0   | 20,5   | 19,5    | -       | 65                                                                                  |
| 66                                                                                                                                                                                                                                                                                                    | -     | -      | -      | -      | -      | 27,9   | 26,3   | 25,3   | 21,0   | 19,5   | 18,4    | -       | 66                                                                                  |
| 70                                                                                                                                                                                                                                                                                                    | -     | -      | -      | -      | -      | 24,1   | 22,3   | 21,2   | 16,8   | 15,3   | 14,2    | -       | 70                                                                                  |
| 74                                                                                                                                                                                                                                                                                                    | -     | -      | -      | -      | -      | -      | 19,0   | 17,8   | 13,3   | 11,8   | 10,7    | -       | 74                                                                                  |
| 75                                                                                                                                                                                                                                                                                                    | -     | -      | -      | -      | -      | -      | 18,2   | 17,0   | 12,5   | 10,9   | 9,8     | -       | 75                                                                                  |
| 78                                                                                                                                                                                                                                                                                                    | -     | -      | -      | -      | -      | -      | -      | 14,8   | 10,3   | 8,6    | 7,5     | -       | 78                                                                                  |
| 80                                                                                                                                                                                                                                                                                                    | -     | -      | -      | -      | -      | -      | -      | 13,4   | 8,9    | 7,2    | 6,1     | -       | 80                                                                                  |
| 81                                                                                                                                                                                                                                                                                                    | -     | -      | -      | -      | -      | -      | -      | -      | 8,2    | 6,5    | 5,4     | -       | 81                                                                                  |
| 82                                                                                                                                                                                                                                                                                                    | -     | -      | -      | -      | -      | -      | -      | -      | 7,5    | 5,8    | -       | -       | 82                                                                                  |
| 83                                                                                                                                                                                                                                                                                                    | -     | -      | -      | -      | -      | -      | -      | -      | 6,9    | 5,2    | -       | -       | 83                                                                                  |
| 85                                                                                                                                                                                                                                                                                                    | -     | -      | -      | -      | -      | -      | -      | -      | 5,7    | -      | -       | -       | 85                                                                                  |

 210 t   250 t  
 40 t   80 t

# Operation

LH

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Operação · Эксплуатация

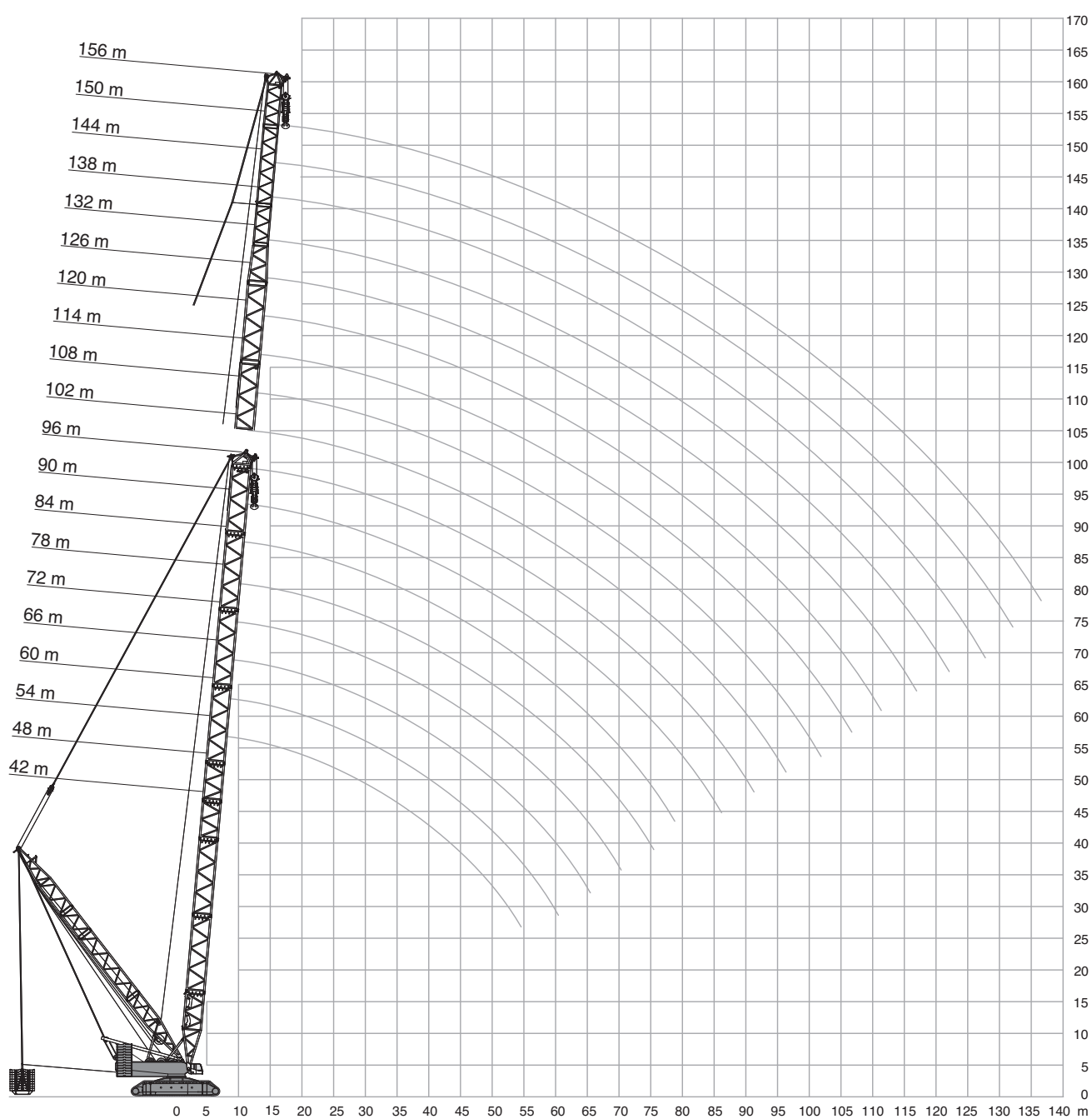
| <div>   9,60 m  9.8 m/s 360° EN13000 </div>                                                                     |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| <div>   42,0 m 48,0 m 54,0 m 60,0 m 66,0 m 72,0 m 78,0 m 84,0 m 90,0 m 96,0 m 102,0 m 108,0 m 114,0 m  </div> |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| m                                                                                                                                                                                                                                                                                                                                                                  | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | m  |
| 8                                                                                                                                                                                                                                                                                                                                                                  | 506,0 | 506,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 8  |
| 9                                                                                                                                                                                                                                                                                                                                                                  | 506,0 | 506,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 9  |
| 10                                                                                                                                                                                                                                                                                                                                                                 | 506,0 | 506,0 | 506,0 | 493,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | 10 |
| 11                                                                                                                                                                                                                                                                                                                                                                 | 480,0 | 469,5 | 459,0 | 438,0 | 405,0 | 354,0 | 288,0 | 258,0 | -     | -     | -     | -     | -     | 11 |
| 12                                                                                                                                                                                                                                                                                                                                                                 | 454,0 | 433,0 | 413,0 | 396,0 | 379,0 | 348,0 | 288,0 | 258,0 | 231,0 | 187,0 | -     | -     | -     | 12 |
| 13                                                                                                                                                                                                                                                                                                                                                                 | 416,0 | 398,0 | 381,0 | 365,5 | 350,5 | 329,0 | 283,5 | 255,5 | 229,0 | 187,0 | 167,0 | 143,0 | -     | 13 |
| 14                                                                                                                                                                                                                                                                                                                                                                 | 378,0 | 363,0 | 349,0 | 335,0 | 322,0 | 310,0 | 279,0 | 253,0 | 227,0 | 187,0 | 167,0 | 143,0 | 121,0 | 14 |
| 16                                                                                                                                                                                                                                                                                                                                                                 | 323,0 | 312,0 | 301,0 | 290,0 | 280,0 | 270,0 | 260,0 | 244,0 | 220,0 | 181,0 | 165,0 | 141,0 | 121,0 | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                 | 275,0 | 273,0 | 263,0 | 255,0 | 246,0 | 239,0 | 230,0 | 223,0 | 212,0 | 175,0 | 161,0 | 137,0 | 117,0 | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                 | 235,0 | 234,0 | 233,0 | 227,0 | 220,0 | 213,0 | 205,0 | 200,0 | 193,0 | 169,0 | 156,0 | 134,0 | 113,0 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                 | 207,5 | 206,5 | 205,5 | 202,5 | 199,0 | 193,5 | 186,5 | 182,0 | 176,0 | 162,0 | 152,0 | 130,0 | 109,5 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                 | 180,0 | 179,0 | 178,0 | 178,0 | 178,0 | 174,0 | 168,0 | 164,0 | 159,0 | 155,0 | 148,0 | 126,0 | 106,0 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                 | 162,0 | 161,5 | 160,0 | 160,0 | 160,0 | 157,5 | 154,0 | 150,5 | 146,0 | 142,5 | 137,0 | 123,5 | 103,0 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                 | 144,0 | 144,0 | 142,0 | 142,0 | 142,0 | 141,0 | 140,0 | 137,0 | 133,0 | 130,0 | 126,0 | 121,0 | 100,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                 | 131,5 | 131,5 | 129,5 | 129,5 | 129,0 | 128,5 | 127,5 | 125,5 | 123,0 | 120,5 | 116,5 | 112,5 | 98,0  | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                 | 110,0 | 109,5 | 108,0 | 107,7 | 107,0 | 106,7 | 105,5 | 105,0 | 104,0 | 102,5 | 99,7  | 97,0  | 91,5  | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                 | 94,3  | 93,2  | 92,0  | 91,5  | 90,7  | 90,2  | 88,7  | 88,7  | 87,7  | 86,7  | 85,2  | 83,7  | 81,2  | 38 |
| 39                                                                                                                                                                                                                                                                                                                                                                 | 91,0  | 89,8  | 88,5  | 88,0  | 87,1  | 86,6  | 85,1  | 85,1  | 84,1  | 83,1  | 81,6  | 80,6  | 78,3  | 39 |
| 42                                                                                                                                                                                                                                                                                                                                                                 | -     | 81,2  | 79,8  | 79,1  | 78,1  | 77,6  | 76,0  | 76,0  | 75,0  | 74,0  | 72,5  | 72,0  | 70,0  | 42 |
| 44                                                                                                                                                                                                                                                                                                                                                                 | -     | 76,0  | 74,6  | 73,8  | 72,8  | 72,3  | 70,5  | 70,5  | 69,5  | 68,5  | 67,0  | 66,5  | 64,5  | 44 |
| 46                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | 69,5  | 68,5  | 67,5  | 67,0  | 65,0  | 65,0  | 64,0  | 63,0  | 61,5  | 61,0  | 59,0  | 46 |
| 49                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | 63,5  | 62,7  | 61,5  | 61,0  | 59,0  | 59,0  | 57,7  | 56,7  | 55,2  | 54,5  | 52,6  | 49 |
| 50                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | 60,8  | 59,5  | 59,0  | 57,0  | 57,0  | 55,6  | 54,6  | 53,1  | 52,3  | 50,4  | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | 54,0  | 52,7  | 52,0  | 49,9  | 49,7  | 48,3  | 47,3  | 45,6  | 44,6  | 42,8  | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | 47,1  | 46,0  | 43,8  | 43,3  | 42,0  | 40,9  | 39,0  | 38,0  | 36,1  | 58 |
| 59                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | 45,8  | 44,7  | 42,5  | 42,0  | 40,7  | 39,6  | 37,6  | 36,6  | 34,7  | 59 |
| 62                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | 41,1  | 38,7  | 38,1  | 36,8  | 35,7  | 33,6  | 32,5  | 30,8  | 62 |
| 65                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | 37,7  | 35,2  | 34,5  | 33,1  | 31,9  | 30,1  | 29,0  | 27,0  | 65 |
| 66                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | 34,2  | 33,5  | 32,0  | 30,8  | 29,0  | 27,9  | 25,9  | 66 |
| 70                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | 30,4  | 29,5  | 28,0  | 26,8  | 24,8  | 23,7  | 21,8  | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | 26,2  | 24,6  | 23,3  | 21,3  | 20,3  | 18,3  | 74 |
| 75                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | 25,4  | 23,8  | 22,5  | 20,5  | 19,4  | 17,4  | 75 |
| 78                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | 21,5  | 20,3  | 18,3  | 17,1  | 15,1  | 78 |
| 80                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | 20,2  | 18,9  | 16,9  | 15,7  | 13,6  | 80 |
| 82                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | 17,6  | 15,5  | 14,3  | 12,3  | 82 |
| 85                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | 15,8  | 13,7  | 12,4  | 10,5  | 85 |
| 86                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 13,1  | 11,9  | 9,9   | 86 |
| 90                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 11,0  | 9,8   | 7,7   | 90 |
| 91                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 10,6  | 9,3   | 7,2   | 91 |
| 94                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 7,9   | 5,7   | 94 |
| 95                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 7,4   | 5,3   | 95 |
| 96                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 7,0   | -     | 96 |
| 98                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 98 |

|                                                                                     |       |       |       |       |
|-------------------------------------------------------------------------------------|-------|-------|-------|-------|
|  | 130 t | 170 t | 210 t | 250 t |
|  | 0 t   | 0 t   | 40 t  | 80 t  |

# Operation

## SSL, SSL/LSL, SSL/LSL S1

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация



# Operation

SSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div><div><div></div><div></div><div></div></div>170-250 t + <div><div><div></div><div></div><div></div></div>0-80 t</div> <div><div><div></div><div></div><div></div></div>15-30 m</div> <div><div><div></div><div></div><div></div></div>9,60 m</div> <div><div><div></div><div></div><div></div></div>9.8 m/s</div> <div>360°</div> <div>EN13000</div></div> |       |                                                               |        |                                                                |        |                                                               |                                                             |                                                                |        |                                                               |       |                                                                |       |                                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------|--------|----------------------------------------------------------------|--------|---------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------|--------|---------------------------------------------------------------|-------|----------------------------------------------------------------|-------|---------------------------------------------------------------|--|
| <div><div><div></div><div></div><div></div></div>42 m</div>                                                                                                                                                                                                                                                                                                     |       |                                                               |        | <div><div><div></div><div></div><div></div></div>48 m</div>    |        |                                                               | <div><div><div></div><div></div><div></div></div>54 m</div> |                                                                |        | <div><div><div></div><div></div><div></div></div>60 m</div>   |       |                                                                |       |                                                               |  |
| <div><div><div></div><div></div><div></div></div>0 t</div>                                                                                                                                                                                                                                                                                                      |       | <div><div><div></div><div></div><div></div></div>0-450t</div> |        | <div><div><div></div><div></div><div></div></div>0 t</div>     |        | <div><div><div></div><div></div><div></div></div>0-450t</div> |                                                             | <div><div><div></div><div></div><div></div></div>0 t</div>     |        | <div><div><div></div><div></div><div></div></div>0-450t</div> |       | <div><div><div></div><div></div><div></div></div>0 t</div>     |       | <div><div><div></div><div></div><div></div></div>0-450t</div> |  |
| <div><div><div></div><div></div><div></div></div>15-24 m</div>                                                                                                                                                                                                                                                                                                  |       | <div><div><div></div><div></div><div></div></div>24-30m</div> |        | <div><div><div></div><div></div><div></div></div>15-24 m</div> |        | <div><div><div></div><div></div><div></div></div>24-30m</div> |                                                             | <div><div><div></div><div></div><div></div></div>15-24 m</div> |        | <div><div><div></div><div></div><div></div></div>24-30m</div> |       | <div><div><div></div><div></div><div></div></div>15-24 m</div> |       | <div><div><div></div><div></div><div></div></div>24-30m</div> |  |
| m                                                                                                                                                                                                                                                                                                                                                               | t     | t                                                             | t      | t                                                              | t      | t                                                             | t                                                           | t                                                              | t      | t                                                             | t     | t                                                              | t     | m                                                             |  |
| 8                                                                                                                                                                                                                                                                                                                                                               | 761,0 | 1250,0                                                        | 1250,0 | 757,0                                                          | 1186,0 | 1186,0                                                        | -                                                           | -                                                              | -      | -                                                             | -     | -                                                              | -     | 8                                                             |  |
| 9                                                                                                                                                                                                                                                                                                                                                               | 678,0 | 1246,0                                                        | 1250,0 | 674,0                                                          | 1186,0 | 1186,0                                                        | 645,0                                                       | 1037,0                                                         | 1037,0 | -                                                             | -     | -                                                              | -     | 9                                                             |  |
| 10                                                                                                                                                                                                                                                                                                                                                              | 602,0 | 1243,0                                                        | 1244,0 | 602,0                                                          | 1186,0 | 1186,0                                                        | 573,0                                                       | 1037,0                                                         | 1037,0 | 542,0                                                         | 959,0 | 959,0                                                          | 959,0 | 10                                                            |  |
| 12                                                                                                                                                                                                                                                                                                                                                              | 470,0 | 1127,0                                                        | 1217,0 | 468,0                                                          | 1123,0 | 1177,0                                                        | 467,0                                                       | 1037,0                                                         | 1037,0 | 445,0                                                         | 959,0 | 959,0                                                          | 959,0 | 12                                                            |  |
| 14                                                                                                                                                                                                                                                                                                                                                              | 382,0 | 988,0                                                         | 1129,0 | 379,0                                                          | 984,0  | 1126,0                                                        | 378,0                                                       | 981,0                                                          | 1037,0 | 375,0                                                         | 959,0 | 959,0                                                          | 959,0 | 14                                                            |  |
| 16                                                                                                                                                                                                                                                                                                                                                              | 329,0 | 865,0                                                         | 991,0  | 316,0                                                          | 861,0  | 988,0                                                         | 314,0                                                       | 858,0                                                          | 984,0  | 313,0                                                         | 855,0 | 959,0                                                          | 959,0 | 16                                                            |  |
| 18                                                                                                                                                                                                                                                                                                                                                              | 281,0 | 768,0                                                         | 847,0  | 278,0                                                          | 764,0  | 877,0                                                         | 267,0                                                       | 761,0                                                          | 874,0  | 266,0                                                         | 758,0 | 871,0                                                          | 871,0 | 18                                                            |  |
| 20                                                                                                                                                                                                                                                                                                                                                              | 244,0 | 690,0                                                         | 735,0  | 241,0                                                          | 686,0  | 788,0                                                         | 239,0                                                       | 683,0                                                          | 785,0  | 229,0                                                         | 680,0 | 782,0                                                          | 782,0 | 20                                                            |  |
| 22                                                                                                                                                                                                                                                                                                                                                              | 214,0 | 625,0                                                         | 645,0  | 211,0                                                          | 622,0  | 696,0                                                         | 209,0                                                       | 619,0                                                          | 712,0  | 207,0                                                         | 616,0 | 709,0                                                          | 709,0 | 22                                                            |  |
| 24                                                                                                                                                                                                                                                                                                                                                              | 190,0 | 568,0                                                         | 570,0  | 187,0                                                          | 568,0  | 619,0                                                         | 184,0                                                       | 565,0                                                          | 651,0  | 182,0                                                         | 562,0 | 647,0                                                          | 647,0 | 24                                                            |  |
| 26                                                                                                                                                                                                                                                                                                                                                              | 170,0 | 505,0                                                         | 508,0  | 167,0                                                          | 522,0  | 554,0                                                         | 164,0                                                       | 519,0                                                          | 585,0  | 162,0                                                         | 516,0 | 595,0                                                          | 595,0 | 26                                                            |  |
| 28                                                                                                                                                                                                                                                                                                                                                              | 153,0 | 451,0                                                         | 454,0  | 150,0                                                          | 483,0  | 498,0                                                         | 147,0                                                       | 480,0                                                          | 529,0  | 144,0                                                         | 477,0 | 549,0                                                          | 549,0 | 28                                                            |  |
| 30                                                                                                                                                                                                                                                                                                                                                              | 139,0 | 416,0                                                         | 407,0  | 135,0                                                          | 447,0  | 450,0                                                         | 132,0                                                       | 446,0                                                          | 480,0  | 130,0                                                         | 442,0 | 501,0                                                          | 501,0 | 30                                                            |  |
| 34                                                                                                                                                                                                                                                                                                                                                              | 115,0 | 340,0                                                         | 328,0  | 112,0                                                          | 368,0  | 370,0                                                         | 109,0                                                       | 389,0                                                          | 400,0  | 106,0                                                         | 386,0 | 421,0                                                          | 421,0 | 34                                                            |  |
| 38                                                                                                                                                                                                                                                                                                                                                              | 98,0  | 285,0                                                         | 261,0  | 94,0                                                           | 315,0  | 305,0                                                         | 91,0                                                        | 334,0                                                          | 336,0  | 88,0                                                          | 341,0 | 357,0                                                          | 357,0 | 38                                                            |  |
| 39                                                                                                                                                                                                                                                                                                                                                              | 94,0  | 269,0                                                         | 245,0  | 90,2                                                           | 301,0  | 291,0                                                         | 87,2                                                        | 320,0                                                          | 322,0  | 84,0                                                          | 331,5 | 343,5                                                          | 343,5 | 39                                                            |  |
| 42                                                                                                                                                                                                                                                                                                                                                              | -     | -                                                             | -      | 80,2                                                           | 261,0  | 250,5                                                         | 77,0                                                        | 281,5                                                          | 283,5  | 73,5                                                          | 301,0 | 306,0                                                          | 306,0 | 42                                                            |  |
| 44                                                                                                                                                                                                                                                                                                                                                              | -     | -                                                             | -      | 74,0                                                           | 237,0  | 224,0                                                         | 70,5                                                        | 262,0                                                          | 259,0  | 67,0                                                          | 280,0 | 282,0                                                          | 282,0 | 44                                                            |  |
| 46                                                                                                                                                                                                                                                                                                                                                              | -     | -                                                             | -      | -                                                              | -      | -                                                             | 65,2                                                        | 243,5                                                          | 237,0  | 61,7                                                          | 259,5 | 261,5                                                          | 261,5 | 46                                                            |  |
| 49                                                                                                                                                                                                                                                                                                                                                              | -     | -                                                             | -      | -                                                              | -      | -                                                             | 58,0                                                        | 214,0                                                          | 204,0  | 54,3                                                          | 229,7 | 231,7                                                          | 231,7 | 49                                                            |  |
| 50                                                                                                                                                                                                                                                                                                                                                              | -     | -                                                             | -      | -                                                              | -      | -                                                             | -                                                           | -                                                              | -      | 52,2                                                          | 223,0 | 222,5                                                          | 222,5 | 50                                                            |  |
| 54                                                                                                                                                                                                                                                                                                                                                              | -     | -                                                             | -      | -                                                              | -      | -                                                             | -                                                           | -                                                              | -      | 44,1                                                          | 195,0 | 186,0                                                          | 186,0 | 54                                                            |  |

| 66 m           |       |       |       | 72 m           |       |       |       | 78 m           |       |       |    |
|----------------|-------|-------|-------|----------------|-------|-------|-------|----------------|-------|-------|----|
| 0 t 0-450t     |       |       |       | 0 t 0-450t     |       |       |       | 0 t 0-450t     |       |       |    |
| 15-24 m 24-30m |       |       |       | 15-24 m 24-30m |       |       |       | 15-24 m 24-30m |       |       |    |
| m              | t     | t     | t     | t              | t     | t     | t     | t              | t     | t     | m  |
| 10             | 514,0 | 841,0 | 841,0 | -              | -     | -     | -     | -              | -     | -     | 10 |
| 11             | 465,0 | 841,0 | 841,0 | 443,0          | 760,0 | 760,0 | 422,0 | 677,0          | 679,0 | 679,0 | 11 |
| 12             | 424,0 | 841,0 | 841,0 | 404,0          | 760,0 | 760,0 | 387,0 | 677,0          | 679,0 | 679,0 | 12 |
| 14             | 359,0 | 841,0 | 841,0 | 343,0          | 760,0 | 760,0 | 329,0 | 677,0          | 679,0 | 679,0 | 14 |
| 16             | 310,0 | 841,0 | 841,0 | 297,0          | 760,0 | 760,0 | 285,0 | 677,0          | 679,0 | 679,0 | 16 |
| 18             | 265,0 | 756,0 | 841,0 | 260,0          | 749,0 | 760,0 | 250,0 | 677,0          | 679,0 | 679,0 | 18 |
| 20             | 228,0 | 678,0 | 780,0 | 227,0          | 675,0 | 760,0 | 222,0 | 666,0          | 679,0 | 679,0 | 20 |
| 22             | 206,0 | 613,0 | 707,0 | 197,0          | 611,0 | 704,0 | 196,0 | 608,0          | 679,0 | 679,0 | 22 |
| 24             | 181,0 | 560,0 | 645,0 | 180,0          | 557,0 | 642,0 | 172,0 | 554,0          | 640,0 | 640,0 | 24 |
| 26             | 160,0 | 514,0 | 593,0 | 159,0          | 511,0 | 590,0 | 157,0 | 509,0          | 588,0 | 588,0 | 26 |
| 28             | 143,0 | 474,0 | 548,0 | 141,0          | 472,0 | 545,0 | 140,0 | 469,0          | 543,0 | 543,0 | 28 |
| 30             | 128,0 | 440,0 | 509,0 | 126,0          | 437,0 | 506,0 | 124,0 | 435,0          | 504,0 | 504,0 | 30 |
| 34             | 104,0 | 384,0 | 435,0 | 102,0          | 381,0 | 442,0 | 100,0 | 378,0          | 439,0 | 439,0 | 34 |
| 38             | 86,0  | 339,0 | 372,0 | 83,5           | 336,0 | 381,0 | 81,5  | 333,0          | 385,0 | 385,0 | 38 |
| 42             | 71,5  | 303,5 | 322,5 | 69,2           | 300,5 | 332,0 | 66,7  | 297,5          | 337,0 | 337,0 | 42 |
| 46             | 59,5  | 272,0 | 279,0 | 57,0           | 270,0 | 289,5 | 54,6  | 267,5          | 296,0 | 296,0 | 46 |
| 50             | 49,7  | 239,5 | 241,5 | 47,0           | 244,0 | 253,5 | 44,6  | 242,0          | 261,0 | 261,0 | 50 |
| 54             | 41,6  | 206,0 | 208,0 | 38,6           | 218,5 | 222,0 | 36,1  | 219,5          | 230,5 | 230,5 | 54 |
| 58             | 34,7  | 180,5 | 177,0 | 31,5           | 191,5 | 193,0 | 28,8  | 199,0          | 203,0 | 203,0 | 58 |
| 60             | 31,6  | 170,0 | 162,0 | 28,2           | 178,0 | 179,0 | 25,5  | 189,0          | 190,0 | 190,0 | 60 |
| 62             | -     | -     | -     | 25,4           | 166,0 | 166,5 | 22,6  | 177,0          | 178,5 | 178,5 | 62 |
| 65             | -     | -     | -     | 21,4           | 155,0 | 147,0 | 18,5  | 160,0          | 161,5 | 161,5 | 65 |
| 66             | -     | -     | -     | -              | -     | -     | 17,3  | 154,3          | 156,0 | 156,0 | 66 |
| 70             | -     | -     | -     | -              | -     | -     | 12,7  | 139,0          | 134,0 | 134,0 | 70 |

Lifting capacities > 1000 t only with special equipment · Werte > 1000 t nur mit Sonderausrüstung · Capacités de levage > 1000 t uniquement avec équipement special · Capacità di sollevamento > 1000 t solo con attrezzatura speciale · Capacidades de elevación > 1000 t sólo con equipamiento especial · Capacidades de içamento > 1000 t somente com equipamento especial · Грузоподъемность > 1000 т только со специальным оборудованием

|  |     |       |       |       |       |       |
|--|-----|-------|-------|-------|-------|-------|
|  | 0 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|--|-----|-------|-------|-------|-------|-------|

# Operation

SSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  170-250 t +  0-80 t  15-30 m  9,60 m  9.8 m/s  360° EN13000                                                                                                                 |       |       |       |       |       |       |       |       |       |       |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
|         |       |       |       |       |       |       |       |       |       |       |    |
| 84 m      90 m      96 m<br>0 t      0-450 t      0 t      0-450 t      0 t      0-450 t<br>15-24 m      24-30 m      15-24 m      24-30 m      15-24 m      24-30 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |       |       |       |       |       |       |       |       |       |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | m  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 369,0 | 625,0 | 604,0 | 353,0 | 559,0 | 540,0 | -     | -     | -     | -     | 12 |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 340,0 | 625,0 | 604,0 | 326,0 | 559,0 | 540,0 | 312,0 | 498,0 | 484,0 | 484,0 | 13 |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 315,0 | 625,0 | 604,0 | 302,0 | 559,0 | 540,0 | 289,0 | 498,0 | 484,0 | 484,0 | 14 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 273,0 | 625,0 | 604,0 | 263,0 | 559,0 | 540,0 | 252,0 | 498,0 | 484,0 | 484,0 | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 240,0 | 616,0 | 604,0 | 231,0 | 559,0 | 540,0 | 221,0 | 498,0 | 484,0 | 484,0 | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 213,0 | 604,0 | 604,0 | 205,0 | 550,0 | 540,0 | 196,0 | 498,0 | 484,0 | 484,0 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 190,0 | 595,0 | 604,0 | 183,0 | 539,0 | 540,0 | 175,0 | 490,0 | 484,0 | 484,0 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 170,0 | 551,0 | 604,0 | 164,0 | 535,0 | 540,0 | 157,0 | 482,0 | 484,0 | 484,0 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 149,0 | 505,0 | 585,0 | 148,0 | 503,0 | 537,0 | 142,0 | 478,0 | 484,0 | 484,0 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 137,0 | 466,0 | 540,0 | 130,0 | 464,0 | 528,0 | 127,0 | 460,0 | 482,0 | 482,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 122,0 | 432,0 | 501,0 | 120,0 | 429,0 | 498,0 | 116,0 | 426,0 | 478,0 | 478,0 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 97,5  | 375,0 | 436,0 | 96,0  | 373,0 | 434,0 | 92,5  | 369,0 | 430,0 | 430,0 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 78,5  | 330,0 | 384,0 | 77,0  | 328,0 | 383,0 | 73,0  | 324,0 | 377,0 | 377,0 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 63,7  | 294,5 | 338,5 | 61,7  | 292,5 | 338,0 | 58,2  | 288,5 | 333,0 | 333,0 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 51,6  | 264,0 | 298,5 | 49,5  | 262,0 | 299,5 | 45,9  | 258,0 | 296,0 | 296,0 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 41,5  | 238,5 | 264,5 | 39,3  | 236,5 | 266,5 | 35,6  | 232,5 | 264,0 | 264,0 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 32,9  | 217,0 | 235,0 | 30,6  | 215,0 | 237,5 | 26,9  | 211,0 | 236,5 | 236,5 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 25,6  | 198,0 | 209,0 | 23,2  | 196,0 | 212,5 | 19,5  | 192,0 | 212,5 | 212,5 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 19,3  | 181,0 | 185,5 | 16,8  | 179,5 | 190,5 | 13,1  | 175,5 | 191,0 | 191,0 | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13,9  | 163,0 | 164,0 | 11,3  | 165,0 | 170,0 | 7,5   | 161,0 | 171,5 | 171,5 | 66 |
| 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10,3  | 148,0 | 149,0 | 7,6   | 154,0 | 155,5 | -     | 152,0 | 157,7 | 157,7 | 69 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 9,2   | 143,0 | 144,0 | -     | 149,6 | 151,0 | -     | 149,0 | 153,5 | 153,5 | 70 |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7,0   | 133,0 | 134,0 | -     | 141,0 | 142,0 | -     | 143,0 | 145,0 | 145,0 | 72 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 126,3 | 124,6 | -     | 132,5 | 133,5 | -     | 135,5 | 137,0 | 137,0 | 74 |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 124,0 | 120,0 | -     | 128,2 | 129,2 | -     | 131,7 | 133,0 | 133,0 | 75 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -     | -     | 115,5 | 116,5 | -     | 120,5 | 121,5 | 121,5 | 78 |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -     | -     | 111,0 | 108,0 | -     | 113,0 | 114,0 | 114,0 | 80 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -     | -     | -     | -     | -     | 106,0 | 107,0 | 107,0 | 82 |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -     | -     | -     | -     | -     | 98,0  | 96,5  | 96,5  | 85 |

|                                                                                     |     |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|-------|-------|-------|-------|-------|
|  | 0 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|-------|-------|-------|-------|-------|

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

## SSL/LSL S1

| 170-250 t + 0-80 t 15-30 m 9,60 m 9.8 m/s 360° EN13000 |       |        |       |            |       |        |            |         |       |            |       |         |       |        |  |
|--------------------------------------------------------|-------|--------|-------|------------|-------|--------|------------|---------|-------|------------|-------|---------|-------|--------|--|
| 66 m                                                   |       |        |       | 72 m       |       |        | 78 m       |         |       | 84 m       |       |         |       |        |  |
| SSL/LSL S1                                             |       |        |       | SSL/LSL S1 |       |        | SSL/LSL S1 |         |       | SSL/LSL S1 |       |         |       |        |  |
| 0 t                                                    |       | 0-450t |       | 0 t        |       | 0-450t |            | 0 t     |       | 0-450t     |       | 0 t     |       | 0-450t |  |
| 15-24 m                                                |       | 24-30m |       | 15-24 m    |       | 24-30m |            | 15-24 m |       | 24-30m     |       | 15-24 m |       | 24-30m |  |
| m                                                      | t     | t      | t     | t          | t     | t      | t          | t       | t     | t          | t     | t       | t     | m      |  |
| 10                                                     | 506,0 | 506,0  | 506,0 | 494,0      | 506,0 | 506,0  | -          | -       | -     | -          | -     | -       | -     | 10     |  |
| 11                                                     | 472,0 | 506,0  | 506,0 | 449,0      | 506,0 | 506,0  | 429,0      | 506,0   | 506,0 | 409,0      | 506,0 | 506,0   | 506,0 | 11     |  |
| 12                                                     | 434,0 | 506,0  | 506,0 | 414,0      | 506,0 | 506,0  | 396,0      | 506,0   | 506,0 | 378,5      | 506,0 | 506,0   | 506,0 | 12     |  |
| 14                                                     | 368,5 | 506,0  | 506,0 | 352,5      | 506,0 | 506,0  | 338,5      | 506,0   | 506,0 | 324,5      | 506,0 | 506,0   | 506,0 | 14     |  |
| 16                                                     | 319,0 | 506,0  | 506,0 | 306,0      | 506,0 | 506,0  | 294,5      | 506,0   | 506,0 | 282,5      | 506,0 | 506,0   | 506,0 | 16     |  |
| 18                                                     | 277,0 | 506,0  | 506,0 | 269,5      | 506,0 | 506,0  | 259,5      | 506,0   | 506,0 | 249,0      | 506,0 | 506,0   | 506,0 | 18     |  |
| 20                                                     | 240,5 | 506,0  | 506,0 | 236,5      | 506,0 | 506,0  | 231,0      | 506,0   | 506,0 | 221,5      | 506,0 | 506,0   | 506,0 | 20     |  |
| 22                                                     | 213,3 | 506,0  | 506,0 | 209,3      | 506,0 | 506,0  | 205,6      | 506,0   | 506,0 | 199,0      | 506,0 | 506,0   | 506,0 | 22     |  |
| 24                                                     | 192,0 | 506,0  | 506,0 | 188,0      | 506,0 | 506,0  | 181,0      | 506,0   | 506,0 | 179,0      | 506,0 | 506,0   | 506,0 | 24     |  |
| 26                                                     | 173,0 | 495,5  | 506,0 | 169,0      | 493,0 | 506,0  | 165,0      | 492,5   | 504,0 | 163,0      | 490,5 | 506,0   | 506,0 | 26     |  |
| 28                                                     | 154,0 | 485,0  | 506,0 | 150,0      | 480,0 | 506,0  | 149,0      | 479,0   | 502,0 | 147,0      | 475,0 | 497,0   | 506,0 | 28     |  |
| 30                                                     | 140,5 | 452,5  | 494,0 | 136,5      | 448,0 | 506,0  | 135,0      | 446,5   | 499,0 | 133,0      | 443,0 | 484,0   | 506,0 | 30     |  |
| 34                                                     | 116,5 | 395,0  | 446,0 | 112,5      | 391,0 | 450,0  | 110,5      | 389,0   | 449,0 | 108,2      | 386,0 | 446,0   | 506,0 | 34     |  |
| 38                                                     | 97,7  | 350,0  | 383,0 | 93,7       | 346,0 | 389,0  | 92,0       | 344,0   | 395,0 | 89,2       | 341,0 | 394,0   | 506,0 | 38     |  |
| 42                                                     | 83,1  | 313,3  | 332,0 | 79,1       | 309,6 | 340,0  | 77,5       | 308,0   | 346,0 | 74,5       | 305,0 | 348,0   | 506,0 | 42     |  |
| 46                                                     | 70,5  | 280,0  | 289,0 | 66,5       | 277,0 | 298,0  | 64,5       | 276,0   | 306,0 | 61,5       | 273,0 | 308,0   | 506,0 | 46     |  |
| 50                                                     | 61,1  | 248,6  | 252,0 | 57,1       | 251,6 | 262,0  | 55,1       | 250,6   | 271,0 | 52,1       | 248,3 | 274,0   | 506,0 | 50     |  |
| 54                                                     | 52,9  | 217,3  | 218,0 | 48,8       | 226,0 | 230,0  | 46,8       | 228,0   | 240,0 | 43,6       | 226,0 | 245,0   | 506,0 | 54     |  |
| 58                                                     | 45,9  | 192,0  | 188,0 | 41,6       | 200,0 | 202,0  | 39,4       | 208,0   | 213,0 | 36,1       | 206,0 | 219,0   | 506,0 | 58     |  |
| 59                                                     | 44,4  | 188,0  | 180,0 | 40,1       | 193,6 | 195,5  | 37,9       | 202,6   | 207,0 | 34,6       | 201,8 | 213,2   | 506,0 | 59     |  |
| 62                                                     | -     | -      | -     | 35,9       | 174,6 | 176,0  | 33,5       | 186,6   | 189,0 | 30,1       | 189,3 | 196,0   | 506,0 | 62     |  |
| 65                                                     | -     | -      | -     | 31,9       | 163,0 | 157,0  | 29,4       | 170,5   | 171,7 | 25,9       | 176,3 | 179,5   | 506,0 | 65     |  |
| 66                                                     | -     | -      | -     | -          | -     | -      | 28,2       | 165,0   | 166,0 | 24,7       | 171,6 | 174,0   | 506,0 | 66     |  |
| 70                                                     | -     | -      | -     | -          | -     | -      | 23,6       | 147,0   | 144,0 | 19,9       | 153,0 | 154,0   | 506,0 | 70     |  |
| 74                                                     | -     | -      | -     | -          | -     | -      | -          | -       | -     | 15,9       | 134,6 | 135,6   | 506,0 | 74     |  |
| 75                                                     | -     | -      | -     | -          | -     | -      | -          | -       | -     | 14,9       | 132,0 | 131,0   | 506,0 | 75     |  |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

## SSL/LSL, SSL/LSL S1

|  170-250 t +  0-80 t  15-30 m  9,60 m  9.8 m/s  360°  EN13000                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       |       |       |       |       |       |       |       |       |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
|   90 m  96 m  102 m  108 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |       |       |       |       |       |       |       |       |       |       |       |    |
|   0 t  0-450t  0 t  0-450t  0 t  0-450t  0 t  0-450t                                                                                                                                                                                                        |       |       |       |       |       |       |       |       |       |       |       |       |    |
|   15-24 m  24-30m  15-24 m  24-30m  15-24 m  24-30m  15-24 m  24-30m  15-24 m  24-30m |       |       |       |       |       |       |       |       |       |       |       |       |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | m  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 360,0 | 506,0 | 506,0 | 344,0 | 490,0 | 480,0 | -     | -     | -     | -     | -     | -     | 12 |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 333,0 | 506,0 | 506,0 | 319,0 | 490,0 | 480,0 | 308,0 | 450,0 | 435,0 | 438,0 | 430,0 | 430,0 | 13 |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 311,0 | 506,0 | 506,0 | 298,0 | 490,0 | 480,0 | 288,0 | 450,0 | 435,0 | 438,0 | 430,0 | 430,0 | 14 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 271,5 | 506,0 | 506,0 | 260,5 | 490,0 | 480,0 | 252,0 | 450,0 | 435,0 | 438,0 | 430,0 | 430,0 | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 239,5 | 506,0 | 506,0 | 230,5 | 489,5 | 480,0 | 223,0 | 450,0 | 435,0 | 438,0 | 430,0 | 430,0 | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 213,5 | 506,0 | 506,0 | 205,5 | 486,5 | 480,0 | 199,0 | 450,0 | 435,0 | 438,0 | 430,0 | 430,0 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 192,3 | 506,0 | 506,0 | 184,6 | 479,0 | 480,0 | 179,0 | 442,3 | 435,0 | 433,0 | 430,0 | 430,0 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 173,0 | 506,0 | 505,0 | 166,0 | 479,0 | 480,0 | 161,0 | 441,0 | 435,0 | 433,0 | 430,0 | 430,0 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 156,5 | 489,5 | 502,0 | 151,0 | 470,0 | 479,0 | 147,0 | 433,0 | 435,0 | 429,0 | 430,0 | 430,0 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 140,0 | 473,0 | 500,0 | 136,0 | 466,0 | 478,0 | 133,0 | 432,0 | 435,0 | 429,0 | 430,0 | 430,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 128,5 | 441,0 | 483,0 | 124,5 | 435,5 | 476,0 | 122,0 | 417,5 | 435,0 | 414,0 | 430,0 | 430,0 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 106,5 | 384,0 | 443,0 | 102,5 | 380,0 | 436,0 | 100,2 | 378,0 | 428,0 | 379,5 | 413,0 | 413,0 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 87,5  | 338,5 | 392,0 | 83,5  | 335,0 | 387,0 | 81,2  | 332,5 | 381,0 | 335,0 | 383,0 | 383,0 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 72,5  | 302,3 | 347,0 | 68,5  | 299,0 | 343,0 | 66,5  | 296,3 | 338,0 | 299,0 | 341,0 | 341,0 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 59,5  | 271,0 | 309,0 | 55,5  | 267,0 | 306,0 | 53,5  | 265,0 | 302,0 | 267,0 | 305,0 | 305,0 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 49,9  | 246,3 | 276,0 | 45,9  | 243,0 | 274,0 | 43,7  | 240,3 | 271,0 | 243,0 | 275,0 | 275,0 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 41,3  | 224,0 | 248,0 | 37,4  | 221,0 | 246,0 | 34,9  | 218,3 | 245,0 | 221,3 | 248,0 | 248,0 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 33,7  | 204,0 | 223,0 | 29,8  | 201,0 | 222,0 | 27,3  | 199,0 | 222,0 | 202,0 | 225,0 | 225,0 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 27,6  | 188,0 | 200,0 | 23,7  | 185,0 | 201,0 | 21,2  | 183,0 | 201,0 | 185,3 | 204,0 | 204,0 | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 22,1  | 173,3 | 180,0 | 18,2  | 170,3 | 181,0 | 15,7  | 168,3 | 182,0 | 170,3 | 186,0 | 186,0 | 66 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 17,2  | 160,0 | 161,0 | 13,3  | 157,0 | 164,0 | 10,8  | 155,0 | 166,0 | 157,0 | 169,0 | 169,0 | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 13,2  | 142,6 | 143,6 | 9,2   | 145,0 | 148,0 | 6,6   | 143,8 | 150,0 | 146,3 | 153,6 | 153,6 | 74 |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 12,2  | 138,3 | 139,3 | 8,2   | 142,0 | 144,0 | 5,6   | 141,0 | 146,0 | 143,6 | 149,8 | 149,8 | 75 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9,4   | 126,0 | 127,0 | 5,4   | 131,0 | 132,0 | -     | 132,3 | 136,0 | 135,6 | 139,0 | 139,0 | 78 |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7,7   | 119,0 | 119,0 | -     | 123,5 | 124,5 | -     | 126,6 | 129,0 | 130,0 | 132,0 | 132,0 | 80 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -     | -     | -     | 116,0 | 117,0 | -     | 121,0 | 122,0 | 124,0 | 125,0 | 125,0 | 82 |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -     | -     | -     | 106,0 | 107,0 | -     | 111,5 | 112,5 | 114,5 | 115,5 | 115,5 | 85 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -     | -     | -     | -     | -     | -     | 108,3 | 109,3 | 111,3 | 112,3 | 112,3 | 86 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -     | -     | -     | -     | -     | -     | 95,6  | 96,6  | 98,6  | 99,6  | 99,6  | 90 |
| 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -     | -     | -     | -     | -     | -     | 94,0  | 93,5  | 96,5  | 96,5  | 96,5  | 91 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|



# Operation

# SSL/LSL, SSL/LSL S1

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  170-250 t +  0-80 t  15-30 m  9,60 m  9.8 m/s  360°  EN13000 |       |       |       |       |            |       |       |       |       |         |       |       |       |       |            |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|------------|-------|-------|-------|-------|---------|-------|-------|-------|-------|------------|-------|
| 108 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |       | 114 m      |       |       |       |       | 120 m   |       |       |       |       |            |       |
| SSL/LSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |       |       | SSL/LSL S1 |       |       |       |       | SSL/LSL |       |       |       |       | SSL/LSL S1 |       |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |       |       |       | 0-450 t    |       |       |       |       | 0 t     |       |       |       |       | 0-450 t    |       |
| 15-24 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |       |       | 24-30 m    |       |       |       |       | 15-24 m |       |       |       |       | 24-30 m    |       |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | t     | t     | t     | t     | t          | t     | t     | t     | t     | t       | t     | t     | t     | t     | t          | t     |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 294,0 | 405,0 | 391,0 | 396,0 | 390,0      | -     | -     | -     | -     | -       | -     | -     | -     | -     | -          | -     |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 275,0 | 405,0 | 391,0 | 396,0 | 390,0      | 265,0 | 364,0 | 351,0 | 358,0 | 353,0   | 256,0 | 330,0 | 319,0 | 325,0 | 319,0      | 319,0 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 241,0 | 405,0 | 391,0 | 396,0 | 390,0      | 233,5 | 364,0 | 351,0 | 358,0 | 353,0   | 225,0 | 330,0 | 319,0 | 325,0 | 319,0      | 319,0 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 213,0 | 405,0 | 391,0 | 396,0 | 390,0      | 207,0 | 364,0 | 351,0 | 358,0 | 353,0   | 199,5 | 330,0 | 319,0 | 325,0 | 319,0      | 319,0 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 189,5 | 405,0 | 391,0 | 395,5 | 390,0      | 184,5 | 364,0 | 351,0 | 358,0 | 353,0   | 178,0 | 330,0 | 319,0 | 325,0 | 319,0      | 319,0 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 170,3 | 405,0 | 391,0 | 394,3 | 390,0      | 165,6 | 364,0 | 351,0 | 357,0 | 353,0   | 160,0 | 330,0 | 319,0 | 323,6 | 319,0      | 319,0 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 153,0 | 405,0 | 391,0 | 393,0 | 390,0      | 149,0 | 364,0 | 351,0 | 355,0 | 353,0   | 144,0 | 330,0 | 319,0 | 321,0 | 319,0      | 319,0 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 139,5 | 394,0 | 391,0 | 389,5 | 390,0      | 136,0 | 359,0 | 351,0 | 353,5 | 353,0   | 131,5 | 329,0 | 319,0 | 317,5 | 319,0      | 319,0 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 126,0 | 394,0 | 391,0 | 388,0 | 390,0      | 123,0 | 359,0 | 351,0 | 353,0 | 353,0   | 119,0 | 328,0 | 319,0 | 316,0 | 319,0      | 319,0 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 114,0 | 389,0 | 391,0 | 378,5 | 389,0      | 112,0 | 355,0 | 351,0 | 350,0 | 352,0   | 109,0 | 325,0 | 319,0 | 315,5 | 319,0      | 319,0 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 93,5  | 368,5 | 391,0 | 362,5 | 384,0      | 92,5  | 347,5 | 351,0 | 337,0 | 347,0   | 88,5  | 317,5 | 319,0 | 309,5 | 313,0      | 313,0 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 76,5  | 328,0 | 368,0 | 331,5 | 360,0      | 75,5  | 326,0 | 345,0 | 319,5 | 334,0   | 71,5  | 311,0 | 319,0 | 294,5 | 302,0      | 302,0 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 61,6  | 292,3 | 330,0 | 295,3 | 334,0      | 60,5  | 291,0 | 323,0 | 293,3 | 317,0   | 58,6  | 289,0 | 304,0 | 277,3 | 287,0      | 287,0 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 48,8  | 261,0 | 295,0 | 264,0 | 299,0      | 47,7  | 259,0 | 291,0 | 262,0 | 296,0   | 45,8  | 257,0 | 286,0 | 258,0 | 271,0      | 271,0 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 39,0  | 236,3 | 266,0 | 239,3 | 270,0      | 37,9  | 235,0 | 262,0 | 237,3 | 267,0   | 35,9  | 233,0 | 258,0 | 233,3 | 254,0      | 254,0 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30,2  | 214,3 | 240,0 | 217,3 | 244,0      | 29,1  | 213,3 | 238,0 | 215,3 | 242,0   | 27,1  | 211,3 | 234,0 | 211,3 | 236,0      | 236,0 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22,6  | 195,0 | 217,0 | 198,0 | 222,0      | 21,5  | 194,0 | 216,0 | 196,0 | 220,0   | 19,5  | 192,0 | 213,0 | 192,0 | 215,0      | 215,0 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 16,4  | 179,0 | 197,0 | 182,6 | 202,0      | 15,3  | 178,0 | 197,0 | 180,0 | 200,0   | 13,3  | 176,0 | 194,0 | 176,6 | 196,0      | 196,0 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10,9  | 164,3 | 180,0 | 168,0 | 184,0      | 9,7   | 163,2 | 179,0 | 165,6 | 183,0   | 7,7   | 161,0 | 177,0 | 162,2 | 179,0      | 179,0 |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8,4   | 157,6 | 171,5 | 161,0 | 176,0      | 7,1   | 156,4 | 171,0 | 159,3 | 175,0   | 5,1   | 154,0 | 169,3 | 155,4 | 171,0      | 171,0 |
| 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,2   | 154,3 | 167,2 | 157,5 | 172,0      | 5,9   | 153,0 | 167,0 | 156,1 | 171,0   | -     | 151,0 | 165,6 | 152,0 | 167,5      | 167,5 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6,0   | 151,0 | 163,0 | 154,0 | 168,0      | -     | 150,0 | 164,0 | 153,0 | 167,0   | -     | 148,0 | 162,0 | 149,0 | 164,0      | 164,0 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 140,3 | 149,0 | 143,0 | 153,0      | -     | 139,3 | 150,0 | 141,5 | 153,0   | -     | 137,3 | 148,6 | 138,3 | 150,6      | 150,6 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 130,0 | 135,3 | 133,3 | 139,3      | -     | 129,3 | 136,6 | 131,3 | 139,6   | -     | 127,3 | 136,0 | 128,0 | 138,0      | 138,0 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 120,0 | 122,0 | 124,0 | 126,0      | -     | 120,0 | 124,0 | 122,0 | 127,0   | -     | 118,0 | 124,0 | 118,0 | 126,0      | 126,0 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 108,6 | 110,0 | 112,6 | 114,0      | -     | 111,3 | 112,6 | 114,0 | 115,6   | -     | 109,3 | 113,3 | 110,0 | 115,3      | 115,3 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 97,5  | 98,5  | 101,5 | 102,5      | -     | 101,6 | 102,0 | 104,6 | 105,0   | -     | 101,0 | 103,1 | 102,0 | 105,0      | 105,0 |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 86,5  | 87,5  | 90,5  | 91,5       | -     | 91,0  | 92,0  | 94,0  | 95,0    | -     | 93,0  | 93,5  | 94,0  | 95,0       | 95,0  |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 83,0  | 81,5  | 86,0  | 86,0       | -     | 86,0  | 86,8  | 88,8  | 89,8    | -     | 88,2  | 89,0  | 89,5  | 90,3       | 90,3  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -          | -     | 81,0  | 81,6  | 83,6  | 84,6    | -     | 83,6  | 84,5  | 84,7  | 85,6       | 85,6  |
| 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -          | -     | 75,0  | 74,5  | 77,5  | 77,0    | -     | 76,7  | 77,7  | 77,7  | 78,2       | 78,2  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -          | -     | -     | -     | -     | -       | -     | 74,5  | 75,5  | 75,5  | 75,5       | 75,5  |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -          | -     | -     | -     | -     | -       | -     | 67,5  | 66,5  | 68,0  | 65,0       | 65,0  |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

# SSL/LSL, SSL/LSL S1

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  170-250 t +  0-80 t  15-30 m  9,60 m  9.8 m/s  360° EN13000 |       |       |       |       |            |       |       |       |       |         |       |       |       |       |            |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|------------|-------|-------|-------|-------|---------|-------|-------|-------|-------|------------|-------|
| 126 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |       |       |       | 132 m      |       |       |       |       | 138 m   |       |       |       |       |            |       |
| SSL/LSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       | SSL/LSL S1 |       |       |       |       | SSL/LSL |       |       |       |       | SSL/LSL S1 |       |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |       |       | 0-450 t    |       |       |       |       | 0 t     |       |       |       |       | 0-450 t    |       |
| 15-24 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       | 24-30 m    |       |       |       |       | 15-24 m |       |       |       |       | 24-30 m    |       |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | t     | t     | t     | t     | t          | t     | t     | t     | t     | t       | t     | t     | t     | t     | t          | t     |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 231,0 | 296,0 | 287,0 | 288,0 | 286,0      | 225,0 | 266,0 | 259,0 | 262,0 | 260,0   | -     | -     | -     | -     | -          | -     |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 218,0 | 296,0 | 287,0 | 288,0 | 286,0      | 212,0 | 266,0 | 259,0 | 262,0 | 260,0   | 205,0 | 239,0 | 231,0 | 240,0 | 237,0      | 237,0 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 193,5 | 296,0 | 287,0 | 288,0 | 286,0      | 188,5 | 266,0 | 259,0 | 262,0 | 260,0   | 182,5 | 239,0 | 230,0 | 239,0 | 237,0      | 237,0 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 173,0 | 296,0 | 287,0 | 288,0 | 286,0      | 168,5 | 266,0 | 259,0 | 262,0 | 260,0   | 163,0 | 238,5 | 229,0 | 239,0 | 237,0      | 237,0 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 156,0 | 296,0 | 287,0 | 288,0 | 286,0      | 151,3 | 266,0 | 259,0 | 262,0 | 260,0   | 146,6 | 238,0 | 229,0 | 238,6 | 237,0      | 237,0 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 140,0 | 296,0 | 287,0 | 288,0 | 286,0      | 136,0 | 266,0 | 259,0 | 262,0 | 260,0   | 132,0 | 238,0 | 228,0 | 238,0 | 237,0      | 237,0 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 127,5 | 296,0 | 287,0 | 288,0 | 286,0      | 124,0 | 266,0 | 259,0 | 262,0 | 260,0   | 120,5 | 237,5 | 226,0 | 238,0 | 237,0      | 237,0 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 115,0 | 296,0 | 287,0 | 288,0 | 285,0      | 112,0 | 266,0 | 259,0 | 262,0 | 259,0   | 109,0 | 237,0 | 225,0 | 238,0 | 236,0      | 236,0 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 105,5 | 293,5 | 287,0 | 288,0 | 285,0      | 102,7 | 265,5 | 258,0 | 262,0 | 259,0   | 99,7  | 235,5 | 223,0 | 238,0 | 236,0      | 236,0 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 86,2  | 288,0 | 287,0 | 286,5 | 285,0      | 84,7  | 262,5 | 255,0 | 262,0 | 259,0   | 82,5  | 232,0 | 219,0 | 238,0 | 235,0      | 235,0 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 70,2  | 282,0 | 284,0 | 277,0 | 284,0      | 69,5  | 254,5 | 252,0 | 255,5 | 259,0   | 66,2  | 224,0 | 215,0 | 236,0 | 234,0      | 234,0 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 57,5  | 268,6 | 277,0 | 267,3 | 277,0      | 56,6  | 245,6 | 248,0 | 248,6 | 255,0   | 52,7  | 215,0 | 209,0 | 229,3 | 233,0      | 233,0 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 44,5  | 256,0 | 267,0 | 258,0 | 269,0      | 43,8  | 235,0 | 244,0 | 244,0 | 249,0   | 42,3  | 206,0 | 204,0 | 224,0 | 229,0      | 229,0 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 34,6  | 231,3 | 254,0 | 234,0 | 260,0      | 33,9  | 223,6 | 239,0 | 226,6 | 244,0   | 32,4  | 198,6 | 199,0 | 218,0 | 226,0      | 226,0 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 25,8  | 209,3 | 230,0 | 212,3 | 236,0      | 25,1  | 208,3 | 227,0 | 208,3 | 230,0   | 23,6  | 193,3 | 193,0 | 205,3 | 222,0      | 222,0 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 18,2  | 190,0 | 210,0 | 193,0 | 215,0      | 17,4  | 189,0 | 207,0 | 189,0 | 209,0   | 15,9  | 188,0 | 187,0 | 186,0 | 204,0      | 204,0 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12,0  | 174,0 | 192,0 | 177,0 | 196,0      | 11,2  | 173,6 | 189,0 | 173,6 | 191,0   | 9,7   | 172,0 | 181,0 | 170,6 | 186,0      | 186,0 |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7,5   | 163,0 | 179,2 | 165,8 | 184,0      | 6,8   | 162,5 | 177,7 | 162,5 | 179,0   | 5,3   | 160,0 | 174,0 | 159,6 | 174,5      | 174,5 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6,2   | 160,0 | 175,0 | 162,6 | 180,0      | 5,5   | 159,0 | 174,0 | 159,0 | 175,0   | -     | 156,8 | 171,0 | 156,3 | 171,0      | 171,0 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 147,0 | 161,0 | 149,0 | 165,0      | -     | 146,0 | 159,0 | 146,0 | 161,0   | -     | 144,0 | 157,0 | 143,0 | 157,0      | 157,0 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 135,6 | 147,6 | 138,3 | 151,6      | -     | 135,3 | 147,0 | 134,6 | 148,3   | -     | 133,3 | 145,0 | 131,6 | 144,3      | 144,3 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 125,3 | 135,3 | 128,3 | 139,3      | -     | 125,0 | 135,3 | 124,3 | 136,3   | -     | 123,3 | 133,3 | 121,3 | 132,6      | 132,6 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 116,0 | 124,0 | 119,0 | 128,0      | -     | 115,0 | 124,0 | 115,0 | 125,0   | -     | 114,0 | 122,0 | 112,0 | 122,0      | 122,0 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 108,0 | 114,0 | 110,3 | 117,3      | -     | 107,0 | 114,0 | 107,0 | 115,0   | -     | 106,0 | 112,6 | 104,0 | 112,0      | 112,0 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 100,6 | 104,3 | 102,6 | 107,5      | -     | 99,5  | 104,6 | 99,5  | 105,5   | -     | 98,0  | 103,8 | 96,5  | 103,0      | 103,0 |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 93,5  | 95,0  | 96,0  | 98,5       | -     | 93,0  | 96,0  | 92,5  | 96,5    | -     | 91,0  | 95,5  | 89,5  | 94,5       | 94,5  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 85,5  | 86,2  | 88,7  | 89,7       | -     | 86,3  | 87,7  | 86,1  | 88,2    | -     | 85,0  | 87,8  | 83,1  | 86,5       | 86,5  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | 77,3  | 77,8  | 80,3  | 81,0       | -     | 79,1  | 79,6  | 79,1  | 80,0    | -     | 78,8  | 80,3  | 76,8  | 78,6       | 78,6  |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | 69,0  | 69,5  | 72,0  | 72,5       | -     | 71,5  | 72,0  | 71,5  | 72,0    | -     | 72,5  | 73,0  | 70,5  | 71,0       | 71,0  |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | 61,6  | 61,5  | 63,6  | 64,5       | -     | 64,1  | 64,6  | 63,8  | 64,6    | -     | 65,5  | 66,0  | 63,5  | 64,0       | 64,0  |
| 111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | 60,5  | 59,5  | 62,5  | 62,5       | -     | 62,3  | 62,8  | 61,9  | 62,8    | -     | 63,7  | 64,2  | 61,7  | 62,2       | 62,2  |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | -     | -     | -          | -     | 56,9  | 57,4  | 56,4  | 57,2    | -     | 58,6  | 59,1  | 56,5  | 57,3       | 57,3  |
| 117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | -     | -     | -          | -     | 53,5  | 52,0  | 53,0  | 51,5    | -     | 53,5  | 54,1  | 51,6  | 52,2       | 52,2  |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | -     | -     | -          | -     | -     | -     | -     | -       | -     | 52,0  | 52,5  | 50,0  | 50,5       | 50,5  |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | -     | -     | -          | -     | -     | -     | -     | -       | -     | 47,6  | 46,3  | 45,4  | 44,0       | 44,0  |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

# SSL/LSL, SSL/LSL S1

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  170-250 t +  0-80 t  15-30 m  9,60 m  9.8 m/s  360° EN13000                                                                                                                                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
|  144 m  150 m  156 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
|  0 t  0-450t  0 t  0-450t  0 t  0-450t                                                                                                                                                                                                    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
|  15-24 m  24-30m  15-24 m  24-30m  15-24 m  24-30m  15-24 m  24-30m |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | m   |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 187,0 | 209,0 | 203,0 | 219,0 | 215,0 | 171,0 | 184,0 | 179,0 | 199,0 | 195,0 | -     | -     | -     | -     | 17  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 177,0 | 208,5 | 202,0 | 219,0 | 215,0 | 163,0 | 183,5 | 178,0 | 199,0 | 195,0 | 155,0 | 180,0 | 177,0 | 177,0 | 18  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 158,5 | 207,5 | 201,0 | 219,0 | 215,0 | 154,0 | 182,0 | 177,0 | 199,0 | 195,0 | 139,0 | 180,0 | 177,0 | 177,0 | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 143,0 | 206,0 | 199,0 | 219,0 | 215,0 | 139,0 | 180,0 | 175,0 | 199,0 | 195,0 | 124,0 | 180,0 | 177,0 | 177,0 | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 129,0 | 204,0 | 198,0 | 219,0 | 215,0 | 125,0 | 178,0 | 173,0 | 199,0 | 195,0 | 110,0 | 180,0 | 177,0 | 177,0 | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 117,5 | 202,5 | 195,0 | 219,0 | 215,0 | 114,0 | 176,0 | 171,0 | 199,0 | 195,0 | 99,5  | 180,0 | 176,0 | 176,0 | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 106,0 | 201,0 | 193,0 | 219,0 | 214,0 | 103,0 | 174,0 | 168,0 | 199,0 | 194,0 | 89,0  | 180,0 | 176,0 | 176,0 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 97,2  | 199,0 | 191,0 | 218,5 | 214,0 | 94,2  | 172,0 | 165,0 | 198,5 | 194,0 | 80,5  | 179,0 | 176,0 | 176,0 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 81,0  | 194,5 | 185,0 | 217,5 | 214,0 | 78,2  | 167,0 | 160,0 | 197,0 | 194,0 | 65,0  | 178,0 | 175,0 | 175,0 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 65,2  | 189,0 | 180,0 | 216,5 | 213,0 | 63,2  | 161,0 | 154,0 | 196,5 | 193,0 | 52,1  | 177,5 | 174,0 | 174,0 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 51,8  | 183,3 | 173,0 | 211,3 | 211,0 | 50,3  | 155,0 | 148,0 | 193,3 | 192,0 | 40,7  | 175,3 | 173,0 | 173,0 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 41,6  | 178,0 | 167,0 | 206,0 | 210,0 | 40,0  | 149,0 | 142,0 | 189,0 | 190,0 | 29,8  | 172,0 | 172,0 | 172,0 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 31,6  | 166,6 | 161,0 | 202,6 | 207,0 | 30,0  | 143,6 | 136,0 | 185,6 | 188,0 | 21,8  | 168,6 | 171,0 | 171,0 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 22,8  | 159,0 | 154,0 | 195,3 | 203,0 | 21,2  | 136,6 | 130,0 | 182,6 | 185,0 | 13,8  | 165,0 | 168,0 | 168,0 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 15,1  | 153,0 | 149,0 | 184,0 | 199,0 | 13,5  | 130,0 | 124,0 | 180,0 | 183,0 | 5,9   | 163,0 | 166,0 | 166,0 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8,9   | 148,2 | 143,0 | 168,0 | 183,0 | 7,1   | 125,6 | 119,0 | 164,5 | 177,0 | -     | 157,0 | 163,0 | 163,0 | 62  |
| 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7,4   | 147,0 | 142,0 | 164,0 | 179,2 | 5,6   | 124,3 | 118,0 | 160,7 | 173,5 | -     | 155,5 | 161,5 | 161,5 | 63  |
| 64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5,9   | 145,0 | 141,0 | 160,0 | 175,5 | -     | 123,0 | 116,6 | 157,0 | 170,0 | -     | 154,0 | 160,0 | 160,0 | 64  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 141,6 | 138,0 | 153,6 | 168,0 | -     | 118,6 | 114,0 | 150,6 | 163,0 | -     | 147,3 | 157,0 | 157,0 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 137,0 | 134,0 | 141,0 | 154,0 | -     | 114,0 | 110,0 | 138,0 | 149,0 | -     | 134,0 | 144,0 | 144,0 | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 130,3 | 129,3 | 129,6 | 142,0 | -     | 109,3 | 106,0 | 126,6 | 137,0 | -     | 123,3 | 132,6 | 132,6 | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 122,3 | 124,3 | 119,3 | 130,6 | -     | 104,6 | 102,6 | 116,3 | 126,0 | -     | 113,0 | 121,6 | 121,6 | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 113,0 | 119,0 | 110,0 | 120,0 | -     | 100,0 | 100,0 | 107,0 | 116,0 | -     | 104,0 | 111,0 | 111,0 | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 105,0 | 111,0 | 101,0 | 110,0 | -     | 96,8  | 97,3  | 99,0  | 106,6 | -     | 95,6  | 102,3 | 102,3 | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 97,2  | 103,2 | 94,3  | 101,0 | -     | 93,1  | 94,6  | 91,3  | 98,0  | -     | 87,8  | 94,0  | 94,0  | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 90,0  | 95,5  | 87,0  | 93,0  | -     | 88,5  | 92,0  | 84,0  | 90,0  | -     | 80,5  | 86,0  | 86,0  | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | 84,0  | 87,8  | 80,6  | 85,0  | -     | 82,1  | 86,0  | 77,6  | 82,3  | -     | 74,5  | 78,6  | 78,6  | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 78,3  | 80,5  | 74,8  | 77,5  | -     | 76,3  | 79,6  | 71,8  | 75,0  | -     | 68,5  | 71,6  | 71,6  | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 73,0  | 73,5  | 69,5  | 70,5  | -     | 71,0  | 73,0  | 66,5  | 68,0  | -     | 63,0  | 65,0  | 65,0  | 106 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 66,3  | 66,8  | 63,0  | 63,8  | -     | 65,6  | 66,6  | 60,8  | 61,6  | -     | 58,0  | 59,0  | 59,0  | 110 |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 60,0  | 60,5  | 56,6  | 57,2  | -     | 60,0  | 60,5  | 55,0  | 55,5  | -     | 52,7  | 53,1  | 53,1  | 114 |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 54,0  | 54,5  | 50,0  | 50,5  | -     | 54,0  | 54,5  | 49,2  | 49,7  | -     | 47,1  | 47,5  | 47,5  | 118 |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 48,0  | 48,7  | 43,9  | 44,6  | -     | 48,6  | 49,3  | 43,4  | 43,9  | -     | 41,5  | 41,9  | 41,9  | 122 |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 43,2  | 42,7  | 39,2  | 38,4  | -     | 43,2  | 43,8  | 37,6  | 38,1  | -     | 36,1  | 36,5  | 36,5  | 126 |
| 127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 42,5  | 41,2  | 38,4  | 36,9  | -     | 41,9  | 42,4  | 36,2  | 36,7  | -     | 34,8  | 35,2  | 35,2  | 127 |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | 38,4  | 38,4  | 32,9  | 32,5  | -     | 30,8  | 31,3  | 31,3  | 130 |
| 132                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | 37,0  | 35,7  | 31,7  | 29,7  | -     | 29,0  | 28,7  | 28,7  | 132 |
| 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 27,8  | 26,1  | 26,1  | 134 |
| 137                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 24,9  | 22,2  | 22,2  | 137 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

## Notes

Notizen · Notes · Nota · Notas · Notas · пометы, комментарии, примечания

# FIXED FLY JIB

STARRER HILFSAUSLEGER

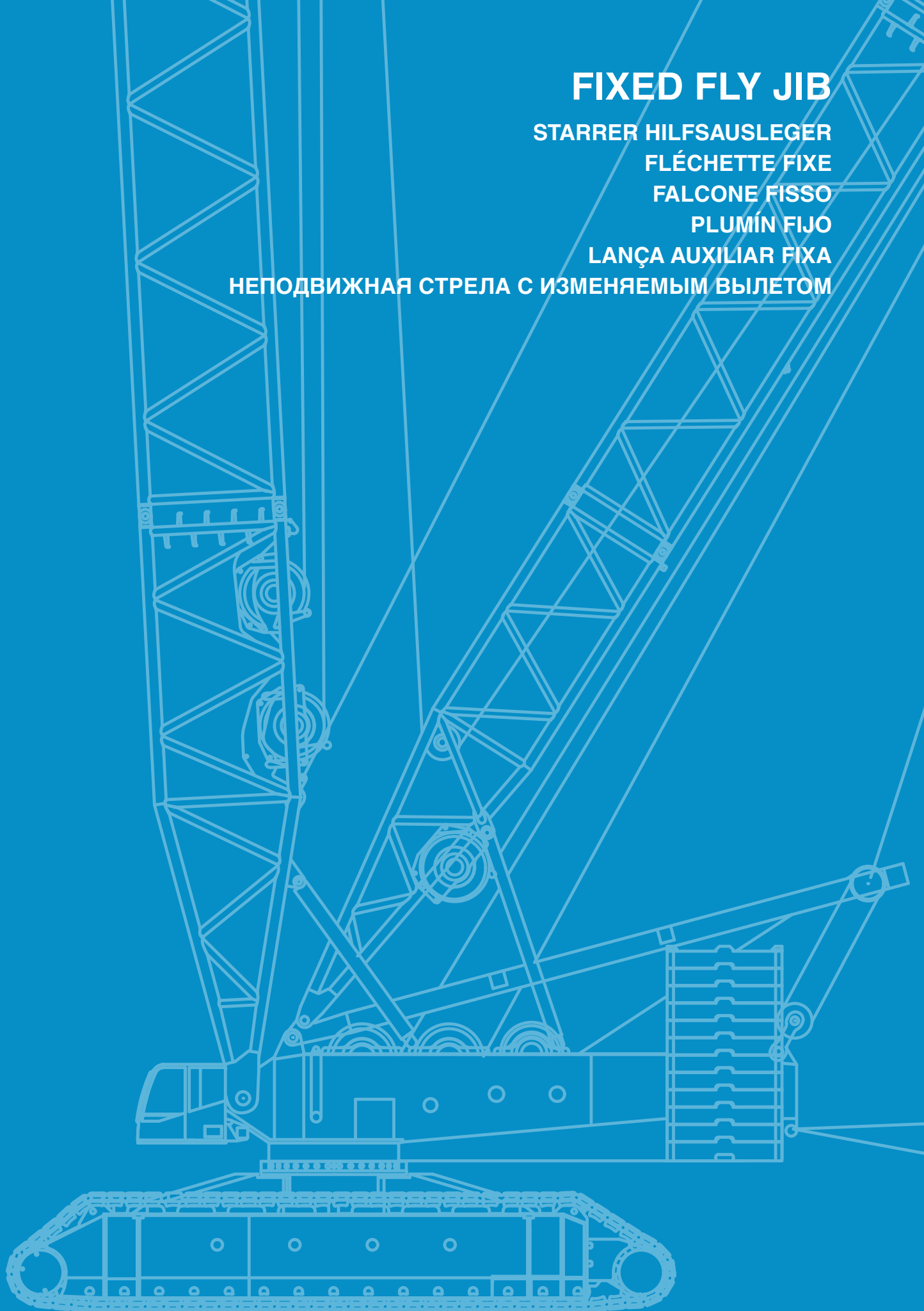
FLÉCHETTE FIXE

FALCONE FISSO

PLUMÍN FIJO

LANÇA AUXILIAR FIXA

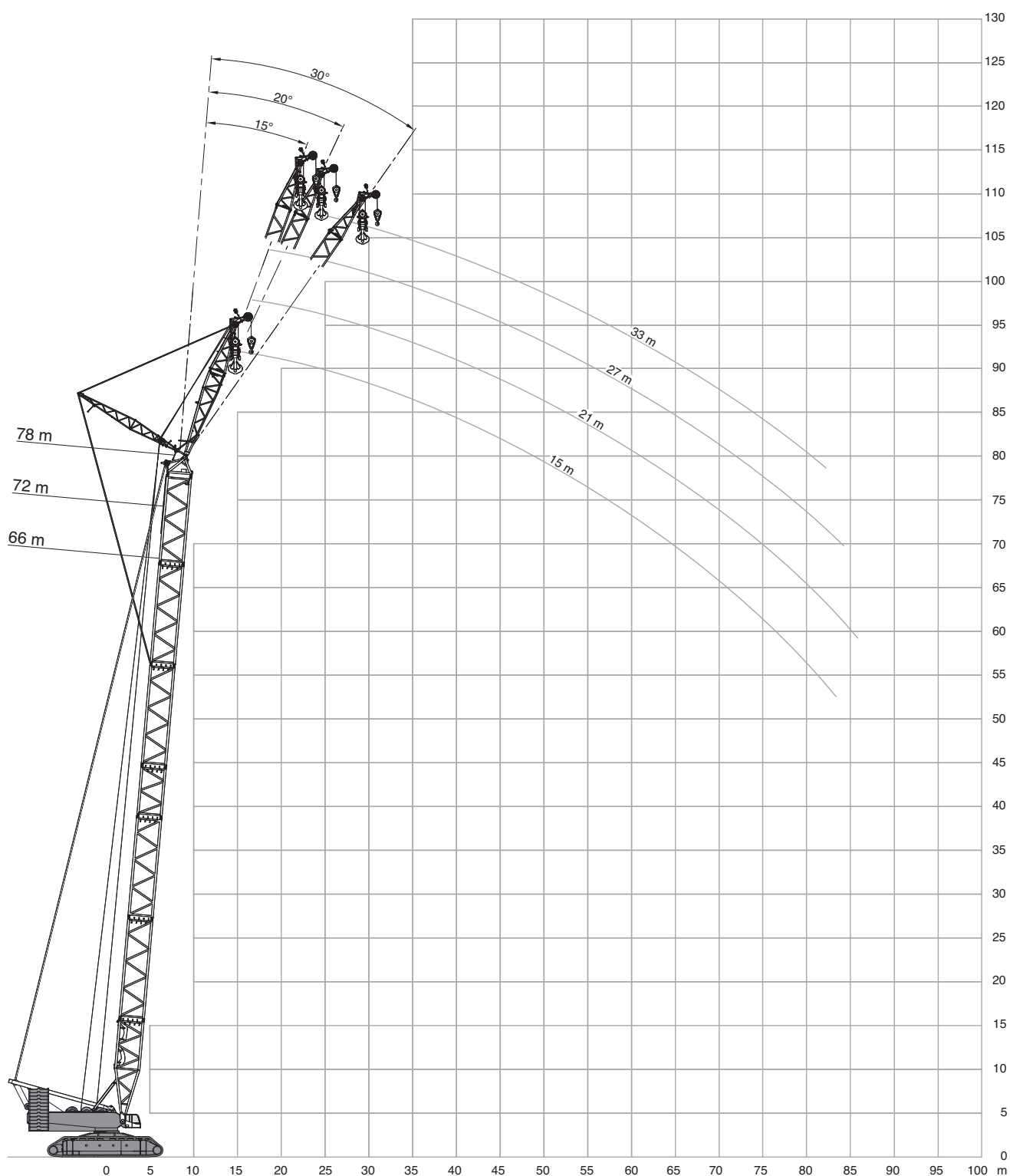
НЕПОДВИЖНАЯ СТРЕЛА С ИЗМЕНЯЕМЫМ ВЫЛЕТОМ



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SH+LF



# Operation

SH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>   15-33 m            9,60 m            9.8 m/s           360°           EN13000         </div> |       |       |       |       |       |       |       |       |      |       |       |      |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|----|
| 66 m                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |       |       |       |       |       |       |       |      |       |       |      |    |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | 21 m  |       |       | 27 m  |       |       | 33 m  |      |       |       |      |    |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20°   | 30°   | 15°   | 20°   | 30°   | 15°   | 20°   | 30°   | 15°  | 20°   | 30°   |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                         | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t    | m  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 14 |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | 247,0 | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | 247,0 | -     | 229,0 | -     | -     | -     | -     | -    | -     | -     | -    | 16 |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                        | 235,0 | 238,0 | 152,0 | 229,0 | -     | -     | -     | -     | -    | -     | -     | -    | 17 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                        | 221,0 | 224,0 | 152,0 | 219,0 | 181,0 | -     | 178,0 | -     | -    | -     | -     | -    | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                        | 196,0 | 199,0 | 150,0 | 195,0 | 177,0 | -     | 178,0 | 137,0 | -    | 142,0 | -     | -    | 20 |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                        | 185,5 | 188,5 | 148,5 | 185,0 | 173,0 | 112,0 | 173,5 | 137,0 | -    | 142,0 | -     | -    | 21 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                        | 175,0 | 178,0 | 147,0 | 175,0 | 169,0 | 112,0 | 169,0 | 137,0 | -    | 142,0 | -     | -    | 22 |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                        | 166,5 | 169,0 | 145,5 | 166,5 | 164,5 | 110,0 | 163,0 | 134,0 | -    | 138,5 | 107,0 | -    | 23 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                        | 158,0 | 160,0 | 144,0 | 158,0 | 160,0 | 108,0 | 157,0 | 131,0 | 84,0 | 135,0 | 107,0 | -    | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                        | 143,0 | 145,0 | 141,0 | 143,0 | 146,0 | 105,0 | 143,0 | 126,0 | 84,0 | 129,0 | 105,0 | -    | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                        | 130,0 | 132,0 | 135,0 | 130,0 | 133,0 | 102,0 | 131,0 | 121,0 | 81,5 | 123,0 | 101,0 | 65,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                        | 119,0 | 120,0 | 124,0 | 119,0 | 121,0 | 99,0  | 120,0 | 116,0 | 79,0 | 117,0 | 97,0  | 65,0 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                        | 100,0 | 101,0 | 104,0 | 101,0 | 103,0 | 94,0  | 101,0 | 104,0 | 74,5 | 101,0 | 90,0  | 61,0 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                        | 83,0  | 84,0  | 86,0  | 85,0  | 86,5  | 89,0  | 87,0  | 89,0  | 71,0 | 87,0  | 83,5  | 57,5 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                        | 70,0  | 70,7  | 72,2  | 71,5  | 72,7  | 75,2  | 73,2  | 75,0  | 67,2 | 74,7  | 75,2  | 54,5 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                        | 58,7  | 59,2  | 60,7  | 60,2  | 61,5  | 63,7  | 62,0  | 63,5  | 63,2 | 63,2  | 65,0  | 51,5 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                        | 49,2  | 49,8  | 51,2  | 50,8  | 52,0  | 54,0  | 52,6  | 54,1  | 56,5 | 53,7  | 55,5  | 48,9 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                        | 41,2  | 41,9  | 43,1  | 42,9  | 43,8  | 45,6  | 44,5  | 45,9  | 48,1 | 45,6  | 47,1  | 46,8 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                        | 34,5  | 35,0  | 36,0  | 35,9  | 36,8  | 38,4  | 37,6  | 38,8  | 40,9 | 38,5  | 40,0  | 42,5 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                        | 28,8  | 29,3  | 30,0  | 30,2  | 30,9  | 32,2  | 31,6  | 32,6  | 34,5 | 32,5  | 33,7  | 36,2 | 62 |
| 63                                                                                                                                                                                                                                                                                                                                                                                                                                        | 27,5  | 27,9  | 28,6  | 28,8  | 29,5  | 30,7  | 30,2  | 31,2  | 33,0 | 31,1  | 32,3  | 34,7 | 63 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                        | 23,8  | 24,2  | -     | 25,0  | 25,7  | 26,8  | 26,5  | 27,4  | 29,0 | 27,3  | 28,5  | 30,5 | 66 |
| 69                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20,6  | 20,8  | -     | 21,7  | 22,2  | 23,2  | 23,1  | 23,9  | 25,2 | 23,8  | 24,8  | 26,7 | 69 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                        | 19,6  | 19,8  | -     | 20,7  | 21,2  | -     | 22,1  | 22,8  | 24,1 | 22,7  | 23,7  | 25,6 | 70 |
| 71                                                                                                                                                                                                                                                                                                                                                                                                                                        | 18,6  | 18,8  | -     | 19,7  | 20,1  | -     | 21,0  | 21,7  | 23,0 | 21,7  | 22,6  | 24,4 | 71 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15,8  | -     | -     | 16,9  | 17,3  | -     | 18,1  | 18,8  | 19,9 | 18,8  | 19,6  | 21,2 | 74 |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 16,0  | 16,4  | -     | 17,2  | 17,8  | 18,9 | 17,8  | 18,6  | 20,2 | 75 |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 14,3  | 14,6  | -     | 15,4  | 16,0  | -    | 16,0  | 16,8  | 18,3 | 77 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 13,5  | -     | -     | 14,6  | 15,2  | -    | 15,2  | 16,0  | 17,4 | 78 |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 11,9  | -     | -     | 13,1  | 13,6  | -    | 13,6  | 14,3  | 15,6 | 80 |
| 81                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 12,3  | 12,8  | -    | 12,8  | 13,5  | 14,7 | 81 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 11,6  | 12,0  | -    | 12,1  | 12,7  | -    | 82 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 8,9   | -     | -    | 9,4   | 9,9   | -    | 86 |
| 88                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 8,1   | 8,5   | -    | 88 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 6,9   | -     | -    | 90 |
| 91                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 6,3   | -     | -    | 91 |



130 t

170 t

210 t

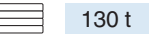
250 t

# Operation

SH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>   15-33 m  9,60 m  9.8 m/s 360° EN13000 </div>                                                                                                                                                                                                                                                                                                                                     |       |       |       |       |       |       |       |       |      |       |       |      |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|----|
| 72 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |       |       |       |       |       |       |       |      |       |       |      |    |
| <div>   15 m  21 m  27 m  33 m  </div>                                                                                                                                                                             |       |       |       |       |       |       |       |       |      |       |       |      |    |
| <div>   15°  20°  30°  15°  20°  30°  </div> |       |       |       |       |       |       |       |       |      |       |       |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t    | m  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 250,0 | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 14 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 241,0 | 244,0 | -     | 233,0 | -     | -     | -     | -     | -    | -     | -     | -    | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 212,0 | 215,0 | 152,0 | 210,0 | 178,0 | -     | 175,0 | -     | -    | -     | -     | -    | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 188,0 | 191,0 | 151,0 | 187,0 | 178,0 | -     | 175,0 | -     | -    | 140,0 | -     | -    | 20 |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 178,0 | 181,0 | 149,5 | 177,5 | 174,5 | 111,0 | 171,0 | 135,0 | -    | 140,0 | -     | -    | 21 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 168,0 | 171,0 | 148,0 | 168,0 | 171,0 | 111,0 | 167,0 | 135,0 | -    | 140,0 | -     | -    | 22 |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 159,5 | 162,5 | 146,5 | 159,5 | 162,5 | 110,0 | 159,0 | 133,5 | -    | 138,5 | 106,0 | -    | 23 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 151,0 | 154,0 | 145,0 | 151,0 | 154,0 | 109,0 | 151,0 | 132,0 | -    | 137,0 | 106,0 | -    | 24 |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 144,0 | 146,5 | 143,5 | 144,0 | 147,0 | 107,5 | 144,0 | 129,5 | 83,0 | 133,5 | 106,0 | -    | 25 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 137,0 | 139,0 | 142,0 | 137,0 | 140,0 | 106,0 | 137,0 | 127,0 | 83,0 | 130,0 | 106,0 | -    | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 124,0 | 126,0 | 130,0 | 125,0 | 127,0 | 103,0 | 125,0 | 123,0 | 82,0 | 125,0 | 102,0 | 64,5 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 113,0 | 115,0 | 118,0 | 114,0 | 116,0 | 100,0 | 115,0 | 118,0 | 79,5 | 114,0 | 98,5  | 64,5 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 95,0  | 96,5  | 99,5  | 96,0  | 98,0  | 95,5  | 97,0  | 99,5  | 75,5 | 97,0  | 91,5  | 61,5 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 80,5  | 81,5  | 84,0  | 81,5  | 83,5  | 86,5  | 82,5  | 85,0  | 72,0 | 83,0  | 85,5  | 58,5 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 67,2  | 68,2  | 70,2  | 69,0  | 70,7  | 73,2  | 70,7  | 72,5  | 68,5 | 71,2  | 73,5  | 55,0 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 55,7  | 56,5  | 58,5  | 57,5  | 59,0  | 61,5  | 59,5  | 61,2  | 63,0 | 60,7  | 62,7  | 52,2 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 46,1  | 46,8  | 48,5  | 47,7  | 49,1  | 51,4  | 49,7  | 51,5  | 54,4 | 51,1  | 53,0  | 49,9 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 38,0  | 38,7  | 40,1  | 39,7  | 40,9  | 42,9  | 41,7  | 43,1  | 45,8 | 42,8  | 44,6  | 46,3 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 31,3  | 32,0  | 33,1  | 32,9  | 33,9  | 35,5  | 34,6  | 35,8  | 38,3 | 35,6  | 37,3  | 40,3 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 25,5  | 26,0  | 27,0  | 26,9  | 27,8  | 29,4  | 28,6  | 29,8  | 31,9 | 29,6  | 31,1  | 33,7 | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 20,6  | 21,0  | 21,8  | 21,9  | 22,7  | 23,9  | 23,5  | 24,4  | 26,3 | 24,3  | 25,6  | 28,0 | 66 |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 18,3  | 18,7  | 19,4  | 19,6  | 20,3  | 21,4  | 21,1  | 22,0  | 23,7 | 21,9  | 23,2  | 25,4 | 68 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 16,2  | 16,6  | -     | 17,5  | 18,1  | 19,2  | 19,0  | 19,8  | 21,4 | 19,7  | 20,9  | 23,0 | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12,4  | 12,8  | -     | 13,6  | 14,1  | 15,0  | 14,9  | 15,8  | 17,1 | 15,7  | 16,7  | 18,6 | 74 |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10,7  | 11,0  | -     | 11,8  | 12,3  | -     | 13,1  | 13,9  | 15,1 | 13,9  | 14,8  | 16,6 | 76 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 9,1   | -     | -     | 10,2  | 10,6  | -     | 11,5  | 12,2  | 13,3 | 12,2  | 13,0  | 14,6 | 78 |
| 79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8,3   | -     | -     | 9,4   | 9,8   | -     | 10,7  | 11,3  | 12,4 | 11,3  | 12,2  | 13,7 | 79 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | 7,2   | 7,5   | -     | 8,4   | 9,0   | -    | 9,0   | 9,8   | 11,2 | 82 |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | 5,1   | -     | -     | 6,2   | 6,8   | -    | 6,8   | 7,6   | 8,8  | 85 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | 5,6   | 6,1   | -    | 6,1   | 6,9   | -    | 86 |
| 87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | 5,4   | -    | 5,5   | 6,2   | -    | 87 |
| 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 5,5   | -    | 88 |


130 t
170 t
210 t
250 t



# Operation

SH+LF

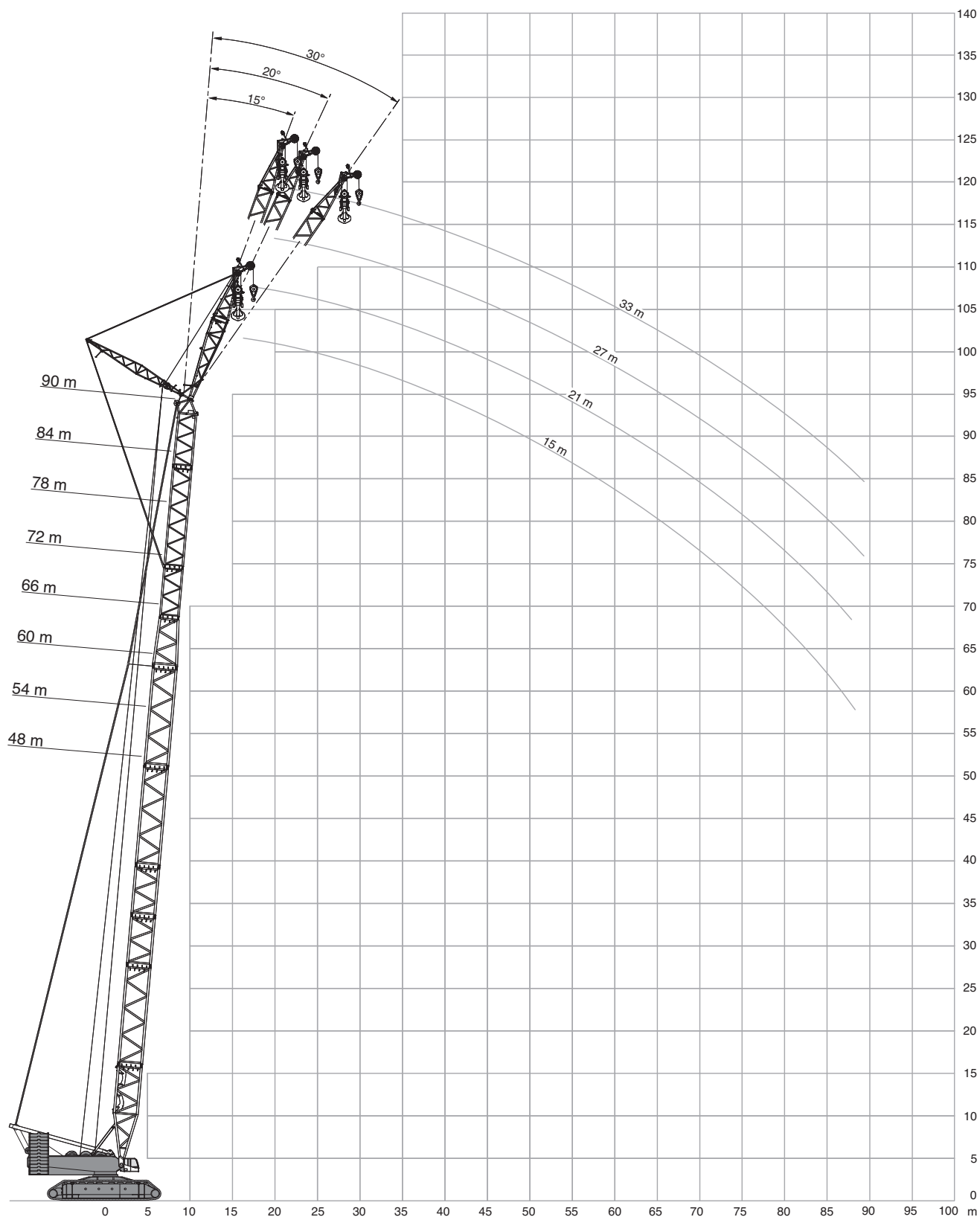
Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div>15-33 m</div><div><div></div><div></div><div></div></div><div>9,60 m</div><div><div></div><div></div><div></div></div><div>9.8 m/s</div><div>360°</div><div>EN13000</div></div>      |       |       |       |       |       |       |       |       |      |       |       |      |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|----|
| 78 m                                                                                                                                                                                                                                                                                   |       |       |       |       |       |       |       |       |      |       |       |      |    |
| <div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div>15 m</div><div>21 m</div><div>27 m</div><div>33 m</div></div>                                                                                                                        |       |       |       |       |       |       |       |       |      |       |       |      |    |
| <div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div>15°</div><div>20°</div><div>30°</div><div>15°</div><div>20°</div><div>30°</div><div>15°</div><div>20°</div><div>30°</div><div>15°</div><div>20°</div><div>30°</div><div></div></div> |       |       |       |       |       |       |       |       |      |       |       |      |    |
| m                                                                                                                                                                                                                                                                                      | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t    | m  |
| 15                                                                                                                                                                                                                                                                                     | 248,0 | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 15 |
| 16                                                                                                                                                                                                                                                                                     | 231,0 | 235,0 | -     | 233,0 | -     | -     | -     | -     | -    | -     | -     | -    | 16 |
| 18                                                                                                                                                                                                                                                                                     | 204,0 | 207,0 | 151,0 | 210,0 | -     | -     | -     | -     | -    | -     | -     | -    | 18 |
| 19                                                                                                                                                                                                                                                                                     | 192,0 | 195,0 | 151,0 | 198,0 | 176,0 | -     | 177,0 | -     | -    | -     | -     | -    | 19 |
| 20                                                                                                                                                                                                                                                                                     | 181,0 | 184,0 | 151,0 | 187,0 | 176,0 | -     | 177,0 | -     | -    | -     | -     | -    | 20 |
| 21                                                                                                                                                                                                                                                                                     | 171,5 | 174,0 | 149,5 | 177,5 | 170,5 | -     | 169,0 | 134,0 | -    | 140,0 | -     | -    | 21 |
| 22                                                                                                                                                                                                                                                                                     | 162,0 | 164,0 | 148,0 | 168,0 | 165,0 | 110,0 | 161,0 | 134,0 | -    | 140,0 | -     | -    | 22 |
| 24                                                                                                                                                                                                                                                                                     | 145,0 | 148,0 | 145,0 | 151,0 | 149,0 | 110,0 | 146,0 | 134,0 | -    | 140,0 | 107,0 | -    | 24 |
| 25                                                                                                                                                                                                                                                                                     | 138,0 | 140,5 | 141,5 | 144,0 | 142,0 | 108,5 | 139,0 | 131,5 | 82,5 | 136,0 | 107,0 | -    | 25 |
| 26                                                                                                                                                                                                                                                                                     | 131,0 | 133,0 | 138,0 | 137,0 | 135,0 | 107,0 | 132,0 | 129,0 | 82,5 | 132,0 | 107,0 | -    | 26 |
| 28                                                                                                                                                                                                                                                                                     | 119,0 | 121,0 | 125,0 | 125,0 | 122,0 | 104,0 | 120,0 | 124,0 | 82,5 | 120,0 | 103,0 | -    | 28 |
| 29                                                                                                                                                                                                                                                                                     | 113,5 | 115,5 | 119,5 | 119,5 | 117,0 | 102,5 | 115,0 | 118,5 | 81,5 | 115,0 | 101,2 | 64,5 | 29 |
| 30                                                                                                                                                                                                                                                                                     | 108,0 | 110,0 | 114,0 | 114,0 | 112,0 | 101,0 | 110,0 | 113,0 | 80,5 | 110,0 | 99,5  | 64,5 | 30 |
| 34                                                                                                                                                                                                                                                                                     | 90,5  | 92,5  | 95,5  | 96,0  | 94,0  | 96,5  | 92,5  | 95,5  | 76,5 | 93,0  | 93,0  | 62,0 | 34 |
| 38                                                                                                                                                                                                                                                                                     | 76,5  | 77,5  | 80,5  | 81,5  | 79,0  | 83,0  | 78,5  | 81,0  | 72,5 | 79,0  | 82,0  | 59,0 | 38 |
| 42                                                                                                                                                                                                                                                                                     | 64,2  | 65,5  | 67,7  | 69,0  | 67,5  | 70,7  | 67,2  | 69,2  | 69,2 | 67,7  | 70,2  | 56,0 | 42 |
| 46                                                                                                                                                                                                                                                                                     | 53,2  | 54,2  | 56,0  | 57,5  | 56,5  | 59,5  | 57,0  | 58,7  | 62,5 | 58,0  | 60,2  | 53,0 | 46 |
| 50                                                                                                                                                                                                                                                                                     | 43,5  | 44,5  | 46,1  | 47,7  | 46,6  | 49,3  | 47,5  | 49,1  | 52,6 | 48,9  | 50,9  | 50,5 | 50 |
| 54                                                                                                                                                                                                                                                                                     | 35,4  | 36,3  | 37,7  | 39,7  | 38,3  | 40,7  | 39,0  | 40,8  | 43,7 | 40,4  | 42,4  | 45,7 | 54 |
| 58                                                                                                                                                                                                                                                                                     | 28,5  | 29,3  | 30,7  | 32,9  | 31,3  | 33,3  | 32,1  | 33,5  | 36,0 | 33,3  | 34,9  | 38,3 | 58 |
| 62                                                                                                                                                                                                                                                                                     | 22,8  | 23,4  | 24,6  | 26,9  | 25,2  | 26,9  | 26,0  | 27,2  | 29,7 | 27,0  | 28,7  | 31,7 | 62 |
| 66                                                                                                                                                                                                                                                                                     | 17,8  | 18,3  | 19,3  | 21,9  | 20,0  | 21,5  | 20,8  | 22,0  | 24,0 | 21,8  | 23,2  | 25,8 | 66 |
| 70                                                                                                                                                                                                                                                                                     | 13,4  | 13,8  | 14,6  | 17,5  | 15,4  | 16,7  | 16,2  | 17,3  | 19,1 | 17,2  | 18,4  | 20,8 | 70 |
| 72                                                                                                                                                                                                                                                                                     | 11,4  | 11,8  | 12,6  | 15,4  | 13,4  | 14,5  | 14,2  | 15,1  | 16,8 | 15,0  | 16,2  | 18,5 | 72 |
| 74                                                                                                                                                                                                                                                                                     | 9,6   | 10,0  | -     | 13,6  | 11,5  | 12,5  | 12,3  | 13,2  | 14,7 | 13,1  | 14,2  | 16,4 | 74 |
| 78                                                                                                                                                                                                                                                                                     | 6,2   | 6,5   | -     | 10,2  | 7,9   | 8,8   | 8,7   | 9,5   | 10,9 | 9,5   | 10,5  | 12,4 | 78 |
| 79                                                                                                                                                                                                                                                                                     | 5,4   | 5,7   | -     | 9,4   | 7,1   | -     | 7,9   | 8,6   | 10,0 | 8,6   | 9,6   | 11,4 | 79 |
| 81                                                                                                                                                                                                                                                                                     | -     | -     | -     | 7,9   | 5,5   | -     | 6,3   | 7,0   | 8,3  | 7,0   | 8,0   | 9,6  | 81 |
| 82                                                                                                                                                                                                                                                                                     | -     | -     | -     | 7,2   | -     | -     | 5,6   | 6,2   | 7,5  | 6,2   | 7,2   | 8,8  | 82 |
| 83                                                                                                                                                                                                                                                                                     | -     | -     | -     | 6,5   | -     | -     | -     | 5,5   | 6,7  | 5,5   | 6,4   | 8,0  | 83 |
| 84                                                                                                                                                                                                                                                                                     | -     | -     | -     | 5,8   | -     | -     | -     | -     | 5,9  | -     | 5,7   | 7,2  | 84 |
| 85                                                                                                                                                                                                                                                                                     | -     | -     | -     | 5,1   | -     | -     | -     | -     | -    | -     | -     | 6,4  | 85 |
| 86                                                                                                                                                                                                                                                                                     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | 5,6  | 86 |
| <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>                                                                                                                  |       |       |       |       |       |       |       |       |      |       |       |      |    |
| <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>                                                                                                                  |       |       |       |       |       |       |       |       |      |       |       |      |    |

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SH/LH+LF



# Operation

SH/LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>   15-33 m  9,60 m  9.8 m/s 360° EN13000 </div>                                                                                                                                                                                                                                                                                                                                     |       |       |       |       |       |       |       |       |      |       |       |      |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|----|
| 48 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |       |       |       |       |       |       |       |      |       |       |      |    |
| <div>   15 m  21 m  27 m  33 m  </div>                                                                                                                                                                             |       |       |       |       |       |       |       |       |      |       |       |      |    |
| <div>   15°  20°  30°  15°  20°  30°  </div> |       |       |       |       |       |       |       |       |      |       |       |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t    | m  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 250,0 | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 12 |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 250,0 | 250,0 | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 13 |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 250,0 | 250,0 | -     | 238,0 | -     | -     | -     | -     | -    | -     | -     | -    | 14 |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 250,0 | 250,0 | 156,0 | 238,0 | -     | -     | -     | -     | -    | -     | -     | -    | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 250,0 | 245,0 | 154,5 | 230,0 | 185,0 | -     | 179,0 | -     | -    | -     | -     | -    | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 244,0 | 233,5 | 151,0 | 215,0 | 179,5 | -     | 176,0 | 140,0 | -    | 143,0 | -     | -    | 18 |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 238,0 | 227,0 | 149,0 | 208,0 | 174,0 | 114,0 | 173,0 | 140,0 | -    | 143,0 | -     | -    | 19 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 225,5 | 221,0 | 146,5 | 201,5 | 169,5 | 112,5 | 168,0 | 137,5 | -    | 141,0 | -     | -    | 20 |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 213,0 | 215,0 | 144,0 | 195,0 | 165,0 | 111,0 | 163,0 | 135,0 | -    | 139,0 | 112,0 | -    | 21 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 203,0 | 205,0 | 142,3 | 189,6 | 160,6 | 109,0 | 158,3 | 131,3 | 85,0 | 135,0 | 109,6 | -    | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 183,0 | 185,0 | 139,0 | 179,0 | 152,0 | 105,0 | 149,0 | 124,0 | 85,0 | 127,0 | 105,0 | -    | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 165,0 | 166,5 | 135,0 | 164,0 | 145,0 | 101,2 | 141,0 | 118,0 | 82,0 | 120,5 | 100,0 | 67,0 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 147,0 | 148,0 | 131,0 | 149,0 | 138,0 | 97,5  | 133,0 | 112,0 | 79,0 | 114,0 | 95,0  | 65,5 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 134,0 | 135,0 | 127,0 | 135,5 | 131,0 | 94,5  | 126,5 | 107,0 | 76,0 | 108,0 | 90,5  | 63,0 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 111,5 | 112,5 | 113,5 | 112,5 | 114,0 | 88,7  | 112,0 | 97,7  | 70,5 | 97,2  | 82,2  | 58,2 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 94,5  | 95,2  | 96,2  | 95,5  | 96,5  | 83,7  | 96,5  | 90,0  | 66,0 | 88,5  | 75,5  | 54,2 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 81,5  | 81,8  | 82,8  | 82,3  | 83,1  | 78,6  | 83,3  | 82,0  | 62,1 | 80,5  | 70,0  | 50,9 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 70,5  | 70,5  | 71,5  | 71,0  | 71,5  | 73,0  | 72,0  | 73,0  | 58,5 | 72,5  | 65,0  | 47,8 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 62,1  | 62,1  | 62,7  | 62,6  | 63,1  | 64,3  | 63,3  | 64,3  | 55,8 | 63,8  | 60,6  | 45,3 | 50 |
| 51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 60,0  | 60,0  | 60,5  | 60,5  | 61,0  | 62,1  | 61,1  | 62,1  | 55,1 | 61,6  | 59,5  | 44,7 | 51 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 54,8  | 54,7  | -     | 55,3  | 55,7  | 56,5  | 55,8  | 56,6  | 53,3 | 56,2  | 55,6  | 43,1 | 54 |
| 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 51,6  | 51,5  | -     | 52,1  | 52,5  | 53,0  | 52,7  | 53,3  | 52,1 | 53,0  | 52,8  | 42,1 | 56 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 48,5  | -     | -     | 49,0  | 49,3  | -     | 49,6  | 50,0  | 51,0 | 49,8  | 50,0  | 41,2 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | 43,8  | 44,0  | -     | 44,4  | 44,8  | 45,4 | 44,5  | 45,0  | 39,6 | 62 |
| 64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | 41,3  | -     | -     | 41,9  | 42,3  | -    | 41,9  | 42,5  | 38,9 | 64 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | 39,7  | 40,0  | -    | 39,7  | 40,2  | 38,4 | 66 |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | 37,5  | 37,7  | -    | 37,5  | 37,9  | 37,9 | 68 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | 35,3  | -     | -    | 35,3  | 35,7  | -    | 70 |
| 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -    | 32,5  | 32,8  | -    | 73 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -    | 31,6  | -     | -    | 74 |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -    | 29,8  | -     | -    | 76 |


130 t
170 t
210 t
250 t

# Operation

SH/LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  +   15-33 m  9,60 m  9.8 m/s <span>360°</span> <span>EN13000</span> |       |       |       |       |       |       |       |       |      |       |       |      |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|----|
| 54 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |       |       |       |       |       |       |       |      |       |       |      |    |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |       | 21 m  |       |       | 27 m  |       |       | 33 m |       |       |      |    |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20°   | 30°   | 15°   | 20°   | 30°   | 15°   | 20°   | 30°   | 15°  | 20°   | 30°   |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t    | m  |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 13 |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | 250,0 | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 14 |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | 250,0 | -     | 234,0 | -     | -     | -     | -     | -    | -     | -     | -    | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | 247,0 | 154,0 | 230,0 | 182,0 | -     | -     | -     | -    | -     | -     | -    | 16 |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | 244,0 | 154,0 | 226,0 | 182,0 | -     | 182,0 | -     | -    | -     | -     | -    | 17 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 239,5 | 238,0 | 152,0 | 219,0 | 179,5 | -     | 179,0 | -     | -    | -     | -     | -    | 18 |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 229,0 | 232,0 | 150,0 | 212,0 | 177,0 | 113,0 | 176,0 | 142,0 | -    | 145,0 | -     | -    | 19 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 217,0 | 219,5 | 148,0 | 206,0 | 172,5 | 113,0 | 171,0 | 140,0 | -    | 143,0 | -     | -    | 20 |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 205,0 | 207,0 | 146,0 | 200,0 | 168,0 | 113,0 | 166,0 | 138,0 | -    | 141,0 | 111,0 | -    | 21 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 195,3 | 197,3 | 144,3 | 191,3 | 164,3 | 110,6 | 161,3 | 134,3 | -    | 137,0 | 109,6 | -    | 22 |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 185,6 | 187,6 | 142,6 | 182,6 | 160,6 | 108,3 | 156,6 | 130,6 | 86,0 | 133,0 | 108,3 | -    | 23 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 176,0 | 178,0 | 141,0 | 174,0 | 157,0 | 106,0 | 152,0 | 127,0 | 86,0 | 129,0 | 107,0 | -    | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 160,5 | 162,0 | 137,5 | 160,0 | 150,0 | 102,7 | 145,0 | 121,0 | 83,0 | 123,0 | 102,0 | 66,5 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 145,0 | 146,0 | 134,0 | 146,0 | 143,0 | 99,5  | 138,0 | 115,0 | 80,0 | 117,0 | 97,0  | 66,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 132,0 | 133,0 | 128,0 | 133,0 | 132,5 | 96,5  | 130,0 | 110,0 | 77,2 | 111,5 | 92,7  | 63,5 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 109,5 | 110,0 | 112,0 | 110,5 | 112,0 | 91,0  | 112,0 | 101,0 | 72,0 | 101,2 | 84,7  | 59,0 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 92,5  | 92,7  | 94,2  | 93,5  | 94,5  | 86,0  | 94,5  | 92,5  | 67,5 | 92,0  | 78,0  | 55,2 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 79,3  | 79,8  | 80,6  | 80,1  | 81,1  | 79,3  | 81,1  | 82,1  | 63,8 | 81,6  | 72,3  | 51,9 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 68,0  | 68,5  | 69,0  | 68,5  | 69,5  | 71,0  | 69,5  | 70,5  | 60,5 | 70,0  | 67,0  | 48,9 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 59,6  | 59,8  | 60,6  | 60,1  | 60,8  | 62,0  | 61,1  | 61,8  | 57,5 | 61,3  | 61,0  | 46,4 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 52,2  | 52,3  | 52,8  | 52,8  | 53,3  | 54,2  | 53,7  | 54,2  | 53,6 | 53,8  | 54,7  | 44,2 | 54 |
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 50,6  | 50,7  | 51,0  | 51,2  | 51,7  | 52,5  | 52,1  | 52,6  | 52,5 | 52,2  | 53,1  | 43,7 | 55 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 45,7  | 46,0  | -     | 46,4  | 46,9  | 47,6  | 47,2  | 47,8  | 49,0 | 47,5  | 48,3  | 42,2 | 58 |
| 61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 41,6  | 41,7  | -     | 42,3  | 42,7  | 43,3  | 43,1  | 43,7  | 44,8 | 43,3  | 44,1  | 41,0 | 61 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 40,2  | -     | -     | 40,9  | 41,3  | -     | 41,7  | 42,3  | 43,4 | 41,9  | 42,7  | 40,6 | 62 |
| 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 38,9  | -     | -     | 39,5  | 39,9  | -     | 40,3  | 40,9  | 42,0 | 40,5  | 41,3  | 40,2 | 63 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 35,9  | 36,2  | -     | 36,7  | 37,3  | 38,0 | 36,9  | 37,6  | 37,9 | 66 |
| 67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 34,8  | 35,0  | -     | 35,6  | 36,1  | -    | 35,8  | 36,5  | 36,9 | 67 |
| 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 32,6  | -     | -     | 33,4  | 33,8  | -    | 33,5  | 34,1  | 35,0 | 69 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 32,3  | 32,7  | -    | 32,4  | 33,0  | 34,1 | 70 |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 30,4  | 30,7  | -    | 30,4  | 31,0  | 32,0 | 72 |
| 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 29,4  | 29,8  | -    | 29,4  | 30,0  | -    | 73 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 28,5  | -     | -    | 28,5  | 29,0  | -    | 74 |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 27,7  | -     | -    | 27,6  | 28,1  | -    | 75 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 25,2  | 25,6  | -    | 78 |
| 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 22,9  | -     | -    | 81 |

|                                                                                     |       |       |       |       |
|-------------------------------------------------------------------------------------|-------|-------|-------|-------|
|  | 130 t | 170 t | 210 t | 250 t |
|-------------------------------------------------------------------------------------|-------|-------|-------|-------|

# Operation

SH/LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>   15-33 m            9,60 m            9.8 m/s           360°           EN13000         </div> |       |       |       |       |       |       |       |       |      |       |       |      |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|-----|
| 60 m                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |       |       |       |       |       |       |       |      |       |       |      |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | 15 m  |       |       | 21 m  |       |       | 27 m  |      |       | 33 m  |      |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | 15°   | 20°   | 30°   | 15°   | 20°   | 30°   | 15°   | 20°  | 30°   | 15°   | 20°  | 30° |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                         | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t    | m   |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 13  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | 250,0 | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 14  |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | 250,0 | -     | 230,0 | -     | -     | -     | -     | -    | -     | -     | -    | 15  |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                        | 249,5 | 249,5 | -     | 230,0 | -     | -     | -     | -     | -    | -     | -     | -    | 16  |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                        | 249,0 | 249,0 | 153,0 | 230,0 | 184,0 | -     | 179,0 | -     | -    | -     | -     | -    | 17  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                        | 235,0 | 236,0 | 152,0 | 223,0 | 182,0 | -     | 179,0 | -     | -    | -     | -     | -    | 18  |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                        | 221,0 | 223,0 | 151,0 | 216,0 | 180,0 | -     | 179,0 | 139,0 | -    | 143,0 | -     | -    | 19  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                        | 209,0 | 211,0 | 149,5 | 205,5 | 175,5 | 113,0 | 174,0 | 139,0 | -    | 143,0 | -     | -    | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                        | 187,6 | 189,6 | 146,3 | 186,0 | 167,3 | 110,5 | 164,6 | 136,0 | -    | 139,3 | 109,0 | -    | 22  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                        | 178,3 | 180,3 | 144,6 | 177,0 | 163,6 | 109,2 | 160,3 | 133,0 | 85,0 | 135,6 | 109,0 | -    | 23  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                        | 169,0 | 171,0 | 143,0 | 168,0 | 160,0 | 108,0 | 156,0 | 130,0 | 85,0 | 132,0 | 109,0 | -    | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                        | 155,0 | 156,5 | 139,5 | 154,0 | 151,0 | 104,5 | 147,5 | 124,0 | 83,0 | 125,5 | 104,0 | -    | 26  |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                        | 148,0 | 149,2 | 137,7 | 147,0 | 146,5 | 102,7 | 143,2 | 121,0 | 82,0 | 122,2 | 101,5 | 65,5 | 27  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                        | 141,0 | 142,0 | 136,0 | 140,0 | 142,0 | 101,0 | 139,0 | 118,0 | 81,0 | 119,0 | 99,0  | 65,5 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                        | 129,0 | 130,0 | 128,0 | 129,0 | 131,0 | 98,0  | 129,0 | 113,0 | 78,2 | 114,0 | 94,7  | 63,7 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                        | 107,2 | 108,2 | 110,0 | 108,5 | 110,0 | 92,5  | 109,5 | 104,0 | 73,2 | 104,2 | 87,0  | 60,0 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                        | 90,0  | 90,7  | 92,2  | 91,2  | 92,2  | 87,7  | 92,5  | 93,2  | 69,0 | 92,5  | 80,2  | 56,2 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                        | 76,8  | 77,3  | 78,6  | 77,8  | 78,6  | 80,0  | 79,1  | 80,5  | 65,3 | 79,6  | 74,5  | 52,9 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                        | 65,5  | 66,0  | 67,0  | 66,5  | 67,0  | 69,0  | 67,5  | 68,5  | 62,0 | 68,0  | 69,5  | 49,9 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                        | 56,8  | 57,3  | 58,3  | 57,8  | 58,6  | 60,0  | 58,8  | 59,8  | 58,6 | 59,3  | 60,5  | 47,4 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                        | 49,2  | 49,6  | 50,5  | 50,1  | 51,0  | 52,0  | 51,1  | 52,1  | 53,6 | 51,6  | 52,6  | 45,2 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                        | 42,6  | 43,0  | 43,7  | 43,5  | 44,1  | 45,2  | 44,5  | 45,4  | 46,9 | 44,9  | 46,0  | 43,2 | 58  |
| 59                                                                                                                                                                                                                                                                                                                                                                                                                                        | 41,2  | 41,6  | 42,1  | 42,1  | 42,6  | 43,7  | 43,1  | 43,9  | 45,4 | 43,4  | 44,5  | 42,5 | 59  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                        | 37,2  | 37,5  | -     | 37,9  | 38,4  | 39,4  | 38,9  | 39,6  | 41,0 | 39,2  | 40,2  | 40,4 | 62  |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                        | 33,3  | 33,6  | -     | 34,0  | 34,4  | 35,2  | 34,9  | 35,6  | 36,8 | 35,2  | 36,1  | 37,7 | 65  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                        | 32,1  | 32,4  | -     | 32,9  | 33,3  | -     | 33,7  | 34,5  | 35,6 | 34,0  | 34,9  | 36,5 | 66  |
| 69                                                                                                                                                                                                                                                                                                                                                                                                                                        | 29,0  | -     | -     | 29,5  | 29,9  | -     | 30,3  | 31,0  | 32,0 | 30,6  | 31,4  | 32,8 | 69  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 28,5  | 28,8  | -     | 29,3  | 29,9  | 30,8 | 29,5  | 30,3  | 31,6 | 70  |
| 71                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 27,5  | 27,8  | -     | 28,3  | 28,9  | 29,7 | 28,5  | 29,3  | 30,5 | 71  |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 26,6  | 26,9  | -     | 27,4  | 28,0  | -    | 27,6  | 28,3  | 29,5 | 72  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 24,8  | -     | -     | 25,6  | 26,1  | -    | 25,7  | 26,4  | 27,5 | 74  |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 23,8  | 24,2  | -    | 23,9  | 24,5  | 25,5 | 76  |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 23,0  | 23,3  | -    | 23,0  | 23,6  | -    | 77  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 22,2  | -     | -    | 22,2  | 22,8  | -    | 78  |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 20,6  | -     | -    | 20,6  | 21,2  | -    | 80  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 19,2  | 19,6  | -    | 82  |
| 83                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 18,5  | 18,9  | -    | 83  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 16,5  | -     | -    | 86  |



130 t

170 t

210 t

250 t

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SH/LH+LF

| <div>   15-33 m  9,60 m  9.8 m/s 360° EN13000 </div> |       |       |       |       |       |       |       |       |      |       |       |      |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|----|
| 66 m                                                                                                                                                                                                                                                                                                                                                                                      |       |       |       |       |       |       |       |       |      |       |       |      |    |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                      |       | 21 m  |       |       |       | 27 m  |       |       |      | 33 m  |       |      |    |
| 15°                                                                                                                                                                                                                                                                                                                                                                                       | 20°   | 30°   | 15°   | 20°   | 30°   | 15°   | 20°   | 30°   | 15°  | 20°   | 30°   |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                                         | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t    | m  |
| 14                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 14 |
| 15                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | 250,0 | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                                        | 245,5 | 247,0 | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 16 |
| 17                                                                                                                                                                                                                                                                                                                                                                                        | 241,0 | 244,0 | 158,0 | 237,0 | 189,0 | -     | -     | -     | -    | -     | -     | -    | 17 |
| 18                                                                                                                                                                                                                                                                                                                                                                                        | 227,5 | 230,0 | 157,0 | 224,0 | 188,0 | -     | -     | 184,0 | -    | -     | -     | -    | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                        | 202,5 | 204,5 | 154,5 | 200,0 | 182,0 | 118,0 | 181,0 | 143,0 | -    | 145,0 | -     | -    | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                        | 182,0 | 184,0 | 151,3 | 180,3 | 173,0 | 114,5 | 172,6 | 137,5 | -    | 141,5 | 116,0 | -    | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                        | 164,0 | 166,0 | 148,0 | 163,0 | 165,0 | 111,0 | 162,0 | 132,0 | 88,0 | 138,0 | 110,0 | -    | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                        | 150,5 | 152,0 | 144,5 | 149,5 | 151,5 | 107,5 | 148,5 | 126,5 | 85,0 | 131,0 | 105,5 | -    | 26 |
| 27                                                                                                                                                                                                                                                                                                                                                                                        | 143,7 | 145,0 | 142,7 | 142,7 | 144,7 | 105,7 | 141,7 | 123,7 | 83,5 | 127,5 | 103,2 | 68,5 | 27 |
| 28                                                                                                                                                                                                                                                                                                                                                                                        | 137,0 | 138,0 | 141,0 | 136,0 | 138,0 | 104,0 | 135,0 | 121,0 | 82,0 | 124,0 | 101,0 | 67,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                        | 126,5 | 127,5 | 130,0 | 125,5 | 127,5 | 101,0 | 125,0 | 116,0 | 79,2 | 118,0 | 96,7  | 64,7 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                        | 106,2 | 107,2 | 109,0 | 106,5 | 108,0 | 95,2  | 107,2 | 106,0 | 74,2 | 105,5 | 89,0  | 60,5 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                        | 89,0  | 89,7  | 91,2  | 90,2  | 91,2  | 89,2  | 91,7  | 93,2  | 70,0 | 91,7  | 82,2  | 56,7 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                        | 75,6  | 76,3  | 77,6  | 76,6  | 77,6  | 80,0  | 78,1  | 79,5  | 66,3 | 78,6  | 75,5  | 53,5 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                        | 64,0  | 65,0  | 66,0  | 65,0  | 66,0  | 68,0  | 66,5  | 67,5  | 63,0 | 67,0  | 68,5  | 50,5 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                        | 55,6  | 56,3  | 57,3  | 56,6  | 57,3  | 59,0  | 57,8  | 58,8  | 58,3 | 58,3  | 59,5  | 48,2 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                        | 48,0  | 48,5  | 49,4  | 48,9  | 49,5  | 50,9  | 50,0  | 50,9  | 52,5 | 50,4  | 51,5  | 46,1 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                        | 41,1  | 41,6  | 42,4  | 41,9  | 42,7  | 43,9  | 43,0  | 43,9  | 45,7 | 43,4  | 44,6  | 44,1 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                        | 35,6  | 36,0  | 36,6  | 36,3  | 37,0  | 38,1  | 37,3  | 38,1  | 39,7 | 37,7  | 38,8  | 39,8 | 62 |
| 63                                                                                                                                                                                                                                                                                                                                                                                        | 34,2  | 34,6  | 35,2  | 34,9  | 35,6  | 36,6  | 35,9  | 36,7  | 38,2 | 36,3  | 37,3  | 38,7 | 63 |
| 66                                                                                                                                                                                                                                                                                                                                                                                        | 30,6  | 31,0  | -     | 31,3  | 31,7  | 32,6  | 32,1  | 32,9  | 34,2 | 32,4  | 33,4  | 35,2 | 66 |
| 69                                                                                                                                                                                                                                                                                                                                                                                        | 27,4  | 27,7  | -     | 28,0  | 28,4  | 29,1  | 28,7  | 29,4  | 30,6 | 29,0  | 29,9  | 31,5 | 69 |
| 70                                                                                                                                                                                                                                                                                                                                                                                        | 26,4  | 26,6  | -     | 26,9  | 27,3  | -     | 27,7  | 28,3  | 29,5 | 27,9  | 28,8  | 30,3 | 70 |
| 71                                                                                                                                                                                                                                                                                                                                                                                        | 25,4  | 25,6  | -     | 25,9  | 26,3  | -     | 26,7  | 27,3  | 28,4 | 26,9  | 27,8  | 29,2 | 71 |
| 74                                                                                                                                                                                                                                                                                                                                                                                        | 22,7  | -     | -     | 23,1  | 23,5  | -     | 23,9  | 24,5  | 25,4 | 24,1  | 24,8  | 26,2 | 74 |
| 75                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 22,2  | 22,6  | -     | 23,0  | 23,5  | 24,4 | 23,1  | 23,8  | 25,2 | 75 |
| 77                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 20,6  | 20,9  | -     | 21,3  | 21,7  | -    | 21,4  | 22,0  | 23,3 | 77 |
| 78                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 19,8  | -     | -     | 20,5  | 20,9  | -    | 20,6  | 21,2  | 22,4 | 78 |
| 80                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 18,3  | -     | -     | 19,0  | 19,3  | -    | 19,0  | 19,6  | 20,6 | 80 |
| 81                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 18,2  | 18,5  | -    | 18,2  | 18,8  | 19,8 | 81 |
| 82                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 17,5  | 17,8  | -    | 17,5  | 18,0  | -    | 82 |
| 85                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 15,5  | -     | -    | 15,5  | 15,9  | -    | 85 |
| 86                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 14,8  | 15,2  | -    | 86 |
| 88                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 13,5  | 13,9  | -    | 88 |
| 90                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 12,3  | -     | -    | 90 |
| 91                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 11,8  | -     | -    | 91 |


130 t
170 t
210 t
250 t

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SH/LH+LF

| <div>   15-33 m            9,60 m            9.8 m/s           360°           EN13000         </div> |       |       |       |       |       |       |       |       |      |       |       |      |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|----|
| 72 m                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |       |       |       |       |       |       |       |      |       |       |      |    |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | 21 m  |       |       |       | 27 m  |       |       |      | 33 m  |       |      |    |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20°   | 30°   | 15°   | 20°   | 30°   | 15°   | 20°   | 30°   | 15°  | 20°   | 30°   |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                         | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t    | m  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 14 |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250,0 | 249,0 | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                        | 241,0 | 242,0 | -     | 232,0 | -     | -     | -     | -     | -    | -     | -     | -    | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                        | 219,0 | 222,0 | 154,0 | 216,5 | 181,0 | -     | 179,0 | -     | -    | -     | -     | -    | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                        | 195,5 | 198,0 | 152,0 | 193,5 | 179,5 | -     | 177,0 | 140,0 | -    | 139,0 | -     | -    | 20 |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                        | 185,0 | 187,0 | 150,0 | 183,0 | 178,0 | 113,0 | 175,0 | 138,5 | -    | 138,5 | -     | -    | 21 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                        | 176,3 | 178,3 | 148,6 | 174,6 | 172,0 | 112,3 | 169,0 | 137,0 | -    | 138,0 | -     | -    | 22 |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                        | 167,6 | 169,6 | 147,3 | 166,3 | 166,0 | 111,6 | 163,0 | 135,5 | -    | 137,5 | 110,0 | -    | 23 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                        | 159,0 | 161,0 | 146,0 | 158,0 | 160,0 | 111,0 | 157,0 | 134,0 | 84,5 | 137,0 | 110,0 | -    | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                        | 145,5 | 147,5 | 141,5 | 145,0 | 147,0 | 108,0 | 144,0 | 128,5 | 83,5 | 131,5 | 106,0 | -    | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                        | 132,0 | 134,0 | 137,0 | 132,0 | 134,0 | 105,0 | 131,0 | 123,0 | 82,5 | 126,0 | 102,0 | 66,5 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                        | 122,0 | 123,5 | 126,5 | 121,5 | 123,5 | 102,2 | 121,0 | 118,0 | 80,0 | 118,5 | 98,0  | 64,7 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                        | 103,5 | 104,5 | 107,0 | 103,2 | 105,2 | 96,7  | 103,5 | 105,5 | 75,2 | 103,2 | 90,5  | 61,0 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                        | 87,5  | 88,2  | 90,2  | 88,2  | 90,0  | 89,2  | 89,2  | 91,0  | 71,2 | 89,2  | 84,0  | 57,5 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                        | 74,1  | 74,8  | 76,5  | 75,1  | 76,5  | 78,5  | 76,6  | 78,0  | 67,8 | 77,1  | 76,3  | 54,5 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                        | 62,5  | 63,5  | 64,5  | 63,5  | 64,5  | 66,5  | 65,0  | 66,0  | 64,5 | 65,5  | 67,0  | 51,5 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                        | 53,9  | 54,5  | 55,8  | 54,8  | 55,8  | 57,5  | 56,0  | 57,3  | 58,1 | 56,8  | 58,0  | 49,1 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                        | 46,1  | 46,5  | 47,8  | 47,0  | 47,9  | 49,4  | 48,0  | 49,4  | 51,3 | 48,8  | 49,9  | 46,9 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                        | 39,2  | 39,7  | 40,6  | 40,0  | 40,8  | 42,2  | 41,1  | 42,2  | 44,1 | 41,6  | 42,9  | 44,9 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                        | 33,5  | 33,9  | 34,8  | 34,3  | 35,1  | 36,3  | 35,4  | 36,4  | 38,1 | 35,8  | 37,0  | 39,1 | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                        | 28,7  | 29,1  | 29,7  | 29,3  | 30,0  | 30,9  | 30,3  | 31,0  | 32,5 | 30,6  | 31,5  | 33,6 | 66 |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                        | 26,5  | 26,8  | 27,3  | 27,1  | 27,7  | 28,6  | 28,0  | 28,7  | 30,0 | 28,3  | 29,2  | 31,0 | 68 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                        | 24,3  | 24,6  | -     | 24,9  | 25,4  | 26,3  | 25,7  | 26,4  | 27,7 | 26,0  | 26,9  | 28,7 | 70 |
| 73                                                                                                                                                                                                                                                                                                                                                                                                                                        | 21,5  | 21,8  | -     | 22,0  | 22,4  | 23,2  | 22,7  | 23,4  | 24,6 | 23,0  | 23,9  | 25,6 | 73 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20,6  | 20,9  | -     | 21,1  | 21,5  | -     | 21,8  | 22,5  | 23,6 | 22,0  | 22,9  | 24,5 | 74 |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                        | 18,9  | 19,1  | -     | 19,3  | 19,7  | -     | 20,1  | 20,7  | 21,7 | 20,2  | 21,0  | 22,5 | 76 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                        | 17,3  | -     | -     | 17,7  | 18,1  | -     | 18,5  | 19,0  | 19,9 | 18,6  | 19,3  | 20,7 | 78 |
| 79                                                                                                                                                                                                                                                                                                                                                                                                                                        | 16,6  | -     | -     | 17,0  | 17,3  | -     | 17,7  | 18,2  | 19,0 | 17,8  | 18,5  | 19,8 | 79 |
| 81                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 15,4  | 15,8  | -     | 16,1  | 16,6  | -    | 16,2  | 16,9  | 18,0 | 81 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 14,7  | -     | -     | 15,4  | 15,8  | -    | 15,4  | 16,1  | 17,2 | 82 |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 12,8  | -     | -     | 13,3  | 13,7  | -    | 13,3  | 13,9  | 14,9 | 85 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 12,6  | 13,1  | -    | 12,6  | 13,2  | -    | 86 |
| 87                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 12,0  | 12,4  | -    | 12,0  | 12,5  | -    | 87 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 10,2  | -     | -    | 10,2  | 10,7  | -    | 90 |
| 91                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | 9,7   | -     | -    | 9,7   | 10,1  | -    | 91 |
| 93                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 8,5   | 9,0   | -    | 93 |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 8,0   | -     | -    | 94 |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -    | 7,0   | -     | -    | 96 |


130 t
170 t
210 t
250 t

# Operation

SH/LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>  +  15-33 m            9,60 m            9.8 m/s           360°           EN13000         </div> |       |       |       |       |       |       |       |       |      |       |       |      |    |
|--------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|----|
| 78 m                                                                                                   |       |       |       |       |       |       |       |       |      |       |       |      |    |
| 15 m                                                                                                   |       | 21 m  |       |       | 27 m  |       |       | 33 m  |      |       |       |      |    |
| 15°                                                                                                    | 20°   | 30°   | 15°   | 20°   | 30°   | 15°   | 20°   | 30°   | 15°  | 20°   | 30°   |      |    |
| m                                                                                                      | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t    | m  |
| 15                                                                                                     | 250,0 | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 15 |
| 16                                                                                                     | 237,5 | 242,0 | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 16 |
| 17                                                                                                     | 225,0 | 228,0 | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 17 |
| 18                                                                                                     | 212,5 | 215,0 | 155,0 | 209,5 | 187,0 | -     | -     | -     | -    | -     | -     | -    | 18 |
| 19                                                                                                     | 200,0 | 202,0 | 155,0 | 198,0 | 187,0 | -     | 174,0 | -     | -    | -     | -     | -    | 19 |
| 20                                                                                                     | 189,5 | 191,5 | 154,5 | 188,0 | 184,0 | -     | 174,0 | -     | -    | -     | -     | -    | 20 |
| 21                                                                                                     | 179,0 | 181,0 | 154,0 | 178,0 | 181,0 | -     | 174,0 | 143,0 | -    | 133,0 | -     | -    | 21 |
| 22                                                                                                     | 170,6 | 172,6 | 152,6 | 169,6 | 172,6 | 117,0 | 166,6 | 140,6 | -    | 133,0 | -     | -    | 22 |
| 23                                                                                                     | 162,3 | 164,3 | 151,3 | 161,3 | 164,3 | 115,5 | 159,3 | 138,3 | -    | 133,0 | 114,0 | -    | 23 |
| 24                                                                                                     | 154,0 | 156,0 | 150,0 | 153,0 | 156,0 | 114,0 | 152,0 | 136,0 | -    | 133,0 | 113,0 | -    | 24 |
| 25                                                                                                     | 147,5 | 149,5 | 145,7 | 146,7 | 149,5 | 112,2 | 145,7 | 133,2 | 87,5 | 131,2 | 110,7 | -    | 25 |
| 26                                                                                                     | 141,0 | 143,0 | 141,5 | 140,5 | 143,0 | 110,5 | 139,5 | 130,5 | 86,1 | 129,5 | 108,5 | -    | 26 |
| 28                                                                                                     | 128,0 | 130,0 | 133,0 | 128,0 | 130,0 | 107,0 | 127,0 | 125,0 | 83,5 | 126,0 | 104,0 | 67,5 | 28 |
| 30                                                                                                     | 118,0 | 120,0 | 122,5 | 118,0 | 120,0 | 104,0 | 117,5 | 117,5 | 81,0 | 116,5 | 100,0 | 65,5 | 30 |
| 34                                                                                                     | 100,2 | 102,0 | 104,0 | 100,2 | 102,0 | 98,5  | 100,5 | 102,5 | 76,2 | 99,7  | 92,5  | 61,5 | 34 |
| 38                                                                                                     | 85,5  | 86,7  | 88,5  | 86,2  | 87,5  | 89,7  | 86,7  | 88,5  | 72,2 | 86,2  | 85,5  | 58,0 | 38 |
| 42                                                                                                     | 72,8  | 73,6  | 75,1  | 74,1  | 75,1  | 77,5  | 74,8  | 76,3  | 68,8 | 74,8  | 76,6  | 55,0 | 42 |
| 46                                                                                                     | 61,5  | 62,0  | 63,5  | 62,5  | 63,5  | 65,5  | 63,5  | 65,0  | 65,5 | 64,5  | 66,0  | 52,0 | 46 |
| 50                                                                                                     | 52,5  | 53,2  | 54,5  | 53,5  | 54,5  | 56,5  | 54,5  | 56,0  | 57,8 | 55,5  | 57,0  | 49,8 | 50 |
| 54                                                                                                     | 44,6  | 45,2  | 46,4  | 45,5  | 46,4  | 48,3  | 46,5  | 47,9  | 50,2 | 47,3  | 48,8  | 47,1 | 54 |
| 58                                                                                                     | 37,6  | 38,2  | 39,2  | 38,4  | 39,3  | 40,9  | 39,5  | 40,7  | 42,8 | 40,0  | 41,4  | 44,1 | 58 |
| 62                                                                                                     | 31,9  | 32,4  | 33,3  | 32,6  | 33,4  | 34,9  | 33,6  | 34,7  | 36,7 | 34,1  | 35,5  | 37,9 | 62 |
| 66                                                                                                     | 27,0  | 27,5  | 28,2  | 27,6  | 28,4  | 29,6  | 28,7  | 29,5  | 31,1 | 29,0  | 30,2  | 32,1 | 66 |
| 70                                                                                                     | 22,6  | 23,0  | 23,6  | 23,2  | 23,8  | 24,8  | 24,1  | 24,9  | 26,3 | 24,3  | 25,4  | 27,3 | 70 |
| 72                                                                                                     | 20,8  | 21,1  | 21,6  | 21,3  | 21,9  | 22,8  | 22,2  | 22,8  | 24,1 | 22,3  | 23,3  | 25,1 | 72 |
| 74                                                                                                     | 19,0  | 19,3  | -     | 19,4  | 20,0  | 20,8  | 20,3  | 20,9  | 22,1 | 20,4  | 21,3  | 23,0 | 74 |
| 78                                                                                                     | 15,6  | 15,9  | -     | 16,0  | 16,5  | 17,1  | 16,8  | 17,4  | 18,5 | 16,9  | 17,7  | 19,2 | 78 |
| 81                                                                                                     | 13,4  | 13,6  | -     | 13,7  | 14,1  | -     | 14,4  | 15,0  | 15,9 | 14,5  | 15,3  | 16,6 | 81 |
| 82                                                                                                     | 12,7  | -     | -     | 13,0  | 13,3  | -     | 13,6  | 14,2  | 15,1 | 13,7  | 14,5  | 15,8 | 82 |
| 83                                                                                                     | 12,0  | -     | -     | 12,3  | 12,6  | -     | 12,9  | 13,4  | 14,4 | 13,0  | 13,7  | 15,0 | 83 |
| 84                                                                                                     | 11,4  | -     | -     | 11,7  | 11,9  | -     | 12,3  | 12,7  | -    | 12,3  | 13,0  | 14,2 | 84 |
| 86                                                                                                     | -     | -     | -     | 10,4  | 10,6  | -     | 11,0  | 11,4  | -    | 11,0  | 11,6  | 12,7 | 86 |
| 89                                                                                                     | -     | -     | -     | 8,5   | -     | -     | 9,1   | 9,5   | -    | 9,1   | 9,7   | 10,7 | 89 |
| 90                                                                                                     | -     | -     | -     | 8,0   | -     | -     | 8,5   | 8,9   | -    | 8,5   | 9,1   | -    | 90 |
| 92                                                                                                     | -     | -     | -     | -     | -     | -     | 7,4   | 7,7   | -    | 7,3   | 7,9   | -    | 92 |
| 94                                                                                                     | -     | -     | -     | -     | -     | -     | 6,3   | -     | -    | 6,2   | 6,7   | -    | 94 |
| 96                                                                                                     | -     | -     | -     | -     | -     | -     | 5,3   | -     | -    | 5,2   | 5,6   | -    | 96 |
| 97                                                                                                     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 5,1   | -    | 97 |

130 t
 170 t
 210 t
 250 t



# Operation

SH/LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>   15-33 m  9,60 m  9.8 m/s 360° EN13000 </div> |       |       |       |       |       |       |       |       |      |       |       |      |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|----|
| 84 m                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |       |       |       |       |       |      |       |       |      |    |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                     |       | 21 m  |       |       | 27 m  |       |       | 33 m  |      |       |       |      |    |
| 15°                                                                                                                                                                                                                                                                                                                                                                                      | 20°   | 30°   | 15°   | 20°   | 30°   | 15°   | 20°   | 30°   | 15°  | 20°   | 30°   |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                                        | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t    | m  |
| 15                                                                                                                                                                                                                                                                                                                                                                                       | 240,0 | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                                       | 228,5 | 214,0 | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 16 |
| 17                                                                                                                                                                                                                                                                                                                                                                                       | 217,0 | 214,0 | -     | 186,0 | -     | -     | -     | -     | -    | -     | -     | -    | 17 |
| 18                                                                                                                                                                                                                                                                                                                                                                                       | 205,5 | 205,0 | -     | 186,0 | -     | -     | -     | -     | -    | -     | -     | -    | 18 |
| 19                                                                                                                                                                                                                                                                                                                                                                                       | 194,0 | 196,0 | 149,0 | 186,0 | 160,0 | -     | 148,0 | -     | -    | -     | -     | -    | 19 |
| 20                                                                                                                                                                                                                                                                                                                                                                                       | 184,0 | 186,0 | 149,0 | 179,0 | 160,0 | -     | 148,0 | -     | -    | -     | -     | -    | 20 |
| 21                                                                                                                                                                                                                                                                                                                                                                                       | 174,0 | 176,0 | 149,0 | 172,0 | 160,0 | -     | 148,0 | 126,0 | -    | 122,0 | -     | -    | 21 |
| 22                                                                                                                                                                                                                                                                                                                                                                                       | 165,6 | 167,6 | 147,6 | 164,0 | 157,0 | 112,0 | 147,6 | 126,0 | -    | 122,0 | -     | -    | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                       | 149,0 | 151,0 | 145,0 | 148,0 | 151,0 | 112,0 | 147,0 | 126,0 | -    | 122,0 | 102,0 | -    | 24 |
| 25                                                                                                                                                                                                                                                                                                                                                                                       | 142,7 | 144,7 | 141,0 | 142,0 | 144,7 | 110,5 | 141,2 | 125,7 | 84,0 | 121,7 | 102,0 | -    | 25 |
| 26                                                                                                                                                                                                                                                                                                                                                                                       | 136,5 | 138,5 | 137,0 | 136,0 | 138,5 | 109,0 | 135,5 | 125,5 | 84,0 | 121,5 | 102,0 | -    | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                       | 124,0 | 126,0 | 129,0 | 124,0 | 126,0 | 106,0 | 124,0 | 125,0 | 84,0 | 121,0 | 102,0 | -    | 28 |
| 29                                                                                                                                                                                                                                                                                                                                                                                       | 119,2 | 121,0 | 124,0 | 119,2 | 121,2 | 104,7 | 119,2 | 120,5 | 82,7 | 116,7 | 100,8 | 65,0 | 29 |
| 30                                                                                                                                                                                                                                                                                                                                                                                       | 114,5 | 116,0 | 119,0 | 114,5 | 116,5 | 103,5 | 114,5 | 116,0 | 81,5 | 112,5 | 99,7  | 64,6 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                       | 97,2  | 98,5  | 101,0 | 97,2  | 99,2  | 97,7  | 97,5  | 99,5  | 77,0 | 96,7  | 94,0  | 62,0 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                       | 83,2  | 84,5  | 86,5  | 83,2  | 85,0  | 88,0  | 83,7  | 85,7  | 73,0 | 83,5  | 85,0  | 58,5 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                       | 71,3  | 72,3  | 74,1  | 71,6  | 73,1  | 75,8  | 72,5  | 74,3  | 69,5 | 72,5  | 74,5  | 55,6 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                       | 60,0  | 61,0  | 62,5  | 61,0  | 62,5  | 64,5  | 62,5  | 64,0  | 66,5 | 62,5  | 64,5  | 53,0 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                       | 51,0  | 51,9  | 53,3  | 52,0  | 53,3  | 55,1  | 53,4  | 54,6  | 57,5 | 53,8  | 55,5  | 50,6 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                       | 43,1  | 43,8  | 45,1  | 44,0  | 45,1  | 46,8  | 45,2  | 46,4  | 49,1 | 45,8  | 47,3  | 47,2 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                       | 36,1  | 36,7  | 37,9  | 36,9  | 37,9  | 39,5  | 38,0  | 39,2  | 41,5 | 38,5  | 40,0  | 42,9 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                       | 30,5  | 31,0  | 32,0  | 31,2  | 32,0  | 33,4  | 32,2  | 33,2  | 35,4 | 32,5  | 33,9  | 36,6 | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                       | 25,4  | 25,9  | 26,8  | 26,1  | 26,8  | 28,2  | 27,0  | 28,0  | 29,9 | 27,4  | 28,7  | 30,8 | 66 |
| 70                                                                                                                                                                                                                                                                                                                                                                                       | 21,1  | 21,5  | 22,2  | 21,6  | 22,3  | 23,4  | 22,5  | 23,4  | 24,9 | 22,8  | 23,9  | 25,9 | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                       | 17,3  | 17,7  | 18,4  | 17,8  | 18,4  | 19,4  | 18,6  | 19,4  | 20,8 | 18,8  | 19,9  | 21,6 | 74 |
| 76                                                                                                                                                                                                                                                                                                                                                                                       | 15,5  | 15,9  | 16,5  | 16,0  | 16,5  | 17,5  | 16,7  | 17,5  | 18,8 | 16,9  | 17,9  | 19,6 | 76 |
| 78                                                                                                                                                                                                                                                                                                                                                                                       | 13,9  | 14,2  | -     | 14,3  | 14,8  | 15,7  | 15,1  | 15,8  | 17,1 | 15,2  | 16,2  | 17,8 | 78 |
| 82                                                                                                                                                                                                                                                                                                                                                                                       | 11,0  | 11,3  | -     | 11,3  | 11,7  | 12,5  | 12,0  | 12,6  | 13,7 | 12,1  | 12,9  | 14,4 | 82 |
| 86                                                                                                                                                                                                                                                                                                                                                                                       | 8,4   | 8,6   | -     | 8,7   | 9,0   | -     | 9,2   | 9,8   | 10,7 | 9,3   | 10,1  | 11,3 | 86 |
| 88                                                                                                                                                                                                                                                                                                                                                                                       | 7,2   | -     | -     | 7,4   | 7,7   | -     | 7,9   | 8,5   | 9,3  | 8,0   | 8,7   | 9,9  | 88 |
| 89                                                                                                                                                                                                                                                                                                                                                                                       | 6,6   | -     | -     | 6,8   | 7,1   | -     | 7,3   | 7,9   | -    | 7,4   | 8,1   | 9,2  | 89 |
| 90                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | 6,2   | 6,5   | -     | 6,7   | 7,3   | -    | 6,8   | 7,5   | 8,5  | 90 |
| 91                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | 5,6   | 6,0   | -     | 6,2   | 6,7   | -    | 6,2   | 6,9   | 7,9  | 91 |
| 92                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | 5,1   | -     | -     | 5,6   | 6,1   | -    | 5,6   | 6,3   | 7,2  | 92 |
| 93                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -     | -     | 5,1   | 5,5   | -    | 5,0   | 5,7   | 6,6  | 93 |
| 94                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 5,1   | -    | 94 |


130 t
170 t
210 t
250 t

# Operation

SH/LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>   15-33 m  9,60 m  9.8 m/s 360° EN13000 </div> |       |       |       |       |       |       |       |       |      |       |       |      |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|----|
| 90 m                                                                                                                                                                                                                                                                                                                                                                                      |       |       |       |       |       |       |       |       |      |       |       |      |    |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                      |       | 21 m  |       |       |       | 27 m  |       |       |      | 33 m  |       |      |    |
| 15°                                                                                                                                                                                                                                                                                                                                                                                       | 20°   | 30°   | 15°   | 20°   | 30°   | 15°   | 20°   | 30°   | 15°  | 20°   | 30°   |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                                         | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t    | m  |
| 16                                                                                                                                                                                                                                                                                                                                                                                        | 218,0 | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 16 |
| 17                                                                                                                                                                                                                                                                                                                                                                                        | 210,0 | 206,0 | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 17 |
| 18                                                                                                                                                                                                                                                                                                                                                                                        | 198,5 | 198,0 | -     | 178,0 | -     | -     | -     | -     | -    | -     | -     | -    | 18 |
| 19                                                                                                                                                                                                                                                                                                                                                                                        | 187,0 | 190,0 | 150,0 | 178,0 | 165,0 | -     | -     | -     | -    | -     | -     | -    | 19 |
| 20                                                                                                                                                                                                                                                                                                                                                                                        | 177,5 | 180,0 | 150,0 | 172,5 | 165,0 | -     | 146,0 | -     | -    | -     | -     | -    | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                        | 160,0 | 162,0 | 149,3 | 159,3 | 159,0 | -     | 144,5 | 133,0 | -    | 118,0 | -     | -    | 22 |
| 23                                                                                                                                                                                                                                                                                                                                                                                        | 152,0 | 154,0 | 148,6 | 151,6 | 153,0 | 116,0 | 143,7 | 133,0 | -    | 118,0 | -     | -    | 23 |
| 24                                                                                                                                                                                                                                                                                                                                                                                        | 144,0 | 146,0 | 148,0 | 144,0 | 147,0 | 115,0 | 143,0 | 133,0 | -    | 118,0 | 108,0 | -    | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                        | 132,0 | 134,0 | 136,5 | 132,0 | 134,5 | 112,0 | 131,5 | 128,0 | 85,5 | 118,0 | 107,0 | -    | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                        | 120,0 | 122,0 | 125,0 | 120,0 | 122,0 | 109,0 | 120,0 | 123,0 | 84,5 | 118,0 | 106,0 | -    | 28 |
| 29                                                                                                                                                                                                                                                                                                                                                                                        | 115,2 | 117,2 | 120,0 | 115,2 | 117,2 | 107,5 | 115,2 | 118,2 | 83,2 | 113,7 | 104,1 | 67,0 | 29 |
| 30                                                                                                                                                                                                                                                                                                                                                                                        | 110,5 | 112,5 | 115,0 | 110,5 | 112,5 | 106,0 | 110,5 | 113,5 | 82,0 | 109,5 | 102,2 | 66,0 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                        | 93,7  | 95,2  | 97,5  | 93,7  | 95,5  | 97,2  | 94,0  | 96,5  | 77,5 | 93,7  | 93,7  | 62,2 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                        | 80,2  | 81,2  | 83,5  | 80,2  | 81,7  | 85,0  | 80,7  | 82,7  | 73,7 | 80,5  | 83,0  | 59,0 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                        | 68,8  | 69,8  | 71,6  | 69,1  | 70,5  | 73,3  | 69,6  | 71,5  | 69,6 | 69,6  | 72,0  | 56,1 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                        | 58,5  | 59,5  | 61,0  | 59,5  | 60,5  | 63,0  | 60,0  | 61,5  | 65,0 | 60,0  | 62,0  | 53,5 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                        | 49,4  | 50,3  | 51,8  | 50,4  | 51,5  | 53,8  | 51,4  | 52,9  | 56,0 | 51,9  | 53,8  | 51,1 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                        | 41,3  | 42,0  | 43,5  | 42,2  | 43,4  | 45,4  | 43,5  | 45,0  | 47,6 | 44,2  | 45,9  | 47,1 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                        | 34,3  | 35,0  | 36,2  | 35,2  | 36,2  | 38,0  | 36,3  | 37,6  | 40,0 | 36,8  | 38,4  | 41,4 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                        | 28,7  | 29,3  | 30,4  | 29,4  | 30,4  | 31,9  | 30,5  | 31,6  | 33,6 | 30,9  | 32,2  | 35,0 | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                        | 23,6  | 24,1  | 25,0  | 24,2  | 25,0  | 26,5  | 25,2  | 26,2  | 28,2 | 25,5  | 26,9  | 29,4 | 66 |
| 70                                                                                                                                                                                                                                                                                                                                                                                        | 19,2  | 19,7  | 20,5  | 19,8  | 20,5  | 21,7  | 20,7  | 21,6  | 23,3 | 21,0  | 22,2  | 24,4 | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                        | 15,4  | 15,9  | 16,6  | 16,0  | 16,6  | 17,7  | 16,8  | 17,6  | 19,2 | 17,0  | 18,1  | 20,0 | 74 |
| 78                                                                                                                                                                                                                                                                                                                                                                                        | 12,0  | 12,4  | 13,0  | 12,5  | 13,0  | 14,0  | 13,2  | 14,0  | 15,4 | 13,4  | 14,3  | 16,2 | 78 |
| 80                                                                                                                                                                                                                                                                                                                                                                                        | 10,5  | 10,8  | 11,4  | 10,9  | 11,4  | 12,3  | 11,6  | 12,4  | 13,6 | 11,8  | 12,7  | 14,4 | 80 |
| 82                                                                                                                                                                                                                                                                                                                                                                                        | 9,0   | 9,3   | -     | 9,4   | 9,9   | 10,7  | 10,1  | 10,8  | 12,0 | 10,2  | 11,1  | 12,7 | 82 |
| 86                                                                                                                                                                                                                                                                                                                                                                                        | 6,4   | 6,7   | -     | 6,7   | 7,1   | 7,8   | 7,3   | 8,0   | 9,0  | 7,4   | 8,2   | 9,7  | 86 |
| 88                                                                                                                                                                                                                                                                                                                                                                                        | 5,2   | 5,4   | -     | 5,4   | 5,8   | -     | 6,0   | 6,6   | 7,6  | 6,1   | 6,8   | 8,2  | 88 |
| 89                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | 5,2   | -     | 5,4   | 6,0   | 6,9  | 5,4   | 6,2   | 7,5  | 89 |
| 90                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | 5,4   | 6,3  | -     | 5,6   | 6,9  | 90 |
| 92                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | 5,0  | -     | -     | 5,6  | 92 |


130 t
170 t
210 t
250 t

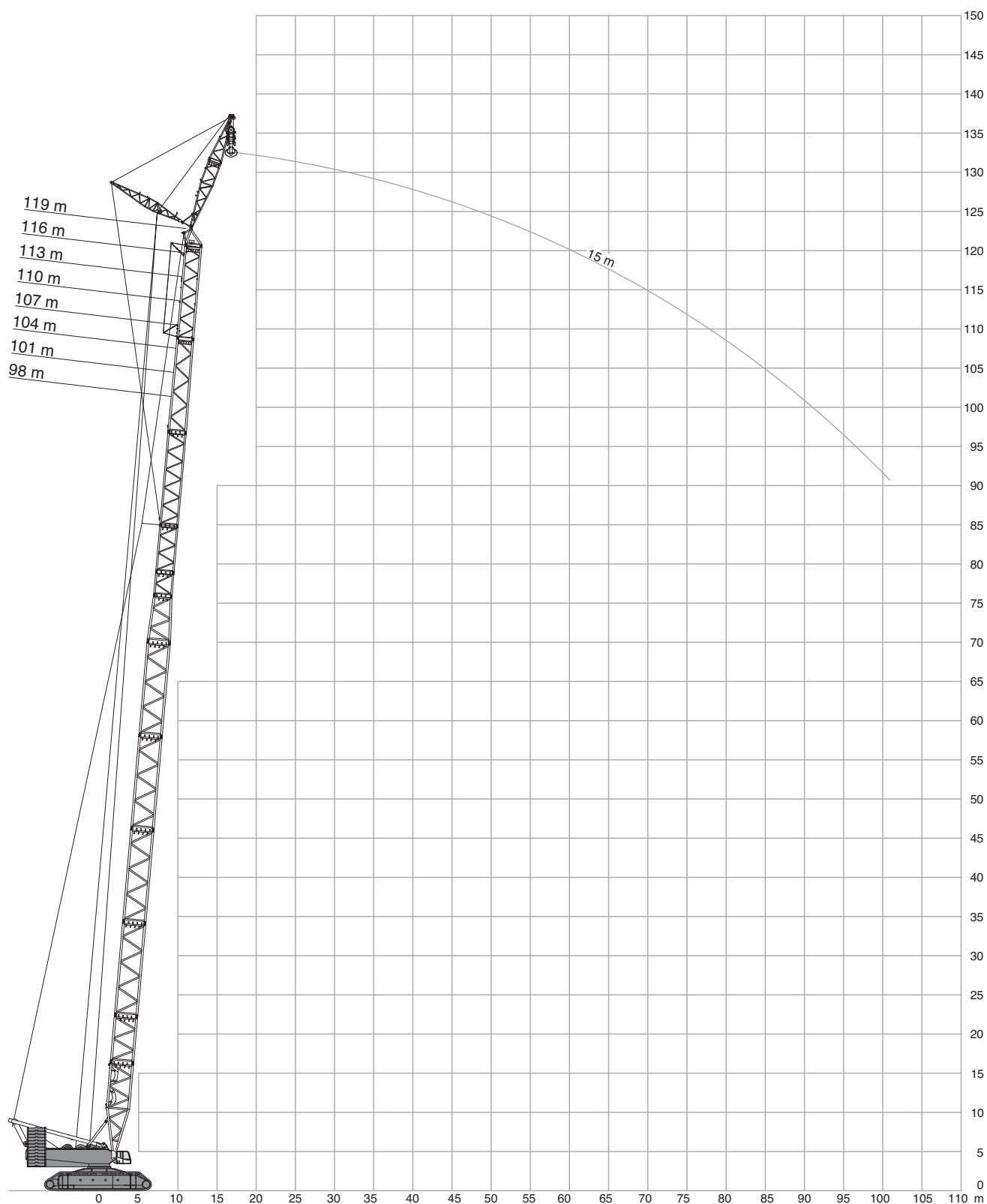
## Notes

Notizen · Notes · Nota · Notas · Notas · пометы, комментарии, примечания

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SH/LH+LF3\_S3



# Operation

SH/LH+LF3\_S3

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|     |       | 15-21 m |       |      |       | 9,60 m |       |      |       | 9.8 m/s |       |      |       | 360°  |       |      |     | EN13000 |  |
|-----|-------|---------|-------|------|-------|--------|-------|------|-------|---------|-------|------|-------|-------|-------|------|-----|---------|--|
|     |       | 98 m    |       |      |       | 101 m  |       |      |       | 104 m   |       |      |       | 107 m |       |      |     |         |  |
|     |       | 15 m    |       | 21 m |       | 15 m   |       | 21 m |       | 15 m    |       | 21 m |       | 15 m  |       | 21 m |     |         |  |
|     |       | 15°     | 20°   | 15°  | 20°   | 15°    | 20°   | 15°  | 20°   | 15°     | 20°   | 15°  | 20°   | 15°   | 20°   | 15°  | 20° |         |  |
| m   | t     | t       | t     | t    | t     | t      | t     | t    | t     | t       | t     | t    | t     | t     | t     | t    | t   |         |  |
| 16  | 175,0 | -       | -     | -    | 168,0 | -      | -     | -    | 162,0 | -       | -     | -    | 154,0 | -     | -     | -    | -   |         |  |
| 17  | 171,0 | 143,0   | -     | -    | 166,0 | 142,0  | -     | -    | 160,0 | 140,0   | -     | -    | 152,0 | -     | -     | -    | -   |         |  |
| 18  | 167,0 | 140,0   | 122,0 | -    | 164,0 | 140,0  | 122,0 | -    | 157,0 | 140,0   | 122,0 | -    | 150,0 | 137,0 | 118,0 | -    | -   |         |  |
| 19  | 163,0 | 137,0   | 119,0 | 93,0 | 162,0 | 137,0  | 119,0 | -    | 155,0 | 137,0   | 119,0 | -    | 148,0 | 135,0 | 117,0 | -    | -   |         |  |
| 20  | 160,0 | 134,0   | 116,0 | 93,0 | 159,0 | 134,0  | 116,0 | 92,0 | 152,0 | 135,0   | 117,0 | 93,0 | 146,0 | 133,0 | 115,0 | 92,0 | -   |         |  |
| 22  | 153,0 | 129,0   | 111,0 | 89,0 | 152,0 | 129,0  | 111,0 | 89,0 | 147,0 | 130,0   | 112,0 | 89,0 | 142,0 | 129,0 | 111,0 | 89,0 | -   |         |  |
| 24  | 146,0 | 124,0   | 106,0 | 86,0 | 144,0 | 124,0  | 106,0 | 86,0 | 141,0 | 125,0   | 107,0 | 86,0 | 137,0 | 125,0 | 107,0 | 86,0 | -   |         |  |
| 26  | 134,0 | 120,0   | 102,0 | 83,0 | 132,0 | 120,0  | 102,0 | 83,0 | 130,0 | 121,0   | 103,0 | 83,0 | 128,0 | 121,0 | 103,0 | 83,0 | -   |         |  |
| 28  | 123,0 | 115,0   | 98,0  | 80,0 | 121,0 | 115,0  | 98,0  | 80,0 | 119,0 | 116,0   | 99,0  | 80,0 | 117,0 | 115,0 | 99,0  | 80,0 | -   |         |  |
| 30  | 114,0 | 111,0   | 94,0  | 77,0 | 112,0 | 111,0  | 94,0  | 77,0 | 110,0 | 111,0   | 95,0  | 78,0 | 108,0 | 109,0 | 95,0  | 78,0 | -   |         |  |
| 34  | 97,0  | 99,0    | 87,0  | 72,0 | 96,0  | 97,0   | 87,0  | 72,0 | 94,0  | 96,0    | 88,0  | 73,0 | 93,0  | 94,0  | 89,0  | 73,0 | -   |         |  |
| 38  | 84,0  | 85,0    | 81,0  | 68,0 | 83,0  | 84,0   | 82,0  | 68,0 | 81,0  | 83,0    | 82,0  | 69,0 | 80,0  | 81,0  | 81,0  | 69,0 | -   |         |  |
| 42  | 74,0  | 75,0    | 74,0  | 64,5 | 72,0  | 73,0   | 73,0  | 64,5 | 71,0  | 72,0    | 72,0  | 65,0 | 69,5  | 70,5  | 70,5  | 65,0 | -   |         |  |
| 46  | 64,5  | 65,5    | 65,5  | 61,0 | 63,0  | 64,0   | 64,0  | 61,5 | 62,0  | 63,0    | 63,0  | 61,5 | 61,5  | 61,5  | 61,5  | 61,5 | -   |         |  |
| 50  | 56,0  | 56,5    | 57,5  | 57,0 | 55,0  | 55,5   | 56,5  | 57,0 | 54,0  | 55,0    | 55,5  | 56,5 | 53,0  | 53,5  | 53,5  | 55,0 | -   |         |  |
| 54  | 48,0  | 48,5    | 50,5  | 51,5 | 47,0  | 47,5   | 49,5  | 50,5 | 46,5  | 47,5    | 48,5  | 49,5 | 45,5  | 46,5  | 47,0  | 48,0 | -   |         |  |
| 58  | 41,0  | 42,0    | 43,5  | 44,5 | 40,0  | 41,0   | 42,5  | 43,5 | 40,0  | 40,5    | 42,0  | 43,0 | 39,0  | 39,5  | 41,0  | 42,0 | -   |         |  |
| 62  | 35,6  | 36,3    | 37,3  | 38,3 | 34,5  | 35,0   | 36,3  | 37,3 | 34,3  | 34,5    | 36,3  | 37,3 | 33,0  | 33,0  | 35,0  | 36,2 | -   |         |  |
| 66  | 30,0  | 31,0    | 32,0  | 33,0 | 29,0  | 30,0   | 31,0  | 32,0 | 29,0  | 29,0    | 31,0  | 32,0 | 28,0  | 28,0  | 30,0  | 31,0 | -   |         |  |
| 70  | 26,0  | 26,3    | 28,0  | 29,0 | 25,0  | 25,3   | 27,0  | 28,0 | 24,3  | 25,0    | 26,3  | 27,4 | 23,0  | 24,0  | 25,3  | 26,3 | -   |         |  |
| 74  | 22,0  | 22,6    | 24,0  | 25,0 | 21,3  | 22,0   | 23,0  | 24,0 | 20,3  | 21,3    | 22,6  | 23,0 | 19,3  | 20,3  | 22,0  | 22,0 | -   |         |  |
| 78  | 19,0  | 19,0    | 21,0  | 21,0 | 18,0  | 18,0   | 20,0  | 20,0 | 17,0  | 18,0    | 19,0  | 20,0 | 16,0  | 17,0  | 18,0  | 19,0 | -   |         |  |
| 82  | 15,6  | 16,3    | 17,6  | 18,3 | 14,6  | 15,3   | 16,6  | 17,3 | 14,3  | 14,6    | 16,3  | 16,6 | 13,0  | 13,8  | 15,3  | 15,6 | -   |         |  |
| 86  | 13,3  | 13,5    | 14,6  | 15,6 | 12,4  | 12,0   | 13,5  | 14,4 | 11,6  | 11,4    | 13,6  | 13,5 | 10,6  | 10,6  | 12,4  | 13,0 | -   |         |  |
| 90  | 11,0  | 11,0    | 12,0  | 13,0 | 10,0  | 10,0   | 11,0  | 12,0 | 9,0   | 9,0     | 11,0  | 11,0 | 8,0   | 8,0   | 10,0  | 10,0 | -   |         |  |
| 94  | 9,0   | 9,0     | 10,0  | 10,2 | 8,0   | 8,0    | 9,0   | 9,3  | 7,0   | 7,0     | 8,3   | 9,0  | 6,0   | 6,0   | 7,3   | 8,0  | -   |         |  |
| 96  | 8,0   | 8,0     | 9,0   | 9,0  | 7,0   | 7,0    | 8,0   | 8,0  | 6,0   | 6,0     | 7,0   | 8,0  | 5,0   | 5,0   | 6,0   | 7,0  | -   |         |  |
| 97  | 7,5   | -       | 8,5   | 8,5  | 6,5   | 6,5    | 7,5   | 7,5  | 5,5   | 5,6     | 6,6   | 7,5  | -     | 5,0   | 5,6   | 6,5  | -   |         |  |
| 98  | 7,0   | -       | 8,0   | 8,0  | 6,0   | 6,0    | 7,0   | 7,0  | 5,0   | 5,3     | 6,2   | 7,0  | -     | -     | 5,3   | 6,0  | -   |         |  |
| 99  | 6,5   | -       | 7,5   | 7,5  | 5,5   | -      | 6,5   | 6,5  | -     | 5,0     | 5,8   | 6,5  | -     | -     | 5,0   | 5,5  | -   |         |  |
| 100 | 6,0   | -       | 7,0   | 7,0  | 5,0   | -      | 6,0   | 6,0  | -     | -       | 5,4   | 6,0  | -     | -     | -     | 5,0  | -   |         |  |
| 101 | -     | -       | 6,5   | -    | -     | -      | 5,5   | 5,5  | -     | -       | 5,0   | 5,5  | -     | -     | -     | -    | -   |         |  |
| 102 | -     | -       | 6,0   | -    | -     | -      | 5,0   | 5,0  | -     | -       | -     | 5,0  | -     | -     | -     | -    | -   |         |  |
| 103 | -     | -       | 5,5   | -    | -     | -      | 5,0   | 5,0  | -     | -       | -     | -    | -     | -     | -     | -    | -   |         |  |
| 104 | -     | -       | 5,0   | -    | -     | -      | -     | -    | -     | -       | -     | -    | -     | -     | -     | -    | -   |         |  |

130 t 170 t 210 t 250 t

# Operation

SH/LH+LF3\_S3

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|   15-21 m  9,60 m  9.8 m/s           360°           EN13000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |      |       |       |       |      |       |       |       |       |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|----|
|  110 m  113 m  116 m  119 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |       |      |       |       |       |      |       |       |       |       |    |
|  15 m  21 m  15 m  21 m  15 m                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |       |       |      |       |       |       |      |       |       |       |       |    |
|  15°  20°  15°  20°  15°  20°  15°  20°  15°  20° |       |       |       |      |       |       |       |      |       |       |       |       |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | t     | t     | t     | t    | t     | t     | t     | t    | t     | t     | t     | t     | m  |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 144,0 | -     | -     | -    | 137,0 | -     | -     | -    | 132,0 | -     | 126,0 | -     | 17 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 142,0 | 136,0 | -     | -    | 134,0 | 132,0 | -     | -    | 129,0 | 124,0 | 123,0 | -     | 18 |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 140,0 | 134,0 | 118,0 | -    | 132,0 | 130,0 | 115,0 | -    | 127,0 | 124,0 | 121,0 | 117,0 | 19 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 138,0 | 132,0 | 116,0 | 93,0 | 129,0 | 129,0 | 113,0 | -    | 124,0 | 122,0 | 119,0 | 115,0 | 20 |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 136,0 | 130,5 | 114,5 | 92,0 | 127,0 | 127,5 | 112,0 | 93,0 | 122,0 | 120,5 | 117,0 | 114,0 | 21 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 134,0 | 129,0 | 113,0 | 91,0 | 125,0 | 126,0 | 111,0 | 91,0 | 120,0 | 119,0 | 115,0 | 113,0 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 131,0 | 126,0 | 110,0 | 88,0 | 121,0 | 122,0 | 108,0 | 89,0 | 116,0 | 116,0 | 111,0 | 110,0 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 126,0 | 122,0 | 107,0 | 85,0 | 117,0 | 118,0 | 106,0 | 86,0 | 113,0 | 113,0 | 108,0 | 108,0 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 116,0 | 118,0 | 104,0 | 83,0 | 112,0 | 114,0 | 103,0 | 83,0 | 108,0 | 110,0 | 104,0 | 105,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 107,0 | 108,0 | 100,0 | 80,0 | 105,0 | 106,0 | 100,0 | 81,0 | 103,0 | 105,0 | 99,0  | 102,0 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 92,0  | 93,0  | 92,0  | 76,0 | 90,0  | 91,0  | 90,0  | 76,0 | 88,0  | 90,0  | 87,0  | 88,0  | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 79,0  | 80,0  | 80,0  | 71,0 | 77,0  | 79,0  | 78,0  | 72,0 | 76,0  | 77,0  | 75,0  | 76,0  | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 69,0  | 70,0  | 69,5  | 67,5 | 67,5  | 68,5  | 68,0  | 67,5 | 66,5  | 67,5  | 64,5  | 65,5  | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 60,0  | 61,0  | 61,0  | 61,5 | 59,0  | 59,5  | 59,0  | 61,0 | 58,0  | 58,5  | 56,0  | 57,0  | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 52,5  | 53,5  | 53,5  | 54,5 | 51,5  | 51,5  | 52,0  | 53,5 | 50,5  | 50,5  | 48,5  | 49,5  | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 45,5  | 46,0  | 47,0  | 48,0 | 44,5  | 44,5  | 46,0  | 47,0 | 43,5  | 44,0  | 42,0  | 43,0  | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 38,5  | 39,0  | 41,0  | 42,0 | 37,5  | 38,0  | 40,0  | 41,0 | 36,6  | 38,0  | 36,0  | 37,0  | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 32,8  | 33,0  | 35,0  | 36,2 | 31,6  | 32,6  | 34,3  | 35,0 | 31,3  | 32,3  | 30,3  | 31,3  | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 28,0  | 28,0  | 30,0  | 31,0 | 27,0  | 27,0  | 29,0  | 30,0 | 26,0  | 27,0  | 25,0  | 26,0  | 66 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 23,0  | 24,0  | 25,3  | 26,3 | 22,0  | 23,0  | 24,2  | 25,3 | 22,0  | 22,0  | 21,0  | 21,0  | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 19,3  | 20,0  | 21,2  | 22,0 | 18,3  | 19,0  | 20,3  | 21,3 | 18,0  | 18,3  | 17,0  | 17,3  | 74 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 16,0  | 16,0  | 18,0  | 18,0 | 15,0  | 15,0  | 17,0  | 18,0 | 14,0  | 15,0  | 13,0  | 14,0  | 78 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 13,0  | 13,0  | 14,6  | 15,3 | 11,5  | 12,3  | 13,8  | 14,6 | 11,6  | 11,5  | 10,3  | 10,6  | 82 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10,6  | 10,6  | 12,2  | 12,0 | 9,0   | 9,6   | 10,6  | 11,6 | 8,6   | 8,6   | 7,6   | 7,6   | 86 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8,0   | 8,0   | 9,0   | 10,0 | 7,0   | 7,0   | 8,0   | 9,0  | 6,0   | 6,0   | 5,0   | 5,0   | 90 |
| 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7,5   | 7,5   | 8,5   | 9,3  | 6,3   | 6,5   | 7,5   | 8,3  | 5,5   | 5,6   | -     | 5,0   | 91 |
| 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7,0   | 7,0   | 8,0   | 8,6  | 5,6   | 6,0   | 7,0   | 7,6  | 5,0   | 5,3   | -     | -     | 92 |
| 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6,5   | 6,5   | 7,5   | 8,0  | 5,0   | 5,5   | 6,5   | 7,0  | -     | 5,0   | -     | -     | 93 |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6,0   | 6,0   | 7,0   | 7,3  | -     | 5,0   | 6,0   | 6,3  | -     | -     | -     | -     | 94 |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5,0   | 5,0   | 6,0   | 6,0  | -     | -     | 5,0   | 5,0  | -     | -     | -     | -     | 96 |
| 97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | 5,6   | 5,6  | -     | -     | 5,0   | 5,0  | -     | -     | -     | -     | 97 |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | 5,3   | 5,3  | -     | -     | -     | -    | -     | -     | -     | -     | 98 |
| 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | 5,0   | 5,0  | -     | -     | -     | -    | -     | -     | -     | -     | 99 |

|                                                                                     |       |       |       |       |
|-------------------------------------------------------------------------------------|-------|-------|-------|-------|
|  | 130 t | 170 t | 210 t | 250 t |
|-------------------------------------------------------------------------------------|-------|-------|-------|-------|

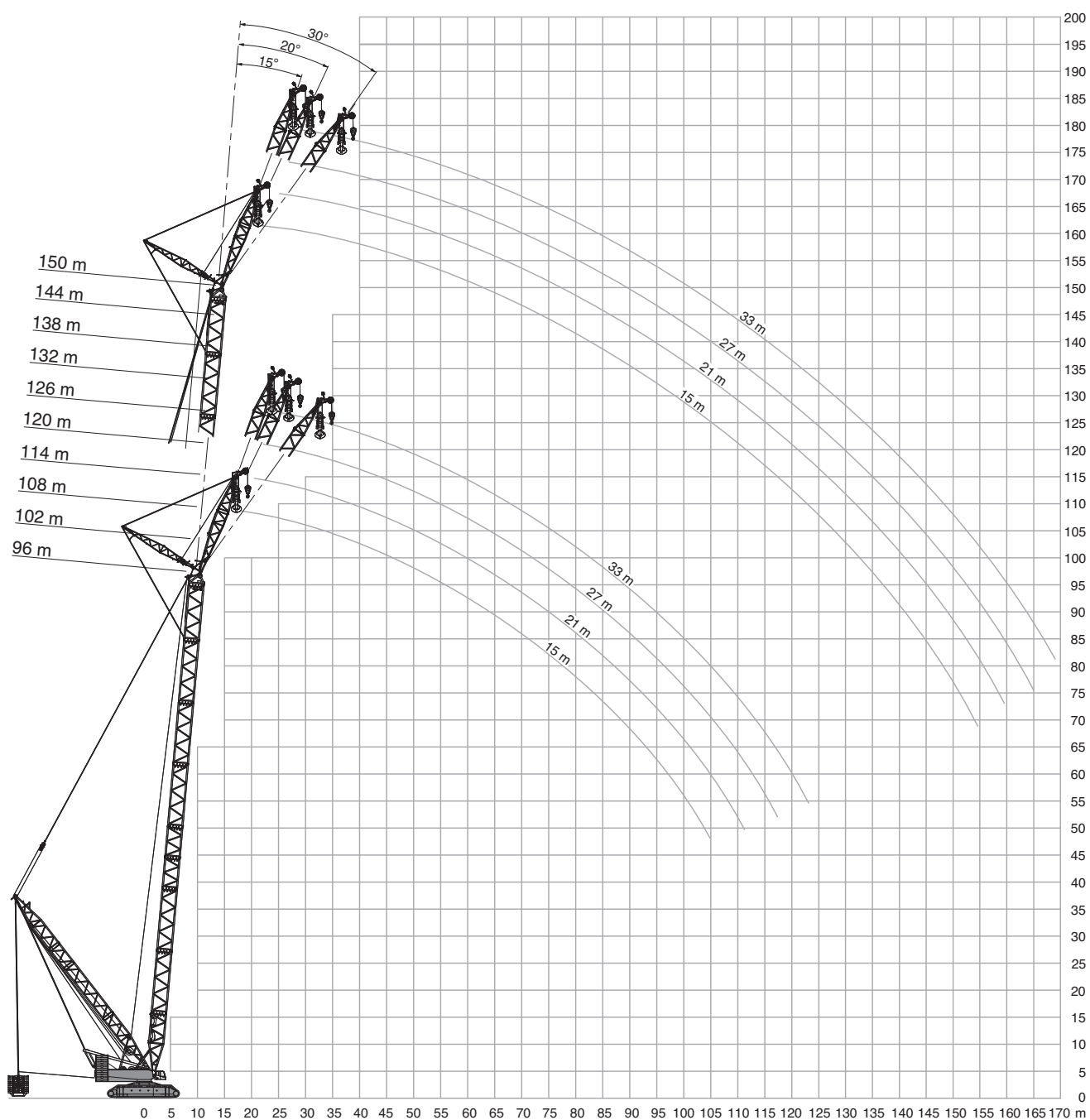
## Notes

Notizen · Notes · Nota · Notas · Notas · пометы, комментарии, примечания

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SSL+LF, SSL/LSL+LF**  
**SSL/LSL S1+LF**





# Operation

SSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  250 t +  80 t  15-33 m  15-24 m  9,60 m  9.8 m/s 360° EN13000                                                                                                                                                                                                                                      |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |   |   |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|---|---|----|
|  15 m  21 m  27 m  33 m                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |   |   |    |
|  0 t  0-450 t  0 t  0-450 t  0 t  0-450 t  0 t  0-450 t                                                                         |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |   |   |    |
|  15°  20°  30°  15°  20°  30°  15°  20°  30° |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |   |   |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t     | t    | t | t | m  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 250,0 | 250,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | - | - | 14 |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 250,0 | 250,0 | 250,0 | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | - | - | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 250,0 | 250,0 | 250,0 | -     | 236,0 | 239,0 | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | - | - | 16 |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 250,0 | 250,0 | 250,0 | 160,0 | 236,0 | 239,0 | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | - | - | 17 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 250,0 | 250,0 | 247,0 | 160,0 | 230,0 | 233,0 | 187,0 | -     | 179,0 | 186,0 | -     | -    | -     | -     | -     | -    | - | - | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 232,0 | 250,0 | 238,0 | 156,0 | 217,0 | 220,0 | 179,0 | -     | 179,0 | 181,0 | 142,0 | -    | 143,0 | 148,0 | -     | -    | - | - | 20 |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 220,5 | 250,0 | 232,5 | 154,0 | 211,5 | 214,5 | 175,0 | 113,0 | 174,0 | 176,0 | 140,5 | -    | 143,0 | 146,0 | -     | -    | - | - | 21 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 209,0 | 250,0 | 227,0 | 152,0 | 206,0 | 209,0 | 171,0 | 113,0 | 169,0 | 171,0 | 139,0 | -    | 143,0 | 144,0 | -     | -    | - | - | 22 |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 199,0 | 250,0 | 222,5 | 150,0 | 197,0 | 204,0 | 167,5 | 111,0 | 165,0 | 167,0 | 136,0 | -    | 139,5 | 140,5 | 111,0 | -    | - | - | 23 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 189,0 | 250,0 | 218,0 | 148,0 | 188,0 | 199,0 | 164,0 | 109,0 | 161,0 | 163,0 | 133,0 | 86,0 | 136,0 | 137,0 | 111,0 | -    | - | - | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 170,0 | 249,0 | 210,0 | 144,0 | 171,0 | 189,0 | 157,0 | 106,0 | 154,0 | 155,0 | 127,0 | 84,5 | 129,0 | 130,0 | 106,0 | -    | - | - | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 152,0 | 246,0 | 202,0 | 140,0 | 155,0 | 181,0 | 151,0 | 103,0 | 147,0 | 148,0 | 122,0 | 82,0 | 123,0 | 124,0 | 102,0 | 66,5 | - | - | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 142,0 | 236,0 | 195,0 | 137,0 | 139,0 | 174,0 | 146,0 | 100,0 | 140,0 | 142,0 | 117,0 | 79,5 | 118,0 | 119,0 | 98,0  | 65,5 | - | - | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 116,0 | 217,0 | 182,0 | 130,0 | 118,0 | 160,0 | 136,0 | 95,0  | 117,0 | 130,0 | 108,0 | 75,5 | 108,0 | 109,0 | 90,0  | 61,5 | - | - | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 96,5  | 201,0 | 171,0 | 124,0 | 99,0  | 149,0 | 127,0 | 90,0  | 101,0 | 120,0 | 100,0 | 71,0 | 100,0 | 100,0 | 83,5  | 57,5 | - | - | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81,0  | 188,0 | 161,5 | 118,5 | 83,2  | 138,5 | 119,0 | 86,2  | 85,5  | 111,0 | 94,0  | 67,2 | 86,7  | 92,5  | 77,7  | 54,5 | - | - | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 68,2  | 177,0 | 153,0 | 114,0 | 70,2  | 130,0 | 112,0 | 82,7  | 72,5  | 103,5 | 88,2  | 64,0 | 73,5  | 86,0  | 72,7  | 51,5 | - | - | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 57,7  | 167,5 | 146,0 | 110,5 | 59,5  | 122,0 | 106,0 | 79,5  | 61,5  | 96,7  | 83,2  | 61,2 | 62,5  | 80,2  | 68,2  | 48,9 | - | - | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 48,9  | 158,5 | 139,5 | 107,5 | 50,4  | 115,0 | 100,5 | 76,5  | 52,4  | 91,0  | 78,7  | 58,7 | 53,4  | 75,0  | 64,2  | 46,8 | - | - | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 41,2  | 150,5 | 133,5 | 104,5 | 42,8  | 109,0 | 95,7  | 73,7  | 44,7  | 86,0  | 74,7  | 56,5 | 45,6  | 70,5  | 61,0  | 44,8 | - | - | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 34,6  | 143,5 | 128,5 | 102,3 | 36,2  | 103,5 | 91,7  | 71,5  | 37,9  | 81,5  | 71,5  | 54,5 | 38,8  | 66,7  | 58,0  | 43,1 | - | - | 62 |
| 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 33,1  | 141,7 | 127,2 | 102,0 | 34,6  | 102,2 | 90,8  | 71,0  | 36,3  | 80,5  | 70,7  | 54,0 | 37,2  | 65,8  | 57,2  | 42,7 | - | - | 63 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 28,9  | 137,5 | 124,0 | -     | 30,4  | 98,7  | 88,2  | 69,7  | 32,0  | 77,5  | 68,5  | 52,7 | 32,9  | 63,2  | 55,2  | 41,5 | - | - | 66 |
| 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 25,1  | 133,7 | 121,0 | -     | 26,5  | 95,6  | 85,8  | 68,5  | 28,1  | 74,7  | 66,3  | 51,6 | 28,8  | 60,8  | 53,5  | 40,5 | - | - | 69 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 23,9  | 132,5 | 120,0 | -     | 25,3  | 94,7  | 85,2  | -     | 26,9  | 74,0  | 65,7  | 51,2 | 27,6  | 60,2  | 53,0  | 40,2 | - | - | 70 |
| 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 22,7  | 131,2 | 119,0 | -     | 24,1  | 93,8  | 84,6  | -     | 25,7  | 73,2  | 65,1  | 50,8 | 26,4  | 59,6  | 52,5  | 39,9 | - | - | 71 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 19,5  | 128,0 | -     | -     | 20,8  | 91,2  | 82,7  | -     | 22,3  | 71,0  | 63,5  | 50,1 | 23,0  | 57,7  | 51,0  | 39,1 | - | - | 74 |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -     | -     | -     | 19,7  | 90,3  | 82,1  | -     | 21,2  | 70,2  | 63,0  | 50,0 | 21,9  | 57,1  | 50,5  | 38,8 | - | - | 75 |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -     | -     | -     | 17,7  | 88,8  | 81,0  | -     | 19,2  | 68,8  | 62,0  | -    | 19,9  | 55,8  | 49,6  | 38,4 | - | - | 77 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -     | -     | -     | 16,8  | 88,2  | -     | -     | 18,3  | 68,2  | 61,5  | -    | 19,0  | 55,2  | 49,2  | 38,2 | - | - | 78 |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -     | -     | -     | 15,0  | 87,0  | -     | -     | 16,4  | 67,0  | 60,5  | -    | 17,1  | 54,0  | 48,4  | 37,8 | - | - | 80 |
| 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -     | -     | -     | -     | -     | -     | -     | 15,5  | 66,5  | 60,1  | -    | 16,2  | 53,5  | 48,0  | 37,6 | - | - | 81 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -     | -     | -     | -     | -     | -     | -     | 14,7  | 66,0  | 59,8  | -    | 15,3  | 53,0  | 47,7  | -    | - | - | 82 |
| 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -     | -     | -     | -     | -     | -     | -     | 13,8  | 65,5  | 59,5  | -    | 14,4  | 52,5  | 47,3  | -    | - | - | 83 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -     | -     | -     | -     | -     | -     | -     | 11,4  | 64,5  | -     | -    | 12,0  | 51,2  | 46,4  | -    | - | - | 86 |
| 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 10,5  | 50,5  | 45,9  | -    | - | - | 88 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 9,1   | 50,1  | -     | -    | - | - | 90 |
| 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 8,4   | 49,9  | -     | -    | - | - | 91 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

SSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  250 t +  80 t  15-33 m  15-24 m  9,60 m  9.8 m/s 360° EN13000 |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---------|-------|-------|-------|-------|-------|---------|-------|-------|------|-------|-------|---------|------|----|
| 72 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |    |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       | 21 m    |       |       | 27 m  |       |       | 33 m    |       |       |      |       |       |         |      |    |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 0-450 t |       |       | 0 t   |       |       | 0-450 t |       |       | 0 t  |       |       | 0-450 t |      |    |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 20°     |       |       | 30°   |       |       | 15°     |       |       | 20°  |       |       | 30°     |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | t     | t     | t       | t     | t     | t     | t     | t     | t       | t     | t     | t    | t     | t     | t       | t    | m  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 14 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | 250,0   | -     | 232,0 | 243,0 | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | 249,0   | 158,0 | 232,0 | 236,0 | 185,0 | -     | 181,0   | 183,0 | -     | -    | -     | -     | -       | -    | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 224,0 | 250,0 | 242,0   | 156,0 | 220,0 | 223,0 | 181,0 | -     | 181,0   | 183,0 | -     | -    | 144,0 | 146,0 | -       | -    | 20 |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 212,5 | 250,0 | 237,0   | 154,5 | 210,0 | 218,0 | 177,0 | 113,0 | 176,5   | 178,5 | 140,0 | -    | 144,0 | 146,0 | -       | -    | 21 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 201,0 | 250,0 | 232,0   | 153,0 | 200,0 | 213,0 | 173,0 | 113,0 | 172,0   | 174,0 | 140,0 | -    | 144,0 | 146,0 | -       | -    | 22 |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 191,5 | 250,0 | 227,5   | 151,0 | 190,5 | 208,0 | 169,5 | 111,5 | 168,0   | 170,0 | 137,0 | -    | 140,5 | 142,5 | 110,0   | -    | 23 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 182,0 | 250,0 | 223,0   | 149,0 | 181,0 | 203,0 | 166,0 | 110,0 | 164,0   | 166,0 | 134,0 | -    | 137,0 | 139,0 | 110,0   | -    | 24 |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 173,5 | 249,5 | 218,5   | 147,5 | 173,0 | 198,5 | 163,0 | 108,5 | 160,0   | 162,0 | 131,5 | 85,5 | 134,0 | 135,5 | 108,5   | -    | 25 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 165,0 | 249,0 | 214,0   | 146,0 | 165,0 | 194,0 | 160,0 | 107,0 | 156,0   | 158,0 | 129,0 | 85,5 | 131,0 | 132,0 | 107,0   | -    | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 148,0 | 248,0 | 207,0   | 142,0 | 151,0 | 186,0 | 154,0 | 104,0 | 150,0   | 151,0 | 124,0 | 83,0 | 125,0 | 127,0 | 103,0   | 66,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 138,0 | 243,0 | 200,0   | 139,0 | 136,0 | 178,0 | 149,0 | 101,0 | 139,0   | 145,0 | 120,0 | 80,5 | 120,0 | 121,0 | 99,5    | 66,0 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 113,0 | 225,0 | 187,0   | 132,0 | 115,0 | 165,0 | 139,0 | 96,5  | 113,0   | 134,0 | 111,0 | 76,5 | 111,0 | 112,0 | 92,0    | 62,0 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 93,0  | 209,0 | 176,0   | 126,0 | 95,5  | 154,0 | 131,0 | 92,0  | 98,0    | 124,0 | 103,0 | 72,5 | 95,5  | 103,0 | 85,5    | 58,5 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 77,5  | 195,5 | 166,5   | 121,5 | 79,7  | 143,5 | 122,5 | 87,7  | 82,2    | 115,0 | 96,7  | 68,7 | 83,7  | 95,5  | 79,7    | 55,0 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 64,7  | 183,5 | 158,0   | 117,0 | 66,7  | 134,5 | 115,5 | 84,2  | 69,0    | 107,0 | 91,0  | 65,5 | 70,5  | 88,7  | 74,7    | 52,2 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 54,2  | 174,0 | 150,5   | 113,0 | 56,0  | 126,5 | 109,0 | 81,0  | 58,0    | 100,2 | 86,0  | 62,5 | 59,5  | 82,7  | 70,2    | 49,9 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 45,2  | 165,5 | 144,0   | 109,5 | 46,9  | 119,5 | 103,5 | 78,2  | 48,9    | 94,7  | 81,5  | 59,7 | 50,2  | 77,7  | 66,2    | 47,7 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 37,6  | 157,0 | 138,5   | 106,5 | 39,3  | 113,0 | 99,0  | 75,5  | 41,2    | 89,5  | 77,5  | 57,5 | 42,3  | 73,2  | 62,7    | 45,6 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 31,0  | 149,5 | 133,5   | 104,0 | 32,6  | 107,5 | 95,0  | 73,0  | 34,4    | 84,7  | 73,7  | 55,5 | 35,5  | 69,2  | 59,7    | 43,9 | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 25,2  | 143,0 | 128,5   | 102,0 | 26,8  | 103,0 | 91,2  | 71,0  | 28,5    | 80,5  | 70,5  | 53,7 | 29,5  | 65,7  | 57,0    | 42,3 | 66 |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 22,6  | 140,0 | 126,0   | 101,0 | 24,1  | 101,0 | 89,5  | 70,0  | 25,8    | 78,5  | 69,0  | 53,0 | 26,7  | 64,0  | 55,5    | 41,6 | 68 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20,2  | 137,5 | 124,0   | -     | 21,7  | 98,7  | 88,0  | 69,2  | 23,3    | 77,0  | 67,7  | 52,2 | 24,2  | 62,5  | 54,5    | 40,9 | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 15,8  | 132,5 | 120,5   | -     | 17,1  | 94,7  | 85,2  | 68,0  | 18,7    | 74,0  | 65,5  | 51,0 | 19,6  | 59,7  | 52,5    | 39,7 | 74 |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13,7  | 130,0 | 119,0   | -     | 15,0  | 93,0  | 84,0  | -     | 16,6    | 72,5  | 64,5  | 50,5 | 17,4  | 58,5  | 51,5    | 39,2 | 76 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 11,8  | 124,0 | -       | -     | 13,1  | 91,5  | 82,7  | -     | 14,7    | 71,0  | 63,5  | 50,0 | 15,4  | 57,2  | 50,6    | 38,7 | 78 |
| 79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10,9  | 121,0 | -       | -     | 12,2  | 90,7  | 82,1  | -     | 13,7    | 70,2  | 63,0  | 49,8 | 14,4  | 56,6  | 50,2    | 38,5 | 79 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | 9,6   | 88,7  | 81,0  | -     | 11,0    | 68,5  | 61,5  | -    | 11,8  | 55,0  | 49,0    | 37,9 | 82 |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | 7,1   | 87,0  | -     | -     | 8,5     | 67,0  | 60,1  | -    | 9,3   | 53,6  | 47,8    | 37,4 | 85 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | 7,8     | 66,5  | 59,8  | -    | 8,5   | 53,2  | 47,5    | -    | 86 |
| 87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | 7,0     | 66,0  | 59,5  | -    | 7,7   | 52,8  | 47,2    | -    | 87 |
| 89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | 5,6     | 65,1  | -     | -    | 6,2   | 52,0  | 46,6    | -    | 89 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | 64,8  | -     | -    | 5,5   | 51,5  | 46,4    | -    | 90 |
| 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | 64,5  | -     | -    | -     | 51,0  | 46,1    | -    | 91 |
| 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 50,3  | 45,7    | -    | 93 |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 50,1  | -       | -    | 94 |
| 97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 49,5  | -       | -    | 97 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

SSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  250 t +  80 t  15-33 m  15-24 m  9,60 m  9.8 m/s 360° EN13000 |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---------|-------|-------|-------|-------|-------|---------|-------|-------|------|-------|-------|---------|------|-----|
| 78 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |     |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       | 21 m    |       |       | 27 m  |       |       | 33 m    |       |       |      |       |       |         |      |     |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 0-450 t |       |       | 0 t   |       |       | 0-450 t |       |       | 0 t  |       |       | 0-450 t |      |     |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 20°     |       |       | 30°   |       |       | 15°     |       |       | 20°  |       |       | 30°     |      |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | t     | t     | t       | t     | t     | t     | t     | t     | t       | t     | t     | t    | t     | t     | t       | t    | m   |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 15  |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | 250,0   | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 16  |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | 250,0   | -     | 229,0 | 238,0 | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 17  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 242,0 | 250,0 | 250,0   | 158,0 | 229,0 | 238,0 | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 18  |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 228,0 | 250,0 | 248,0   | 158,0 | 226,0 | 232,0 | 182,0 | -     | 178,0   | 185,0 | -     | -    | -     | -     | -       | -    | 19  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 216,0 | 250,0 | 244,0   | 157,0 | 214,0 | 226,0 | 182,0 | -     | 178,0   | 185,0 | -     | -    | -     | -     | -       | -    | 20  |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 205,0 | 250,0 | 239,5   | 155,0 | 203,5 | 221,5 | 178,5 | -     | 176,0   | 180,5 | 141,0 | -    | 142,0 | 147,0 | -       | -    | 21  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 194,0 | 250,0 | 235,0   | 153,0 | 193,0 | 217,0 | 175,0 | 112,0 | 174,0   | 176,0 | 141,0 | -    | 142,0 | 147,0 | -       | -    | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 175,0 | 250,0 | 226,0   | 150,0 | 175,0 | 207,0 | 169,0 | 111,0 | 166,0   | 168,0 | 136,0 | -    | 139,0 | 140,0 | 110,0   | -    | 24  |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 167,0 | 250,0 | 222,0   | 148,5 | 167,0 | 202,5 | 165,5 | 109,5 | 162,5   | 164,5 | 133,0 | 84,5 | 136,0 | 137,0 | 109,0   | -    | 25  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 159,0 | 250,0 | 218,0   | 147,0 | 159,0 | 198,0 | 162,0 | 108,0 | 159,0   | 161,0 | 130,0 | 84,5 | 133,0 | 134,0 | 108,0   | -    | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 145,0 | 248,0 | 211,0   | 144,0 | 145,0 | 189,0 | 157,0 | 105,0 | 146,0   | 154,0 | 126,0 | 83,5 | 127,0 | 128,0 | 104,0   | -    | 28  |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 137,5 | 247,0 | 207,5   | 142,5 | 139,0 | 185,5 | 154,0 | 103,5 | 140,0   | 151,0 | 123,5 | 82,2 | 124,5 | 125,5 | 102,5   | 66,0 | 29  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 130,0 | 246,0 | 204,0   | 141,0 | 133,0 | 182,0 | 151,0 | 102,0 | 134,0   | 148,0 | 121,0 | 81,0 | 122,0 | 123,0 | 101,0   | 66,0 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 110,0 | 231,0 | 192,0   | 134,0 | 108,0 | 169,0 | 142,0 | 97,5  | 111,0   | 137,0 | 113,0 | 77,0 | 113,0 | 114,0 | 93,5    | 62,5 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 90,0  | 215,0 | 181,0   | 129,0 | 92,5  | 158,0 | 134,0 | 93,0  | 95,5    | 127,0 | 106,0 | 73,5 | 93,0  | 106,0 | 87,0    | 59,0 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 74,7  | 200,5 | 171,0   | 123,5 | 77,0  | 148,0 | 126,0 | 89,2  | 79,7    | 118,5 | 99,0  | 69,7 | 79,5  | 98,2  | 81,5    | 56,0 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 61,7  | 189,0 | 162,0   | 119,0 | 64,0  | 139,0 | 119,0 | 85,7  | 66,5    | 110,5 | 93,2  | 66,5 | 67,7  | 91,5  | 76,5    | 53,0 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 51,2  | 179,0 | 154,5   | 115,0 | 53,1  | 131,5 | 113,0 | 82,5  | 55,5    | 104,0 | 88,2  | 63,5 | 56,5  | 85,7  | 72,0    | 50,5 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 42,2  | 171,0 | 148,0   | 111,5 | 44,1  | 124,5 | 107,5 | 79,7  | 46,2    | 98,0  | 83,7  | 60,7 | 47,3  | 80,5  | 68,0    | 48,4 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 34,5  | 164,0 | 142,5   | 108,5 | 36,3  | 118,0 | 102,5 | 77,2  | 38,3    | 92,5  | 79,7  | 58,5 | 39,5  | 75,7  | 64,5    | 46,4 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 27,9  | 156,5 | 137,5   | 106,0 | 29,6  | 112,0 | 98,0  | 74,7  | 31,5    | 87,7  | 76,2  | 56,5 | 32,6  | 71,7  | 61,5    | 44,6 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 22,1  | 149,5 | 132,5   | 103,5 | 23,7  | 107,0 | 94,2  | 72,5  | 25,5    | 83,5  | 73,0  | 54,7 | 26,6  | 68,2  | 58,7    | 43,0 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 17,1  | 143,5 | 128,0   | 101,5 | 18,6  | 102,5 | 90,7  | 70,7  | 20,3    | 79,7  | 70,0  | 53,2 | 21,3  | 65,0  | 56,2    | 41,6 | 70  |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 14,7  | 141,0 | 126,0   | 101,0 | 16,2  | 100,0 | 89,0  | 70,0  | 17,9    | 78,0  | 68,5  | 52,5 | 18,8  | 63,5  | 55,0    | 41,0 | 72  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12,6  | 137,5 | 124,0   | -     | 14,0  | 98,2  | 87,7  | 69,2  | 15,7    | 76,5  | 67,2  | 51,7 | 16,6  | 62,0  | 54,0    | 40,4 | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8,7   | 126,5 | 120,5   | -     | 10,0  | 95,0  | 85,2  | 68,0  | 11,6    | 73,5  | 65,0  | 50,5 | 12,4  | 59,2  | 52,0    | 39,3 | 78  |
| 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5,9   | 116,0 | 116,0   | -     | 7,2   | 92,7  | 83,5  | -     | 8,8     | 71,5  | 63,6  | 49,8 | 9,6   | 57,5  | 50,6    | 38,5 | 81  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5,1   | 114,0 | -       | -     | 6,3   | 92,0  | 83,0  | -     | 7,9     | 71,0  | 63,2  | 49,7 | 8,7   | 57,0  | 50,2    | 38,3 | 82  |
| 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 112,0 | -       | -     | 5,5   | 91,2  | 82,5  | -     | 7,0     | 70,2  | 62,8  | 49,5 | 7,8   | 56,5  | 49,8    | 38,1 | 83  |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 110,0 | -       | -     | -     | 90,5  | 82,0  | -     | 6,2     | 69,5  | 62,5  | 49,4 | 7,0   | 56,0  | 49,5    | 37,9 | 84  |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 89,8  | 81,5  | -     | 5,4     | 69,0  | 62,0  | -    | 6,2   | 55,5  | 49,1    | 37,7 | 85  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 89,2  | 81,0  | -     | -       | 68,5  | 61,5  | -    | 5,4   | 55,0  | 48,8    | 37,6 | 86  |
| 87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 88,6  | 80,5  | -     | -       | 68,0  | 61,0  | -    | -     | 54,5  | 48,4    | 37,4 | 87  |
| 89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 87,5  | -     | -     | -       | 67,0  | 60,2  | -    | -     | 53,6  | 47,7    | 37,1 | 89  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 87,0  | -     | -     | -       | 66,5  | 60,0  | -    | -     | 53,2  | 47,4    | -    | 90  |
| 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | 65,5  | 59,5  | -    | -     | 52,5  | 46,8    | -    | 92  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | 64,7  | -     | -    | -     | 51,7  | 46,3    | -    | 94  |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | 64,0  | -     | -    | -     | 51,0  | 45,8    | -    | 96  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 50,4  | 45,4    | -    | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 49,3  | -       | -    | 102 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

SSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  250 t +  80 t  15-33 m  15-24 m  9,60 m  9.8 m/s 360° EN13000 |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---------|-------|-------|-------|-------|-------|---------|-------|-------|------|-------|-------|---------|------|-----|
|  84 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |     |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       | 21 m    |       |       | 27 m  |       |       | 33 m    |       |       |      |       |       |         |      |     |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 0-450 t |       |       | 0 t   |       |       | 0-450 t |       |       | 0 t  |       |       | 0-450 t |      |     |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 20°     |       |       | 30°   |       |       | 15°     |       |       | 20°  |       |       | 30°     |      |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | t     | t     | t       | t     | t     | t     | t     | t     | t       | t     | t     | t    | t     | t     | t       | t    | m   |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 15  |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 16  |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 247,0 | 250,0 | 250,0   | -     | 231,0 | 240,0 | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 17  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 233,0 | 250,0 | 250,0   | -     | 230,0 | 240,0 | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 18  |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 220,0 | 250,0 | 250,0   | 157,0 | 218,0 | 234,0 | 184,0 | -     | 176,0   | 182,0 | -     | -    | -     | -     | -       | -    | 19  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 208,0 | 250,0 | 246,0   | 157,0 | 206,0 | 229,0 | 184,0 | -     | 176,0   | 182,0 | -     | -    | -     | -     | -       | -    | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 186,0 | 250,0 | 238,0   | 154,0 | 186,0 | 219,0 | 177,0 | 113,0 | 176,0   | 178,0 | 139,0 | -    | 140,0 | 145,0 | -       | -    | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 168,0 | 250,0 | 229,0   | 151,0 | 168,0 | 210,0 | 171,0 | 111,0 | 168,0   | 170,0 | 137,0 | -    | 140,0 | 142,0 | 109,0   | -    | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 153,0 | 250,0 | 222,0   | 148,0 | 153,0 | 202,0 | 165,0 | 108,0 | 153,0   | 163,0 | 132,0 | 85,0 | 134,0 | 136,0 | 109,0   | -    | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 139,0 | 250,0 | 215,0   | 145,0 | 140,0 | 194,0 | 159,0 | 106,0 | 140,0   | 157,0 | 127,0 | 84,0 | 129,0 | 130,0 | 105,0   | -    | 28  |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 133,0 | 248,5 | 212,0   | 143,5 | 134,0 | 190,0 | 156,5 | 104,5 | 134,0   | 154,0 | 125,0 | 82,7 | 126,5 | 127,5 | 103,5   | 65,5 | 29  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 127,0 | 247,0 | 209,0   | 142,0 | 128,0 | 186,0 | 154,0 | 103,0 | 128,0   | 151,0 | 123,0 | 81,5 | 124,0 | 125,0 | 102,0   | 65,5 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 106,0 | 237,0 | 196,0   | 136,0 | 105,0 | 173,0 | 145,0 | 98,5  | 108,0   | 140,0 | 115,0 | 78,0 | 109,0 | 116,0 | 95,0    | 63,0 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 86,5  | 222,0 | 185,0   | 131,0 | 89,5  | 162,0 | 137,0 | 94,5  | 88,0    | 131,0 | 108,0 | 74,0 | 90,0  | 108,0 | 88,5    | 59,5 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 71,2  | 208,5 | 175,5   | 126,0 | 73,7  | 152,5 | 129,5 | 90,7  | 76,2    | 122,0 | 101,2 | 70,7 | 76,5  | 100,7 | 83,2    | 56,5 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 58,2  | 196,0 | 167,0   | 121,5 | 60,5  | 143,5 | 122,5 | 87,2  | 63,0    | 114,0 | 95,7  | 67,5 | 64,7  | 94,2  | 78,2    | 53,7 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 47,6  | 185,5 | 159,0   | 117,0 | 49,7  | 135,0 | 116,0 | 84,0  | 52,0    | 107,0 | 90,5  | 64,5 | 53,5  | 88,2  | 73,7    | 51,2 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 38,6  | 176,5 | 152,0   | 113,5 | 40,6  | 128,0 | 110,5 | 81,2  | 42,8    | 101,2 | 86,0  | 61,7 | 44,2  | 83,0  | 69,7    | 49,0 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30,9  | 169,0 | 146,5   | 110,5 | 32,8  | 122,0 | 105,5 | 78,7  | 34,9    | 95,7  | 82,0  | 59,5 | 36,2  | 78,2  | 66,2    | 47,1 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 24,3  | 162,5 | 141,5   | 107,5 | 26,0  | 116,0 | 101,0 | 76,2  | 28,0    | 90,7  | 78,2  | 57,5 | 29,2  | 74,0  | 63,0    | 45,3 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 18,5  | 155,5 | 136,5   | 105,0 | 20,1  | 110,5 | 97,2  | 74,0  | 22,1    | 86,5  | 75,0  | 55,7 | 23,2  | 70,2  | 60,2    | 43,7 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13,4  | 149,0 | 132,0   | 103,0 | 15,0  | 106,0 | 93,7  | 72,0  | 16,8    | 82,7  | 72,0  | 54,2 | 17,9  | 67,0  | 57,7    | 42,3 | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8,9   | 142,5 | 128,0   | 101,5 | 10,4  | 102,0 | 90,5  | 70,2  | 12,2    | 79,2  | 69,2  | 52,7 | 13,2  | 64,0  | 55,5    | 41,0 | 74  |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6,8   | 139,0 | 126,0   | 101,0 | 8,3   | 100,0 | 89,0  | 69,5  | 10,0    | 77,5  | 68,0  | 52,0 | 11,0  | 62,5  | 54,5    | 40,4 | 76  |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5,8   | 135,0 | 124,5   | -     | 7,3   | 99,2  | 88,3  | 69,2  | 9,0     | 76,8  | 67,5  | 51,7 | 10,0  | 61,8  | 54,0    | 40,1 | 77  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 131,3 | 123,0   | -     | 6,3   | 98,5  | 87,6  | 69,0  | 8,0     | 76,1  | 67,0  | 51,5 | 9,0   | 61,2  | 53,5    | 39,8 | 78  |
| 79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 127,6 | 122,0   | -     | 5,4   | 97,5  | 87,0  | 68,5  | 7,0     | 75,5  | 66,5  | 51,2 | 8,0   | 60,6  | 53,0    | 39,5 | 79  |
| 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 120,5 | 118,5   | -     | -     | 95,7  | 85,5  | 68,0  | 5,2     | 74,0  | 65,5  | 50,6 | 6,1   | 59,5  | 52,0    | 39,0 | 81  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 117,0 | 116,0   | -     | -     | 95,0  | 85,0  | 67,5  | -       | 73,3  | 65,0  | 50,3 | 5,2   | 59,0  | 51,5    | 38,8 | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 103,5 | 104,0   | -     | -     | 92,0  | 83,0  | -     | -       | 70,7  | 63,0  | 49,6 | -     | 56,5  | 49,9    | 38,0 | 86  |
| 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 100,0 | -       | -     | -     | 90,5  | 82,0  | -     | -       | 69,5  | 62,0  | 49,2 | -     | 55,5  | 49,3    | 37,6 | 88  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 96,5  | -       | -     | -     | 89,5  | 81,0  | -     | -       | 68,5  | 61,2  | -    | -     | 54,7  | 48,6    | 37,3 | 90  |
| 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 89,0  | 80,5  | -     | -       | 68,0  | 60,8  | -    | -     | 54,3  | 48,2    | 37,1 | 91  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 87,5  | -     | -     | -       | 66,7  | 60,0  | -    | -     | 53,0  | 47,3    | 36,8 | 94  |
| 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 87,0  | -     | -     | -       | 66,3  | 59,7  | -    | -     | 52,5  | 47,0    | -    | 95  |
| 97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | 65,6  | 59,0  | -    | -     | 51,7  | 46,4    | -    | 97  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | 65,2  | -     | -    | -     | 51,5  | 46,2    | -    | 98  |
| 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | 64,0  | -     | -    | -     | 50,7  | 45,6    | -    | 101 |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 50,4  | 45,4    | -    | 102 |
| 103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 50,1  | 45,2    | -    | 103 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 49,4  | -       | -    | 106 |
| 107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 49,2  | -       | -    | 107 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

SSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  250 t +  80 t  15-33 m  15-24 m  9,60 m  9.8 m/s 360° EN13000 |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---------|-------|-------|-------|-------|-------|---------|-------|-------|------|-------|-------|---------|------|-----|
| 90 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |     |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       | 21 m    |       |       | 27 m  |       |       | 33 m    |       |       |      |       |       |         |      |     |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 0-450 t |       |       | 0 t   |       |       | 0-450 t |       |       | 0 t  |       |       | 0-450 t |      |     |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 20°     |       |       | 30°   |       |       | 15°     |       |       | 20°  |       |       | 30°     |      |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | t     | t     | t       | t     | t     | t     | t     | t     | t       | t     | t     | t    | t     | t     | t       | t    | m   |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 16  |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 238,0 | 250,0 | 249,0   | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 17  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 224,0 | 250,0 | 249,0   | -     | 223,0 | 236,0 | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 18  |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 211,0 | 250,0 | 249,0   | 157,0 | 210,0 | 236,0 | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 19  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 200,0 | 250,0 | 249,0   | 157,0 | 199,0 | 231,0 | 182,0 | -     | 177,0   | 183,0 | -     | -    | -     | -     | -       | -    | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 179,0 | 250,0 | 240,0   | 154,0 | 179,0 | 221,0 | 178,0 | -     | 177,0   | 179,0 | 140,0 | -    | 141,0 | 143,0 | -       | -    | 22  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 170,5 | 250,0 | 236,0   | 152,5 | 170,5 | 217,0 | 175,0 | 112,0 | 169,5   | 175,5 | 139,0 | -    | 141,0 | 143,0 | -       | -    | 23  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 162,0 | 250,0 | 232,0   | 151,0 | 162,0 | 213,0 | 172,0 | 112,0 | 162,0   | 172,0 | 138,0 | -    | 141,0 | 143,0 | -       | -    | 24  |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 154,5 | 250,0 | 228,5   | 149,5 | 154,5 | 209,0 | 169,5 | 110,5 | 155,0   | 168,5 | 135,5 | -    | 138,0 | 140,0 | 110,0   | -    | 25  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 147,0 | 250,0 | 225,0   | 148,0 | 147,0 | 205,0 | 167,0 | 109,0 | 148,0   | 165,0 | 133,0 | 84,5 | 135,0 | 137,0 | 110,0   | -    | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 134,0 | 250,0 | 217,0   | 146,0 | 134,0 | 197,0 | 161,0 | 107,0 | 135,0   | 159,0 | 129,0 | 84,5 | 130,0 | 132,0 | 106,0   | -    | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 122,0 | 249,0 | 211,0   | 143,0 | 123,0 | 189,0 | 156,0 | 104,0 | 124,0   | 153,0 | 125,0 | 82,0 | 124,0 | 127,0 | 103,0   | 66,0 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 99,0  | 242,0 | 199,0   | 138,0 | 102,0 | 177,0 | 147,0 | 99,5  | 105,0   | 143,0 | 117,0 | 78,5 | 105,0 | 118,0 | 96,5    | 63,5 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 83,5  | 227,0 | 189,0   | 133,0 | 86,5  | 166,0 | 139,0 | 95,5  | 85,5    | 133,0 | 110,0 | 75,0 | 87,5  | 110,0 | 90,0    | 60,0 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 68,2  | 214,0 | 179,5   | 128,0 | 70,7  | 156,0 | 132,0 | 91,7  | 71,5    | 125,0 | 103,5 | 71,5 | 73,5  | 103,5 | 84,7    | 57,0 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 55,2  | 202,0 | 170,5   | 123,5 | 57,5  | 147,0 | 125,5 | 88,5  | 60,0    | 117,5 | 97,5  | 68,5 | 62,0  | 96,7  | 79,7    | 54,2 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 44,6  | 191,0 | 162,5   | 119,0 | 46,7  | 139,0 | 119,0 | 85,5  | 49,1    | 110,5 | 92,7  | 65,5 | 50,9  | 90,7  | 75,2    | 51,7 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 35,5  | 181,5 | 156,0   | 115,5 | 37,6  | 132,0 | 113,5 | 82,7  | 39,9    | 104,0 | 88,2  | 62,7 | 41,4  | 85,5  | 71,2    | 49,6 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 27,8  | 173,5 | 150,0   | 112,5 | 29,7  | 126,0 | 108,5 | 80,0  | 31,9    | 98,5  | 84,0  | 60,5 | 33,3  | 80,7  | 67,7    | 47,8 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 21,1  | 167,0 | 145,0   | 109,5 | 22,9  | 120,0 | 104,0 | 77,5  | 25,0    | 93,7  | 80,2  | 58,5 | 26,3  | 76,5  | 64,5    | 46,0 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 15,3  | 161,0 | 141,0   | 107,0 | 17,0  | 114,5 | 100,0 | 75,2  | 19,0    | 89,5  | 77,0  | 56,5 | 20,2  | 72,7  | 61,7    | 44,3 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10,2  | 153,5 | 136,5   | 105,0 | 11,8  | 110,0 | 96,2  | 73,0  | 13,7    | 85,5  | 74,0  | 54,7 | 14,9  | 69,2  | 59,2    | 42,9 | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5,7   | 143,0 | 132,0   | 103,3 | 7,2   | 105,6 | 93,0  | 71,3  | 9,1     | 81,8  | 71,2  | 53,2 | 10,2  | 66,0  | 56,7    | 41,6 | 74  |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 138,0 | 130,0   | 102,0 | 5,1   | 103,0 | 91,5  | 70,5  | 6,9     | 80,0  | 70,0  | 52,5 | 8,0   | 64,5  | 55,5    | 41,0 | 76  |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 135,2 | 129,0   | 101,7 | -     | 102,2 | 90,7  | 70,2  | 5,9     | 79,5  | 69,5  | 52,3 | 6,9   | 64,0  | 55,0    | 40,7 | 77  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 132,5 | 128,0   | 101,5 | -     | 101,5 | 90,0  | 70,0  | -       | 78,6  | 68,8  | 52,1 | 5,9   | 63,3  | 54,5    | 40,4 | 78  |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 127,0 | 126,0   | 101,0 | -     | 100,0 | 88,5  | 69,0  | -       | 77,0  | 67,5  | 51,5 | -     | 62,0  | 53,5    | 39,9 | 80  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 120,5 | 120,5   | -     | -     | 98,2  | 87,2  | 68,5  | -       | 75,7  | 66,5  | 51,0 | -     | 60,7  | 52,7    | 39,4 | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 108,0 | 108,5   | -     | -     | 95,0  | 85,0  | 67,5  | -       | 73,2  | 64,5  | 50,1 | -     | 58,5  | 51,0    | 38,4 | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 96,0  | 96,3    | -     | -     | 92,2  | 83,0  | -     | -       | 70,7  | 62,7  | 49,3 | -     | 56,5  | 49,5    | 37,6 | 90  |
| 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 93,0  | 93,5    | -     | -     | 91,6  | 82,5  | -     | -       | 70,1  | 62,3  | 49,1 | -     | 56,0  | 49,2    | 37,4 | 91  |
| 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 91,0  | -       | -     | -     | 91,0  | 82,0  | -     | -       | 69,5  | 62,0  | 49,0 | -     | 55,5  | 49,0    | 37,3 | 92  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 88,0  | -       | -     | -     | 88,5  | 81,2  | -     | -       | 68,5  | 61,3  | -    | -     | 54,5  | 48,3    | 37,0 | 94  |
| 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 86,5  | -       | -     | -     | 87,2  | 80,8  | -     | -       | 68,0  | 61,0  | -    | -     | 54,0  | 48,0    | 36,9 | 95  |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 86,0  | 80,5  | -     | -       | 67,5  | 60,5  | -    | -     | 53,5  | 47,7    | 36,8 | 96  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 83,0  | -     | -     | -       | 66,7  | 60,1  | -    | -     | 53,0  | 47,1    | 36,5 | 98  |
| 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | 78,0  | -     | -     | -       | 65,6  | 59,2  | -    | -     | 51,7  | 46,3    | -    | 101 |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | 65,2  | 59,0  | -    | -     | 51,5  | 46,1    | -    | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | 64,0  | -     | -    | -     | 50,4  | 45,3    | -    | 106 |
| 108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 49,9  | 45,0    | -    | 108 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 49,4  | -       | -    | 110 |
| 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 49,0  | -       | -    | 112 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|



# Operation

SSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div> <div>250 t +  80 t</div> <div> 15-33 m</div> <div> 15-24 m</div> <div> 9,60 m</div> <div> 9.8 m/s</div> <div>360°</div> <div>EN13000</div> </div> |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-----|
| <div> <div>15 m</div> <div>21 m</div> <div>27 m</div> <div>33 m</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
| <div> <div>0 t</div> <div>0-450 t</div> <div>0 t</div> <div>0-450 t</div> <div>0 t</div> <div>0-450 t</div> <div>0 t</div> <div>0-450 t</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                           |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
| <div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> </div>                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t     | t    | m   |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 243,0 | 250,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 16  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 215,0 | 250,0 | 249,0 | -     | 214,0 | 232,0 | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 18  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 192,0 | 250,0 | 248,0 | 156,0 | 192,0 | 232,0 | 183,0 | -     | -     | -     | -     | -    | -     | -     | -     | -    | 20  |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 182,0 | 250,0 | 245,0 | 155,5 | 182,0 | 227,5 | 181,5 | -     | 174,0 | 181,0 | -     | -    | -     | -     | -     | -    | 21  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 172,0 | 250,0 | 242,0 | 155,0 | 172,0 | 223,0 | 180,0 | -     | 173,0 | 181,0 | -     | -    | -     | -     | -     | -    | 22  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 163,5 | 250,0 | 238,5 | 153,5 | 164,0 | 219,0 | 177,0 | 111,0 | 164,5 | 177,5 | 139,0 | -    | 139,0 | 144,0 | -     | -    | 23  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 155,0 | 250,0 | 235,0 | 152,0 | 156,0 | 215,0 | 174,0 | 111,0 | 156,0 | 174,0 | 139,0 | -    | 139,0 | 144,0 | -     | -    | 24  |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 148,0 | 250,0 | 231,5 | 150,5 | 148,5 | 211,0 | 171,0 | 110,5 | 149,0 | 170,5 | 136,5 | -    | 137,5 | 141,0 | 108,0 | -    | 25  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 141,0 | 250,0 | 228,0 | 149,0 | 141,0 | 207,0 | 168,0 | 110,0 | 142,0 | 167,0 | 134,0 | -    | 136,0 | 138,0 | 108,0 | -    | 26  |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 134,5 | 250,0 | 224,5 | 148,0 | 135,0 | 203,5 | 165,5 | 108,5 | 136,0 | 164,0 | 132,0 | 84,5 | 133,0 | 135,5 | 107,5 | -    | 27  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 128,0 | 250,0 | 221,0 | 147,0 | 129,0 | 200,0 | 163,0 | 107,0 | 130,0 | 161,0 | 130,0 | 84,5 | 130,0 | 133,0 | 107,0 | -    | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 117,0 | 250,0 | 215,0 | 144,0 | 117,0 | 192,0 | 158,0 | 105,0 | 119,0 | 155,0 | 126,0 | 82,5 | 119,0 | 128,0 | 103,0 | 65,5 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 96,0  | 244,0 | 203,0 | 140,0 | 99,0  | 180,0 | 149,0 | 100,0 | 100,0 | 145,0 | 119,0 | 79,0 | 100,0 | 120,0 | 97,5  | 63,5 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 80,5  | 232,0 | 192,0 | 134,0 | 79,5  | 169,0 | 141,0 | 96,5  | 82,5  | 136,0 | 112,0 | 75,5 | 84,5  | 112,0 | 91,5  | 60,5 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 64,7  | 218,5 | 182,5 | 129,5 | 67,2  | 159,5 | 134,5 | 93,2  | 68,5  | 128,0 | 105,5 | 72,2 | 68,7  | 105,5 | 86,0  | 57,5 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 51,7  | 206,5 | 174,0 | 125,0 | 54,2  | 150,5 | 128,0 | 89,7  | 57,0  | 120,5 | 99,7  | 69,0 | 57,0  | 99,0  | 81,2  | 54,7 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 41,0  | 195,0 | 166,5 | 121,0 | 43,4  | 142,5 | 122,0 | 86,7  | 45,9  | 113,5 | 95,0  | 66,2 | 47,5  | 93,0  | 76,7  | 52,2 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 31,9  | 185,5 | 159,5 | 117,5 | 34,1  | 135,5 | 116,5 | 84,0  | 36,5  | 107,0 | 90,2  | 63,7 | 38,2  | 87,5  | 72,7  | 50,1 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 24,2  | 177,5 | 153,0 | 114,5 | 26,2  | 129,0 | 111,5 | 81,2  | 28,5  | 101,5 | 86,0  | 61,5 | 30,0  | 82,7  | 69,2  | 48,3 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 17,5  | 171,0 | 147,5 | 111,5 | 19,4  | 123,0 | 106,5 | 78,7  | 21,6  | 96,7  | 82,2  | 59,5 | 23,0  | 78,5  | 66,0  | 46,5 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 11,6  | 163,0 | 143,0 | 109,0 | 13,5  | 118,0 | 102,0 | 76,5  | 15,6  | 92,2  | 79,0  | 57,5 | 16,9  | 74,7  | 63,2  | 44,9 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6,5   | 152,0 | 139,6 | 107,0 | 8,2   | 113,5 | 98,6  | 74,5  | 10,3  | 88,0  | 76,0  | 55,7 | 11,5  | 71,2  | 60,7  | 43,5 | 70  |
| 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5,3   | 149,0 | 139,0 | 106,5 | 7,0   | 112,2 | 98,0  | 74,0  | 9,0   | 87,0  | 75,2  | 55,3 | 10,2  | 70,3  | 60,1  | 43,1 | 71  |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 146,0 | 138,0 | 106,0 | 5,8   | 111,0 | 97,0  | 73,5  | 7,8   | 86,0  | 74,5  | 55,0 | 9,0   | 69,5  | 59,5  | 42,8 | 72  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 140,5 | 135,5 | 105,0 | -     | 109,0 | 95,5  | 72,5  | 5,5   | 84,5  | 73,1  | 54,3 | 6,7   | 68,0  | 58,2  | 42,1 | 74  |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 137,7 | 134,2 | 104,5 | -     | 108,0 | 94,7  | 72,0  | -     | 83,5  | 72,5  | 54,0 | 5,6   | 67,2  | 57,6  | 41,8 | 75  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 130,0 | 129,0 | 103,0 | -     | 105,0 | 92,5  | 70,7  | -     | 81,0  | 70,5  | 52,7 | -     | 65,2  | 56,0  | 40,9 | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 120,5 | 121,0 | 101,0 | -     | 101,2 | 89,5  | 69,5  | -     | 78,0  | 68,2  | 51,5 | -     | 62,7  | 54,0  | 39,9 | 82  |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 113,0 | 114,0 | 100,0 | -     | 98,7  | 87,5  | 68,6  | -     | 75,8  | 66,5  | 50,7 | -     | 60,8  | 52,6  | 39,1 | 85  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 110,0 | 111,0 | -     | -     | 98,0  | 87,0  | 68,2  | -     | 75,2  | 66,0  | 50,5 | -     | 60,2  | 52,2  | 38,9 | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 98,5  | 99,2  | -     | -     | 95,0  | 85,0  | 67,0  | -     | 72,7  | 64,3  | 49,7 | -     | 58,0  | 50,7  | 38,1 | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 87,5  | 88,1  | -     | -     | 91,0  | 83,0  | -     | -     | 70,5  | 62,7  | 49,1 | -     | 56,0  | 49,4  | 37,3 | 94  |
| 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 84,7  | 85,5  | -     | -     | 89,7  | 82,5  | -     | -     | 70,0  | 62,3  | 48,9 | -     | 55,5  | 49,0  | 37,2 | 95  |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 82,0  | -     | -     | -     | 88,5  | 82,0  | -     | -     | 69,5  | 62,0  | 48,7 | -     | 55,0  | 48,7  | 37,0 | 96  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 79,2  | -     | -     | -     | 83,5  | 80,7  | -     | -     | 68,5  | 61,2  | -    | -     | 54,5  | 48,1  | 36,7 | 98  |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | 76,5  | -     | -     | -     | 78,5  | 79,5  | -     | -     | 67,5  | 60,5  | -    | -     | 53,5  | 47,5  | 36,5 | 100 |
| 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | 76,2  | 77,0  | -     | -     | 67,1  | 60,2  | -    | -     | 53,2  | 47,2  | 36,4 | 101 |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | 75,0  | -     | -     | -     | 66,7  | 60,0  | -    | -     | 53,0  | 47,0  | 36,3 | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | 69,0  | -     | -     | -     | 65,2  | 58,8  | -    | -     | 51,5  | 46,0  | -    | 106 |
| 107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -     | 64,8  | 58,5  | -    | -     | 51,2  | 45,8  | -    | 107 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -     | 63,5  | -     | -    | -     | 50,4  | 45,2  | -    | 110 |
| 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -     | 62,5  | -     | -    | -     | 49,9  | 44,9  | -    | 112 |
| 113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 49,7  | 44,7  | -    | 113 |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 49,5  | -     | -    | 114 |
| 117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 48,9  | -     | -    | 117 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

## SSL/LSL S1+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  250 t +  80 t  15-33 m  15-24 m  9,60 m  9.8 m/s 360° EN13000 |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---------|-------|-------|-------|-------|-------|---------|-------|-------|------|-------|-------|---------|------|----|
| 66 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |    |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       | 21 m    |       |       | 27 m  |       |       | 33 m    |       |       |      |       |       |         |      |    |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 0-450 t |       |       | 0 t   |       |       | 0-450 t |       |       | 0 t  |       |       | 0-450 t |      |    |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 20°     |       |       | 30°   |       |       | 15°     |       |       | 20°  |       |       | 30°     |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | t     | t     | t       | t     | t     | t     | t     | t     | t       | t     | t     | t    | t     | t     | t       | t    | m  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 14 |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | 250,0   | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | 250,0   | -     | 239,0 | 249,0 | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 16 |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | 248,5   | 161,0 | 235,0 | 241,5 | 188,0 | -     | -       | -     | -     | -    | -     | -     | -       | -    | 17 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | 247,0   | 161,0 | 231,0 | 235,0 | 188,0 | -     | 185,0   | 188,0 | -     | -    | -     | -     | -       | -    | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 236,0 | 250,0 | 239,0   | 156,0 | 219,0 | 222,0 | 179,0 | 115,0 | 181,0   | 182,0 | 142,0 | -    | 148,0 | 150,0 | -       | -    | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 214,5 | 250,0 | 229,0   | 152,5 | 205,0 | 211,5 | 171,5 | 112,0 | 171,5   | 173,0 | 137,5 | -    | 142,5 | 144,0 | 111,0   | -    | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 193,0 | 250,0 | 219,0   | 149,0 | 191,0 | 201,0 | 164,0 | 109,0 | 163,0   | 164,0 | 133,0 | 86,5 | 137,0 | 138,0 | 111,0   | -    | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 175,0 | 248,0 | 210,5   | 145,0 | 175,0 | 191,5 | 158,0 | 106,0 | 155,5   | 156,5 | 128,0 | 84,5 | 130,5 | 131,5 | 106,5   | -    | 26 |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 166,0 | 247,0 | 206,2   | 143,0 | 167,0 | 186,7 | 155,0 | 104,5 | 151,7   | 152,7 | 125,5 | 83,5 | 127,2 | 128,2 | 104,2   | 67,0 | 27 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 157,0 | 246,0 | 202,0   | 141,0 | 159,0 | 182,0 | 152,0 | 103,0 | 148,0   | 149,0 | 123,0 | 82,5 | 124,0 | 125,0 | 102,0   | 67,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 145,0 | 236,5 | 195,5   | 137,0 | 147,0 | 175,0 | 146,5 | 100,2 | 140,0   | 143,0 | 118,5 | 80,0 | 119,0 | 120,0 | 98,5    | 65,5 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 122,0 | 218,5 | 183,0   | 130,0 | 123,5 | 161,5 | 136,5 | 95,0  | 123,0   | 132,0 | 110,0 | 75,5 | 109,5 | 110,5 | 91,7    | 62,0 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 102,2 | 203,0 | 171,5   | 124,0 | 103,5 | 149,5 | 127,5 | 90,5  | 105,5   | 122,0 | 102,7 | 71,7 | 101,2 | 102,2 | 85,7    | 58,5 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 86,8  | 190,0 | 161,6   | 118,6 | 88,1  | 139,6 | 119,6 | 86,6  | 90,1    | 113,3 | 96,6  | 68,3 | 90,6  | 95,3  | 80,5    | 55,6 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 73,5  | 178,0 | 153,0   | 114,0 | 74,5  | 131,0 | 113,0 | 83,0  | 76,5    | 106,0 | 91,0  | 65,0 | 77,0  | 89,0  | 75,5    | 53,0 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 63,1  | 168,6 | 146,3   | 110,6 | 64,5  | 123,6 | 107,6 | 79,6  | 66,1    | 100,0 | 86,3  | 62,3 | 66,6  | 83,3  | 71,1    | 50,8 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 54,1  | 160,0 | 140,0   | 107,3 | 55,5  | 117,0 | 102,8 | 76,8  | 57,0    | 94,6  | 82,0  | 60,0 | 57,5  | 78,3  | 67,3    | 48,7 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 46,5  | 152,0 | 134,0   | 104,0 | 47,6  | 111,0 | 98,5  | 74,5  | 49,0    | 90,0  | 78,0  | 58,0 | 49,6  | 74,0  | 64,0    | 46,8 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 40,1  | 146,0 | 129,3   | 102,0 | 41,2  | 106,3 | 94,8  | 72,5  | 42,5    | 85,6  | 75,0  | 56,0 | 43,0  | 70,6  | 61,3    | 45,2 | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 34,4  | 140,3 | 125,3   | -     | 35,4  | 102,0 | 91,5  | 70,7  | 36,6    | 81,6  | 72,1  | 54,3 | 37,1  | 67,5  | 58,8    | 43,7 | 66 |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 31,8  | 137,6 | 123,6   | -     | 32,8  | 100,0 | 90,0  | 70,0  | 34,0    | 79,8  | 70,8  | 53,6 | 34,4  | 66,0  | 57,6    | 43,0 | 68 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 29,3  | 135,0 | 122,0   | -     | 30,2  | 98,0  | 88,5  | -     | 31,4    | 78,0  | 69,5  | 53,0 | 31,8  | 64,5  | 56,5    | 42,3 | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 25,0  | 131,0 | -       | -     | 25,9  | 94,6  | 85,8  | -     | 27,0    | 75,0  | 67,1  | 52,0 | 27,4  | 61,8  | 54,5    | 41,2 | 74 |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | 23,8  | 93,0  | 84,5  | -     | 24,8    | 73,5  | 66,0  | -    | 25,2  | 60,5  | 53,5    | 40,7 | 76 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | 21,9  | 91,7  | -     | -     | 23,0    | 72,3  | 65,1  | -    | 23,3  | 59,3  | 52,6    | 40,3 | 78 |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | 20,1  | 90,5  | -     | -     | 21,2    | 71,1  | 64,3  | -    | 21,4  | 58,1  | 51,8    | 39,9 | 80 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | 19,4    | 70,0  | 63,5  | -    | 19,6  | 57,0  | 51,0    | -    | 82 |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | 17,7    | 69,0  | -     | -    | 18,0  | 56,1  | 50,4    | -    | 84 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | 16,4  | 55,3  | 49,8    | -    | 86 |
| 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | 14,9  | 54,5  | 49,3    | -    | 88 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | 13,5  | 54,0  | -       | -    | 90 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

## SSL/LSL S1+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div><div><div><div></div><div>250 t +</div><div><div><div></div><div></div></div></div><div>80 t</div><div><div><div></div><div></div></div><div>15-33 m</div><div><div><div></div><div></div></div><div>15-24 m</div><div><div><div></div><div></div></div><div>9,60 m</div><div><div><div></div><div></div></div><div>9.8 m/s</div><div>360°</div><div>EN13000</div></div></div></div></div></div></div></div> |       |         |       |       |       |       |         |       |       |       |       |         |       |       |       |      |         |    |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-------|-------|-------|-------|---------|-------|-------|-------|-------|---------|-------|-------|-------|------|---------|----|-----|
| 72 m                                                                                                                                                                                                                                                                                                                                                                                                              |       |         |       |       |       |       |         |       |       |       |       |         |       |       |       |      |         |    |     |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                                              |       |         |       |       | 21 m  |       |         |       |       | 27 m  |       |         |       |       | 33 m  |      |         |    |     |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                               |       | 0-450 t |       |       | 0 t   |       | 0-450 t |       |       | 0 t   |       | 0-450 t |       |       | 0 t   |      | 0-450 t |    |     |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                               |       | 20°     |       | 30°   | 15°   |       | 20°     |       | 30°   | 15°   |       | 20°     |       | 30°   | 15°   |      | 20°     |    | 30° |
| m                                                                                                                                                                                                                                                                                                                                                                                                                 | t     | t       | t     | t     | t     | t     | t       | t     | t     | t     | t     | t       | t     | t     | t     | t    | t       | m  |     |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                | 250,0 | 250,0   | -     | -     | -     | -     | -       | -     | -     | -     | -     | -       | -     | -     | -     | -    | -       | 14 |     |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                | 250,0 | 250,0   | 250,0 | -     | -     | -     | -       | -     | -     | -     | -     | -       | -     | -     | -     | -    | -       | 15 |     |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                | 250,0 | 250,0   | 250,0 | -     | 235,0 | 245,0 | -       | -     | -     | -     | -     | -       | -     | -     | -     | -    | -       | 16 |     |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                | 250,0 | 250,0   | 248,0 | 161,0 | 235,0 | 238,0 | 186,0   | -     | 183,0 | 190,0 | -     | -       | -     | -     | -     | -    | -       | 18 |     |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                | 227,0 | 250,0   | 242,0 | 157,0 | 222,0 | 225,0 | 181,0   | -     | 183,0 | 185,0 | 144,0 | -       | 146,0 | 151,0 | -     | -    | -       | 20 |     |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                | 216,7 | 250,0   | 237,2 | 155,2 | 212,5 | 219,7 | 177,5   | 114,0 | 178,5 | 180,5 | 141,7 | -       | 144,2 | 148,2 | -     | -    | -       | 21 |     |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                | 206,5 | 250,0   | 232,5 | 153,5 | 203,0 | 214,5 | 174,0   | 112,6 | 174,0 | 176,0 | 139,5 | -       | 142,5 | 145,5 | -     | -    | -       | 22 |     |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                | 196,2 | 250,0   | 227,7 | 151,7 | 193,5 | 209,2 | 170,5   | 111,3 | 169,5 | 171,5 | 137,2 | -       | 140,7 | 142,7 | 112,0 | -    | -       | 23 |     |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                | 186,0 | 250,0   | 223,0 | 150,0 | 184,0 | 204,0 | 167,0   | 110,0 | 165,0 | 167,0 | 135,0 | 85,5    | 139,0 | 140,0 | 112,0 | -    | -       | 24 |     |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                | 169,5 | 250,0   | 215,0 | 146,5 | 169,0 | 195,5 | 161,0   | 107,0 | 158,0 | 160,0 | 130,0 | 84,2    | 132,5 | 134,0 | 108,0 | -    | -       | 26 |     |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                | 153,0 | 250,0   | 207,0 | 143,0 | 154,0 | 187,0 | 155,0   | 104,0 | 151,0 | 153,0 | 125,0 | 83,0    | 126,0 | 128,0 | 104,0 | 67,0 | -       | 28 |     |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                | 141,0 | 242,5   | 200,5 | 139,5 | 140,5 | 179,5 | 149,5   | 101,5 | 140,0 | 146,5 | 120,5 | 80,7    | 121,0 | 122,5 | 100,2 | 65,7 | -       | 30 |     |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                | 118,0 | 226,5   | 188,0 | 132,5 | 118,0 | 166,0 | 139,5   | 96,5  | 118,0 | 135,0 | 112,0 | 76,5    | 111,5 | 113,0 | 93,2  | 62,7 | -       | 34 |     |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                | 98,5  | 210,5   | 176,5 | 126,5 | 100,2 | 154,5 | 131,0   | 92,0  | 100,2 | 125,5 | 105,0 | 72,7    | 101,0 | 105,0 | 87,2  | 59,5 | -       | 38 |     |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                | 83,1  | 197,0   | 166,6 | 121,6 | 84,8  | 144,3 | 123,6   | 88,1  | 86,6  | 117,3 | 99,1  | 69,5    | 88,0  | 97,8  | 82,1  | 56,6 | -       | 42 |     |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                | 69,5  | 185,0   | 158,0 | 117,0 | 71,5  | 135,0 | 117,0   | 84,5  | 73,0  | 110,0 | 93,5  | 66,5    | 74,0  | 91,5  | 77,5  | 54,0 | -       | 46 |     |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                | 59,5  | 175,0   | 151,3 | 113,0 | 61,1  | 127,6 | 111,0   | 81,5  | 62,6  | 103,3 | 88,5  | 63,8    | 63,6  | 85,8  | 73,1  | 51,6 | -       | 50 |     |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                | 50,6  | 166,0   | 145,0 | 109,6 | 52,0  | 121,3 | 106,0   | 78,6  | 53,5  | 97,6  | 84,1  | 61,3    | 54,4  | 80,8  | 69,3  | 49,5 | -       | 54 |     |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                | 42,8  | 158,0   | 139,0 | 107,0 | 44,1  | 116,0 | 102,0   | 76,0  | 45,6  | 93,0  | 80,5  | 59,0    | 46,3  | 76,5  | 66,0  | 47,7 | -       | 58 |     |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                | 36,4  | 151,3   | 133,6 | 104,3 | 37,7  | 110,6 | 98,0    | 74,0  | 39,1  | 88,6  | 77,1  | 57,3    | 39,7  | 73,1  | 63,3  | 46,1 | -       | 62 |     |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                | 30,7  | 145,3   | 129,0 | 102,0 | 31,8  | 105,6 | 94,3    | 72,1  | 33,2  | 84,6  | 74,1  | 55,6    | 33,8  | 69,8  | 60,8  | 44,6 | -       | 66 |     |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                | 28,1  | 142,6   | 127,0 | 101,0 | 29,2  | 103,3 | 92,6    | 71,3  | 30,5  | 82,8  | 72,8  | 54,8    | 31,1  | 68,1  | 59,6  | 43,9 | -       | 68 |     |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                | 25,6  | 140,0   | 125,0 | -     | 26,6  | 101,0 | 91,0    | 70,5  | 27,9  | 81,0  | 71,5  | 54,0    | 28,5  | 66,5  | 58,5  | 43,3 | -       | 70 |     |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                | 23,4  | 138,0   | 123,6 | -     | 24,4  | 99,3  | 89,6    | 70,0  | 25,7  | 79,5  | 70,3  | 53,3    | 26,2  | 65,1  | 57,3  | 42,7 | -       | 72 |     |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                | 21,3  | 136,0   | 122,3 | -     | 22,2  | 97,6  | 88,3    | -     | 23,5  | 78,0  | 69,1  | 52,6    | 24,0  | 63,8  | 56,1  | 42,1 | -       | 74 |     |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                | 19,2  | 134,0   | 121,0 | -     | 20,1  | 96,0  | 87,0    | -     | 21,3  | 76,5  | 68,0  | 52,0    | 21,8  | 62,5  | 55,0  | 41,5 | -       | 76 |     |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                | 17,3  | 129,0   | -     | -     | 18,3  | 94,6  | 86,0    | -     | 19,4  | 75,1  | 67,0  | 52,0    | 19,9  | 61,3  | 54,1  | 41,0 | -       | 78 |     |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -       | -     | -     | 16,5  | 93,3  | 85,0    | -     | 17,5  | 73,8  | 66,0  | -       | 18,0  | 60,1  | 53,3  | 40,6 | -       | 80 |     |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -       | -     | -     | 14,7  | 92,0  | -       | -     | 15,7  | 72,5  | 65,0  | -       | 16,1  | 59,0  | 52,5  | 40,2 | -       | 82 |     |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -       | -     | -     | 13,0  | 91,0  | -       | -     | 14,1  | 71,5  | 64,2  | -       | 14,5  | 58,0  | 51,8  | 39,8 | -       | 84 |     |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -       | -     | -     | -     | -     | -       | -     | 12,6  | 70,5  | 63,5  | -       | 12,9  | 57,0  | 51,1  | -    | -       | 86 |     |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -       | -     | -     | -     | -     | -       | -     | 9,7   | 68,5  | -     | -       | 10,0  | 55,3  | 49,9  | -    | -       | 90 |     |
| 92                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -       | -     | -     | -     | -     | -       | -     | -     | -     | -     | -       | 8,6   | 54,6  | 49,4  | -    | -       | 92 |     |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -       | -     | -     | -     | -     | -       | -     | -     | -     | -     | -       | 7,3   | 54,0  | -     | -    | -       | 94 |     |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -       | -     | -     | -     | -     | -       | -     | -     | -     | -     | -       | 6,1   | 53,5  | -     | -    | -       | 96 |     |

0 t

80 t

160 t

240 t

320 t

400 t

450 t



0 t 80 t 160 t 240 t 320 t 400 t 450 t



# Operation

## SSL/LSL S1+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  250 t +  80 t  15-33 m  15-24 m  9,60 m  9.8 m/s 360° EN13000 |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---------|-------|-------|-------|-------|-------|---------|-------|-------|------|-------|-------|---------|------|-----|
| 78 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |     |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       | 21 m    |       |       | 27 m  |       |       | 33 m    |       |       |      |       |       |         |      |     |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 0-450 t |       |       | 0 t   |       |       | 0-450 t |       |       | 0 t  |       |       | 0-450 t |      |     |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 20°     |       |       | 30°   |       |       | 15°     |       |       | 20°  |       |       | 30°     |      |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | t     | t     | t       | t     | t     | t     | t     | t     | t       | t     | t     | t    | t     | t     | t       | t    | m   |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 15  |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | 250,0   | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 16  |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 247,5 | 250,0 | 250,0   | -     | 238,0 | 248,0 | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 17  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 245,0 | 250,0 | 250,0   | 160,0 | 238,0 | 242,0 | 188,0 | -     | -       | -     | -     | -    | -     | -     | -       | -    | 18  |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 232,0 | 250,0 | 247,5   | 159,0 | 227,5 | 236,0 | 186,5 | -     | 185,0   | 188,0 | -     | -    | -     | -     | -       | -    | 19  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 219,0 | 250,0 | 245,0   | 158,0 | 217,0 | 230,0 | 185,0 | -     | 185,0   | 188,0 | -     | -    | -     | -     | -       | -    | 20  |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 209,0 | 250,0 | 240,7   | 156,2 | 207,2 | 224,7 | 181,2 | -     | 181,0   | 183,7 | 143,0 | -    | 144,0 | 149,0 | -       | -    | 21  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 199,0 | 250,0 | 236,5   | 154,5 | 197,5 | 219,5 | 177,5 | 113,0 | 177,0   | 179,5 | 141,0 | -    | 143,0 | 146,6 | -       | -    | 22  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 189,0 | 250,0 | 232,2   | 152,7 | 187,7 | 214,2 | 173,7 | 112,5 | 173,0   | 175,2 | 139,0 | -    | 142,0 | 144,3 | 112,0   | -    | 23  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 179,0 | 250,0 | 228,0   | 151,0 | 178,0 | 209,0 | 170,0 | 112,0 | 169,0   | 171,0 | 137,0 | -    | 141,0 | 142,0 | 112,0   | -    | 24  |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 171,7 | 249,7 | 224,2   | 149,5 | 170,7 | 204,7 | 167,0 | 110,5 | 164,0   | 167,2 | 134,5 | 86,5 | 138,0 | 139,0 | 110,2   | -    | 25  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 164,5 | 249,5 | 220,5   | 148,0 | 163,5 | 200,5 | 164,0 | 109,0 | 159,0   | 163,5 | 132,0 | 85,6 | 135,0 | 136,0 | 108,5   | -    | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 150,0 | 249,0 | 213,0   | 145,0 | 149,0 | 192,0 | 158,0 | 106,0 | 149,0   | 156,0 | 127,0 | 84,0 | 129,0 | 130,0 | 105,0   | 67,0 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 138,5 | 245,5 | 206,0   | 141,5 | 136,5 | 185,0 | 153,0 | 103,5 | 138,0   | 150,0 | 123,0 | 82,0 | 124,0 | 125,0 | 101,7   | 66,0 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 115,5 | 234,0 | 193,5   | 135,0 | 115,0 | 171,5 | 143,5 | 98,5  | 116,0   | 139,0 | 115,0 | 78,0 | 112,5 | 115,5 | 95,2    | 63,5 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 95,5  | 218,5 | 182,5   | 129,5 | 97,5  | 160,0 | 135,0 | 94,0  | 98,0    | 129,5 | 108,0 | 74,2 | 97,2  | 107,5 | 89,2    | 60,5 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 80,3  | 204,6 | 172,6   | 124,6 | 82,1  | 150,3 | 127,6 | 90,1  | 84,1    | 121,3 | 102,1 | 71,0 | 82,8  | 100,8 | 84,1    | 57,6 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 67,0  | 192,0 | 164,0   | 120,0 | 68,5  | 141,0 | 121,0 | 86,5  | 70,5    | 114,0 | 96,5  | 68,0 | 71,5  | 94,5  | 79,5    | 55,0 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 56,6  | 182,0 | 156,0   | 116,0 | 58,1  | 133,0 | 115,0 | 83,5  | 60,1    | 107,3 | 91,5  | 65,3 | 60,8  | 88,8  | 75,5    | 52,6 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 47,6  | 173,0 | 149,0   | 112,3 | 49,0  | 126,0 | 109,6 | 80,6  | 50,9    | 101,5 | 87,1  | 62,8 | 51,5  | 83,8  | 71,6    | 50,6 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 39,9  | 165,0 | 143,0   | 109,0 | 41,2  | 120,0 | 105,0 | 78,0  | 42,8    | 96,5  | 83,5  | 60,5 | 43,6  | 79,5  | 68,0    | 48,9 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 33,5  | 158,3 | 138,3   | 106,3 | 34,7  | 114,6 | 101,3 | 75,6  | 36,2    | 92,1  | 80,1  | 58,8 | 37,0  | 75,8  | 65,3    | 47,2 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 27,7  | 152,0 | 133,6   | 104,0 | 28,8  | 109,6 | 97,6  | 73,6  | 30,3    | 88,1  | 77,0  | 57,1 | 31,0  | 72,3  | 62,8    | 45,7 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 22,6  | 146,0 | 129,0   | 102,0 | 23,6  | 105,0 | 94,0  | 72,0  | 25,0    | 84,5  | 74,0  | 55,5 | 25,6  | 69,0  | 60,5    | 44,4 | 70  |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20,4  | 143,0 | 127,3   | 101,0 | 21,4  | 103,1 | 92,6  | 71,3  | 22,7    | 82,8  | 72,8  | 54,8 | 23,3  | 67,6  | 59,3    | 43,7 | 72  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 18,2  | 140,0 | 125,6   | -     | 19,2  | 101,3 | 91,3  | 70,6  | 20,5    | 81,1  | 71,6  | 54,1 | 21,1  | 66,3  | 58,1    | 43,1 | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 14,3  | 130,3 | 123,0   | -     | 15,2  | 98,0  | 88,8  | 69,5  | 16,4    | 78,1  | 69,5  | 53,0 | 17,0  | 63,8  | 56,1    | 42,0 | 78  |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12,5  | 123,6 | 122,0   | -     | 13,4  | 96,5  | 87,6  | -     | 14,6    | 76,8  | 68,5  | 52,5 | 15,1  | 62,6  | 55,3    | 41,5 | 80  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10,8  | 118,0 | -       | -     | 11,6  | 95,0  | 86,5  | -     | 12,8    | 75,5  | 67,5  | 52,0 | 13,2  | 61,5  | 54,5    | 41,1 | 82  |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 9,2   | 114,0 | -       | -     | 10,0  | 93,8  | 85,5  | -     | 11,2    | 74,3  | 66,5  | -    | 11,6  | 60,5  | 53,6    | 40,7 | 84  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | 8,4   | 92,6  | 84,5  | -     | 9,6     | 73,1  | 65,5  | -    | 10,0  | 59,5  | 52,8    | 40,3 | 86  |
| 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | 6,9   | 91,5  | -     | -     | 8,0     | 72,0  | 64,5  | -    | 8,4   | 58,5  | 52,0    | 39,9 | 88  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | 5,6   | 90,5  | -     | -     | 6,6     | 71,0  | 64,0  | -    | 7,0   | 57,5  | 51,2    | -    | 90  |
| 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | 5,2     | 70,0  | 63,5  | -    | 5,6   | 56,5  | 50,5    | -    | 92  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | 69,0  | -     | -    | -     | 56,0  | 50,0    | -    | 94  |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | 68,5  | -     | -    | -     | 55,1  | 49,6    | -    | 96  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 54,3  | 49,3    | -    | 98  |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 53,5  | -       | -    | 100 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

## SSL/LSL S1+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  250 t +  80 t  15-33 m  15-24 m  9,60 m  9.8 m/s 360° EN13000 |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---------|-------|-------|-------|-------|-------|---------|-------|-------|------|-------|-------|---------|------|-----|
| 84 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |     |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       | 21 m    |       |       | 27 m  |       |       | 33 m    |       |       |      |       |       |         |      |     |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 0-450 t |       |       | 0 t   |       |       | 0-450 t |       |       | 0 t  |       |       | 0-450 t |      |     |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 20°     |       |       | 30°   |       |       | 15°     |       |       | 20°  |       |       | 30°     |      |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | t     | t     | t       | t     | t     | t     | t     | t     | t       | t     | t     | t    | t     | t     | t       | t    | m   |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 15  |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | 250,0   | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 16  |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 243,0 | 250,0 | 250,0   | -     | 234,0 | 244,0 | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 17  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 236,0 | 250,0 | 250,0   | -     | 234,0 | 244,0 | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 18  |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 223,5 | 250,0 | 248,5   | 160,0 | 221,5 | 238,0 | 186,0 | -     | 182,0   | 189,0 | -     | -    | -     | -     | -       | -    | 19  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 211,0 | 250,0 | 247,0   | 159,0 | 209,0 | 232,0 | 186,0 | -     | 182,0   | 189,0 | -     | -    | -     | -     | -       | -    | 20  |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 201,2 | 250,0 | 243,2   | 157,2 | 199,7 | 227,2 | 182,5 | -     | 179,2   | 185,0 | 144,0 | -    | 145,0 | 151,0 | -       | -    | 21  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 191,5 | 250,0 | 239,5   | 155,5 | 190,5 | 222,5 | 179,0 | 114,0 | 176,5   | 181,0 | 142,0 | -    | 144,0 | 148,6 | -       | -    | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 172,0 | 250,0 | 232,0   | 152,0 | 172,0 | 213,0 | 172,0 | 112,0 | 171,0   | 173,0 | 138,0 | -    | 142,0 | 144,0 | 112,0   | -    | 24  |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 165,0 | 250,0 | 228,2   | 150,5 | 164,7 | 208,7 | 169,2 | 110,7 | 164,0   | 169,5 | 135,7 | 86,0 | 139,2 | 141,0 | 110,7   | -    | 25  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 158,0 | 250,0 | 224,5   | 149,0 | 157,5 | 204,5 | 166,5 | 109,5 | 157,0   | 166,0 | 133,5 | 85,5 | 136,5 | 138,0 | 109,5   | -    | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 144,0 | 250,0 | 217,0   | 146,0 | 143,0 | 196,0 | 161,0 | 107,0 | 143,0   | 159,0 | 129,0 | 84,5 | 131,0 | 132,0 | 107,0   | -    | 28  |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 137,5 | 249,5 | 213,5   | 144,5 | 137,5 | 192,5 | 158,5 | 105,7 | 137,7   | 156,0 | 126,7 | 83,5 | 128,5 | 129,5 | 105,1   | 67,0 | 29  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 131,0 | 249,0 | 210,0   | 143,0 | 132,0 | 189,0 | 156,0 | 104,5 | 132,5   | 153,0 | 124,5 | 82,5 | 126,0 | 127,0 | 103,2   | 66,5 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 109,5 | 240,0 | 197,5   | 137,0 | 110,0 | 176,0 | 146,5 | 99,7  | 111,5   | 142,0 | 116,5 | 78,5 | 112,0 | 118,0 | 96,5    | 64,0 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92,2  | 224,5 | 187,0   | 131,5 | 92,2  | 164,5 | 138,0 | 95,5  | 94,5    | 132,5 | 110,0 | 75,0 | 94,2  | 110,0 | 90,7    | 61,0 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 76,6  | 210,6 | 177,3   | 126,6 | 78,6  | 154,3 | 130,6 | 91,6  | 81,0    | 124,3 | 104,3 | 72,0 | 79,8  | 103,0 | 85,6    | 58,1 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 63,0  | 198,0 | 168,0   | 122,0 | 65,0  | 145,0 | 124,0 | 88,0  | 67,0    | 117,0 | 99,0  | 69,0 | 68,5  | 97,0  | 81,0    | 55,5 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 53,0  | 187,3 | 160,6   | 118,0 | 54,8  | 137,0 | 118,0 | 85,0  | 56,6    | 110,3 | 94,0  | 66,3 | 57,8  | 91,3  | 77,0    | 53,5 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 44,1  | 178,3 | 154,0   | 114,3 | 45,7  | 130,0 | 112,6 | 82,1  | 47,4    | 104,5 | 89,5  | 63,8 | 48,4  | 86,3  | 73,3    | 51,6 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 36,2  | 171,0 | 148,0   | 111,0 | 37,7  | 124,0 | 108,0 | 79,5  | 39,4    | 99,5  | 85,5  | 61,5 | 40,3  | 82,0  | 70,0    | 49,8 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 29,8  | 164,3 | 142,6   | 108,3 | 31,2  | 118,6 | 104,0 | 77,1  | 32,8    | 95,1  | 82,1  | 59,8 | 33,7  | 78,0  | 67,0    | 48,1 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 24,0  | 158,0 | 137,6   | 106,0 | 25,3  | 113,6 | 100,3 | 75,1  | 26,8    | 91,0  | 79,0  | 58,1 | 27,6  | 74,5  | 64,3    | 46,6 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 18,8  | 152,0 | 133,0   | 104,0 | 20,0  | 109,0 | 97,0  | 73,5  | 21,5    | 87,0  | 76,0  | 56,5 | 22,2  | 71,5  | 62,0    | 45,2 | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 14,5  | 145,3 | 129,0   | 102,0 | 15,6  | 105,0 | 93,6  | 71,8  | 17,0    | 83,6  | 73,6  | 55,1 | 17,6  | 68,5  | 59,6    | 43,9 | 74  |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12,4  | 142,0 | 127,0   | 101,0 | 13,4  | 103,0 | 92,0  | 71,0  | 14,8    | 82,0  | 72,5  | 54,5 | 15,4  | 67,0  | 58,5    | 43,3 | 76  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10,6  | 135,6 | 125,3   | -     | 11,5  | 101,3 | 90,8  | 70,5  | 12,9    | 80,5  | 71,3  | 53,8 | 13,5  | 65,8  | 57,6    | 42,8 | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7,0   | 123,0 | 122,0   | -     | 7,9   | 98,0  | 88,5  | 69,5  | 9,2     | 77,5  | 69,0  | 52,5 | 9,7   | 63,5  | 56,0    | 41,8 | 82  |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5,3   | 116,0 | 116,0   | -     | 6,2   | 96,5  | 87,5  | -     | 7,5     | 76,2  | 68,0  | 52,2 | 8,0   | 62,2  | 55,1    | 41,3 | 84  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 109,0 | 109,0   | -     | -     | 95,2  | 86,5  | -     | 5,9     | 75,0  | 67,0  | 52,0 | 6,4   | 61,0  | 54,3    | 40,9 | 86  |
| 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 104,0 | -       | -     | -     | 94,0  | 85,5  | -     | -       | 74,0  | 66,5  | 51,5 | -     | 60,0  | 53,5    | 40,5 | 88  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 92,8  | 84,5  | -     | -       | 73,0  | 65,6  | -    | -     | 59,1  | 52,8    | 40,2 | 90  |
| 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 91,6  | -     | -     | -       | 72,0  | 64,8  | -    | -     | 58,3  | 52,1    | 39,8 | 92  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 90,5  | -     | -     | -       | 71,0  | 64,0  | -    | -     | 57,5  | 51,5    | -    | 94  |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | 70,1  | 63,5  | -    | -     | 56,6  | 50,9    | -    | 96  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | -     | -     | -     | -       | 69,3  | -     | -    | -     | 55,8  | 50,3    | -    | 98  |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | 68,5  | -     | -    | -     | 55,0  | 49,8    | -    | 100 |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 54,5  | -       | -    | 102 |
| 104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 54,0  | -       | -    | 104 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

## SSL/LSL S1+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  250 t +  80 t  15-33 m  15-24 m  9,60 m  9.8 m/s 360° EN13000 |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---------|-------|-------|-------|-------|-------|---------|-------|-------|------|-------|-------|---------|------|-----|
|  90 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |       |         |       |       |       |       |       |         |       |       |      |       |       |         |      |     |
| 15 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       | 21 m    |       |       | 27 m  |       |       | 33 m    |       |       |      |       |       |         |      |     |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 0-450 t |       |       | 0 t   |       |       | 0-450 t |       |       | 0 t  |       |       | 0-450 t |      |     |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       | 20°     |       |       | 30°   |       |       | 15°     |       |       | 20°  |       |       | 30°     |      |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | t     | t     | t       | t     | t     | t     | t     | t     | t       | t     | t     | t    | t     | t     | t       | t    | m   |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250,0 | 250,0 | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 16  |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 239,0 | 250,0 | 250,0   | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 17  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 228,0 | 250,0 | 250,0   | -     | 225,0 | 240,0 | -     | -     | -       | -     | -     | -    | -     | -     | -       | -    | 18  |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 216,0 | 250,0 | 249,5   | 159,0 | 213,5 | 237,5 | 187,0 | -     | -       | -     | -     | -    | -     | -     | -       | -    | 19  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 204,0 | 250,0 | 249,0   | 159,0 | 202,0 | 235,0 | 187,0 | -     | 180,0   | 187,0 | -     | -    | -     | -     | -       | -    | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 185,0 | 250,0 | 242,0   | 156,0 | 184,0 | 225,0 | 180,5 | -     | 172,5   | 181,0 | 142,0 | -    | 143,0 | 148,0 | -       | -    | 22  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 175,5 | 250,0 | 238,5   | 154,5 | 175,0 | 220,0 | 177,2 | 113,0 | 168,7   | 178,0 | 140,5 | -    | 143,0 | 146,5 | -       | -    | 23  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 166,0 | 250,0 | 235,0   | 153,0 | 166,0 | 215,0 | 174,0 | 113,0 | 165,0   | 175,0 | 139,0 | -    | 143,0 | 145,0 | 111,0   | -    | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 152,0 | 250,0 | 227,5   | 150,0 | 152,0 | 207,5 | 168,5 | 110,0 | 151,5   | 168,0 | 134,5 | 86,0 | 137,5 | 139,5 | 109,0   | -    | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 138,0 | 250,0 | 220,0   | 147,0 | 138,0 | 200,0 | 163,0 | 107,0 | 138,0   | 161,0 | 130,0 | 85,0 | 132,0 | 134,0 | 107,0   | -    | 28  |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 132,5 | 249,5 | 216,7   | 145,7 | 132,7 | 196,2 | 160,5 | 106,0 | 132,7   | 158,2 | 128,0 | 84,0 | 128,2 | 131,5 | 105,5   | 66,5 | 29  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 127,0 | 249,0 | 213,5   | 144,5 | 127,5 | 192,5 | 158,0 | 105,0 | 127,5   | 155,5 | 126,0 | 83,0 | 124,5 | 129,0 | 104,0   | 66,3 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 107,2 | 243,0 | 201,5   | 139,0 | 106,7 | 179,0 | 148,5 | 100,7 | 108,0   | 145,0 | 118,5 | 79,2 | 108,5 | 120,0 | 98,0    | 64,5 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 89,5  | 230,5 | 191,0   | 133,5 | 89,7  | 168,0 | 140,5 | 96,5  | 90,2    | 135,5 | 112,0 | 75,7 | 91,5  | 112,0 | 92,2    | 61,5 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 73,8  | 216,3 | 181,3   | 128,6 | 76,1  | 158,3 | 133,6 | 92,8  | 75,8    | 127,3 | 106,3 | 72,6 | 77,3  | 105,0 | 87,1    | 58,8 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 60,5  | 203,0 | 172,0   | 124,0 | 62,5  | 149,0 | 127,0 | 89,5  | 64,5    | 120,0 | 101,0 | 70,0 | 66,0  | 99,0  | 82,5    | 56,5 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 50,3  | 192,3 | 164,0   | 120,0 | 52,1  | 141,0 | 121,0 | 86,1  | 54,0    | 113,3 | 96,0  | 67,3 | 55,3  | 93,6  | 78,5    | 54,1 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 41,2  | 183,0 | 157,0   | 116,3 | 42,8  | 133,6 | 115,6 | 83,3  | 44,7    | 107,3 | 91,5  | 65,0 | 45,8  | 88,6  | 74,8    | 52,1 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 33,2  | 175,0 | 151,0   | 113,0 | 34,7  | 127,0 | 111,0 | 81,0  | 36,5    | 102,0 | 87,5  | 63,0 | 37,6  | 84,0  | 71,5    | 50,5 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 26,8  | 169,0 | 146,3   | 110,3 | 28,2  | 121,6 | 106,3 | 78,6  | 29,9    | 97,6  | 84,1  | 61,0 | 30,9  | 80,0  | 68,5    | 48,8 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 21,0  | 163,0 | 141,6   | 107,6 | 22,3  | 116,6 | 102,5 | 76,5  | 24,0    | 93,5  | 81,0  | 59,1 | 24,8  | 76,5  | 65,8    | 47,3 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 15,8  | 157,0 | 137,0   | 105,0 | 17,0  | 112,0 | 99,5  | 74,5  | 18,6    | 89,5  | 78,0  | 57,5 | 19,4  | 73,5  | 63,5    | 45,9 | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 11,4  | 147,0 | 133,0   | 103,0 | 12,6  | 108,0 | 96,1  | 72,8  | 14,1    | 86,1  | 75,3  | 56,1 | 14,8  | 70,5  | 61,1    | 44,7 | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7,4   | 137,0 | 129,0   | 102,0 | 8,5   | 104,0 | 93,2  | 71,5  | 10,0    | 83,0  | 73,0  | 54,8 | 10,6  | 67,8  | 59,0    | 43,5 | 78  |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5,6   | 132,0 | 127,0   | 101,0 | 6,6   | 102,0 | 92,0  | 71,0  | 8,1     | 81,5  | 72,0  | 54,1 | 8,7   | 66,6  | 58,0    | 43,0 | 80  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 126,0 | 124,0   | -     | -     | 101,0 | 90,5  | 70,5  | 6,2     | 80,0  | 71,0  | 53,5 | 6,8   | 65,5  | 57,0    | 42,5 | 82  |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 119,6 | 118,6   | -     | -     | 99,5  | 89,5  | 70,0  | -       | 78,6  | 70,0  | 53,0 | 5,1   | 64,0  | 56,5    | 42,0 | 84  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 113,3 | 113,3   | -     | -     | 98,0  | 88,5  | 69,5  | -       | 77,3  | 69,0  | 52,5 | -     | 63,0  | 55,5    | 41,6 | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 101,1 | 102,0   | -     | -     | 95,3  | 86,6  | -     | -       | 75,0  | 67,1  | 51,7 | -     | 61,0  | 53,8    | 40,7 | 90  |
| 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 95,6  | -       | -     | -     | 94,1  | 85,8  | -     | -       | 74,0  | 66,3  | 51,5 | -     | 60,0  | 53,1    | 40,4 | 92  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 92,5  | -       | -     | -     | 93,0  | 85,0  | -     | -       | 73,0  | 65,5  | -    | -     | 59,0  | 52,5    | 40,1 | 94  |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 90,1  | 84,0  | -     | -       | 72,0  | 64,8  | -    | -     | 58,1  | 51,8    | 39,8 | 96  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | -     | -       | -     | -     | 87,3  | -     | -     | -       | 71,0  | 64,1  | -    | -     | 57,3  | 51,1    | 39,5 | 98  |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | 84,5  | -     | -     | -       | 70,0  | 63,5  | -    | -     | 56,5  | 50,5    | -    | 100 |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | 69,2  | -     | -    | -     | 55,8  | 50,1    | -    | 102 |
| 104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | 68,5  | -     | -    | -     | 55,1  | 49,7    | -    | 104 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 54,5  | 49,4    | -    | 106 |
| 108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 54,0  | 49,0    | -    | 108 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 53,5  | -       | -    | 110 |
| 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | -     | -       | -     | -     | -     | -     | -     | -       | -     | -     | -    | -     | 53,0  | -       | -    | 112 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

## SSL/LSL S1+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div> <div>250 t +  80 t</div> <div> 15-33 m</div> <div> 15-24 m</div> <div> 9,60 m</div> <div> 9.8 m/s</div> <div>360°</div> <div>EN13000</div> </div> |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-----|
| <div> <div>15 m</div> <div>21 m</div> <div>27 m</div> <div>33 m</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
| <div> <div>0 t</div> <div>0-450 t</div> <div>0 t</div> <div>0-450 t</div> <div>0 t</div> <div>0-450 t</div> <div>0 t</div> <div>0-450 t</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                           |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
| <div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> </div>                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t     | t    | m   |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 247,0 | 250,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 16  |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 233,0 | 250,0 | 250,0 | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 17  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 219,0 | 250,0 | 250,0 | -     | 217,0 | 241,0 | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 18  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 196,0 | 250,0 | 250,0 | 157,0 | 195,0 | 237,0 | 185,0 | -     | 178,0 | 188,0 | -     | -    | -     | -     | -     | -    | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 178,0 | 250,0 | 244,0 | 155,0 | 177,0 | 227,5 | 180,5 | -     | 168,5 | 182,0 | 140,0 | -    | 139,0 | 146,0 | -     | -    | 22  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 169,0 | 250,0 | 241,0 | 154,0 | 168,0 | 222,7 | 178,2 | 113,0 | 163,7 | 179,0 | 140,0 | -    | 139,0 | 146,0 | -     | -    | 23  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 160,0 | 250,0 | 238,0 | 153,0 | 159,0 | 218,0 | 176,0 | 113,0 | 159,0 | 176,0 | 140,0 | -    | 139,0 | 146,0 | -     | -    | 24  |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 153,0 | 250,0 | 234,2 | 151,7 | 152,5 | 214,0 | 173,2 | 111,7 | 152,5 | 172,7 | 137,7 | -    | 137,5 | 143,2 | 112,0 | -    | 25  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 146,0 | 250,0 | 230,5 | 150,5 | 146,0 | 210,0 | 170,5 | 110,5 | 146,0 | 169,5 | 135,5 | -    | 136,0 | 140,5 | 110,6 | -    | 26  |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 139,0 | 250,0 | 226,7 | 149,2 | 139,5 | 206,0 | 167,7 | 109,2 | 139,5 | 166,2 | 133,2 | 85,5 | 134,5 | 137,7 | 109,3 | -    | 27  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 132,0 | 250,0 | 223,0 | 148,0 | 133,0 | 202,0 | 165,0 | 108,0 | 133,0 | 163,0 | 131,0 | 85,5 | 133,0 | 135,0 | 108,0 | -    | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 121,5 | 249,0 | 216,5 | 145,5 | 122,5 | 195,5 | 160,0 | 106,0 | 122,5 | 157,5 | 127,5 | 83,5 | 122,5 | 130,5 | 105,0 | 66,0 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 100,7 | 245,0 | 204,5 | 140,5 | 102,5 | 183,0 | 151,0 | 101,7 | 104,0 | 147,0 | 120,5 | 79,7 | 104,0 | 121,5 | 99,0  | 64,5 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 83,7  | 235,0 | 194,0 | 135,5 | 86,2  | 171,5 | 143,0 | 97,5  | 87,2  | 138,0 | 113,5 | 76,5 | 88,0  | 113,5 | 93,5  | 61,7 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 70,3  | 221,6 | 184,6 | 130,6 | 72,6  | 161,6 | 135,6 | 93,8  | 72,6  | 130,3 | 107,6 | 73,5 | 74,1  | 107,0 | 88,6  | 59,3 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 57,0  | 209,0 | 176,0 | 126,0 | 59,0  | 153,0 | 129,0 | 90,5  | 61,0  | 123,0 | 103,0 | 70,5 | 62,5  | 101,0 | 84,0  | 57,0 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 46,7  | 198,0 | 168,0 | 122,0 | 48,6  | 145,0 | 123,6 | 87,5  | 50,6  | 116,3 | 98,0  | 68,1 | 52,0  | 95,6  | 80,0  | 55,0 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 37,6  | 188,6 | 160,6 | 118,3 | 39,3  | 137,3 | 118,3 | 84,6  | 41,3  | 110,3 | 93,5  | 66,0 | 42,6  | 90,8  | 76,3  | 53,0 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 29,6  | 180,0 | 154,0 | 115,0 | 31,2  | 130,0 | 113,0 | 82,0  | 33,1  | 105,0 | 89,5  | 64,0 | 34,3  | 86,5  | 73,0  | 51,0 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 23,2  | 173,3 | 148,6 | 112,3 | 24,7  | 124,6 | 109,0 | 80,0  | 26,5  | 100,3 | 86,1  | 62,0 | 27,5  | 82,1  | 70,0  | 49,5 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 17,3  | 165,3 | 144,3 | 109,6 | 18,8  | 119,6 | 105,0 | 78,0  | 20,5  | 96,0  | 83,0  | 60,1 | 21,4  | 78,3  | 67,1  | 48,1 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12,1  | 156,0 | 141,0 | 107,0 | 13,5  | 115,0 | 101,0 | 76,0  | 15,1  | 92,0  | 80,0  | 58,5 | 16,0  | 75,0  | 64,5  | 46,7 | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7,7   | 144,6 | 137,0 | 105,0 | 9,0   | 111,0 | 98,3  | 74,3  | 10,5  | 88,6  | 77,3  | 57,1 | 11,4  | 72,3  | 62,5  | 45,4 | 74  |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5,6   | 139,0 | 135,0 | 104,0 | 6,8   | 109,0 | 97,0  | 73,5  | 8,3   | 87,0  | 76,0  | 56,5 | 9,1   | 71,0  | 61,5  | 44,8 | 76  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 134,3 | 131,6 | 103,3 | -     | 107,3 | 95,6  | 72,5  | 6,3   | 85,5  | 74,7  | 55,8 | 7,1   | 69,7  | 60,5  | 44,3 | 78  |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 129,6 | 128,3 | 102,6 | -     | 105,6 | 94,3  | 72,0  | -     | 84,0  | 73,5  | 55,1 | 5,2   | 68,5  | 59,5  | 43,8 | 80  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 125,0 | 125,0 | 102,0 | -     | 104,0 | 93,0  | 71,5  | -     | 82,5  | 72,5  | 54,5 | -     | 67,0  | 58,5  | 43,3 | 82  |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 120,0 | 120,0 | 101,0 | -     | 102,3 | 91,8  | 70,8  | -     | 81,1  | 71,5  | 54,0 | -     | 65,8  | 57,6  | 42,8 | 84  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 115,0 | 115,0 | -     | -     | 100,6 | 90,6  | 70,1  | -     | 79,8  | 70,5  | 53,5 | -     | 64,6  | 56,8  | 42,3 | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 104,3 | 104,5 | -     | -     | 97,6  | 88,5  | 69,0  | -     | 77,3  | 68,6  | 52,5 | -     | 62,5  | 55,1  | 41,4 | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 93,0  | 93,5  | -     | -     | 95,0  | 86,5  | -     | -     | 75,0  | 67,0  | 51,5 | -     | 60,5  | 53,5  | 40,7 | 94  |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 87,6  | -     | -     | -     | 91,1  | 85,6  | -     | -     | 74,0  | 66,2  | 51,5 | -     | 59,6  | 52,8  | 40,3 | 96  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 83,8  | -     | -     | -     | 87,3  | 84,8  | -     | -     | 73,0  | 65,5  | -    | -     | 58,8  | 52,1  | 40,0 | 98  |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | 81,0  | -     | -     | -     | 83,5  | 84,0  | -     | -     | 72,0  | 64,5  | -    | -     | 58,0  | 51,5  | 39,7 | 100 |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | 79,0  | -     | -     | -     | 71,1  | 64,0  | -    | -     | 57,3  | 51,0  | -    | 102 |
| 104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | 76,5  | -     | -     | -     | 70,3  | 63,5  | -    | -     | 56,6  | 50,5  | -    | 104 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -     | 69,5  | -     | -    | -     | 56,0  | 50,0  | -    | 106 |
| 108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -     | 69,0  | -     | -    | -     | 55,3  | 49,8  | -    | 108 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 54,6  | 49,4  | -    | 110 |
| 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 54,0  | 49,0  | -    | 112 |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 53,5  | -     | -    | 114 |
| 116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 53,0  | -     | -    | 116 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

## SSL/LSL+LF SSL/LSL S1+LF

| 250 t + 80 t 15-33 m 15-24 m 9,60 m 9.8 m/s 360° EN13000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |     |
|----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-----|
| 102 m                                                    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |     |
| * SSL/LSL+LF ** SSL/LSL S1+LF                            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |     |
| 15 m 21 m 27 m 33 m                                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |     |
| 0 t 0 t 0 t 0-450 t                                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |     |
| 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30°          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |     |
| m                                                        | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t     | m   |
| 17                                                       | 226,0 | 250,0 | 224,0 | 250,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 17  |
| 18                                                       | 213,0 | 250,0 | 212,0 | 250,0 | 250,0 | 249,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 18  |
| 19                                                       | 202,0 | 250,0 | 200,5 | 250,0 | 250,0 | 247,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 19  |
| 20                                                       | 191,0 | 250,0 | 189,0 | 250,0 | 250,0 | 245,0 | 171,0 | 154,0 | 235,0 | 227,0 | 176,0 | -     | -     | -     | -     | -    | -     | -     | -     | 20  |
| 21                                                       | 182,2 | 250,0 | 180,2 | 250,0 | 250,0 | 241,5 | 170,0 | 153,0 | 234,0 | 223,0 | 174,7 | -     | 183,0 | 175,0 | -     | -    | -     | -     | -     | 21  |
| 22                                                       | 173,5 | 250,0 | 171,5 | 250,0 | 250,0 | 238,0 | 169,0 | 152,0 | 233,0 | 219,0 | 173,5 | -     | 183,0 | 172,6 | -     | -    | -     | -     | -     | 22  |
| 23                                                       | 164,7 | 250,0 | 162,7 | 250,0 | 250,0 | 234,5 | 168,0 | 151,0 | 232,0 | 215,0 | 172,2 | -     | 183,0 | 170,3 | 134,0 | -    | 146,0 | 138,0 | -     | 23  |
| 24                                                       | 156,0 | 250,0 | 154,0 | 250,0 | 250,0 | 231,0 | 167,0 | 150,0 | 231,0 | 211,0 | 171,0 | 110,0 | 183,0 | 168,0 | 134,0 | -    | 146,0 | 138,0 | -     | 24  |
| 26                                                       | 143,0 | 250,0 | 141,0 | 250,0 | 247,0 | 224,5 | 165,0 | 148,0 | 224,5 | 204,0 | 166,0 | 108,0 | 179,5 | 162,5 | 131,0 | -    | 145,0 | 134,5 | 106,0 | 26  |
| 27                                                       | 136,5 | 250,0 | 134,5 | 250,0 | 245,5 | 221,2 | 164,0 | 147,0 | 221,2 | 200,5 | 163,5 | 107,0 | 177,7 | 159,7 | 129,5 | 82,5 | 144,5 | 132,7 | 105,5 | 27  |
| 28                                                       | 130,0 | 250,0 | 128,0 | 250,0 | 244,0 | 218,0 | 163,0 | 146,0 | 218,0 | 197,0 | 161,0 | 106,0 | 176,0 | 157,0 | 128,0 | 82,5 | 144,0 | 131,0 | 105,0 | 28  |
| 30                                                       | 119,5 | 250,0 | 117,5 | 250,0 | 237,5 | 212,5 | 160,5 | 143,5 | 211,0 | 190,5 | 156,5 | 104,0 | 170,0 | 152,0 | 124,5 | 81,2 | 140,0 | 126,5 | 102,0 | 30  |
| 34                                                       | 100,0 | 250,0 | 97,7  | 243,0 | 225,0 | 201,5 | 156,0 | 139,0 | 198,0 | 178,5 | 148,0 | 100,0 | 159,0 | 142,5 | 117,5 | 78,5 | 131,5 | 118,5 | 96,2  | 34  |
| 38                                                       | 84,2  | 246,5 | 81,7  | 229,5 | 213,5 | 191,5 | 152,0 | 134,5 | 186,5 | 168,5 | 140,5 | 96,2  | 149,5 | 134,0 | 111,5 | 75,2 | 123,5 | 111,5 | 91,2  | 38  |
| 42                                                       | 70,6  | 237,0 | 68,1  | 217,0 | 203,3 | 182,6 | 147,6 | 129,6 | 176,0 | 159,6 | 134,0 | 92,8  | 141,3 | 126,6 | 106,0 | 71,8 | 116,6 | 105,3 | 86,5  | 42  |
| 46                                                       | 57,0  | 227,0 | 54,5  | 205,0 | 194,0 | 174,0 | 143,0 | 125,0 | 166,0 | 151,0 | 128,0 | 89,5  | 134,0 | 120,0 | 100,0 | 68,5 | 110,0 | 100,0 | 81,5  | 46  |
| 50                                                       | 46,8  | 217,6 | 44,4  | 195,0 | 185,3 | 166,6 | 139,0 | 121,0 | 158,0 | 143,6 | 122,6 | 86,8  | 127,3 | 114,0 | 95,3  | 65,8 | 104,0 | 94,0  | 77,1  | 50  |
| 54                                                       | 37,8  | 208,6 | 35,4  | 186,0 | 177,6 | 160,0 | 134,6 | 117,6 | 150,3 | 136,6 | 117,3 | 84,1  | 120,6 | 108,3 | 91,0  | 63,5 | 98,3  | 88,6  | 73,1  | 54  |
| 58                                                       | 29,8  | 200,0 | 27,4  | 178,0 | 171,0 | 154,0 | 130,0 | 115,0 | 143,0 | 130,0 | 112,0 | 81,5  | 114,0 | 103,0 | 87,0  | 61,5 | 93,0  | 84,0  | 69,5  | 58  |
| 62                                                       | 23,3  | 184,6 | 21,0  | 171,3 | 165,0 | 148,6 | 126,6 | 111,6 | 137,0 | 124,6 | 108,0 | 78,8  | 108,6 | 98,3  | 83,3  | 59,5 | 88,6  | 79,6  | 66,5  | 62  |
| 66                                                       | 17,5  | 170,0 | 15,2  | 163,6 | 159,6 | 144,0 | 123,3 | 109,0 | 131,6 | 119,6 | 104,0 | 76,5  | 103,8 | 93,8  | 79,8  | 57,5 | 84,5  | 75,6  | 63,6  | 66  |
| 70                                                       | 12,3  | 156,0 | 10,0  | 155,0 | 155,0 | 140,0 | 120,0 | 107,0 | 127,0 | 115,0 | 100,0 | 74,5  | 99,5  | 89,5  | 76,5  | 55,5 | 80,5  | 72,0  | 61,0  | 70  |
| 74                                                       | 7,9   | 144,6 | 5,5   | 143,0 | 145,0 | 136,8 | 117,3 | 105,4 | 122,3 | 111,0 | 96,8  | 72,5  | 95,5  | 86,0  | 73,8  | 54,1 | 77,1  | 69,2  | 58,6  | 74  |
| 76                                                       | 5,7   | 139,0 | -     | 138,0 | 140,0 | 135,0 | 116,0 | 104,0 | 120,0 | 109,0 | 95,0  | 71,5  | 93,5  | 84,0  | 72,5  | 53,5 | 75,5  | 67,5  | 57,5  | 76  |
| 78                                                       | -     | 134,3 | -     | 133,0 | 135,0 | 131,3 | 115,0 | 103,0 | 118,0 | 107,0 | 93,5  | 71,1  | 91,6  | 82,7  | 71,5  | 52,8 | 74,0  | 66,3  | 56,5  | 78  |
| 82                                                       | -     | 125,0 | -     | 123,0 | 125,0 | 124,0 | 113,0 | 101,0 | 114,0 | 103,0 | 90,5  | 69,5  | 88,0  | 79,5  | 69,0  | 51,5 | 71,0  | 63,5  | 54,5  | 82  |
| 86                                                       | -     | 117,0 | -     | 115,0 | 117,0 | 115,3 | 111,0 | 99,6  | 110,0 | 100,0 | 88,1  | 68,1  | 85,0  | 76,8  | 67,0  | 50,5 | 68,3  | 61,1  | 52,8  | 86  |
| 88                                                       | -     | 113,0 | -     | 111,0 | 113,0 | 111,0 | 110,0 | 99,0  | 108,0 | 98,5  | 87,0  | 67,5  | 83,5  | 75,5  | 66,0  | 50,0 | 67,0  | 60,0  | 52,0  | 88  |
| 89                                                       | -     | 110,5 | -     | 108,5 | 110,6 | 108,6 | -     | 98,5  | 107,0 | 97,7  | 86,4  | 67,2  | 82,8  | 74,9  | 65,5  | 49,8 | 66,4  | 59,5  | 51,6  | 89  |
| 90                                                       | -     | 108,1 | -     | 106,0 | 108,3 | 106,3 | -     | -     | 106,0 | 97,0  | 85,8  | 67,0  | 82,1  | 74,3  | 65,0  | 49,6 | 65,8  | 59,0  | 51,2  | 90  |
| 94                                                       | -     | 98,5  | -     | 96,0  | 99,0  | 97,0  | -     | -     | 102,0 | 94,0  | 83,5  | 66,0  | 79,5  | 72,0  | 63,0  | 48,8 | 63,5  | 57,0  | 49,8  | 94  |
| 95                                                       | -     | 96,0  | -     | 93,5  | 96,5  | 94,5  | -     | -     | 99,7  | 92,7  | 83,1  | 66,0  | 79,0  | 71,4  | 63,0  | 48,6 | 63,0  | 56,5  | 49,4  | 95  |
| 98                                                       | -     | 88,5  | -     | 86,3  | 89,0  | 87,0  | -     | -     | 93,0  | 89,0  | 81,9  | -     | 77,5  | 69,6  | 61,6  | 48,1 | 61,8  | 55,3  | 48,4  | 98  |
| 100                                                      | -     | 83,5  | -     | 81,5  | 84,0  | 82,0  | -     | -     | 88,5  | 86,5  | 81,0  | -     | 76,5  | 68,5  | 61,0  | 47,8 | 61,0  | 54,5  | 47,8  | 100 |
| 102                                                      | -     | 78,7  | -     | 76,9  | -     | -     | -     | -     | 84,0  | 82,0  | 79,7  | -     | 75,5  | 67,7  | 60,3  | -    | 60,1  | 53,6  | 47,3  | 102 |
| 104                                                      | -     | 76,0  | -     | 74,3  | -     | -     | -     | -     | 79,5  | 77,5  | 78,5  | -     | 74,5  | 66,9  | 59,6  | -    | 59,3  | 52,8  | 46,7  | 104 |
| 105                                                      | -     | -     | -     | 73,0  | -     | -     | -     | -     | 77,5  | 75,2  | 76,2  | -     | 74,0  | 66,5  | 59,3  | -    | 58,9  | 52,4  | 46,4  | 105 |
| 106                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 75,5  | 73,0  | 74,0  | -     | 73,5  | 66,0  | 59,0  | -    | 58,5  | 52,0  | 46,2  | 106 |
| 108                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 71,5  | 70,3  | -     | -     | 72,5  | 65,3  | 58,6  | -    | 57,6  | 51,3  | 45,7  | 108 |
| 110                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 68,1  | -     | -     | -     | 70,5  | 64,6  | 58,3  | -    | 56,8  | 50,6  | 45,3  | 110 |
| 111                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 67,0  | -     | -     | -     | 69,5  | 64,3  | 58,1  | -    | 56,4  | 50,3  | 45,1  | 111 |
| 112                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 68,5  | 64,0  | 58,0  | -    | 56,0  | 50,0  | 44,9  | 112 |
| 114                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 66,0  | 62,8  | -     | -    | 55,5  | 49,6  | 44,6  | 114 |
| 116                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 64,0  | 61,6  | -     | -    | 55,0  | 49,2  | 44,3  | 116 |
| 117                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 61,0  | -     | -    | 54,7  | 49,0  | 44,1  | 117 |
| 118                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 54,5  | 48,9  | 44,0  | 118 |
| 120                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 54,0  | 48,5  | -     | 120 |
| 122                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 48,2  | -     | 122 |

0 t 80 t 160 t 240 t 320 t 400 t 450 t



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SSL/LSL+LF  
SSL/LSL S1+LF

| <div> <div>250 t + 80 t</div> <div>15-33 m</div> <div>15-24 m</div> <div>9,60 m</div> <div>9.8 m/s</div> <div>360°</div> <div>EN13000</div> </div>                                                                                                                                                                                                                                                                                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-----|
| <div> <div>108 m</div> <div> <div>* SSL/LSL+LF</div> <div>** SSL/LSL S1+LF</div> </div> <div> <div>15 m</div> <div>21 m</div> <div>27 m</div> <div>33 m</div> </div> <div> <div>0 t</div> <div>0t-450t</div> <div>0 t</div> </div> <div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> </div> </div> |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                          | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t     | t    | m   |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                         | 217,0 | 250,0 | 215,0 | 250,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 17  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                         | 205,0 | 250,0 | 203,0 | 250,0 | 250,0 | 247,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 18  |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                         | 194,5 | 250,0 | 192,0 | 250,0 | 250,0 | 247,0 | -     | -     | 222,0 | 222,0 | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 19  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                         | 184,0 | 250,0 | 181,0 | 250,0 | 250,0 | 247,0 | -     | -     | 222,0 | 222,0 | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 20  |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                         | 175,5 | 250,0 | 172,5 | 250,0 | 250,0 | 243,5 | 170,0 | 153,0 | 222,0 | 219,5 | 177,0 | -     | 176,0 | 172,0 | -     | -    | -     | -     | -     | -    | 21  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                         | 167,0 | 250,0 | 164,0 | 250,0 | 250,0 | 240,0 | 169,0 | 152,0 | 222,0 | 217,0 | 175,3 | -     | 175,6 | 171,0 | -     | -    | -     | -     | -     | -    | 22  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                         | 158,5 | 250,0 | 155,5 | 250,0 | 250,0 | 236,5 | 168,0 | 151,0 | 222,0 | 214,5 | 173,6 | -     | 175,3 | 170,0 | 134,0 | -    | 140,0 | 139,0 | -     | -    | 23  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                         | 150,0 | 250,0 | 147,0 | 250,0 | 250,0 | 233,0 | 167,0 | 150,0 | 222,0 | 212,0 | 172,0 | 109,0 | 175,0 | 169,0 | 134,0 | -    | 140,0 | 139,0 | -     | -    | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                         | 137,0 | 250,0 | 134,0 | 250,0 | 247,0 | 226,5 | 165,0 | 148,0 | 220,5 | 205,5 | 167,0 | 108,0 | 175,0 | 163,5 | 131,5 | -    | 139,5 | 135,5 | 105,0 | -    | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                         | 124,0 | 250,0 | 121,0 | 250,0 | 244,0 | 220,0 | 163,0 | 146,0 | 219,0 | 199,0 | 162,0 | 107,0 | 175,0 | 158,0 | 129,0 | 83,0 | 139,0 | 132,0 | 105,0 | -    | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                         | 114,0 | 250,0 | 111,0 | 249,0 | 239,0 | 214,5 | 161,0 | 144,0 | 213,5 | 192,5 | 158,0 | 104,5 | 170,5 | 153,0 | 125,5 | 81,7 | 138,0 | 128,0 | 102,2 | -    | 30  |
| 31                                                                                                                                                                                                                                                                                                                                                                                                                                         | 109,0 | 250,0 | 106,0 | 248,5 | 236,5 | 211,7 | 160,0 | 143,0 | 211,2 | 189,2 | 156,0 | 103,2 | 168,2 | 150,5 | 123,7 | 81,1 | 137,5 | 126,0 | 100,8 | 64,0 | 31  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                         | 95,7  | 250,0 | 92,5  | 243,5 | 228,0 | 203,5 | 157,0 | 139,5 | 203,0 | 180,5 | 150,0 | 100,5 | 161,5 | 144,0 | 118,5 | 79,0 | 134,0 | 120,0 | 97,0  | 62,7 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                         | 80,7  | 249,5 | 77,5  | 232,0 | 216,0 | 193,5 | 153,0 | 135,0 | 191,5 | 170,5 | 142,5 | 97,2  | 152,5 | 136,0 | 112,5 | 75,7 | 127,0 | 112,5 | 92,0  | 60,0 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                         | 67,1  | 241,6 | 64,1  | 219,6 | 205,6 | 184,6 | 149,0 | 130,6 | 181,0 | 161,6 | 136,0 | 93,8  | 144,0 | 128,3 | 107,3 | 72,5 | 119,6 | 106,3 | 87,1  | 57,1 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                         | 53,5  | 231,0 | 50,5  | 209,0 | 197,0 | 176,0 | 145,0 | 126,0 | 171,0 | 153,0 | 130,0 | 90,5  | 136,0 | 121,0 | 102,0 | 69,5 | 113,0 | 101,0 | 82,5  | 54,5 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                         | 43,3  | 221,6 | 40,2  | 199,0 | 189,0 | 168,6 | 140,3 | 122,6 | 162,3 | 145,6 | 124,0 | 87,8  | 129,3 | 115,6 | 97,3  | 66,8 | 106,3 | 95,6  | 78,5  | 52,5 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                         | 34,2  | 211,0 | 31,1  | 189,6 | 181,6 | 162,0 | 136,0 | 119,3 | 154,3 | 138,6 | 118,6 | 85,1  | 123,0 | 110,3 | 92,8  | 64,3 | 100,5 | 90,6  | 74,6  | 50,5 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                         | 26,2  | 199,0 | 23,1  | 181,0 | 175,0 | 156,0 | 132,0 | 116,0 | 147,0 | 132,0 | 114,0 | 82,5  | 117,0 | 105,0 | 88,5  | 62,0 | 95,5  | 86,0  | 71,0  | 48,6 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19,7  | 182,3 | 16,6  | 174,3 | 169,0 | 150,6 | 128,6 | 112,6 | 141,0 | 126,6 | 110,0 | 80,1  | 111,6 | 100,6 | 84,8  | 60,0 | 90,8  | 81,6  | 68,0  | 46,8 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                         | 13,8  | 167,3 | 10,7  | 164,3 | 162,0 | 146,0 | 125,3 | 110,0 | 135,6 | 121,6 | 106,0 | 77,8  | 106,6 | 96,3  | 81,5  | 58,1 | 86,5  | 77,6  | 65,1  | 45,2 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8,6   | 154,0 | 5,5   | 151,0 | 154,0 | 142,0 | 122,0 | 108,0 | 131,0 | 117,0 | 102,0 | 75,5  | 102,0 | 92,0  | 78,5  | 56,5 | 82,5  | 74,0  | 62,5  | 43,8 | 70  |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6,3   | 148,0 | -     | 145,3 | 148,0 | 139,8 | 121,0 | 107,0 | 128,5 | 115,0 | 100,5 | 74,5  | 100,0 | 90,1  | 77,0  | 55,7 | 80,8  | 72,7  | 61,3  | 43,1 | 72  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | 142,5 | -     | 139,6 | 142,5 | 137,4 | 119,5 | 106,0 | 126,0 | 113,0 | 99,0  | 73,7  | 98,0  | 88,3  | 75,5  | 55,0 | 79,1  | 71,1  | 60,1  | 42,4 | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | 132,0 | -     | 129,3 | 132,3 | 130,0 | 116,6 | 104,3 | 121,6 | 109,3 | 96,0  | 72,1  | 94,1  | 84,8  | 72,8  | 53,3 | 76,0  | 68,0  | 57,8  | 41,2 | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | 122,0 | -     | 120,0 | 123,0 | 120,0 | 114,0 | 103,0 | 117,0 | 106,0 | 93,0  | 70,5  | 90,5  | 81,5  | 70,5  | 52,0 | 73,0  | 65,0  | 55,5  | 40,1 | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | 114,0 | -     | 111,3 | 114,3 | 112,0 | 112,0 | 101,0 | 112,3 | 102,6 | 90,3  | 69,1  | 87,5  | 78,8  | 68,5  | 51,0 | 70,3  | 62,6  | 53,8  | 39,1 | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | 106,1 | -     | 103,1 | 106,5 | 104,0 | 107,0 | 99,2  | 106,6 | 99,5  | 87,8  | 67,8  | 84,6  | 76,1  | 66,5  | 50,1 | 67,8  | 60,5  | 52,2  | 38,2 | 90  |
| 92                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | 102,3 | -     | 99,3  | 103,0 | 100,0 | 103,0 | 98,4  | 103,3 | 98,0  | 86,6  | 67,1  | 83,3  | 74,8  | 65,5  | 49,7 | 66,6  | 59,5  | 51,4  | 37,8 | 92  |
| 93                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | 100,4 | -     | 97,4  | 101,2 | 98,0  | -     | 98,0  | 101,6 | 97,2  | 86,0  | 66,8  | 82,6  | 74,1  | 65,0  | 49,5 | 66,0  | 59,0  | 51,0  | 37,6 | 93  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | 98,5  | -     | 95,5  | 99,5  | 96,0  | -     | -     | 100,0 | 96,5  | 85,5  | 66,5  | 82,0  | 73,5  | 64,5  | 49,3 | 65,5  | 58,5  | 50,5  | 37,4 | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | 89,1  | -     | 86,2  | 90,1  | 86,6  | -     | -     | 92,3  | 90,0  | 83,5  | 65,7  | 79,6  | 71,5  | 62,8  | 48,5 | 63,5  | 56,8  | 49,4  | 36,7 | 98  |
| 99                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | 86,8  | -     | 83,8  | 87,8  | 84,3  | -     | -     | 90,4  | 87,7  | 83,0  | 65,5  | 79,0  | 71,0  | 62,4  | 48,3 | 63,0  | 56,4  | 49,1  | 36,6 | 99  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 80,1  | -     | 77,1  | 81,0  | 77,6  | -     | -     | 84,3  | 81,3  | 79,6  | -     | 77,5  | 69,5  | 61,3  | 47,9 | 61,5  | 55,1  | 48,2  | 36,1 | 102 |
| 104                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 75,8  | -     | 72,8  | 76,5  | 73,2  | -     | -     | 80,1  | 77,1  | 76,8  | -     | 76,5  | 68,5  | 60,6  | 47,6 | 60,5  | 54,3  | 47,6  | 35,8 | 104 |
| 105                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 73,6  | -     | 70,6  | -     | 71,0  | -     | -     | 78,0  | 75,0  | 75,4  | -     | 76,0  | 68,0  | 60,3  | 47,5 | 60,0  | 53,9  | 47,3  | 35,7 | 105 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 71,5  | -     | 68,5  | -     | -     | -     | -     | 76,0  | 73,0  | 74,0  | -     | 75,5  | 67,5  | 60,0  | -    | 59,5  | 53,5  | 47,0  | 35,6 | 106 |
| 108                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 68,5  | -     | 66,2  | -     | -     | -     | -     | 72,0  | 69,1  | 70,0  | -     | 73,3  | 66,8  | 59,5  | -    | 58,8  | 52,8  | 46,5  | 35,4 | 108 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | 64,0  | -     | -     | -     | -     | 68,0  | 65,3  | 66,0  | -     | 71,1  | 66,1  | 59,0  | -    | 58,1  | 52,1  | 46,0  | 35,3 | 110 |
| 111                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | 66,0  | 63,5  | 64,0  | -     | 70,0  | 65,8  | 58,7  | -    | 57,8  | 51,8  | 45,8  | -    | 111 |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | 62,5  | 60,2  | -     | -     | 65,3  | 62,1  | 58,1  | -    | 56,8  | 50,9  | 45,2  | -    | 114 |
| 116                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | 60,5  | 58,0  | -     | -     | 61,6  | 59,0  | 57,7  | -    | 56,1  | 50,4  | 44,8  | -    | 116 |
| 117                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 60,5  | 58,0  | 57,5  | -    | 55,8  | 50,1  | 44,6  | -    | 117 |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 59,5  | 57,0  | -     | -    | 55,5  | 49,9  | 44,5  | -    | 118 |
| 120                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 57,5  | 54,8  | -     | -    | 55,0  | 49,4  | 44,2  | -    | 120 |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 52,5  | -     | -    | 54,5  | 48,9  | 43,9  | -    | 122 |
| 123                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 54,2  | 48,7  | 43,8  | -    | 123 |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 51,8  | 47,7  | -     | -    | 126 |
| 128                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 49,7  | 47,0  | -     | -    | 128 |

|                                                                                     |     |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SSL/LSL+LF  
SSL/LSL S1+LF

| 250 t + 80 t 15-33 m 15-24 m 9,60 m 9.8 m/s 360° EN13000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
|----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-----|
| 114 m                                                    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
| * SSL/LSL+LF ** SSL/LSL S1+LF                            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
| 15 m 21 m 27 m 33 m                                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
| 0 t 0-450 t                                              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
| 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30°          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
| m                                                        | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t     | t    | m   |
| 18                                                       | 198,0 | 250,0 | 197,0 | 248,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 18  |
| 19                                                       | 187,5 | 250,0 | 186,5 | 248,0 | 246,0 | 228,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 19  |
| 20                                                       | 177,0 | 250,0 | 176,0 | 248,0 | 246,0 | 228,0 | -     | -     | 211,0 | 202,0 | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 20  |
| 21                                                       | 168,7 | 250,0 | 167,7 | 248,0 | 245,7 | 228,0 | 169,0 | 156,0 | 211,0 | 202,0 | 182,0 | -     | -     | -     | -     | -    | -     | -     | -     | -    | 21  |
| 22                                                       | 160,5 | 250,0 | 159,5 | 248,0 | 245,5 | 228,0 | 168,3 | 155,3 | 211,0 | 202,0 | 181,3 | -     | 168,0 | 166,0 | -     | -    | -     | -     | -     | -    | 22  |
| 24                                                       | 144,0 | 250,0 | 143,0 | 248,0 | 245,0 | 228,0 | 167,0 | 154,0 | 211,0 | 202,0 | 180,0 | -     | 168,0 | 166,0 | 140,0 | -    | 135,0 | 133,0 | -     | -    | 24  |
| 25                                                       | 137,7 | 250,0 | 136,7 | 248,0 | 244,0 | 227,5 | 165,7 | 153,0 | 211,0 | 202,0 | 177,7 | 115,0 | 168,0 | 165,5 | 138,7 | -    | 134,7 | 133,0 | -     | -    | 25  |
| 26                                                       | 131,5 | 250,0 | 130,5 | 248,0 | 243,0 | 227,0 | 164,5 | 152,0 | 211,0 | 202,0 | 175,5 | 114,0 | 168,0 | 165,0 | 137,5 | -    | 134,5 | 133,0 | -     | -    | 26  |
| 27                                                       | 125,2 | 250,0 | 124,2 | 248,0 | 242,0 | 226,5 | 163,2 | 151,0 | 211,0 | 202,0 | 173,2 | 113,0 | 168,0 | 164,5 | 136,2 | -    | 134,2 | 133,0 | 110,0 | -    | 27  |
| 28                                                       | 119,0 | 250,0 | 118,0 | 248,0 | 241,0 | 226,0 | 162,0 | 150,0 | 211,0 | 202,0 | 171,0 | 112,0 | 168,0 | 164,0 | 135,0 | 85,5 | 134,0 | 133,0 | 110,0 | -    | 28  |
| 30                                                       | 109,5 | 250,0 | 108,2 | 248,0 | 237,5 | 223,5 | 160,5 | 148,0 | 210,0 | 199,0 | 167,0 | 109,5 | 166,5 | 160,5 | 130,5 | 83,5 | 134,0 | 131,5 | 106,5 | -    | 30  |
| 32                                                       | 100,0 | 250,0 | 98,5  | 248,0 | 234,0 | 221,0 | 159,0 | 146,0 | 210,0 | 196,0 | 163,0 | 107,0 | 165,0 | 157,0 | 126,0 | 81,5 | 134,0 | 130,0 | 103,0 | 65,0 | 32  |
| 34                                                       | 92,0  | 250,0 | 90,5  | 248,0 | 229,0 | 216,0 | 157,0 | 144,5 | 204,5 | 190,5 | 158,0 | 104,5 | 161,5 | 152,5 | 122,5 | 79,7 | 132,5 | 126,0 | 99,7  | 63,2 | 34  |
| 38                                                       | 75,5  | 250,0 | 74,0  | 241,0 | 218,5 | 206,5 | 153,0 | 141,5 | 193,5 | 180,0 | 149,0 | 100,0 | 154,0 | 144,0 | 115,5 | 76,2 | 128,0 | 118,0 | 93,7  | 60,2 | 38  |
| 42                                                       | 61,5  | 245,6 | 60,0  | 229,0 | 208,6 | 197,6 | 149,3 | 137,6 | 183,3 | 171,3 | 141,3 | 96,1  | 146,3 | 135,6 | 109,3 | 73,0 | 121,6 | 110,6 | 88,6  | 57,6 | 42  |
| 46                                                       | 50,5  | 237,0 | 49,2  | 218,0 | 200,0 | 189,0 | 146,0 | 133,0 | 174,0 | 162,0 | 134,0 | 92,5  | 139,0 | 127,0 | 104,0 | 70,0 | 115,0 | 104,0 | 84,0  | 55,0 | 46  |
| 50                                                       | 40,3  | 226,0 | 38,9  | 208,6 | 192,0 | 181,6 | 142,0 | 129,0 | 165,3 | 154,6 | 128,0 | 89,5  | 132,3 | 120,3 | 99,0  | 67,3 | 108,3 | 98,0  | 79,6  | 52,6 | 50  |
| 54                                                       | 31,2  | 213,0 | 29,7  | 201,6 | 184,6 | 173,6 | 138,0 | 125,0 | 157,6 | 147,3 | 122,3 | 86,5  | 126,0 | 114,0 | 94,5  | 64,8 | 102,5 | 92,6  | 75,8  | 50,6 | 54  |
| 58                                                       | 23,2  | 197,0 | 21,7  | 195,0 | 178,0 | 167,0 | 134,0 | 121,0 | 151,0 | 140,0 | 117,0 | 83,5  | 120,0 | 108,0 | 90,5  | 62,5 | 97,5  | 88,0  | 72,5  | 49,0 | 58  |
| 62                                                       | 16,7  | 180,3 | 15,2  | 179,0 | 172,0 | 161,0 | 130,6 | 117,6 | 144,3 | 133,3 | 112,3 | 81,1  | 114,6 | 103,3 | 86,5  | 60,5 | 92,8  | 83,6  | 69,1  | 47,2 | 62  |
| 66                                                       | 10,8  | 165,0 | 9,3   | 163,8 | 163,3 | 155,2 | 127,3 | 114,4 | 138,6 | 127,6 | 108,0 | 78,8  | 109,3 | 98,8  | 83,0  | 58,6 | 88,5  | 79,6  | 66,1  | 45,6 | 66  |
| 69                                                       | 6,8   | 154,5 | 5,3   | 153,0 | 154,8 | 151,0 | 124,8 | 112,0 | 135,1 | 124,0 | 105,0 | 77,0  | 105,3 | 95,5  | 80,7  | 57,4 | 85,5  | 76,9  | 64,1  | 44,5 | 69  |
| 70                                                       | 5,5   | 151,0 | -     | 150,0 | 152,0 | 149,0 | 124,0 | 111,0 | 134,0 | 122,0 | 104,0 | 76,5  | 104,0 | 94,5  | 80,0  | 57,0 | 84,5  | 76,0  | 63,5  | 44,2 | 70  |
| 74                                                       | -     | 139,6 | -     | 138,6 | 140,6 | 139,0 | 121,5 | 109,2 | 129,0 | 117,3 | 101,3 | 74,8  | 100,3 | 90,5  | 77,0  | 55,6 | 81,1  | 72,6  | 61,2  | 42,8 | 74  |
| 78                                                       | -     | 129,3 | -     | 128,3 | 130,0 | 129,0 | 118,6 | 106,6 | 125,0 | 113,0 | 98,0  | 73,1  | 96,6  | 87,0  | 74,3  | 54,3 | 77,8  | 69,6  | 59,0  | 41,6 | 78  |
| 82                                                       | -     | 120,0 | -     | 119,0 | 120,0 | 119,0 | 116,0 | 104,0 | 121,0 | 109,0 | 95,0  | 71,5  | 93,0  | 84,0  | 72,0  | 53,0 | 74,5  | 67,0  | 57,0  | 40,5 | 82  |
| 86                                                       | -     | 111,3 | -     | 110,3 | 112,0 | 111,0 | 110,6 | 102,6 | 112,3 | 105,6 | 92,3  | 69,8  | 89,6  | 81,0  | 69,6  | 51,6 | 71,8  | 64,3  | 55,0  | 39,5 | 86  |
| 90                                                       | -     | 103,6 | -     | 102,6 | 104,3 | 103,3 | 104,5 | 100,1 | 104,5 | 101,5 | 89,8  | 68,7  | 86,6  | 78,1  | 67,6  | 50,6 | 69,5  | 62,0  | 53,3  | 38,6 | 90  |
| 94                                                       | -     | 97,0  | -     | 96,0  | 97,0  | 96,0  | 97,5  | 96,5  | 97,5  | 96,5  | 87,5  | 67,5  | 84,0  | 75,5  | 66,0  | 49,8 | 67,0  | 60,0  | 51,5  | 37,8 | 94  |
| 96                                                       | -     | 93,5  | -     | 91,9  | 94,0  | 92,4  | 94,5  | 93,5  | 94,5  | 93,5  | 86,5  | 67,0  | 82,7  | 74,5  | 65,1  | 49,4 | 66,0  | 59,0  | 50,9  | 37,4 | 96  |
| 97                                                       | -     | 91,3  | -     | 89,8  | 91,8  | 90,3  | -     | 91,5  | 92,8  | 91,7  | 86,0  | 66,7  | 82,1  | 74,0  | 64,7  | 49,2 | 65,5  | 58,5  | 50,6  | 37,2 | 97  |
| 98                                                       | -     | 89,2  | -     | 87,7  | 89,7  | 88,2  | -     | -     | 91,2  | 90,0  | 85,5  | 66,5  | 81,5  | 73,5  | 64,3  | 49,0 | 65,0  | 58,0  | 50,3  | 37,0 | 98  |
| 102                                                      | -     | 80,8  | -     | 79,5  | 81,3  | 80,0  | -     | -     | 84,1  | 82,6  | 81,6  | 65,6  | 79,3  | 71,5  | 62,8  | 48,2 | 63,0  | 56,1  | 49,1  | 36,4 | 102 |
| 103                                                      | -     | 78,7  | -     | 77,5  | 79,2  | 78,0  | -     | -     | 82,2  | 80,7  | 80,2  | 65,5  | 78,7  | 71,0  | 62,5  | 48,1 | 62,5  | 55,7  | 48,8  | 36,2 | 103 |
| 106                                                      | -     | 72,5  | -     | 71,5  | 73,0  | 72,0  | -     | -     | 76,5  | 75,0  | 76,0  | -     | 77,0  | 69,5  | 61,5  | 47,6 | 61,0  | 54,5  | 47,9  | 35,8 | 106 |
| 108                                                      | -     | 68,6  | -     | 67,5  | 69,0  | 68,0  | -     | -     | 72,6  | 71,3  | 72,1  | -     | 74,3  | 68,6  | 60,8  | 47,3 | 60,3  | 53,8  | 47,3  | 35,6 | 108 |
| 109                                                      | -     | 66,7  | -     | 65,5  | -     | 66,0  | -     | -     | 70,7  | 69,5  | 70,2  | -     | 73,0  | 68,2  | 60,5  | 47,2 | 60,0  | 53,5  | 47,1  | 35,5 | 109 |
| 110                                                      | -     | 64,8  | -     | 63,5  | -     | 64,0  | -     | -     | 68,8  | 67,6  | 68,3  | -     | 71,6  | 67,8  | 60,1  | -    | 59,6  | 53,1  | 46,8  | 35,4 | 110 |
| 112                                                      | -     | 61,5  | -     | 60,5  | -     | -     | -     | -     | 65,0  | 64,0  | 64,5  | -     | 69,0  | 67,0  | 59,5  | -    | 59,0  | 52,5  | 46,3  | 35,2 | 112 |
| 114                                                      | -     | -     | -     | 58,5  | -     | -     | -     | -     | 61,5  | 60,3  | 61,0  | -     | 65,6  | 63,8  | 59,0  | -    | 58,2  | 51,9  | 45,8  | 35,0 | 114 |
| 115                                                      | -     | -     | -     | 57,5  | -     | -     | -     | -     | 59,7  | 58,5  | 59,2  | -     | 64,0  | 62,2  | 58,7  | -    | 57,8  | 51,6  | 45,6  | 34,9 | 115 |
| 116                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 58,0  | 57,0  | 57,5  | -     | 62,3  | 60,6  | 58,5  | -    | 57,5  | 51,3  | 45,4  | -    | 116 |
| 118                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 56,0  | 55,0  | -     | -     | 59,0  | 57,5  | 58,0  | -    | 56,5  | 50,5  | 45,0  | -    | 118 |
| 120                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 54,5  | 53,0  | -     | -     | 55,7  | 54,3  | 55,0  | -    | 55,1  | 50,1  | 44,6  | -    | 120 |
| 121                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | 52,0  | -     | -     | 54,2  | 53,2  | 53,5  | -    | 54,5  | 49,9  | 44,5  | -    | 121 |
| 122                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 53,3  | 52,3  | 52,5  | -    | 53,8  | 49,7  | 44,3  | -    | 122 |
| 124                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 51,5  | 50,5  | -     | -    | 52,5  | 49,3  | 44,0  | -    | 124 |
| 126                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 48,2  | -     | -    | 49,8  | 48,1  | 43,8  | -    | 126 |
| 127                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 47,1  | -     | -    | 49,0  | 47,6  | 43,6  | -    | 127 |
| 130                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 46,5  | 45,9  | -     | -    | 130 |
| 132                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 44,4  | 43,1  | -     | -    | 132 |
| 133                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 41,8  | -     | -    | 133 |

0 t 80 t 160 t 240 t 320 t 400 t 450 t

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SSL/LSL+LF  
SSL/LSL S1+LF

| <div> <div>250 t + 80 t</div> <div>15-33 m</div> <div>15-24 m</div> <div>9,60 m</div> <div>9.8 m/s</div> <div>360°</div> <div>EN13000</div> </div>                                                |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-----|
| <div> <div>120 m</div> <div>* SSL/LSL+LF ** SSL/LSL S1+LF</div> <div>15 m 21 m 27 m 33 m</div> <div>0 t 450 t 0 t 0-450 t</div> <div>15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30°</div> </div> |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |     |
| m                                                                                                                                                                                                 | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t     | t    | m   |
| 18                                                                                                                                                                                                | 190,0 | 239,0 | 190,0 | 237,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 18  |
| 19                                                                                                                                                                                                | 180,0 | 239,0 | 180,0 | 237,0 | 230,0 | 228,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 19  |
| 20                                                                                                                                                                                                | 170,0 | 239,0 | 170,0 | 237,0 | 230,0 | 228,0 | -     | -     | 200,0 | 198,0 | -     | -     | -     | -     | -     | -    | -     | -     | -     | -    | 20  |
| 22                                                                                                                                                                                                | 154,0 | 239,0 | 154,0 | 237,0 | 230,0 | 228,0 | 167,0 | 157,0 | 200,0 | 198,0 | 185,0 | -     | 160,0 | 158,0 | -     | -    | -     | -     | -     | -    | 22  |
| 24                                                                                                                                                                                                | 138,0 | 239,0 | 138,0 | 237,0 | 230,0 | 228,0 | 166,0 | 156,0 | 200,0 | 198,0 | 185,0 | -     | 160,0 | 158,0 | -     | -    | 129,0 | 128,0 | -     | -    | 24  |
| 25                                                                                                                                                                                                | 132,0 | 239,0 | 132,0 | 237,0 | 230,0 | 227,2 | 165,0 | 155,0 | 200,0 | 198,0 | 182,5 | 116,0 | 160,0 | 158,0 | 143,0 | -    | 129,0 | 127,7 | -     | -    | 25  |
| 26                                                                                                                                                                                                | 126,0 | 239,0 | 126,0 | 237,0 | 230,0 | 226,5 | 164,0 | 154,0 | 200,0 | 198,0 | 180,0 | 114,6 | 160,0 | 158,0 | 140,6 | -    | 129,0 | 127,5 | -     | -    | 26  |
| 27                                                                                                                                                                                                | 120,0 | 239,0 | 120,0 | 237,0 | 230,0 | 225,7 | 163,0 | 153,0 | 200,0 | 198,0 | 177,5 | 113,3 | 160,0 | 158,0 | 138,3 | -    | 129,0 | 127,2 | 112,0 | -    | 27  |
| 28                                                                                                                                                                                                | 114,0 | 239,0 | 114,0 | 237,0 | 230,0 | 225,0 | 162,0 | 152,0 | 200,0 | 198,0 | 175,0 | 112,0 | 160,0 | 158,0 | 136,0 | -    | 129,0 | 127,0 | 111,0 | -    | 28  |
| 29                                                                                                                                                                                                | 109,2 | 239,0 | 109,2 | 236,7 | 229,0 | 223,7 | 161,0 | 151,2 | 200,0 | 198,0 | 172,5 | 110,7 | 160,0 | 157,7 | 134,0 | 84,5 | 129,0 | 127,0 | 109,2 | -    | 29  |
| 30                                                                                                                                                                                                | 104,5 | 239,0 | 104,5 | 236,5 | 228,0 | 222,5 | 160,0 | 150,5 | 200,0 | 198,0 | 170,0 | 109,5 | 160,0 | 157,5 | 132,0 | 83,6 | 129,0 | 127,0 | 107,5 | -    | 30  |
| 32                                                                                                                                                                                                | 95,0  | 239,0 | 95,0  | 236,0 | 226,0 | 220,0 | 158,0 | 149,0 | 200,0 | 198,0 | 165,0 | 107,0 | 160,0 | 157,0 | 128,0 | 82,0 | 129,0 | 127,0 | 104,0 | 65,0 | 32  |
| 34                                                                                                                                                                                                | 87,2  | 239,0 | 87,0  | 235,0 | 224,0 | 217,5 | 156,5 | 147,5 | 198,0 | 195,0 | 160,5 | 105,0 | 159,5 | 154,5 | 124,0 | 80,0 | 128,5 | 125,5 | 100,7 | 63,5 | 34  |
| 38                                                                                                                                                                                                | 71,7  | 238,0 | 71,5  | 230,5 | 219,0 | 212,0 | 153,5 | 144,0 | 192,5 | 187,0 | 151,5 | 101,0 | 155,5 | 147,0 | 117,0 | 76,5 | 126,5 | 120,0 | 94,7  | 60,5 | 38  |
| 42                                                                                                                                                                                                | 58,4  | 234,6 | 58,4  | 220,6 | 212,6 | 203,3 | 150,3 | 139,6 | 185,3 | 177,0 | 143,6 | 97,1  | 148,3 | 138,0 | 111,0 | 73,5 | 122,3 | 112,6 | 89,6  | 57,8 | 42  |
| 46                                                                                                                                                                                                | 47,2  | 232,0 | 47,3  | 214,0 | 206,0 | 194,0 | 147,0 | 135,0 | 176,0 | 167,0 | 137,0 | 93,5  | 141,0 | 130,0 | 105,0 | 70,5 | 117,0 | 106,0 | 85,0  | 55,5 | 46  |
| 50                                                                                                                                                                                                | 36,8  | 224,6 | 37,0  | 205,6 | 198,0 | 185,3 | 143,0 | 130,3 | 168,0 | 158,3 | 131,0 | 90,1  | 134,3 | 123,3 | 100,3 | 67,8 | 111,0 | 100,0 | 81,0  | 53,1 | 50  |
| 54                                                                                                                                                                                                | 27,6  | 212,6 | 27,8  | 197,6 | 190,3 | 177,3 | 139,3 | 126,0 | 160,6 | 150,3 | 125,3 | 87,1  | 128,0 | 117,0 | 96,0  | 65,5 | 105,1 | 94,5  | 77,1  | 51,1 | 54  |
| 58                                                                                                                                                                                                | 19,6  | 194,0 | 19,8  | 191,0 | 183,0 | 170,0 | 136,0 | 122,0 | 154,0 | 143,0 | 120,0 | 84,5  | 122,0 | 111,0 | 92,0  | 63,5 | 99,5  | 89,5  | 73,5  | 49,4 | 58  |
| 62                                                                                                                                                                                                | 13,1  | 177,3 | 13,3  | 176,3 | 174,3 | 164,0 | 132,6 | 118,6 | 148,0 | 137,0 | 115,3 | 82,1  | 116,6 | 105,6 | 88,3  | 61,5 | 94,8  | 85,1  | 70,5  | 47,7 | 62  |
| 66                                                                                                                                                                                                | 7,0   | 162,0 | 7,3   | 162,3 | 163,0 | 158,0 | 129,0 | 115,8 | 142,0 | 131,3 | 111,0 | 79,8  | 111,6 | 101,0 | 84,8  | 59,5 | 90,5  | 81,2  | 67,5  | 46,1 | 66  |
| 67                                                                                                                                                                                                | -     | 158,7 | 5,9   | 159,0 | 159,5 | 156,5 | 128,0 | 115,2 | 140,5 | 130,0 | 110,0 | 79,2  | 110,5 | 100,0 | 84,0  | 59,0 | 89,5  | 80,3  | 66,7  | 45,7 | 67  |
| 70                                                                                                                                                                                                | -     | 149,0 | -     | 149,0 | 149,0 | 149,0 | 126,0 | 113,0 | 137,0 | 126,0 | 107,0 | 77,5  | 107,0 | 96,5  | 81,5  | 57,5 | 86,5  | 77,5  | 64,5  | 44,6 | 70  |
| 74                                                                                                                                                                                                | -     | 137,6 | -     | 137,6 | 137,6 | 137,6 | 123,3 | 110,3 | 132,3 | 120,6 | 103,0 | 75,5  | 103,0 | 92,8  | 78,5  | 56,3 | 82,8  | 74,6  | 62,2  | 43,3 | 74  |
| 78                                                                                                                                                                                                | -     | 127,0 | -     | 127,0 | 127,3 | 127,3 | 120,6 | 108,0 | 126,0 | 116,0 | 99,6  | 73,6  | 99,1  | 89,3  | 75,8  | 54,8 | 79,5  | 71,5  | 60,0  | 42,0 | 78  |
| 82                                                                                                                                                                                                | -     | 117,0 | -     | 117,0 | 118,0 | 118,0 | 118,0 | 106,0 | 118,0 | 112,0 | 97,0  | 72,0  | 95,5  | 86,0  | 73,5  | 53,5 | 76,5  | 68,5  | 58,0  | 40,9 | 82  |
| 86                                                                                                                                                                                                | -     | 109,0 | -     | 109,0 | 109,3 | 109,3 | 110,0 | 104,0 | 109,3 | 108,0 | 94,3  | 70,6  | 92,1  | 83,0  | 71,1  | 52,1 | 73,8  | 66,1  | 56,0  | 39,9 | 86  |
| 90                                                                                                                                                                                                | -     | 101,2 | -     | 101,5 | 101,5 | 101,6 | 102,2 | 100,5 | 101,7 | 102,4 | 91,6  | 69,3  | 89,0  | 80,1  | 69,0  | 51,0 | 71,1  | 63,5  | 54,2  | 38,9 | 90  |
| 94                                                                                                                                                                                                | -     | 94,0  | -     | 94,5  | 94,5  | 94,5  | 95,0  | 95,5  | 95,0  | 95,0  | 89,0  | 68,0  | 86,0  | 77,5  | 67,0  | 50,0 | 68,5  | 61,5  | 52,5  | 38,1 | 94  |
| 98                                                                                                                                                                                                | -     | 87,0  | -     | 87,5  | 87,8  | 87,8  | 88,3  | 88,8  | 88,6  | 88,6  | 87,0  | 67,1  | 83,6  | 75,2  | 65,5  | 49,4 | 66,5  | 59,5  | 51,1  | 37,3 | 98  |
| 100                                                                                                                                                                                               | -     | 83,5  | -     | 84,0  | 84,5  | 84,5  | 85,0  | 85,5  | 85,5  | 85,5  | 86,0  | 66,5  | 82,5  | 74,0  | 64,5  | 49,0 | 65,5  | 58,5  | 50,5  | 37,0 | 100 |
| 101                                                                                                                                                                                               | -     | 81,5  | -     | 82,0  | 82,5  | 82,5  | -     | 83,5  | 83,7  | 83,7  | 84,3  | 66,3  | 81,5  | 73,5  | 64,1  | 48,8 | 65,0  | 58,0  | 50,2  | 36,8 | 101 |
| 102                                                                                                                                                                                               | -     | 79,6  | -     | 80,1  | 80,5  | 80,6  | -     | -     | 82,0  | 82,0  | 82,6  | 66,1  | 80,6  | 73,0  | 63,8  | 48,6 | 64,5  | 57,6  | 49,9  | 36,6 | 102 |
| 106                                                                                                                                                                                               | -     | 72,0  | -     | 72,5  | 72,5  | 73,0  | -     | -     | 75,0  | 75,0  | 76,0  | 65,5  | 77,0  | 71,0  | 62,5  | 47,9 | 62,5  | 56,0  | 48,7  | 36,0 | 106 |
| 107                                                                                                                                                                                               | -     | 70,1  | -     | 70,6  | 70,6  | 71,1  | -     | -     | 73,2  | 73,2  | 74,2  | 65,0  | 75,4  | 70,5  | 62,1  | 47,7 | 62,0  | 55,5  | 48,4  | 35,8 | 107 |
| 110                                                                                                                                                                                               | -     | 64,6  | -     | 65,1  | 65,1  | 65,6  | -     | -     | 68,0  | 68,0  | 69,0  | -     | 70,6  | 69,0  | 61,1  | 47,3 | 60,8  | 54,3  | 47,5  | 35,5 | 110 |
| 112                                                                                                                                                                                               | -     | 61,0  | -     | 61,5  | 61,5  | 62,0  | -     | -     | 64,5  | 64,5  | 65,5  | -     | 67,5  | 68,0  | 60,5  | 47,1 | 60,0  | 53,5  | 47,0  | 35,3 | 112 |
| 113                                                                                                                                                                                               | -     | 59,2  | -     | 59,6  | -     | 60,1  | -     | -     | 62,7  | 62,8  | 63,8  | -     | 65,9  | 66,4  | 60,2  | 47,0 | 59,6  | 53,2  | 46,7  | 35,2 | 113 |
| 114                                                                                                                                                                                               | -     | 57,5  | -     | 57,8  | -     | 58,3  | -     | -     | 61,0  | 61,1  | 62,1  | -     | 64,3  | 64,8  | 60,0  | -    | 59,3  | 53,0  | 46,5  | 35,1 | 114 |
| 115                                                                                                                                                                                               | -     | 56,0  | -     | 56,0  | -     | 56,5  | -     | -     | 59,2  | 59,5  | 60,5  | -     | 62,7  | 63,2  | 59,7  | -    | 59,0  | 52,6  | 46,3  | 35,0 | 115 |
| 118                                                                                                                                                                                               | -     | 53,0  | -     | 53,0  | -     | -     | -     | -     | 54,5  | 54,5  | 55,5  | -     | 58,0  | 58,5  | 59,0  | -    | 58,0  | 51,5  | 45,6  | 34,8 | 118 |
| 119                                                                                                                                                                                               | -     | 52,0  | -     | 51,9  | -     | -     | -     | -     | 52,8  | 53,0  | 53,7  | -     | 56,5  | 56,8  | 57,5  | -    | 57,5  | 51,3  | 45,4  | 34,7 | 119 |
| 120                                                                                                                                                                                               | -     | 51,0  | -     | 50,8  | -     | -     | -     | -     | 51,7  | 51,7  | 52,0  | -     | 55,0  | 55,1  | 56,0  | -    | 57,0  | 51,1  | 45,2  | -    | 120 |
| 121                                                                                                                                                                                               | -     | -     | -     | 49,8  | -     | -     | -     | -     | 50,8  | 50,8  | 51,0  | -     | 53,5  | 53,5  | 54,5  | -    | 55,6  | 51,0  | 45,0  | -    | 121 |
| 122                                                                                                                                                                                               | -     | -     | -     | -     | -     | -     | -     | -     | 49,9  | 49,9  | -     | -     | 52,0  | 52,1  | 53,0  | -    | 54,2  | 50,6  | 44,9  | -    | 122 |
| 124                                                                                                                                                                                               | -     | -     | -     | -     | -     | -     | -     | -     | 48,2  | 48,2  | -     | -     | 49,0  | 49,3  | 50,0  | -    | 51,5  | 50,0  | 44,5  | -    | 124 |
| 126                                                                                                                                                                                               | -     | -     | -     | -     | -     | -     | -     | -     | -     | 45,9  | -     | -     | 47,0  | 47,1  | 47,5  | -    | 48,7  | 47,8  | 44,2  | -    | 126 |
| 127                                                                                                                                                                                               | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 46,1  | 46,3  | 46,7  | -    | 47,4  | 46,8  | 44,0  | -    | 127 |
| 130                                                                                                                                                                                               | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 43,3  | 43,9  | -     | -    | 44,3  | 43,9  | 43,6  | -    | 130 |
| 132                                                                                                                                                                                               | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 40,9  | 41,2  | -     | -    | 42,4  | 42,2  | 42,7  | -    | 132 |
| 134                                                                                                                                                                                               | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 40,5  | 40,5  | -     | -    | 134 |
| 136                                                                                                                                                                                               | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 38,6  | 38,9  | -     | -    | 136 |
| 138                                                                                                                                                                                               | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 36,3  | -     | -    | 138 |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|--|-----|------|-------|-------|-------|-------|-------|



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

## SSL/LSL+LF SSL/LSL S1+LF

| 250 t + 80 t 15-33 m 15-24 m 9,60 m 9.8 m/s 360° EN13000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |     |
|----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-----|
| 126 m                                                    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |     |
| * SSL/LSL+LF ** SSL/LSL S1+LF                            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |     |
| 15 m 21 m 27 m 33 m                                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |     |
| 0 t 450 t 0 t 0-450 t                                    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |     |
| 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30°          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |     |
| m                                                        | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t     | m   |
| 19                                                       | 175,0 | 208,0 | 174,0 | 214,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 19  |
| 20                                                       | 165,0 | 208,0 | 165,0 | 214,0 | 199,0 | 206,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 20  |
| 21                                                       | 157,5 | 208,0 | 157,2 | 214,0 | 199,0 | 206,0 | -     | -     | 176,0 | 182,0 | -     | -     | -     | -     | -     | -    | -     | -     | -     | 21  |
| 22                                                       | 150,0 | 208,0 | 149,5 | 214,0 | 199,0 | 206,0 | 163,0 | 155,0 | 175,6 | 182,0 | -     | -     | -     | -     | -     | -    | -     | -     | -     | 22  |
| 23                                                       | 142,5 | 208,0 | 141,7 | 214,0 | 199,0 | 206,0 | 162,5 | 155,0 | 175,3 | 182,0 | 172,0 | -     | 147,0 | 147,0 | -     | -    | -     | -     | -     | 23  |
| 24                                                       | 135,0 | 208,0 | 134,0 | 214,0 | 199,0 | 206,0 | 162,0 | 155,0 | 175,0 | 182,0 | 172,0 | -     | 147,0 | 147,0 | -     | -    | -     | -     | -     | 24  |
| 25                                                       | 129,0 | 208,0 | 128,0 | 214,0 | 199,0 | 206,0 | 161,0 | 154,2 | 175,0 | 182,0 | 172,0 | -     | 147,0 | 147,0 | 141,0 | -    | 120,0 | 120,0 | -     | 25  |
| 26                                                       | 123,0 | 208,0 | 122,0 | 214,0 | 199,0 | 206,0 | 160,0 | 153,5 | 175,0 | 182,0 | 172,0 | 115,0 | 147,0 | 147,0 | 139,6 | -    | 120,0 | 120,0 | -     | 26  |
| 28                                                       | 111,0 | 208,0 | 110,0 | 214,0 | 199,0 | 206,0 | 158,0 | 152,0 | 175,0 | 182,0 | 172,0 | 113,0 | 147,0 | 147,0 | 137,0 | -    | 120,0 | 120,0 | 111,0 | 28  |
| 29                                                       | 106,3 | 208,0 | 105,3 | 213,7 | 199,0 | 206,0 | 157,2 | 151,2 | 175,0 | 181,7 | 170,7 | 111,7 | 147,0 | 147,0 | 135,0 | 85,0 | 120,0 | 119,7 | 109,2 | 29  |
| 30                                                       | 101,7 | 208,0 | 100,7 | 213,5 | 199,0 | 206,0 | 156,5 | 150,5 | 175,0 | 181,5 | 169,5 | 110,5 | 147,0 | 147,0 | 133,0 | 84,0 | 120,0 | 119,5 | 107,5 | 30  |
| 33                                                       | 88,6  | 208,0 | 87,7  | 212,2 | 199,0 | 205,5 | 154,2 | 148,2 | 174,7 | 180,7 | 164,7 | 106,7 | 147,0 | 147,0 | 127,2 | 81,1 | 120,0 | 119,0 | 102,6 | 33  |
| 34                                                       | 84,7  | 208,0 | 84,0  | 211,5 | 199,0 | 205,0 | 153,5 | 147,5 | 174,5 | 180,5 | 162,5 | 105,5 | 147,0 | 147,0 | 125,5 | 80,2 | 120,0 | 119,0 | 101,2 | 34  |
| 38                                                       | 70,0  | 207,5 | 69,5  | 208,5 | 199,0 | 202,5 | 150,5 | 144,5 | 174,0 | 178,5 | 154,0 | 101,2 | 146,5 | 146,0 | 118,5 | 77,0 | 119,5 | 118,5 | 95,7  | 38  |
| 42                                                       | 57,4  | 200,6 | 56,9  | 200,6 | 196,0 | 197,0 | 147,3 | 140,6 | 172,6 | 175,0 | 146,3 | 97,8  | 143,6 | 140,6 | 112,3 | 74,0 | 117,6 | 114,3 | 90,6  | 42  |
| 46                                                       | 46,4  | 193,0 | 45,9  | 194,0 | 190,0 | 189,0 | 144,0 | 136,0 | 170,0 | 171,0 | 139,0 | 94,5  | 139,0 | 132,0 | 107,0 | 71,0 | 115,0 | 107,0 | 86,0  | 46  |
| 50                                                       | 36,0  | 184,3 | 35,5  | 184,3 | 182,0 | 182,6 | 141,3 | 132,0 | 163,3 | 162,3 | 133,0 | 91,1  | 133,0 | 125,3 | 102,0 | 68,3 | 110,3 | 101,6 | 82,0  | 50  |
| 54                                                       | 26,8  | 177,6 | 26,3  | 179,0 | 172,0 | 174,6 | 138,6 | 128,0 | 156,0 | 154,3 | 127,3 | 88,1  | 127,3 | 119,0 | 97,5  | 66,0 | 105,6 | 96,5  | 78,1  | 54  |
| 58                                                       | 18,8  | 173,0 | 18,3  | 173,0 | 168,0 | 170,0 | 136,0 | 124,0 | 152,0 | 147,0 | 122,0 | 85,5  | 122,0 | 113,0 | 93,5  | 64,0 | 101,0 | 91,5  | 74,5  | 58  |
| 62                                                       | 12,2  | 166,0 | 11,8  | 166,6 | 160,6 | 163,0 | 133,3 | 120,6 | 144,0 | 140,3 | 117,3 | 83,1  | 117,3 | 107,6 | 89,8  | 62,0 | 96,6  | 87,1  | 71,5  | 62  |
| 66                                                       | 6,2   | 161,0 | 5,8   | 161,0 | 157,0 | 158,3 | 130,5 | 117,6 | 140,0 | 134,3 | 113,0 | 80,8  | 112,0 | 103,0 | 86,3  | 60,1 | 92,5  | 83,0  | 68,6  | 66  |
| 70                                                       | -     | 148,0 | -     | 148,0 | 149,0 | 148,0 | 128,0 | 115,0 | 134,0 | 129,0 | 109,0 | 78,5  | 108,0 | 99,0  | 83,0  | 58,5 | 88,5  | 79,5  | 65,5  | 70  |
| 74                                                       | -     | 136,6 | -     | 136,6 | 137,0 | 136,6 | 124,6 | 112,3 | 130,6 | 123,6 | 105,0 | 76,5  | 104,6 | 95,0  | 80,0  | 56,8 | 84,8  | 76,1  | 63,2  | 74  |
| 78                                                       | -     | 126,0 | -     | 126,0 | 126,3 | 126,3 | 121,3 | 109,6 | 125,0 | 119,0 | 101,6 | 74,6  | 101,1 | 91,3  | 77,3  | 55,3 | 81,3  | 73,0  | 61,0  | 78  |
| 82                                                       | -     | 116,0 | -     | 116,0 | 117,0 | 117,0 | 118,0 | 107,0 | 117,0 | 115,0 | 99,0  | 73,0  | 97,5  | 88,0  | 75,0  | 54,0 | 78,0  | 70,0  | 59,0  | 82  |
| 86                                                       | -     | 108,0 | -     | 108,0 | 108,3 | 108,3 | 109,3 | 105,0 | 109,0 | 107,6 | 96,0  | 71,6  | 94,1  | 85,0  | 72,6  | 52,8 | 75,5  | 67,5  | 57,0  | 86  |
| 90                                                       | -     | 100,0 | -     | 100,3 | 100,7 | 100,6 | 101,5 | 100,7 | 101,2 | 100,7 | 93,2  | 70,3  | 91,0  | 82,1  | 70,5  | 51,5 | 72,6  | 65,0  | 55,1  | 90  |
| 94                                                       | -     | 93,5  | -     | 93,0  | 94,0  | 93,5  | 94,5  | 94,0  | 94,0  | 94,0  | 91,0  | 69,0  | 88,0  | 79,5  | 68,5  | 50,5 | 70,0  | 63,0  | 53,5  | 94  |
| 98                                                       | -     | 87,1  | -     | 87,0  | 87,6  | 87,1  | 88,1  | 87,6  | 87,6  | 87,6  | 87,6  | 68,0  | 85,6  | 77,1  | 66,8  | 49,7 | 68,0  | 61,0  | 52,1  | 98  |
| 102                                                      | -     | 80,5  | -     | 80,3  | 81,0  | 80,5  | 81,7  | 81,1  | 81,5  | 81,3  | 82,0  | 67,0  | 82,0  | 74,8  | 65,1  | 49,0 | 66,0  | 59,0  | 50,8  | 102 |
| 104                                                      | -     | 77,0  | -     | 76,6  | 77,5  | 77,0  | 78,5  | 77,8  | 78,5  | 78,1  | 79,0  | 66,5  | 79,5  | 73,6  | 64,3  | 48,6 | 65,0  | 58,0  | 50,1  | 104 |
| 106                                                      | -     | 73,5  | -     | 73,0  | 74,0  | 73,5  | -     | 74,5  | 75,5  | 75,0  | 76,0  | 66,0  | 77,0  | 72,5  | 63,5  | 48,3 | 64,0  | 57,0  | 49,5  | 106 |
| 110                                                      | -     | 66,5  | -     | 66,0  | 67,0  | 66,5  | -     | -     | 68,8  | 68,3  | 69,3  | 65,3  | 71,0  | 69,1  | 62,1  | 47,6 | 62,3  | 55,6  | 48,3  | 110 |
| 112                                                      | -     | 63,0  | -     | 62,5  | 63,5  | 63,0  | -     | -     | 65,5  | 65,0  | 66,0  | 65,0  | 68,0  | 67,5  | 61,5  | 47,3 | 61,5  | 55,0  | 47,8  | 112 |
| 114                                                      | -     | 59,7  | -     | 59,2  | 60,0  | 59,7  | -     | -     | 62,2  | 62,0  | 62,8  | -     | 65,0  | 64,5  | 60,8  | 47,1 | 60,7  | 54,3  | 47,3  | 114 |
| 117                                                      | -     | 54,7  | -     | 54,2  | 55,0  | 54,7  | -     | -     | 57,5  | 57,5  | 58,0  | -     | 60,5  | 60,0  | 59,8  | 46,8 | 59,5  | 53,3  | 46,5  | 117 |
| 118                                                      | -     | 53,0  | -     | 52,5  | 53,5  | 53,0  | -     | -     | 56,0  | 56,0  | 56,5  | -     | 59,0  | 58,5  | 59,5  | -    | 59,0  | 53,0  | 46,3  | 118 |
| 120                                                      | -     | 50,3  | -     | 49,7  | 50,5  | 50,0  | -     | -     | 53,0  | 52,9  | 53,5  | -     | 56,1  | 55,6  | 56,6  | -    | 56,8  | 52,2  | 45,9  | 120 |
| 122                                                      | -     | 48,7  | -     | 48,0  | -     | -     | -     | -     | 50,1  | 49,9  | 50,5  | -     | 53,3  | 52,8  | 53,8  | -    | 54,6  | 51,6  | 45,5  | 122 |
| 123                                                      | -     | 47,9  | -     | 47,1  | -     | -     | -     | -     | 48,6  | 48,4  | 49,0  | -     | 51,9  | 51,4  | 52,4  | -    | 53,5  | 51,3  | 45,3  | 123 |
| 124                                                      | -     | 47,1  | -     | 46,3  | -     | -     | -     | -     | 47,4  | 46,9  | 47,5  | -     | 50,5  | 50,0  | 51,0  | -    | 52,5  | 51,0  | 45,1  | 124 |
| 126                                                      | -     | -     | -     | 43,9  | -     | -     | -     | -     | 45,4  | 44,8  | 45,1  | -     | 47,7  | 47,3  | 48,2  | -    | 49,9  | 48,7  | 44,7  | 126 |
| 130                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 41,6  | 41,6  | -     | -     | 43,3  | 42,1  | 42,6  | -    | 44,7  | 44,3  | 44,0  | 130 |
| 132                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 39,2  | 38,8  | -     | -     | 41,7  | 40,6  | 40,9  | -    | 42,1  | 41,7  | 41,8  | 132 |
| 134                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 39,6  | 39,1  | -     | -    | 40,4  | 39,2  | 39,7  | 134 |
| 136                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 37,5  | 37,2  | -     | -    | 39,0  | 37,5  | 38,0  | 136 |
| 137                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 35,9  | -     | -    | 38,0  | 36,6  | 37,3  | 137 |
| 138                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 37,1  | 35,8  | -     | 138 |
| 140                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 35,2  | 34,1  | -     | 140 |
| 142                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 32,5  | -     | 142 |
| 143                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 31,3  | -     | 143 |

0 t 80 t 160 t 240 t 320 t 400 t 450 t

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SSL/LSL+LF  
SSL/LSL S1+LF

| <div> <div>250 t + 80 t</div> <div>15-33 m</div> <div>15-24 m</div> <div>9,60 m</div> <div>9.8 m/s</div> <div>360°</div> <div>EN13000</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |      |      |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|------|-----|
| <div> <div>132 m</div> <div> <div>* SSL/LSL+LF</div> <div>** SSL/LSL S1+LF</div> </div> <div> <div>**</div> <div>*</div> <div>**</div> <div>*</div> <div>**</div> <div>*</div> <div>**</div> <div>*</div> <div>**</div> <div>*</div> <div>**</div> <div>*</div> </div> <div> <div>15 m</div> <div>21 m</div> <div>27 m</div> <div>33 m</div> </div> <div> <div>0 t</div> <div>0t-450t</div> <div>0 t</div> </div> <div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> </div> </div> |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |      |      |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t    | t    | m   |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 168,0 | 194,0 | 166,0 | 186,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | -    | 19  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 159,0 | 194,0 | 161,0 | 186,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | -    | 20  |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 151,5 | 194,0 | 153,2 | 186,0 | 186,0 | 170,0 | -     | -     | 165,0 | 150,0 | -     | -     | -     | -     | -     | -    | -     | -     | -    | -    | 21  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 144,0 | 194,0 | 145,5 | 186,0 | 186,0 | 170,0 | -     | -     | 165,0 | 150,0 | -     | -     | -     | -     | -     | -    | -     | -     | -    | -    | 22  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 136,5 | 194,0 | 137,7 | 186,0 | 186,0 | 170,0 | 159,0 | 143,0 | 165,0 | 150,0 | 135,0 | -     | 139,0 | 125,0 | -     | -    | -     | -     | -    | -    | 23  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 129,0 | 194,0 | 130,0 | 186,0 | 186,0 | 170,0 | 159,0 | 143,0 | 165,0 | 150,0 | 135,0 | -     | 139,0 | 125,0 | -     | -    | -     | -     | -    | -    | 24  |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 123,2 | 194,0 | 124,2 | 185,7 | 186,0 | 170,0 | 158,2 | 142,7 | 165,0 | 150,0 | 135,0 | -     | 139,0 | 125,0 | -     | -    | 115,0 | 104,0 | -    | -    | 25  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 117,5 | 194,0 | 118,5 | 185,5 | 186,0 | 170,0 | 157,5 | 142,5 | 165,0 | 150,0 | 135,0 | 108,0 | 139,0 | 125,0 | 109,0 | -    | 115,0 | 104,0 | -    | -    | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 106,0 | 194,0 | 107,0 | 185,0 | 186,0 | 170,0 | 156,0 | 142,0 | 165,0 | 150,0 | 135,0 | 108,0 | 139,0 | 125,0 | 109,0 | -    | 115,0 | 104,0 | 91,5 | -    | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 96,7  | 194,0 | 98,0  | 183,5 | 186,0 | 169,5 | 155,0 | 140,5 | 165,0 | 149,5 | 135,0 | 106,5 | 139,0 | 125,0 | 109,0 | 82,0 | 115,0 | 104,0 | 91,5 | -    | 30  |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 83,7  | 193,7 | 85,2  | 181,2 | 186,0 | 168,5 | 153,2 | 138,2 | 165,0 | 148,5 | 134,7 | 104,0 | 138,7 | 124,5 | 109,0 | 81,2 | 114,7 | 104,0 | 91,5 | 63,0 | 33  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 80,0  | 193,5 | 81,5  | 180,5 | 186,0 | 168,0 | 152,5 | 137,5 | 165,0 | 148,0 | 134,5 | 103,0 | 138,5 | 124,0 | 109,0 | 80,5 | 114,5 | 104,0 | 91,5 | 62,6 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 66,0  | 192,5 | 67,7  | 177,5 | 186,0 | 165,5 | 149,5 | 135,0 | 164,5 | 145,0 | 132,5 | 99,7  | 138,0 | 121,5 | 108,5 | 77,2 | 114,0 | 103,0 | 91,2 | 60,7 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 52,9  | 189,6 | 56,0  | 173,6 | 184,6 | 162,0 | 146,6 | 132,6 | 163,0 | 141,0 | 129,3 | 97,0  | 137,6 | 118,3 | 106,6 | 74,1 | 114,0 | 100,6 | 89,6 | 58,3 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 39,7  | 185,0 | 45,0  | 169,0 | 182,0 | 158,0 | 144,0 | 130,0 | 161,0 | 137,0 | 126,0 | 94,0  | 137,0 | 115,0 | 104,0 | 71,5 | 114,0 | 98,0  | 87,0 | 56,0 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 31,5  | 177,6 | 34,6  | 161,0 | 172,6 | 153,3 | 141,3 | 126,6 | 157,6 | 132,3 | 122,6 | 91,0  | 134,3 | 111,0 | 101,0 | 68,8 | 110,6 | 95,0  | 83,0 | 53,6 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 23,3  | 169,0 | 25,4  | 151,3 | 164,6 | 145,6 | 138,6 | 123,6 | 148,3 | 127,3 | 119,0 | 88,3  | 130,6 | 107,0 | 97,8  | 66,5 | 106,6 | 91,8  | 79,1 | 51,6 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15,2  | 165,0 | 17,4  | 146,0 | 160,0 | 136,0 | 136,0 | 121,0 | 145,0 | 122,0 | 115,0 | 86,0  | 126,0 | 103,0 | 94,5  | 64,5 | 102,0 | 88,5  | 75,5 | 50,0 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8,7   | 157,0 | 10,9  | 136,4 | 153,6 | 132,0 | 133,3 | 118,3 | 137,6 | 117,3 | 111,0 | 83,6  | 120,0 | 99,6  | 91,1  | 62,5 | 98,3  | 85,1  | 72,5 | 48,4 | 62  |
| 64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5,5   | 155,0 | 7,7   | 134,0 | 152,0 | 130,0 | 132,0 | 117,0 | 136,0 | 115,0 | 109,0 | 82,5  | 117,0 | 98,0  | 89,5  | 61,5 | 96,5  | 83,5  | 71,0 | 47,6 | 64  |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 153,3 | 6,2   | 133,0 | 151,0 | 127,5 | 131,5 | 115,5 | 135,0 | 112,5 | 108,3 | 82,0  | 116,1 | 97,0  | 88,6  | 61,0 | 95,5  | 82,7  | 70,3 | 47,2 | 65  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 151,6 | -     | 132,0 | 150,0 | 125,0 | 131,0 | 115,0 | 134,0 | 110,0 | 107,6 | 81,5  | 115,3 | 96,0  | 87,7  | 60,6 | 94,5  | 82,0  | 69,6 | 46,8 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 145,0 | -     | 128,0 | 146,0 | 121,0 | 129,0 | 113,0 | 130,0 | 105,0 | 101,0 | 79,5  | 112,0 | 92,5  | 84,5  | 59,0 | 90,0  | 79,0  | 67,0 | 45,3 | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 133,6 | -     | 122,3 | 134,6 | 117,0 | 126,3 | 110,0 | 126,3 | 101,6 | 97,3  | 77,5  | 107,3 | 89,5  | 81,5  | 57,3 | 86,3  | 76,3  | 64,3 | 44,0 | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 123,3 | -     | 119,0 | 124,0 | 114,0 | 121,6 | 107,3 | 121,6 | 96,1  | 93,6  | 75,6  | 103,3 | 84,0  | 78,6  | 55,8 | 83,0  | 73,6  | 62,0 | 42,8 | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 114,0 | -     | 115,0 | 114,0 | 112,0 | 115,0 | 106,0 | 115,0 | 93,5  | 90,5  | 74,0  | 100,0 | 80,5  | 76,0  | 54,5 | 80,0  | 71,0  | 60,0 | 41,6 | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 105,0 | -     | 107,0 | 106,0 | 106,0 | 107,0 | 104,0 | 106,3 | 91,5  | 88,8  | 72,3  | 96,3  | 78,5  | 73,8  | 53,1 | 77,0  | 68,1  | 58,0 | 40,6 | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 97,5  | -     | 99,5  | 98,3  | 100,0 | 99,3  | 100,3 | 98,5  | 89,0  | 86,8  | 71,1  | 93,0  | 75,3  | 71,5  | 52,1 | 74,5  | 64,6  | 56,1 | 39,6 | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 90,5  | -     | 92,5  | 91,0  | 93,0  | 92,0  | 93,5  | 91,5  | 87,5  | 85,5  | 69,5  | 90,0  | 74,0  | 69,5  | 51,0 | 72,0  | 63,0  | 54,5 | 38,7 | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 84,5  | -     | 86,1  | 84,6  | 86,6  | 85,3  | 87,1  | 85,1  | 84,8  | 83,8  | 68,5  | 85,3  | 72,8  | 67,8  | 50,2 | 69,6  | 61,6  | 52,8 | 37,9 | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 78,1  | -     | 79,8  | 78,3  | 80,3  | 78,8  | 81,0  | 79,0  | 80,6  | 80,5  | 67,5  | 80,1  | 72,0  | 66,1  | 49,4 | 67,5  | 59,8  | 51,4 | 37,1 | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 71,5  | -     | 73,5  | 72,0  | 74,0  | 72,5  | 75,0  | 73,0  | 75,0  | 75,5  | 66,5  | 74,5  | 71,0  | 64,5  | 48,6 | 65,5  | 58,5  | 50,0 | 36,5 | 106 |
| 108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 68,0  | -     | 70,1  | 68,6  | 70,6  | 69,0  | 71,5  | 69,8  | 71,8  | 72,5  | 66,1  | 71,5  | 69,8  | 63,8  | 48,2 | 64,5  | 57,6  | 49,5 | 36,2 | 108 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 64,7  | -     | 66,8  | 65,3  | 67,3  | -     | 68,0  | 66,6  | 68,6  | 69,5  | 65,8  | 68,5  | 68,6  | 63,1  | 47,9 | 63,5  | 56,8  | 49,0 | 35,9 | 110 |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 58,3  | -     | 60,5  | 58,8  | 61,0  | -     | -     | 60,5  | 62,5  | 63,5  | 63,5  | 62,6  | 64,7  | 61,6  | 47,3 | 61,0  | 55,2  | 48,0 | 35,4 | 114 |
| 116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 55,1  | -     | 57,5  | 55,6  | 58,0  | -     | -     | 57,5  | 59,5  | 60,5  | 61,5  | 59,8  | 61,9  | 60,8  | 47,0 | 59,5  | 54,4  | 47,5 | 35,1 | 116 |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 52,0  | -     | 54,5  | 52,5  | 55,0  | -     | -     | 54,5  | 56,5  | 57,5  | -     | 57,0  | 59,0  | 60,0  | 46,8 | 58,0  | 54,0  | 47,0 | 34,9 | 118 |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 46,0  | -     | 48,5  | 46,5  | 48,9  | -     | -     | 48,8  | 51,0  | 51,7  | -     | 51,5  | 53,6  | 54,3  | 46,4 | 52,6  | 52,6  | 46,0 | 34,5 | 122 |
| 124                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 43,7  | -     | 45,5  | 43,9  | 45,9  | -     | -     | 46,0  | 48,3  | 48,9  | -     | 48,8  | 51,0  | 51,5  | -    | 50,0  | 52,0  | 45,6 | 34,4 | 124 |
| 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 42,8  | -     | 44,3  | -     | 44,6  | -     | -     | 44,6  | 46,9  | 47,5  | -     | 47,5  | 49,6  | 50,2  | -    | 48,8  | 50,8  | 45,4 | 34,3 | 125 |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 42,0  | -     | 43,5  | -     | -     | -     | -     | 43,2  | 45,5  | 46,1  | -     | 46,2  | 48,3  | 48,9  | -    | 47,6  | 49,6  | 45,2 | 34,2 | 126 |
| 127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 41,1  | -     | 42,7  | -     | -     | -     | -     | 41,9  | 44,2  | 44,7  | -     | 44,9  | 47,0  | 47,7  | -    | 46,4  | 48,5  | 45,0 | 34,2 | 127 |
| 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 40,3  | -     | 41,9  | -     | -     | -     | -     | 40,6  | 42,8  | 43,3  | -     | 43,6  | 45,7  | 46,4  | -    | 45,2  | 47,3  | 44,8 | -    | 128 |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | 40,3  | -     | -     | -     | -     | 39,0  | 40,4  | 40,7  | -     | 41,0  | 43,1  | 43,9  | -    | 42,9  | 45,0  | 44,5 | -    | 130 |
| 131                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | 39,0  | -     | -     | -     | -     | 38,0  | 39,6  | 39,9  | -     | 39,7  | 41,8  | 42,6  | -    | 41,7  | 43,8  | 43,5 | -    | 131 |
| 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -     | -     | -     | -     | 35,1  | 37,1  | -     | -     | 37,3  | 38,0  | 38,7  | -    | 38,1  | 40,2  | 40,6 | -    | 134 |
| 136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -     | -     | -     | -     | 33,2  | 35,5  | -     | -     | 35,8  | 36,4  | 36,8  | -    | 36,2  | 37,8  | 38,7 | -    | 136 |
| 137                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -     | -     | -     | -     | -     | 34,2  | -     | -     | 34,7  | 35,5  | -     | -    | 35,4  | 36,6  | 37,5 | -    | 137 |
| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 33,7  | 34,7  | -     | -    | 34,6  | 35,4  | 36,3 | -    | 138 |
| 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 31,6  | 33,0  | -     | -    | 33,0  | 33,5  | 34,0 | -    | 140 |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 31,4  | -     | -    | 31,4  | 32,2  | 32,6 | -    | 142 |
| 143                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 30,2  | -     | -    | 30,3  | 31,3  | -    | -    | 143 |
| 146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 27,0  | 28,8  | -    | -    | 146 |
| 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 24,9  | 27,1  | -    | -    | 148 |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|--|-----|------|-------|-------|-------|-------|-------|

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

## SSL/LSL+LF SSL/LSL S1+LF

| 250 t + 80 t 15-33 m 15-24 m 9,60 m 9.8 m/s 360° EN13000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |      |     |
|----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|-----|
| 138 m                                                    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |      |     |
| * SSL/LSL+LF ** SSL/LSL S1+LF                            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |      |     |
| 15 m 21 m 27 m 33 m                                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |      |     |
| 0 t 0t-450t 0 t 0-450 t                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |      |     |
| 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30°          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |      |     |
| m                                                        | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t    | m   |
| 20                                                       | 152,0 | 181,0 | 150,0 | 165,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 20  |
| 21                                                       | 144,7 | 181,0 | 143,5 | 164,7 | 175,0 | 158,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    | 21  |
| 22                                                       | 137,5 | 181,0 | 137,0 | 164,5 | 175,0 | 158,0 | -     | -     | 155,0 | 141,0 | -     | -     | -     | -     | -     | -    | -     | -     | -    | 22  |
| 23                                                       | 130,2 | 181,0 | 131,2 | 164,2 | 175,0 | 158,0 | 155,0 | 130,0 | 155,0 | 141,0 | -     | -     | -     | -     | -     | -    | -     | -     | -    | 23  |
| 24                                                       | 123,0 | 181,0 | 126,0 | 164,0 | 175,0 | 158,0 | 155,0 | 130,0 | 155,0 | 141,0 | 129,0 | -     | 131,0 | 119,0 | -     | -    | -     | -     | -    | 24  |
| 26                                                       | 112,0 | 181,0 | 115,0 | 163,0 | 175,0 | 157,0 | 154,0 | 129,5 | 155,0 | 140,0 | 129,0 | -     | 131,0 | 119,0 | 107,0 | -    | 109,0 | 101,0 | -    | 26  |
| 27                                                       | 106,5 | 181,0 | 109,5 | 162,5 | 175,0 | 156,5 | 153,5 | 129,2 | 155,0 | 139,5 | 129,0 | 109,0 | 131,0 | 119,0 | 107,0 | -    | 109,0 | 101,0 | -    | 27  |
| 28                                                       | 101,0 | 181,0 | 104,0 | 162,0 | 175,0 | 156,0 | 153,0 | 129,0 | 155,0 | 139,0 | 129,0 | 109,0 | 131,0 | 119,0 | 107,0 | -    | 109,0 | 101,0 | -    | 28  |
| 29                                                       | 96,5  | 180,7 | 99,5  | 161,2 | 174,7 | 155,2 | 152,5 | 128,7 | 155,0 | 138,2 | 128,7 | 108,7 | 131,0 | 118,7 | 106,7 | -    | 109,0 | 101,0 | 90,5 | 29  |
| 30                                                       | 92,0  | 180,5 | 95,0  | 160,5 | 174,5 | 154,5 | 152,0 | 128,5 | 155,0 | 137,5 | 128,5 | 108,5 | 131,0 | 118,5 | 106,5 | 83,0 | 109,0 | 101,0 | 90,5 | 30  |
| 34                                                       | 75,7  | 179,0 | 78,7  | 157,0 | 173,5 | 151,5 | 150,0 | 127,5 | 154,5 | 134,5 | 127,0 | 106,5 | 131,0 | 117,0 | 105,5 | 80,7 | 109,0 | 100,5 | 90,0 | 34  |
| 38                                                       | 62,2  | 177,0 | 65,5  | 153,0 | 172,0 | 148,0 | 147,5 | 126,0 | 153,0 | 131,5 | 125,0 | 103,0 | 131,0 | 114,5 | 104,5 | 77,5 | 109,0 | 99,2  | 89,0 | 38  |
| 42                                                       | 49,5  | 175,0 | 53,0  | 149,0 | 170,0 | 144,0 | 144,6 | 124,0 | 151,0 | 128,3 | 122,3 | 99,3  | 130,0 | 111,6 | 102,6 | 74,6 | 108,6 | 97,3  | 87,8 | 42  |
| 46                                                       | 36,7  | 173,0 | 40,2  | 145,0 | 168,0 | 140,0 | 142,0 | 122,0 | 149,0 | 125,0 | 119,0 | 96,0  | 128,0 | 109,0 | 100,0 | 72,0 | 108,0 | 95,0  | 86,5 | 46  |
| 50                                                       | 28,5  | 164,3 | 32,0  | 140,3 | 159,3 | 136,0 | 140,0 | 120,0 | 146,3 | 121,0 | 115,6 | 92,6  | 126,0 | 105,6 | 98,0  | 69,3 | 107,3 | 92,6  | 83,5 | 50  |
| 54                                                       | 20,3  | 158,0 | 23,8  | 135,6 | 155,0 | 131,6 | 137,6 | 118,0 | 140,3 | 117,0 | 112,3 | 89,6  | 123,6 | 102,3 | 95,6  | 67,0 | 105,6 | 90,0  | 80,1 | 54  |
| 58                                                       | 12,2  | 153,0 | 15,8  | 131,0 | 149,0 | 127,0 | 135,0 | 116,0 | 135,0 | 113,0 | 109,0 | 87,0  | 121,0 | 99,0  | 93,0  | 65,0 | 103,0 | 87,0  | 76,5 | 58  |
| 62                                                       | 5,4   | 148,5 | 9,3   | 123,0 | 146,0 | 119,0 | 133,0 | 114,6 | 131,5 | 109,0 | 105,0 | 84,6  | 116,3 | 96,0  | 90,0  | 63,0 | 99,3  | 84,0  | 73,5 | 62  |
| 64                                                       | -     | 145,0 | 6,1   | 120,0 | 144,0 | 117,0 | 132,0 | 114,0 | 129,0 | 107,0 | 103,0 | 83,5  | 114,0 | 94,5  | 88,5  | 62,0 | 97,5  | 82,5  | 72,0 | 64  |
| 66                                                       | -     | 143,0 | -     | 117,6 | 139,6 | 115,3 | 131,0 | 110,0 | 125,6 | 104,5 | 102,0 | 82,5  | 112,6 | 93,0  | 87,2  | 61,2 | 95,6  | 81,1  | 70,6 | 66  |
| 70                                                       | -     | 139,0 | -     | 113,0 | 137,0 | 112,0 | 129,0 | 107,0 | 123,0 | 99,0  | 99,0  | 80,0  | 110,0 | 89,5  | 84,5  | 59,5 | 92,0  | 78,5  | 68,0 | 70  |
| 74                                                       | -     | 130,3 | -     | 108,6 | 129,6 | 106,3 | 126,3 | 102,3 | 118,3 | 96,0  | 93,3  | 78,3  | 104,3 | 86,8  | 81,8  | 57,8 | 88,3  | 75,8  | 65,3 | 74  |
| 78                                                       | -     | 121,0 | -     | 104,6 | 121,3 | 103,3 | 121,0 | 99,0  | 115,3 | 92,3  | 90,6  | 76,5  | 101,8 | 81,9  | 79,0  | 56,3 | 84,8  | 73,3  | 63,0 | 78  |
| 82                                                       | -     | 111,0 | -     | 102,0 | 112,0 | 100,0 | 113,0 | 97,0  | 112,0 | 89,0  | 88,0  | 74,5  | 99,5  | 79,0  | 76,0  | 55,0 | 81,5  | 71,0  | 61,0 | 82  |
| 86                                                       | -     | 103,0 | -     | 99,6  | 103,2 | 97,6  | 104,0 | 94,5  | 104,0 | 86,5  | 84,0  | 73,2  | 97,0  | 76,6  | 72,7  | 53,6 | 78,5  | 67,0  | 59,0 | 86  |
| 90                                                       | -     | 95,3  | -     | 96,0  | 96,0  | 95,1  | 96,5  | 92,5  | 96,3  | 84,0  | 82,0  | 71,8  | 94,0  | 73,1  | 71,0  | 52,5 | 75,8  | 64,1  | 57,1 | 90  |
| 94                                                       | -     | 88,0  | -     | 91,0  | 89,0  | 91,5  | 89,5  | 89,5  | 89,0  | 82,0  | 80,0  | 70,5  | 90,0  | 71,5  | 69,0  | 51,5 | 73,5  | 62,5  | 55,5 | 94  |
| 98                                                       | -     | 81,6  | -     | 84,6  | 82,3  | 85,1  | 83,1  | 84,8  | 82,3  | 80,0  | 78,3  | 69,1  | 83,6  | 70,1  | 67,1  | 50,5 | 71,1  | 60,8  | 53,8 | 98  |
| 102                                                      | -     | 75,5  | -     | 78,6  | 75,8  | 79,0  | 76,8  | 79,6  | 76,1  | 77,1  | 76,3  | 68,0  | 77,6  | 69,0  | 66,1  | 49,7 | 69,0  | 58,6  | 52,3 | 102 |
| 106                                                      | -     | 69,0  | -     | 73,0  | 69,5  | 73,0  | 70,5  | 74,0  | 70,5  | 73,5  | 74,0  | 67,0  | 72,0  | 68,0  | 65,5  | 49,0 | 67,0  | 58,0  | 51,0 | 106 |
| 110                                                      | -     | 62,6  | -     | 66,6  | 63,2  | 67,0  | 64,0  | 67,6  | 64,5  | 67,8  | 68,3  | 66,0  | 66,0  | 67,0  | 64,1  | 48,2 | 65,0  | 57,3  | 49,8 | 110 |
| 112                                                      | -     | 59,5  | -     | 63,5  | 60,0  | 64,0  | 61,0  | 64,5  | 61,5  | 65,0  | 65,5  | 65,5  | 63,0  | 66,5  | 63,5  | 47,9 | 64,0  | 57,0  | 49,3 | 112 |
| 114                                                      | -     | 56,5  | -     | 60,5  | 57,0  | 61,0  | -     | 61,5  | 58,5  | 62,1  | 62,5  | 63,5  | 60,1  | 64,0  | 62,8  | 47,6 | 61,3  | 56,3  | 48,7 | 114 |
| 118                                                      | -     | 50,5  | -     | 54,5  | 51,0  | 55,0  | -     | -     | 52,5  | 56,5  | 57,0  | 58,0  | 54,5  | 58,0  | 59,0  | 47,0 | 56,0  | 55,0  | 47,6 | 118 |
| 120                                                      | -     | 47,7  | -     | 51,7  | 48,2  | 52,2  | -     | -     | 49,8  | 53,8  | 54,3  | 55,5  | 52,0  | 55,5  | 56,3  | 46,8 | 53,4  | 53,8  | 47,1 | 120 |
| 122                                                      | -     | 45,0  | -     | 48,9  | 45,4  | 49,4  | -     | -     | 47,2  | 51,1  | 51,6  | -     | 49,5  | 53,0  | 53,6  | 46,6 | 50,8  | 52,6  | 46,6 | 122 |
| 126                                                      | -     | 39,5  | -     | 43,4  | 39,9  | 43,8  | -     | -     | 42,0  | 45,8  | 46,4  | -     | 44,5  | 48,0  | 48,6  | 46,2 | 45,9  | 49,1  | 45,8 | 126 |
| 128                                                      | -     | 37,3  | -     | 40,7  | 37,5  | 41,1  | -     | -     | 39,4  | 43,2  | 43,8  | -     | 42,0  | 45,5  | 46,2  | -    | 43,5  | 46,8  | 45,4 | 128 |
| 130                                                      | -     | 35,7  | -     | 38,5  | -     | 38,7  | -     | -     | 36,9  | 40,6  | 41,2  | -     | 39,5  | 43,1  | 43,9  | -    | 41,1  | 44,5  | 45,0 | 130 |
| 132                                                      | -     | 33,6  | -     | 36,8  | -     | -     | -     | -     | 34,4  | 38,1  | 38,6  | -     | 37,1  | 40,7  | 41,5  | -    | 38,7  | 42,2  | 42,8 | 132 |
| 134                                                      | -     | 31,5  | -     | 35,1  | -     | -     | -     | -     | 32,9  | 35,6  | 36,1  | -     | 32,9  | 38,3  | 39,1  | -    | 36,4  | 39,9  | 40,7 | 134 |
| 136                                                      | -     | 29,5  | -     | 33,5  | -     | -     | -     | -     | 31,5  | 34,1  | 34,4  | -     | 32,9  | 35,9  | 36,7  | -    | 34,2  | 37,6  | 38,6 | 136 |
| 138                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 29,5  | 32,4  | -     | -     | 31,2  | 33,6  | 34,3  | -    | 32,0  | 35,4  | 36,3 | 138 |
| 140                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 27,6  | 30,7  | -     | -     | 29,6  | 31,8  | 32,2  | -    | 30,3  | 33,2  | 34,1 | 140 |
| 141                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | 29,8  | -     | -     | 28,8  | 31,1  | 31,5  | -    | 29,5  | 32,1  | 33,0 | 141 |
| 142                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | 29,0  | -     | -     | 28,0  | 30,5  | -     | -    | 28,7  | 31,0  | 31,9 | 142 |
| 146                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 23,9  | 27,0  | -     | -    | 25,5  | 28,3  | 28,6 | 146 |
| 147                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 22,8  | 26,1  | -     | -    | 24,7  | 27,8  | 28,1 | 147 |
| 148                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 21,7  | 25,3  | -     | -    | 23,9  | 27,3  | -    | 148 |
| 150                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 21,8  | 25,3  | -    | 150 |
| 152                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 19,8  | 23,3  | -    | 152 |
| 154                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 21,3  | -    | 154 |

0 t 80 t 160 t 240 t 320 t 400 t 450 t

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

## SSL/LSL+LF SSL/LSL S1+LF

| 250 t + 80 t 15-33 m 15-24 m 9,60 m 9.8 m/s 360° EN13000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |       |      |      |     |
|----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|------|-----|
| 144 m                                                    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |       |      |      |     |
| * SSL/LSL+LF ** SSL/LSL S1+LF                            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |       |      |      |     |
| 15 m 21 m 27 m 33 m                                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |       |      |      |     |
| 0 t 450 t 0 t 0-450 t                                    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |       |      |      |     |
| 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30°          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |       |      |      |     |
| m                                                        | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t    | t     | t    | t    | m   |
| 20                                                       | 146,0 | 168,0 | 135,0 | 143,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    | -     | -    | -    | 20  |
| 22                                                       | 131,5 | 168,0 | 125,5 | 142,5 | 163,0 | 136,0 | -     | -     | 145,0 | 121,0 | -     | -     | -     | -     | -    | -    | -     | -    | -    | 22  |
| 24                                                       | 117,0 | 168,0 | 123,0 | 142,0 | 163,0 | 136,0 | 151,0 | 124,0 | 145,0 | 121,0 | 113,0 | -     | 124,0 | 103,0 | -    | -    | -     | -    | -    | 24  |
| 26                                                       | 106,2 | 167,5 | 112,0 | 140,5 | 162,5 | 134,5 | 150,5 | 123,5 | 145,0 | 120,0 | 113,0 | -     | 124,0 | 103,0 | 96,0 | -    | 103,0 | 87,5 | -    | 26  |
| 27                                                       | 100,8 | 167,2 | 106,5 | 139,7 | 162,2 | 133,7 | 150,2 | 123,2 | 145,0 | 119,5 | 113,0 | 100,0 | 124,0 | 103,0 | 96,0 | -    | 103,0 | 87,5 | -    | 27  |
| 28                                                       | 95,5  | 167,0 | 101,0 | 139,0 | 162,0 | 133,0 | 150,0 | 123,0 | 145,0 | 119,0 | 113,0 | 100,0 | 124,0 | 103,0 | 96,0 | -    | 103,0 | 87,5 | -    | 28  |
| 29                                                       | 91,1  | 166,7 | 96,6  | 138,0 | 161,7 | 132,2 | 149,5 | 122,2 | 144,7 | 118,2 | 112,2 | 99,8  | 124,0 | 102,2 | 95,6 | -    | 103,0 | 87,2 | 81,0 | 29  |
| 30                                                       | 86,7  | 166,5 | 92,2  | 137,0 | 161,5 | 131,5 | 149,0 | 121,5 | 144,5 | 117,5 | 111,5 | 99,7  | 124,0 | 101,5 | 95,2 | -    | 103,0 | 87,0 | 81,0 | 30  |
| 31                                                       | 82,3  | 166,2 | 87,8  | 136,0 | 161,2 | 130,7 | 148,5 | 120,7 | 144,2 | 116,7 | 110,7 | 99,6  | 124,0 | 100,7 | 94,8 | 81,0 | 103,0 | 86,7 | 81,0 | 31  |
| 34                                                       | 71,0  | 165,5 | 76,5  | 133,0 | 160,5 | 128,0 | 147,0 | 118,5 | 143,0 | 114,0 | 108,5 | 98,2  | 124,0 | 99,0  | 93,5 | 80,2 | 103,0 | 85,5 | 80,0 | 34  |
| 38                                                       | 58,0  | 164,0 | 63,5  | 129,0 | 159,0 | 124,0 | 145,0 | 115,5 | 141,5 | 110,5 | 105,5 | 95,7  | 123,0 | 96,5  | 91,0 | 78,0 | 103,0 | 83,2 | 78,0 | 38  |
| 42                                                       | 45,7  | 161,6 | 51,4  | 124,6 | 157,0 | 120,0 | 142,6 | 112,0 | 140,0 | 107,0 | 102,3 | 93,1  | 121,3 | 93,5  | 88,1 | 75,0 | 103,0 | 80,8 | 76,0 | 42  |
| 46                                                       | 33,3  | 159,0 | 39,3  | 120,0 | 155,0 | 116,0 | 140,0 | 108,0 | 138,0 | 103,0 | 99,0  | 90,5  | 120,0 | 90,5  | 85,5 | 72,0 | 103,0 | 78,5 | 74,0 | 46  |
| 50                                                       | 25,0  | 152,3 | 31,1  | 115,3 | 152,3 | 112,0 | 138,0 | 104,6 | 135,3 | 99,3  | 95,6  | 87,8  | 118,0 | 87,1  | 82,8 | 69,6 | 102,3 | 75,8 | 71,6 | 50  |
| 54                                                       | 16,8  | 149,0 | 22,9  | 111,0 | 145,6 | 108,0 | 136,0 | 101,5 | 131,6 | 95,8  | 92,3  | 85,1  | 116,0 | 83,8  | 80,0 | 67,5 | 101,1 | 73,1 | 69,3 | 54  |
| 58                                                       | 8,6   | 145,0 | 14,9  | 107,0 | 143,0 | 104,0 | 134,0 | 98,5  | 127,0 | 92,5  | 89,0  | 82,5  | 114,0 | 80,5  | 77,0 | 65,5 | 99,5  | 70,5 | 67,0 | 58  |
| 60                                                       | 5,1   | 141,6 | 11,6  | 104,6 | 137,6 | 102,1 | 133,0 | 96,8  | 125,6 | 90,8  | 87,3  | 81,1  | 112,5 | 79,1  | 75,6 | 64,5 | 98,5  | 69,3 | 65,8 | 60  |
| 62                                                       | -     | 140,3 | 8,3   | 102,2 | 136,3 | 100,3 | 130,0 | 95,1  | 124,3 | 89,1  | 85,6  | 79,8  | 111,0 | 77,8  | 74,3 | 63,5 | 97,5  | 68,1 | 64,6 | 62  |
| 64                                                       | -     | 139,0 | 5,1   | 100,0 | 135,0 | 98,5  | 129,0 | 93,5  | 123,0 | 87,5  | 84,0  | 78,5  | 110,0 | 76,5  | 73,0 | 62,5 | 96,0  | 67,0 | 63,5 | 64  |
| 66                                                       | -     | 134,3 | -     | 98,3  | 131,3 | 96,6  | 127,6 | 92,2  | 118,6 | 85,8  | 82,8  | 77,5  | 105,6 | 74,9  | 72,0 | 61,6 | 94,8  | 65,5 | 62,5 | 66  |
| 70                                                       | -     | 131,0 | -     | 95,0  | 128,0 | 93,0  | 125,0 | 89,0  | 116,0 | 82,5  | 80,0  | 75,0  | 103,0 | 72,5  | 69,5 | 60,0 | 92,5  | 63,5 | 60,5 | 70  |
| 74                                                       | -     | 125,6 | -     | 88,8  | 124,6 | 87,5  | 120,3 | 86,3  | 111,3 | 79,8  | 77,3  | 73,0  | 99,0  | 69,8  | 67,1 | 58,3 | 88,6  | 61,1 | 58,5 | 74  |
| 78                                                       | -     | 118,0 | -     | 85,6  | 118,3 | 84,5  | 116,0 | 81,6  | 109,0 | 76,8  | 74,7  | 70,8  | 97,0  | 67,2  | 65,0 | 56,8 | 86,5  | 59,0 | 56,6 | 78  |
| 82                                                       | -     | 108,0 | -     | 82,5  | 109,0 | 81,5  | 110,0 | 79,0  | 107,0 | 72,5  | 72,0  | 68,5  | 95,0  | 65,0  | 63,0 | 55,5 | 83,0  | 57,0 | 55,0 | 82  |
| 86                                                       | -     | 100,0 | -     | 79,2  | 100,6 | 78,0  | 101,6 | 76,6  | 100,0 | 70,1  | 68,5  | 66,1  | 91,5  | 63,0  | 61,0 | 54,2 | 80,0  | 55,3 | 53,3 | 86  |
| 90                                                       | -     | 92,3  | -     | 77,0  | 92,8  | 76,0  | 93,8  | 73,6  | 92,8  | 68,0  | 66,5  | 63,6  | 89,5  | 59,6  | 58,6 | 53,0 | 77,3  | 53,6 | 51,8 | 90  |
| 94                                                       | -     | 85,0  | -     | 75,0  | 85,5  | 74,0  | 86,5  | 72,0  | 85,5  | 66,0  | 64,5  | 62,0  | 87,5  | 58,0  | 56,5 | 52,0 | 75,0  | 52,0 | 50,5 | 94  |
| 98                                                       | -     | 78,3  | -     | 73,6  | 78,8  | 72,6  | 79,8  | 70,6  | 79,1  | 64,1  | 62,6  | 60,6  | 81,1  | 56,4  | 55,1 | 51,0 | 72,6  | 49,8 | 49,0 | 98  |
| 102                                                      | -     | 72,0  | -     | 72,1  | 72,5  | 71,3  | 73,5  | 69,5  | 73,0  | 62,8  | 61,5  | 59,1  | 75,0  | 55,0  | 53,6 | 50,1 | 70,2  | 48,6 | 47,1 | 102 |
| 106                                                      | -     | 66,0  | -     | 70,5  | 66,5  | 70,0  | 67,5  | 68,5  | 67,0  | 61,5  | 60,5  | 58,5  | 68,5  | 54,0  | 52,5 | 49,3 | 67,5  | 47,5 | 46,1 | 106 |
| 110                                                      | -     | 59,6  | -     | 66,1  | 60,5  | 66,4  | 61,1  | 65,8  | 61,0  | 60,1  | 59,1  | 57,5  | 62,8  | 53,0  | 51,8 | 48,5 | 62,8  | 46,4 | 45,1 | 110 |
| 114                                                      | -     | 53,8  | -     | 60,6  | 54,6  | 61,1  | 55,0  | 61,6  | 55,3  | 58,3  | 58,0  | 56,5  | 57,1  | 51,8  | 51,0 | 47,9 | 57,8  | 45,6 | 44,3 | 114 |
| 116                                                      | -     | 51,1  | -     | 57,8  | 51,7  | 58,3  | 52,0  | 58,8  | 52,6  | 57,1  | 57,5  | 56,2  | 54,3  | 51,4  | 50,5 | 47,6 | 55,1  | 45,2 | 44,0 | 116 |
| 118                                                      | -     | 48,4  | -     | 55,0  | 48,9  | 55,5  | -     | 56,0  | 50,0  | 56,0  | 57,0  | 56,0  | 51,5  | 51,0  | 50,0 | 47,3 | 52,5  | 44,8 | 43,6 | 118 |
| 122                                                      | -     | 43,0  | -     | 49,6  | 43,4  | 50,1  | -     | -     | 44,8  | 51,0  | 51,8  | 52,0  | 46,7  | 50,0  | 49,2 | 46,7 | 47,7  | 43,9 | 42,8 | 122 |
| 124                                                      | -     | 40,3  | -     | 46,9  | 40,7  | 47,4  | -     | -     | 42,2  | 48,6  | 49,2  | 50,0  | 44,3  | 49,6  | 48,8 | 46,5 | 45,4  | 43,5 | 42,5 | 124 |
| 126                                                      | -     | 37,7  | -     | 44,3  | 38,1  | 44,8  | -     | -     | 39,7  | 46,1  | 46,7  | -     | 41,9  | 47,4  | 47,2 | 46,1 | 43,0  | 43,1 | 42,1 | 126 |
| 130                                                      | -     | 32,6  | -     | 39,3  | 33,0  | 39,6  | -     | -     | 34,9  | 41,2  | 41,8  | -     | 37,1  | 43,2  | 44,0 | 45,3 | 38,4  | 42,3 | 41,5 | 130 |
| 132                                                      | -     | 31,0  | -     | 36,8  | 31,3  | 37,1  | -     | -     | 32,5  | 38,8  | 39,4  | -     | 34,8  | 40,9  | 41,7 | -    | 36,2  | 40,7 | 40,5 | 132 |
| 134                                                      | -     | 29,5  | -     | 34,4  | -     | 34,6  | -     | -     | 30,1  | 36,4  | 37,0  | -     | 32,5  | 38,6  | 39,4 | -    | 34,0  | 39,2 | 39,5 | 134 |
| 135                                                      | -     | 28,7  | -     | 33,6  | -     | 33,8  | -     | -     | 29,2  | 35,2  | 35,8  | -     | 31,4  | 37,5  | 38,3 | -    | 32,9  | 38,4 | 39,0 | 135 |
| 136                                                      | -     | 28,0  | -     | 32,9  | -     | -     | -     | -     | 28,6  | 34,1  | 34,7  | -     | 30,3  | 36,4  | 37,2 | -    | 31,8  | 37,7 | 38,6 | 136 |
| 138                                                      | -     | 25,7  | -     | 31,3  | -     | -     | -     | -     | 26,8  | 31,8  | 32,3  | -     | 28,1  | 34,2  | 34,9 | -    | 29,7  | 35,5 | 36,4 | 138 |
| 140                                                      | -     | 23,4  | -     | 29,7  | -     | -     | -     | -     | 25,1  | 30,5  | 30,6  | -     | 26,3  | 32,0  | 32,7 | -    | 27,6  | 33,4 | 34,3 | 140 |
| 141                                                      | -     | -     | -     | 29,0  | -     | -     | -     | -     | 24,2  | 29,9  | -     | -     | 25,5  | 30,9  | 31,6 | -    | 26,5  | 32,4 | 33,3 | 141 |
| 142                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 23,4  | 29,3  | -     | -     | 24,7  | 29,9  | 30,6 | -    | 25,5  | 31,4 | 32,3 | 142 |
| 144                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 21,5  | 27,4  | -     | -     | 23,1  | 28,5  | 28,8 | -    | 23,5  | 29,4 | 30,2 | 144 |
| 146                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | 25,6  | -     | -     | 21,6  | 27,4  | 27,8 | -    | 22,0  | 27,4 | 28,2 | 146 |
| 147                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | 24,7  | -     | -     | 20,8  | 26,8  | -    | -    | 21,2  | 26,8 | 27,2 | 147 |
| 150                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 18,1  | 24,3  | -    | -    | 19,0  | 24,9 | 25,5 | 150 |
| 152                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 16,1  | 22,3  | -    | -    | 17,5  | 23,5 | 24,1 | 152 |
| 153                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 21,3  | -    | -    | 16,7  | 22,8 | -    | 153 |
| 154                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    | 16,0  | 22,1 | -    | 154 |
| 156                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    | 14,3  | 20,2 | -    | 156 |
| 158                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    | -     | 18,3 | -    | 158 |
| 159                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    | -     | 17,4 | -    | 159 |

0 t 80 t 160 t 240 t 320 t 400 t 450 t



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SSL/LSL+LF  
SSL/LSL S1+LF

| 250 t + 80 t 15-33 m 15-24 m 9,60 m 9.8 m/s 360° EN13000 |       |       |       |       |       |       |       |       |       |       |       |      |       |      |      |      |      |      |      |      |     |
|----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|------|------|------|------|------|-----|
| 150 m                                                    |       |       |       |       |       |       |       |       |       |       |       |      |       |      |      |      |      |      |      |      |     |
| * SSL/LSL+LF ** SSL/LSL S1+LF                            |       |       |       |       |       |       |       |       |       |       |       |      |       |      |      |      |      |      |      |      |     |
| 15 m 21 m 27 m 33 m                                      |       |       |       |       |       |       |       |       |       |       |       |      |       |      |      |      |      |      |      |      |     |
| 0 t 0 t 0 t 0-450 t                                      |       |       |       |       |       |       |       |       |       |       |       |      |       |      |      |      |      |      |      |      |     |
| 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30°          |       |       |       |       |       |       |       |       |       |       |       |      |       |      |      |      |      |      |      |      |     |
| m                                                        | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t    | t    | t    | t    | t    | t    | t    | m   |
| 21                                                       | 132,0 | 155,0 | 119,0 | 127,0 | -     | -     | -     | -     | -     | -     | -     | -    | -     | -    | -    | -    | -    | -    | -    | -    | 21  |
| 22                                                       | 125,3 | 154,6 | 116,3 | 126,6 | 150,0 | 122,0 | -     | -     | -     | -     | -     | -    | -     | -    | -    | -    | -    | -    | -    | -    | 22  |
| 23                                                       | 118,6 | 154,3 | 114,6 | 126,3 | 150,0 | 122,0 | -     | -     | -     | -     | -     | -    | -     | -    | -    | -    | -    | -    | -    | -    | 23  |
| 24                                                       | 112,0 | 154,0 | 114,0 | 126,0 | 150,0 | 122,0 | 137,0 | 112,0 | 134,0 | 108,0 | -     | -    | -     | -    | -    | -    | -    | -    | -    | -    | 24  |
| 25                                                       | 106,7 | 154,0 | 109,3 | 125,2 | 149,7 | 121,2 | 137,0 | 111,7 | 133,7 | 107,7 | 103,0 | -    | 116,0 | 92,5 | -    | -    | -    | -    | -    | -    | 25  |
| 26                                                       | 101,5 | 154,0 | 104,7 | 124,5 | 149,5 | 120,5 | 137,0 | 111,5 | 133,5 | 107,5 | 102,6 | -    | 116,0 | 92,5 | -    | -    | -    | -    | -    | -    | 26  |
| 27                                                       | 96,2  | 154,0 | 101,1 | 123,7 | 149,2 | 119,7 | 137,0 | 111,2 | 133,2 | 107,2 | 102,3 | -    | 116,0 | 92,5 | 86,5 | -    | 98,0 | 79,5 | -    | -    | 27  |
| 28                                                       | 91,0  | 154,0 | 97,5  | 123,0 | 149,0 | 119,0 | 137,0 | 111,0 | 133,0 | 107,0 | 102,0 | 85,0 | 116,0 | 92,5 | 86,5 | -    | 98,0 | 79,5 | -    | -    | 28  |
| 30                                                       | 82,2  | 153,5 | 89,0  | 121,0 | 148,5 | 117,5 | 136,5 | 109,5 | 132,5 | 105,5 | 100,7 | 85,0 | 116,0 | 91,2 | 86,0 | -    | 98,0 | 79,0 | 74,0 | -    | 30  |
| 31                                                       | 77,8  | 153,2 | 84,7  | 120,0 | 148,2 | 116,7 | 136,2 | 108,7 | 132,2 | 104,7 | 100,1 | 85,0 | 116,0 | 90,6 | 85,7 | 75,5 | 98,0 | 78,7 | 74,0 | -    | 31  |
| 34                                                       | 66,5  | 152,0 | 73,5  | 117,0 | 147,5 | 114,0 | 135,5 | 106,5 | 131,5 | 102,5 | 98,2  | 84,5 | 115,5 | 88,7 | 84,5 | 75,2 | 98,0 | 77,5 | 73,2 | -    | 34  |
| 35                                                       | 63,0  | 151,5 | 70,0  | 116,0 | 147,2 | 113,0 | 135,2 | 105,7 | 131,2 | 101,7 | 97,6  | 84,2 | 115,2 | 88,1 | 84,0 | 75,1 | 98,0 | 77,0 | 72,8 | 63,0 | 35  |
| 38                                                       | 53,7  | 150,5 | 60,7  | 113,0 | 146,5 | 110,0 | 134,0 | 103,5 | 130,5 | 99,5  | 95,5  | 83,7 | 114,5 | 86,2 | 82,2 | 74,2 | 97,7 | 75,5 | 71,5 | 60,7 | 38  |
| 42                                                       | 42,0  | 149,0 | 49,2  | 108,6 | 145,0 | 106,0 | 132,0 | 100,1 | 129,0 | 96,0  | 92,3  | 82,8 | 113,0 | 83,5 | 79,6 | 72,5 | 97,3 | 73,3 | 69,5 | 58,5 | 42  |
| 46                                                       | 30,2  | 147,0 | 37,7  | 104,0 | 143,0 | 102,0 | 130,0 | 96,5  | 127,0 | 92,0  | 89,0  | 81,5 | 111,0 | 80,5 | 77,0 | 70,5 | 97,0 | 71,0 | 67,5 | 56,5 | 46  |
| 50                                                       | 21,9  | 144,3 | 29,5  | 100,0 | 141,0 | 97,6  | 128,6 | 92,8  | 125,0 | 88,3  | 85,3  | 78,8 | 109,6 | 77,5 | 74,3 | 68,1 | 95,6 | 68,6 | 65,1 | 54,5 | 50  |
| 54                                                       | 13,7  | 138,5 | 21,3  | 95,8  | 135,0 | 93,5  | 127,0 | 89,3  | 123,0 | 84,6  | 81,8  | 76,1 | 108,0 | 74,6 | 71,6 | 66,0 | 94,3 | 66,1 | 63,0 | 52,5 | 54  |
| 58                                                       | 5,5   | 136,0 | 13,2  | 91,5  | 133,0 | 89,5  | 125,0 | 86,0  | 121,0 | 81,0  | 78,5  | 73,5 | 106,0 | 72,0 | 69,0 | 64,0 | 93,0 | 63,5 | 61,0 | 50,5 | 58  |
| 62                                                       | -     | 130,3 | 6,5   | 88,0  | 127,3 | 85,9  | 123,0 | 82,6  | 115,3 | 77,8  | 75,5  | 70,8 | 104,0 | 69,0 | 66,3 | 62,0 | 91,0 | 61,1 | 58,6 | 49,1 | 62  |
| 66                                                       | -     | 126,3 | -     | 84,1  | 124,3 | 82,3  | 118,6 | 79,3  | 111,3 | 74,3  | 72,5  | 68,5 | 99,5  | 66,1 | 64,0 | 60,0 | 89,1 | 58,9 | 56,5 | 47,6 | 66  |
| 70                                                       | -     | 122,0 | -     | 80,5  | 121,0 | 79,0  | 116,0 | 76,0  | 108,0 | 71,0  | 69,5  | 66,0 | 97,0  | 63,5 | 61,5 | 58,0 | 87,5 | 56,5 | 54,5 | 46,2 | 70  |
| 74                                                       | -     | 118,6 | -     | 77,5  | 116,3 | 76,0  | 112,0 | 73,3  | 106,0 | 68,3  | 66,8  | 63,6 | 95,0  | 60,8 | 59,1 | 56,0 | 85,5 | 54,5 | 52,5 | 44,9 | 74  |
| 78                                                       | -     | 115,0 | -     | 74,0  | 114,0 | 72,8  | 110,0 | 70,6  | 102,0 | 65,5  | 64,1  | 61,2 | 91,0  | 58,5 | 57,0 | 54,1 | 81,5 | 52,5 | 50,7 | 43,7 | 78  |
| 82                                                       | -     | 105,0 | -     | 70,0  | 106,0 | 70,0  | 107,0 | 68,0  | 100,0 | 63,0  | 61,5  | 59,0 | 89,0  | 56,5 | 55,0 | 52,5 | 79,5 | 50,5 | 49,1 | 42,5 | 82  |
| 86                                                       | -     | 97,0  | -     | 67,3  | 97,6  | 66,1  | 99,0  | 64,1  | 95,6  | 60,6  | 59,1  | 57,0 | 85,8  | 54,1 | 53,0 | 50,8 | 76,3 | 48,6 | 47,3 | 41,4 | 86  |
| 90                                                       | -     | 89,3  | -     | 65,0  | 89,8  | 64,0  | 91,1  | 62,1  | 89,8  | 57,2  | 56,6  | 55,1 | 84,1  | 52,0 | 51,1 | 49,2 | 74,6 | 46,8 | 45,7 | 40,4 | 90  |
| 94                                                       | -     | 82,0  | -     | 63,0  | 82,5  | 62,0  | 83,5  | 60,5  | 82,5  | 55,0  | 54,0  | 53,5 | 82,5  | 50,5 | 49,4 | 47,7 | 73,0 | 45,1 | 44,1 | 39,5 | 94  |
| 98                                                       | -     | 75,3  | -     | 61,1  | 75,8  | 60,1  | 76,8  | 58,6  | 76,1  | 53,2  | 52,5  | 50,9 | 77,5  | 47,8 | 47,6 | 46,2 | 70,6 | 43,5 | 42,5 | 38,6 | 98  |
| 102                                                      | -     | 69,0  | -     | 59,8  | 69,5  | 58,8  | 70,5  | 57,5  | 70,0  | 52,0  | 51,0  | 49,5 | 71,8  | 46,4 | 45,4 | 44,0 | 68,6 | 41,5 | 41,0 | 37,9 | 102 |
| 106                                                      | -     | 63,0  | -     | 58,5  | 63,5  | 57,5  | 64,5  | 56,5  | 64,0  | 51,0  | 50,0  | 48,7 | 65,5  | 45,2 | 44,2 | 42,8 | 66,0 | 39,9 | 39,6 | 37,1 | 106 |
| 110                                                      | -     | 57,0  | -     | 57,1  | 57,5  | 56,3  | 58,5  | 55,5  | 58,3  | 49,8  | 49,1  | 47,7 | 59,8  | 44,1 | 43,2 | 41,8 | 60,3 | 38,8 | 37,9 | 36,3 | 110 |
| 114                                                      | -     | 51,3  | -     | 55,6  | 51,8  | 55,3  | 52,7  | 54,3  | 52,8  | 48,8  | 48,0  | 46,8 | 54,3  | 43,2 | 42,3 | 41,0 | 54,9 | 37,8 | 36,9 | 35,5 | 114 |
| 118                                                      | -     | 46,0  | -     | 54,0  | 46,5  | 54,0  | 47,3  | 53,0  | 47,5  | 47,7  | 47,0  | 46,0 | 49,1  | 42,3 | 41,5 | 40,3 | 49,9 | 37,0 | 36,2 | 34,9 | 118 |
| 120                                                      | -     | 43,3  | -     | 51,4  | 43,8  | 51,6  | 44,6  | 51,2  | 44,9  | 47,1  | 46,5  | 45,5 | 46,6  | 41,8 | 41,0 | 39,9 | 47,4 | 36,6 | 35,8 | 34,5 | 120 |
| 122                                                      | -     | 40,7  | -     | 48,9  | 41,2  | 49,2  | -     | 49,5  | 42,4  | 46,6  | 46,0  | 45,1 | 44,1  | 41,3 | 40,6 | 39,5 | 45,0 | 36,2 | 35,4 | 34,2 | 122 |
| 123                                                      | -     | 39,4  | -     | 47,6  | 39,9  | 48,0  | -     | 48,7  | 41,1  | 46,3  | 45,7  | 44,9 | 42,9  | 41,1 | 40,4 | 39,3 | 43,8 | 36,0 | 35,2 | 34,1 | 123 |
| 126                                                      | -     | 35,7  | -     | 43,9  | 36,2  | 44,3  | -     | -     | 37,5  | 44,2  | 44,0  | 44,2 | 39,4  | 40,4 | 39,7 | 38,8 | 40,3 | 35,4 | 34,7 | 33,7 | 126 |
| 128                                                      | -     | 33,3  | -     | 41,5  | 33,7  | 41,9  | -     | -     | 35,1  | 42,4  | 42,6  | 43,8 | 37,1  | 39,9 | 39,3 | 38,4 | 38,1 | 35,0 | 34,3 | 33,4 | 128 |
| 130                                                      | -     | 30,9  | -     | 39,1  | 31,3  | 39,5  | -     | -     | 32,8  | 40,6  | 41,2  | -    | 34,8  | 39,5 | 38,9 | 38,1 | 35,9 | 34,6 | 34,0 | 33,1 | 130 |
| 134                                                      | -     | 26,4  | -     | 34,3  | 26,6  | 34,7  | -     | -     | 28,2  | 36,1  | 36,6  | -    | 30,4  | 37,8 | 37,3 | 37,1 | 31,6 | 33,8 | 33,2 | 32,5 | 134 |
| 138                                                      | -     | 23,0  | -     | 30,1  | 23,2  | 30,3  | -     | -     | 23,8  | 31,7  | 32,2  | -    | 26,2  | 33,6 | 34,4 | -    | 27,5 | 32,5 | 32,1 | 31,8 | 138 |
| 140                                                      | -     | 21,3  | -     | 29,0  | 21,6  | 29,2  | -     | -     | 22,1  | 29,5  | 30,0  | -    | 24,1  | 31,5 | 32,3 | -    | 25,5 | 31,6 | 31,4 | 31,6 | 140 |
| 142                                                      | -     | 19,6  | -     | 27,9  | -     | -     | -     | -     | 20,5  | 27,9  | 28,2  | -    | 22,0  | 29,5 | 30,2 | -    | 23,5 | 30,7 | 30,7 | -    | 142 |
| 144                                                      | -     | 17,7  | -     | 25,9  | -     | -     | -     | -     | 18,9  | 26,6  | 26,9  | -    | 20,0  | 27,5 | 28,1 | -    | 21,5 | 28,7 | 29,0 | -    | 144 |
| 145                                                      | -     | -     | -     | 24,9  | -     | -     | -     | -     | 18,2  | 26,0  | 26,3  | -    | 19,2  | 26,5 | 27,1 | -    | 20,5 | 27,8 | 28,2 | -    | 145 |
| 146                                                      | -     | -     | -     | 23,8  | -     | -     | -     | -     | 17,4  | 25,2  | -     | -    | 18,5  | 25,9 | 26,2 | -    | 19,6 | 26,8 | 27,3 | -    | 146 |
| 147                                                      | -     | -     | -     | 22,7  | -     | -     | -     | -     | 16,6  | 24,5  | -     | -    | 17,7  | 25,2 | 25,6 | -    | 18,6 | 25,8 | 26,5 | -    | 147 |
| 150                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 13,9  | 21,8  | -     | -    | 15,6  | 23,1 | 23,5 | -    | 15,9 | 23,1 | 23,8 | -    | 150 |
| 151                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 12,9  | 20,8  | -     | -    | 14,9  | 22,4 | 22,8 | -    | 15,2 | 22,4 | 23,0 | -    | 151 |
| 152                                                      | -     | -     | -     | -     | -     | -     | -     | -     | 11,9  | 19,8  | -     | -    | 14,2  | 21,7 | -    | -    | 14,5 | 21,7 | 22,3 | -    | 152 |
| 154                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | 12,6  | 20,3 | -    | -    | 13,2 | 20,4 | 20,9 | -    | 154 |
| 157                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 17,5 | -    | -    | 11,1 | 18,4 | 19,0 | -    | 157 |
| 158                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | 16,6 | -    | -    | 10,4 | 17,7 | -    | -    | 158 |
| 162                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -    | -    | -    | 7,3  | 14,7 | -    | -    | 162 |
| 164                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -    | -    | -    | 5,6  | 13,0 | -    | -    | 164 |

0 t 80 t 160 t 240 t 320 t 400 t 450 t

## Notes

Notizen · Notes · Nota · Notas · Notas · пометы, комментарии, примечания

# LUFFING FLY JIB

WIPPBARER HILFSAUSLEGER

FLÉCHETTE À VOLÉE VARIABLE

FALCONE A VOLATA VARIABILE

PLUMÍN ABATIBLE

JIB DE LANCE VARIÁVEL

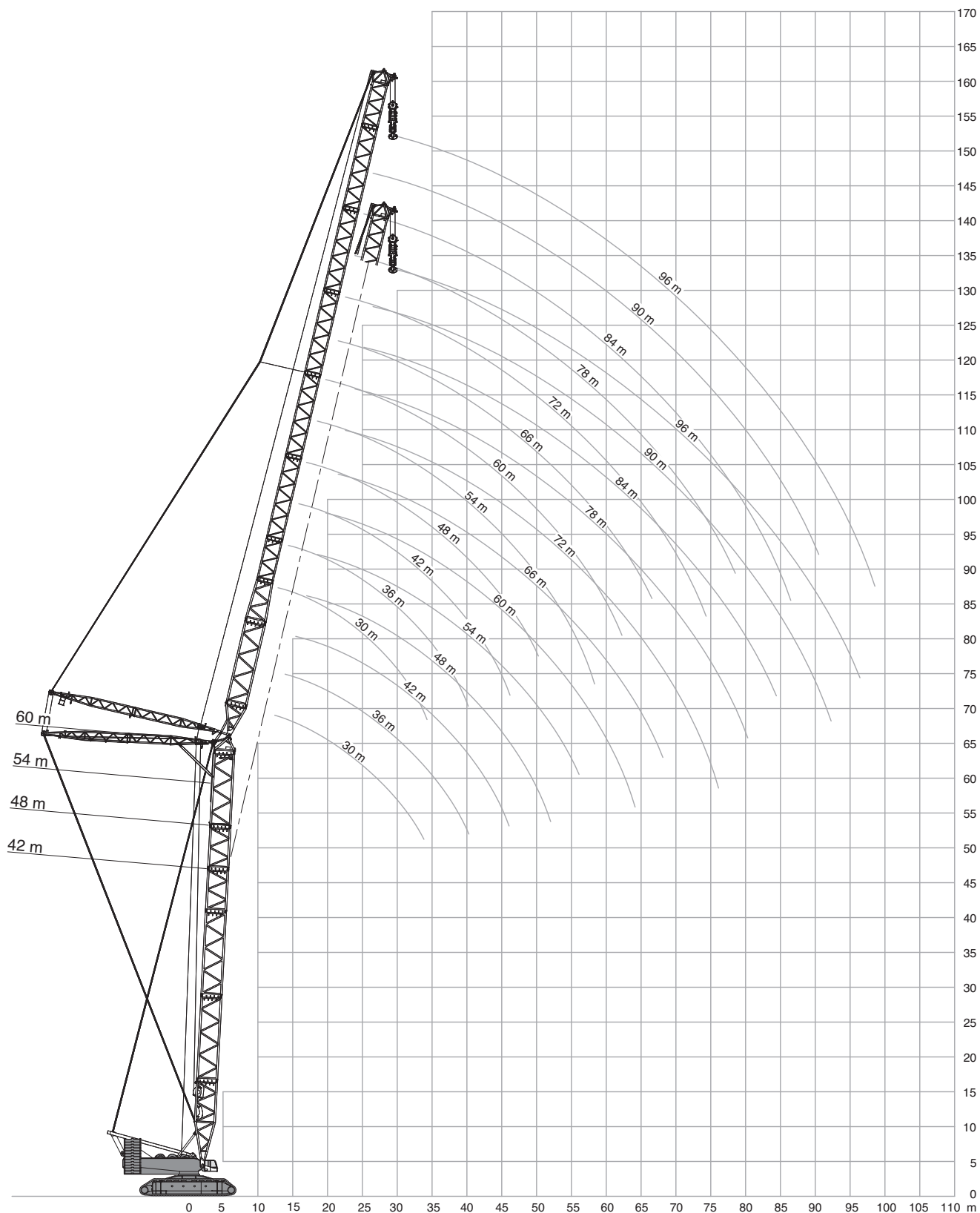
СТРЕЛА С ИЗМЕНЯЕМЫМ УГЛОМ ВЫЛЕТА И ГУСЬКОМ



# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация





# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  170-250 t +  0-80 t |                                                                                   |                                                                                   |                                                                                   |  9,60 m |                                                                                   |                                                                                   |                                                                                        |  9.8 m/s |                                                                                   |                                                                                        |                                                                                   | 360°                                                                              |                                                                                        |                                                                                     |                                                                                     | EN13000                                                                                |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|--|--|--|
|  42 m                                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                          |                                                                                   |                                                                                   |                                                                                        |                                                                                           |                                                                                   |                                                                                        |                                                                                   |                                                                                   |                                                                                        |                                                                                     |                                                                                     |                                                                                        |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |
|  30 m                                                                                                 |                                                                                   |                                                                                   |                                                                                   |  36 m   |                                                                                   |                                                                                   |  42 m |                                                                                           |                                                                                   |  48 m |                                                                                   |                                                                                   |  54 m |                                                                                     |                                                                                     |  60 m |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |
|                                                                                                       |  |  |  |         |  |  |       |          |  |       |  |  |      |  |  |     |  |  |  |  |  |  |  |
| 87°/85°                                                                                                                                                                                | 75°                                                                               | 65°                                                                               |                                                                                   | 87°/85°                                                                                  | 75°                                                                               | 65°                                                                               |                                                                                        | 87°/85°                                                                                   | 75°                                                                               | 65°                                                                                    |                                                                                   | 87°/85°                                                                           | 75°                                                                                    | 65°                                                                                 |                                                                                     | 87°/85°                                                                                | 75°                                                                                 | 65°                                                                                 |                                                                                     |  |  |  |  |
| m                                                                                                                                                                                      | t                                                                                 | t                                                                                 | t                                                                                 | t                                                                                        | t                                                                                 | t                                                                                 |                                                                                        | t                                                                                         | t                                                                                 | t                                                                                      |                                                                                   | t                                                                                 | t                                                                                      | t                                                                                   |                                                                                     | t                                                                                      | t                                                                                   | t                                                                                   |                                                                                     |  |  |  |  |
| 14                                                                                                                                                                                     | 339,0                                                                             | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 |                                                                                        | -                                                                                         | -                                                                                 | -                                                                                      |                                                                                   | -                                                                                 | -                                                                                      | -                                                                                   |                                                                                     | -                                                                                      | -                                                                                   | -                                                                                   |                                                                                     |  |  |  |  |
| 15                                                                                                                                                                                     | 317,0                                                                             | -                                                                                 | -                                                                                 | 305,0                                                                                    | -                                                                                 | -                                                                                 |                                                                                        | -                                                                                         | -                                                                                 | -                                                                                      |                                                                                   | -                                                                                 | -                                                                                      | -                                                                                   |                                                                                     | -                                                                                      | -                                                                                   | -                                                                                   |                                                                                     |  |  |  |  |
| 16                                                                                                                                                                                     | 297,0                                                                             | -                                                                                 | -                                                                                 | 286,0                                                                                    | -                                                                                 | -                                                                                 |                                                                                        | 277,0                                                                                     | -                                                                                 | -                                                                                      |                                                                                   | -                                                                                 | -                                                                                      | -                                                                                   |                                                                                     | -                                                                                      | -                                                                                   | -                                                                                   |                                                                                     |  |  |  |  |
| 18                                                                                                                                                                                     | 265,0                                                                             | -                                                                                 | -                                                                                 | 256,0                                                                                    | -                                                                                 | -                                                                                 |                                                                                        | 247,0                                                                                     | -                                                                                 | -                                                                                      | 239,0                                                                             | -                                                                                 | -                                                                                      | -                                                                                   |                                                                                     | -                                                                                      | -                                                                                   | -                                                                                   |                                                                                     |  |  |  |  |
| 19                                                                                                                                                                                     | 251,0                                                                             | -                                                                                 | -                                                                                 | 242,0                                                                                    | -                                                                                 | -                                                                                 |                                                                                        | 235,0                                                                                     | -                                                                                 | -                                                                                      | 227,0                                                                             | -                                                                                 | -                                                                                      | 220,0                                                                               | -                                                                                   | -                                                                                      | -                                                                                   | -                                                                                   |                                                                                     |  |  |  |  |
| 20                                                                                                                                                                                     | 238,0                                                                             | -                                                                                 | -                                                                                 | 230,0                                                                                    | -                                                                                 | -                                                                                 |                                                                                        | 223,0                                                                                     | -                                                                                 | -                                                                                      | 216,0                                                                             | -                                                                                 | -                                                                                      | 209,0                                                                               | -                                                                                   | -                                                                                      | 202,0                                                                               | -                                                                                   | -                                                                                   |  |  |  |  |
| 22                                                                                                                                                                                     | 217,0                                                                             | -                                                                                 | -                                                                                 | 209,0                                                                                    | -                                                                                 | -                                                                                 |                                                                                        | 203,0                                                                                     | -                                                                                 | -                                                                                      | 197,0                                                                             | -                                                                                 | -                                                                                      | 191,0                                                                               | -                                                                                   | -                                                                                      | 184,0                                                                               | -                                                                                   | -                                                                                   |  |  |  |  |
| 24                                                                                                                                                                                     | 198,0                                                                             | -                                                                                 | -                                                                                 | 192,0                                                                                    | -                                                                                 | -                                                                                 |                                                                                        | 186,0                                                                                     | -                                                                                 | -                                                                                      | 180,0                                                                             | -                                                                                 | -                                                                                      | 175,0                                                                               | -                                                                                   | -                                                                                      | 169,0                                                                               | -                                                                                   | -                                                                                   |  |  |  |  |
| 26                                                                                                                                                                                     | 183,0                                                                             | -                                                                                 | -                                                                                 | 177,0                                                                                    | -                                                                                 | -                                                                                 |                                                                                        | 172,0                                                                                     | -                                                                                 | -                                                                                      | 166,0                                                                             | -                                                                                 | -                                                                                      | 161,0                                                                               | -                                                                                   | -                                                                                      | 156,0                                                                               | -                                                                                   | -                                                                                   |  |  |  |  |
| 28                                                                                                                                                                                     | 166,0                                                                             | 145,0                                                                             | -                                                                                 | 164,0                                                                                    | -                                                                                 | -                                                                                 |                                                                                        | 159,0                                                                                     | -                                                                                 | -                                                                                      | 154,0                                                                             | -                                                                                 | -                                                                                      | 150,0                                                                               | -                                                                                   | -                                                                                      | 145,0                                                                               | -                                                                                   | -                                                                                   |  |  |  |  |
| 30                                                                                                                                                                                     | 151,0                                                                             | 132,0                                                                             | -                                                                                 | 151,0                                                                                    | -                                                                                 | -                                                                                 |                                                                                        | 148,0                                                                                     | -                                                                                 | -                                                                                      | 143,0                                                                             | -                                                                                 | -                                                                                      | 139,0                                                                               | -                                                                                   | -                                                                                      | 135,0                                                                               | -                                                                                   | -                                                                                   |  |  |  |  |
| 32                                                                                                                                                                                     | 138,0                                                                             | 120,0                                                                             | -                                                                                 | 138,0                                                                                    | 119,0                                                                             | -                                                                                 |                                                                                        | 138,0                                                                                     | -                                                                                 | -                                                                                      | 134,0                                                                             | -                                                                                 | -                                                                                      | 130,0                                                                               | -                                                                                   | -                                                                                      | 126,0                                                                               | -                                                                                   | -                                                                                   |  |  |  |  |
| 34                                                                                                                                                                                     | 127,0                                                                             | 111,0                                                                             | -                                                                                 | 127,0                                                                                    | 110,0                                                                             | -                                                                                 |                                                                                        | 127,0                                                                                     | 109,0                                                                             | -                                                                                      | 125,0                                                                             | -                                                                                 | -                                                                                      | 122,0                                                                               | -                                                                                   | -                                                                                      | 118,0                                                                               | -                                                                                   | -                                                                                   |  |  |  |  |
| 36                                                                                                                                                                                     | -                                                                                 | 102,0                                                                             | -                                                                                 | 118,0                                                                                    | 101,0                                                                             | -                                                                                 |                                                                                        | 117,0                                                                                     | 100,0                                                                             | -                                                                                      | 116,0                                                                             | 98,5                                                                              | -                                                                                      | 114,0                                                                               | -                                                                                   | -                                                                                      | 111,0                                                                               | -                                                                                   | -                                                                                   |  |  |  |  |
| 38                                                                                                                                                                                     | -                                                                                 | 95,0                                                                              | -                                                                                 | 109,0                                                                                    | 94,0                                                                              | -                                                                                 |                                                                                        | 109,0                                                                                     | 93,5                                                                              | -                                                                                      | 107,0                                                                             | 91,0                                                                              | -                                                                                      | 107,0                                                                               | 89,5                                                                                | -                                                                                      | 104,0                                                                               | -                                                                                   | -                                                                                   |  |  |  |  |
| 40                                                                                                                                                                                     | -                                                                                 | 88,5                                                                              | 77,5                                                                              | 99,5*                                                                                    | 87,5                                                                              | -                                                                                 |                                                                                        | 102,0                                                                                     | 87,0                                                                              | -                                                                                      | 100,0                                                                             | 84,5                                                                              | -                                                                                      | 99,5                                                                                | 84,0                                                                                | -                                                                                      | 98,5                                                                                | -                                                                                   | -                                                                                   |  |  |  |  |
| 42                                                                                                                                                                                     | -                                                                                 | 83,0                                                                              | 72,0                                                                              | -                                                                                        | 82,0                                                                              | -                                                                                 |                                                                                        | 95,0                                                                                      | 81,0                                                                              | -                                                                                      | 93,5                                                                              | 79,0                                                                              | -                                                                                      | 93,0                                                                                | 78,0                                                                                | -                                                                                      | 93,0                                                                                | 76,0                                                                                | -                                                                                   |  |  |  |  |
| 44                                                                                                                                                                                     | -                                                                                 | -                                                                                 | 67,5                                                                              | -                                                                                        | 76,5                                                                              | 66,0                                                                              |                                                                                        | 89,5                                                                                      | 76,0                                                                              | -                                                                                      | 88,0                                                                              | 74,0                                                                              | -                                                                                      | 87,0                                                                                | 73,0                                                                                | -                                                                                      | 87,0                                                                                | 71,5                                                                                | -                                                                                   |  |  |  |  |
| 46                                                                                                                                                                                     | -                                                                                 | -                                                                                 | 63,5                                                                              | -                                                                                        | 72,0                                                                              | 62,0                                                                              |                                                                                        | 82,0*                                                                                     | 71,0                                                                              | -                                                                                      | 82,5                                                                              | 69,0                                                                              | -                                                                                      | 82,0                                                                                | 68,5                                                                                | -                                                                                      | 81,5                                                                                | 67,5                                                                                | -                                                                                   |  |  |  |  |
| 48                                                                                                                                                                                     | -                                                                                 | -                                                                                 | 59,5                                                                              | -                                                                                        | 68,0                                                                              | 58,5                                                                              |                                                                                        | -                                                                                         | 67,0                                                                              | 57,0                                                                                   | 77,5                                                                              | 65,0                                                                              | -                                                                                      | 77,0                                                                                | 64,0                                                                                | -                                                                                      | 77,0                                                                                | 63,5                                                                                | -                                                                                   |  |  |  |  |
| 50                                                                                                                                                                                     | -                                                                                 | -                                                                                 | 56,0                                                                              | -                                                                                        | -                                                                                 | 55,0                                                                              |                                                                                        | -                                                                                         | 63,0                                                                              | 53,5                                                                                   | 73,5                                                                              | 61,0                                                                              | 51,0                                                                                   | 72,5                                                                                | 60,5                                                                                | -                                                                                      | 72,5                                                                                | 59,5                                                                                | -                                                                                   |  |  |  |  |
| 54                                                                                                                                                                                     | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | 48,7                                                                              |                                                                                        | -                                                                                         | 56,5                                                                              | 47,5                                                                                   | -                                                                                 | 54,5                                                                              | 44,9                                                                                   | 65,0                                                                                | 53,5                                                                                | 43,6                                                                                   | 64,5                                                                                | 53,0                                                                                | -                                                                                   |  |  |  |  |
| 58                                                                                                                                                                                     | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 |                                                                                        | -                                                                                         | -                                                                                 | 42,3                                                                                   | -                                                                                 | 49,1                                                                              | 39,7                                                                                   | 57,0*                                                                               | 48,2                                                                                | 38,5                                                                                   | 58,0                                                                                | 47,6                                                                                | 37,5                                                                                |  |  |  |  |
| 62                                                                                                                                                                                     | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 |                                                                                        | -                                                                                         | -                                                                                 | -                                                                                      | -                                                                                 | -                                                                                 | 35,3                                                                                   | -                                                                                   | 43,3                                                                                | 34,1                                                                                   | 52,5                                                                                | 42,5                                                                                | 33,1                                                                                |  |  |  |  |
| 66                                                                                                                                                                                     | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 |                                                                                        | -                                                                                         | -                                                                                 | -                                                                                      | -                                                                                 | -                                                                                 | 31,6                                                                                   | -                                                                                   | 39,0                                                                                | 30,3                                                                                   | -                                                                                   | 38,0                                                                                | 29,3                                                                                |  |  |  |  |
| 70                                                                                                                                                                                     | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 |                                                                                        | -                                                                                         | -                                                                                 | -                                                                                      | -                                                                                 | -                                                                                 | -                                                                                      | -                                                                                   | 27,0                                                                                | -                                                                                      | -                                                                                   | 34,2                                                                                | 25,9                                                                                |  |  |  |  |
| 74                                                                                                                                                                                     | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 |                                                                                        | -                                                                                         | -                                                                                 | -                                                                                      | -                                                                                 | -                                                                                 | -                                                                                      | -                                                                                   | -                                                                                   | -                                                                                      | -                                                                                   | -                                                                                   | 23,0                                                                                |  |  |  |  |
| 78                                                                                                                                                                                     | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 |                                                                                        | -                                                                                         | -                                                                                 | -                                                                                      | -                                                                                 | -                                                                                 | -                                                                                      | -                                                                                   | -                                                                                   | -                                                                                      | -                                                                                   | -                                                                                   | 20,4                                                                                |  |  |  |  |

|  | 66 m    |      |      | 72 m    |      |      | 78 m    |      |      | 84 m    |      |      | 90 m    |      |      | 96 m    |      |      |
|-------------------------------------------------------------------------------------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|
|                                                                                     | 87°/85° | 75°  | 65°  | 87°/85° | 75°  | 65°  | 87°/85° | 75°  | 65°  | 87°/85° | 75°  | 65°  | 87°/85° | 75°  | 65°  | 87°/85° | 75°  | 65°  |
| m                                                                                   | t       | t    | t    | t       | t    | t    | t       | t    | t    | t       | t    | t    | t       | t    | t    | t       | t    | t    |
| 22                                                                                  | 178,0   | -    | -    | -       | -    | -    | -       | -    | -    | -       | -    | -    | -       | -    | -    | -       | -    | -    |
| 24                                                                                  | 163,0   | -    | -    | 158,0   | -    | -    | 154,0   | -    | -    | -       | -    | -    | -       | -    | -    | -       | -    | -    |
| 26                                                                                  | 151,0   | -    | -    | 146,0   | -    | -    | 142,0   | -    | -    | 137,0   | -    | -    | -       | -    | -    | -       | -    | -    |
| 28                                                                                  | 140,0   | -    | -    | 135,0   | -    | -    | 132,0   | -    | -    | 127,0   | -    | -    | 124,0   | -    | -    | 114,0   | -    | -    |
| 30                                                                                  | 130,0   | -    | -    | 126,0   | -    | -    | 123,0   | -    | -    | 118,0   | -    | -    | 115,0   | -    | -    | 111,0   | -    | -    |
| 34                                                                                  | 113,0   | -    | -    | 110,0   | -    | -    | 107,0   | -    | -    | 103,0   | -    | -    | 100,0   | -    | -    | 97,0    | -    | -    |
| 38                                                                                  | 100,0   | -    | -    | 97,0    | -    | -    | 94,5    | -    | -    | 91,0    | -    | -    | 88,5    | -    | -    | 85,0    | -    | -    |
| 42                                                                                  | 89,0    | -    | -    | 86,0    | -    | -    | 84,0    | -    | -    | 81,0    | -    | -    | 78,5    | -    | -    | 75,5    | -    | -    |
| 44                                                                                  | 84,5    | 67,5 | -    | 81,5    | -    | -    | 79,5    | -    | -    | 76,5    | -    | -    | 74,0    | -    | -    | 71,0    | -    | -    |
| 46                                                                                  | 80,0    | 64,0 | -    | 77,0    | 61,0 | -    | 75,0    | -    | -    | 72,0    | -    | -    | 70,0    | -    | -    | 67,0    | -    | -    |
| 50                                                                                  | 71,0    | 57,0 | -    | 69,5    | 54,0 | -    | 67,5    | 52,5 | -    | 64,5    | -    | -    | 62,5    | -    | -    | 60,0    | -    | -    |
| 54                                                                                  | 63,5    | 51,5 | -    | 62,0    | 48,7 | -    | 61,0    | 47,0 | -    | 58,0    | 44,1 | -    | 56,5    | 42,2 | -    | 53,5    | -    | -    |
| 58                                                                                  | 57,0    | 45,9 | -    | 55,5    | 43,7 | -    | 55,0    | 42,2 | -    | 52,5    | 39,3 | -    | 51,0    | 37,5 | -    | 48,3    | 34,7 | -    |
| 62                                                                                  | 51,0    | 40,8 | 31,2 | 50,0    | 38,9 | -    | 49,5    | 37,9 | -    | 47,8    | 35,1 | -    | 46,1    | 33,4 | -    | 43,5    | 30,6 | -    |
| 66                                                                                  | 46,5    | 36,3 | 27,4 | 45,2    | 34,4 | 25,3 | 44,6    | 33,5 | -    | 43,4    | 31,4 | -    | 41,7    | 29,7 | -    | 39,2    | 27,0 | -    |
| 70                                                                                  | 40,7*   | 32,4 | 24,0 | 40,9    | 30,6 | 22,0 | 40,3    | 29,7 | 20,9 | 39,2    | 28,0 | -    | 37,9    | 26,4 | -    | 35,4    | 23,8 | -    |
| 74                                                                                  | -       | 29,0 | 21,1 | 37,2    | 27,1 | 19,0 | 36,6    | 26,3 | 18,0 | 35,2    | 24,7 | 16,2 | 34,3    | 23,5 | 14,9 | 32,0    | 20,9 | -    |
| 78                                                                                  | -       | -    | 18,5 | -       | 24,1 | 16,4 | 33,1    | 23,2 | 15,4 | 31,7    | 21,6 | 13,6 | 30,7    | 20,5 | 12,4 | 28,8    | 18,3 | 10,1 |
| 82                                                                                  | -       | -    | 16,1 | -       | 21,4 | 14,1 | 28,3*   | 20,6 | 13,1 | 28,5    | 18,9 | 11,4 | 27,5    | 17,8 | 10,1 | 26,0    | 15,9 | 8,0  |
| 86                                                                                  | -       | -    | -    | -       | -    | 12,1 | -       | 18,2 | 11,1 | 25,6    | 16,5 | 9,3  | 24,6    | 15,4 | 8,1  | 23,3    | 13,7 | 6,1  |
| 90                                                                                  | -       | -    | -    | -       | -    | 10,3 | -       | -    | 9,2  | -       | 14,4 | 7,5  | 22,0    | 13,2 | 6,2  | 20,6    | 11,7 | -    |
| 94                                                                                  | -       | -    | -    | -       | -    | -    | -       | -    | 7,6  | -       | 12,4 | 5,8  | -       | 11,3 | -    | 18,3    | 9,7  | -    |
| 98                                                                                  | -       | -    | -    | -       | -    | -    | -       | -    | -    | -       | -    | -    | -       | 9,5  | -    | 14,8*   | 7,9  | -    |
| 102                                                                                 | -       | -    | -    | -       | -    | -    | -       | -    | -    | -       | -    | -    | -       | -    | -    | -       | 6,3  | -    |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° · Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

For explanations see page 84 · Bemerkungen siehe Seite 84 · Pour plus de détails, voir page 84 · Per spiegazioni vedere a pagina 84 · Véase p. 84 para más información · Para explicações, ver página 84 · Объяснения см. на стр. 84

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  170-250 t +  0-80 t |        |       |      |  9,60 m          |       |      |                                                                                                   |  9.8 m/s |      |                                                                                                   |      | 360° |                                                                                                     |      |      | EN13000                                                                                             |      |      |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|------|---------------------------------------------------------------------------------------------------|-------|------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------------------------|------|------|--|--|--|
|  48 m                                                                                                 |        |       |      |                                                                                                   |       |      |                                                                                                   |                                                                                           |      |                                                                                                   |      |      |                                                                                                     |      |      |                                                                                                     |      |      |  |  |  |
|  30 m                                                                                                 |        |       |      |  36 m            |       |      |  42 m            |                                                                                           |      |  48 m            |      |      |  54 m            |      |      |  60 m            |      |      |  |  |  |
|  87°/85° 75° 65°                                                                                      |        |       |      |  87°/85° 75° 65° |       |      |  87°/85° 75° 65° |                                                                                           |      |  87°/85° 75° 65° |      |      |  87°/85° 75° 65° |      |      |  87°/85° 75° 65° |      |      |  |  |  |
| m                                                                                                                                                                                      | t      | t     | t    | t                                                                                                 | t     | t    | t                                                                                                 | t                                                                                         | t    | t                                                                                                 | t    | t    | t                                                                                                   | t    | t    | t                                                                                                   | t    | t    |  |  |  |
| 14                                                                                                                                                                                     | 324,0  | -     | -    | -                                                                                                 | -     | -    | -                                                                                                 | -                                                                                         | -    | -                                                                                                 | -    | -    | -                                                                                                   | -    | -    | -                                                                                                   | -    | -    |  |  |  |
| 15                                                                                                                                                                                     | 304,0  | -     | -    | 292,0                                                                                             | -     | -    | -                                                                                                 | -                                                                                         | -    | -                                                                                                 | -    | -    | -                                                                                                   | -    | -    | -                                                                                                   | -    | -    |  |  |  |
| 16                                                                                                                                                                                     | 286,0  | -     | -    | 275,0                                                                                             | -     | -    | -                                                                                                 | -                                                                                         | -    | -                                                                                                 | -    | -    | -                                                                                                   | -    | -    | -                                                                                                   | -    | -    |  |  |  |
| 17                                                                                                                                                                                     | 270,0  | -     | -    | 260,0                                                                                             | -     | -    | 251,0                                                                                             | -                                                                                         | -    | -                                                                                                 | -    | -    | -                                                                                                   | -    | -    | -                                                                                                   | -    | -    |  |  |  |
| 18                                                                                                                                                                                     | 255,0  | -     | -    | 246,0                                                                                             | -     | -    | 238,0                                                                                             | -                                                                                         | -    | 230,0                                                                                             | -    | -    | -                                                                                                   | -    | -    | -                                                                                                   | -    | -    |  |  |  |
| 19                                                                                                                                                                                     | 242,0  | -     | -    | 234,0                                                                                             | -     | -    | 226,0                                                                                             | -                                                                                         | -    | 219,0                                                                                             | -    | -    | 212,0                                                                                               | -    | -    | -                                                                                                   | -    | -    |  |  |  |
| 20                                                                                                                                                                                     | 230,0  | -     | -    | 222,0                                                                                             | -     | -    | 215,0                                                                                             | -                                                                                         | -    | 208,0                                                                                             | -    | -    | 202,0                                                                                               | -    | -    | -                                                                                                   | -    | -    |  |  |  |
| 22                                                                                                                                                                                     | 209,0  | -     | -    | 202,0                                                                                             | -     | -    | 196,0                                                                                             | -                                                                                         | -    | 190,0                                                                                             | -    | -    | 184,0                                                                                               | -    | -    | 178,0                                                                                               | -    | -    |  |  |  |
| 24                                                                                                                                                                                     | 192,0  | -     | -    | 186,0                                                                                             | -     | -    | 180,0                                                                                             | -                                                                                         | -    | 174,0                                                                                             | -    | -    | 169,0                                                                                               | -    | -    | 164,0                                                                                               | -    | -    |  |  |  |
| 26                                                                                                                                                                                     | 177,0  | -     | -    | 171,0                                                                                             | -     | -    | 166,0                                                                                             | -                                                                                         | -    | 161,0                                                                                             | -    | -    | 156,0                                                                                               | -    | -    | 151,0                                                                                               | -    | -    |  |  |  |
| 28                                                                                                                                                                                     | 164,0  | -     | -    | 159,0                                                                                             | -     | -    | 154,0                                                                                             | -                                                                                         | -    | 149,0                                                                                             | -    | -    | 145,0                                                                                               | -    | -    | 140,0                                                                                               | -    | -    |  |  |  |
| 30                                                                                                                                                                                     | 150,0  | 126,0 | -    | 148,0                                                                                             | -     | -    | 144,0                                                                                             | -                                                                                         | -    | 139,0                                                                                             | -    | -    | 135,0                                                                                               | -    | -    | 130,0                                                                                               | -    | -    |  |  |  |
| 32                                                                                                                                                                                     | 138,0  | 116,0 | -    | 138,0                                                                                             | 113,0 | -    | 134,0                                                                                             | -                                                                                         | -    | 130,0                                                                                             | -    | -    | 126,0                                                                                               | -    | -    | 122,0                                                                                               | -    | -    |  |  |  |
| 34                                                                                                                                                                                     | 127,0  | 107,0 | -    | 127,0                                                                                             | 106,0 | -    | 126,0                                                                                             | -                                                                                         | -    | 122,0                                                                                             | -    | -    | 118,0                                                                                               | -    | -    | 114,0                                                                                               | -    | -    |  |  |  |
| 36                                                                                                                                                                                     | 114,0* | 99,0  | -    | 117,0                                                                                             | 98,0  | -    | 117,0                                                                                             | 96,0                                                                                      | -    | 115,0                                                                                             | -    | -    | 111,0                                                                                               | -    | -    | 107,0                                                                                               | -    | -    |  |  |  |
| 38                                                                                                                                                                                     | -      | 91,5  | -    | 109,0                                                                                             | 90,5  | -    | 108,0                                                                                             | 89,5                                                                                      | -    | 107,0                                                                                             | 86,5 | -    | 105,0                                                                                               | -    | -    | 101,0                                                                                               | -    | -    |  |  |  |
| 40                                                                                                                                                                                     | -      | 85,5  | -    | 101,0                                                                                             | 84,5  | -    | 101,0                                                                                             | 83,5                                                                                      | -    | 99,5                                                                                              | 81,5 | -    | 99,0                                                                                                | 78,5 | -    | 95,5                                                                                                | -    | -    |  |  |  |
| 42                                                                                                                                                                                     | -      | 79,5  | 67,0 | -                                                                                                 | 78,5  | -    | 94,5                                                                                              | 78,0                                                                                      | -    | 93,0                                                                                              | 75,5 | -    | 92,5                                                                                                | 74,0 | -    | 90,5                                                                                                | 70,5 | -    |  |  |  |
| 44                                                                                                                                                                                     | -      | 74,5  | 62,5 | -                                                                                                 | 73,5  | -    | 88,5                                                                                              | 73,0                                                                                      | -    | 87,0                                                                                              | 70,5 | -    | 86,5                                                                                                | 70,0 | -    | 85,5                                                                                                | 66,5 | -    |  |  |  |
| 46                                                                                                                                                                                     | -      | -     | 58,0 | -                                                                                                 | 69,0  | 56,5 | 83,5                                                                                              | 68,5                                                                                      | -    | 82,0                                                                                              | 66,0 | -    | 81,5                                                                                                | 65,5 | -    | 81,0                                                                                                | 62,5 | -    |  |  |  |
| 50                                                                                                                                                                                     | -      | -     | 51,0 | -                                                                                                 | 61,5  | 49,8 | -                                                                                                 | 60,5                                                                                      | 48,5 | 73,0                                                                                              | 58,5 | -    | 72,0                                                                                                | 57,5 | -    | 72,0                                                                                                | 56,0 | -    |  |  |  |
| 54                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -     | 44,0 | -                                                                                                 | 54,0                                                                                      | 42,7 | -                                                                                                 | 52,0 | 40,0 | 64,5                                                                                                | 51,0 | -    | 64,5                                                                                                | 50,5 | -    |  |  |  |
| 58                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -     | 39,1 | -                                                                                                 | -                                                                                         | 37,8 | -                                                                                                 | 46,6 | 35,1 | 56,0*                                                                                               | 45,5 | 33,9 | 57,5                                                                                                | 44,9 | -    |  |  |  |
| 62                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -     | -    | -                                                                                                 | -                                                                                         | 33,6 | -                                                                                                 | -    | 31,0 | -                                                                                                   | 40,6 | 29,8 | 52,0                                                                                                | 39,9 | 28,8 |  |  |  |
| 66                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -     | -    | -                                                                                                 | -                                                                                         | -    | -                                                                                                 | -    | 27,5 | -                                                                                                   | 36,4 | 26,2 | -                                                                                                   | 35,6 | 25,3 |  |  |  |
| 70                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -     | -    | -                                                                                                 | -                                                                                         | -    | -                                                                                                 | -    | -    | -                                                                                                   | -    | 23,2 | -                                                                                                   | 31,9 | 22,2 |  |  |  |
| 74                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -     | -    | -                                                                                                 | -                                                                                         | -    | -                                                                                                 | -    | -    | -                                                                                                   | -    | 20,5 | -                                                                                                   | -    | 19,4 |  |  |  |
| 78                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -     | -    | -                                                                                                 | -                                                                                         | -    | -                                                                                                 | -    | -    | -                                                                                                   | -    | -    | -                                                                                                   | -    | 17,0 |  |  |  |

| 66 m                |       |      |      | 72 m                |      |      |       | 78 m                |      |       |      | 84 m                |       |      |   | 90 m                |      |   |   |
|---------------------|-------|------|------|---------------------|------|------|-------|---------------------|------|-------|------|---------------------|-------|------|---|---------------------|------|---|---|
| 87°/85°   75°   65° |       |      |      | 87°/85°   75°   65° |      |      |       | 87°/85°   75°   65° |      |       |      | 87°/85°   75°   65° |       |      |   | 87°/85°   75°   65° |      |   |   |
| m                   | t     | t    | t    | t                   | t    | t    | t     | t                   | t    | t     | t    | t                   | t     | t    | t | t                   | t    | t | t |
| 22                  | 172,0 | -    | -    | -                   | -    | -    | -     | -                   | -    | -     | -    | -                   | -     | -    | - | -                   | -    | - | - |
| 24                  | 158,0 | -    | -    | 153,0               | -    | -    | -     | -                   | -    | -     | -    | -                   | -     | -    | - | -                   | -    | - | - |
| 26                  | 146,0 | -    | -    | 141,0               | -    | -    | 137,0 | -                   | -    | 133,0 | -    | -                   | -     | -    | - | -                   | -    | - | - |
| 28                  | 135,0 | -    | -    | 131,0               | -    | -    | 127,0 | -                   | -    | 123,0 | -    | -                   | 120,0 | -    | - | -                   | -    | - | - |
| 30                  | 126,0 | -    | -    | 122,0               | -    | -    | 119,0 | -                   | -    | 114,0 | -    | -                   | 111,0 | -    | - | 107,0               | -    | - | - |
| 34                  | 110,0 | -    | -    | 106,0               | -    | -    | 104,0 | -                   | -    | 100,0 | -    | -                   | 97,5  | -    | - | 93,5                | -    | - | - |
| 38                  | 97,0  | -    | -    | 94,0                | -    | -    | 91,5  | -                   | -    | 88,0  | -    | -                   | 85,5  | -    | - | 82,5                | -    | - | - |
| 42                  | 86,5  | -    | -    | 83,5                | -    | -    | 81,5  | -                   | -    | 78,0  | -    | -                   | 76,0  | -    | - | 73,0                | -    | - | - |
| 46                  | 77,5  | 59,0 | -    | 74,5                | -    | -    | 73,0  | -                   | -    | 69,5  | -    | -                   | 67,5  | -    | - | 64,5                | -    | - | - |
| 48                  | 73,5  | 55,5 | -    | 71,0                | 52,5 | -    | 69,0  | -                   | -    | 66,0  | -    | -                   | 64,0  | -    | - | 61,0                | -    | - | - |
| 50                  | 70,0  | 52,5 | -    | 67,0                | 49,8 | -    | 65,5  | 48,0                | -    | 62,5  | -    | -                   | 60,5  | -    | - | 57,5                | -    | - | - |
| 54                  | 63,0  | 47,3 | -    | 60,5                | 44,5 | -    | 59,0  | 42,8                | -    | 56,5  | 39,8 | -                   | 54,5  | -    | - | 51,5                | -    | - | - |
| 58                  | 56,5  | 42,5 | -    | 55,0                | 39,8 | -    | 53,5  | 38,2                | -    | 51,0  | 35,3 | -                   | 49,3  | 33,5 | - | 46,6                | 30,7 | - | - |
| 62                  | 51,0  | 38,2 | -    | 49,8                | 35,7 | -    | 48,8  | 34,2                | -    | 46,2  | 31,4 | -                   | 44,5  | 29,6 | - | 41,9                | 26,9 | - | - |
| 66                  | 46,2  | 33,9 | 23,4 | 44,9                | 32,0 | 21,2 | 44,3  | 30,6                | -    | 41,9  | 27,8 | -                   | 40,3  | 26,2 | - | 37,7                | 23,5 | - | - |
| 70                  | 40,2* | 30,2 | 20,2 | 40,6                | 28,2 | 18,1 | 40,0  | 27,3                | 17,0 | 38,1  | 24,7 | -                   | 36,5  | 23,1 | - | 34,0                | 20,5 | - | - |
| 74                  | -     | 26,8 | 17,5 | 36,9                | 25,0 | 15,4 | 36,2  | 24,0                | 14,3 | 34,6  | 21,9 | 12,1                | 33,1  | 20,3 | - | 30,6                | 17,7 | - | - |
| 78                  | -     | 23,9 | 15,1 | -                   | 22,0 | 13,0 | 32,7  | 21,1                | 11,9 | 31,3  | 19,3 | 9,9                 | 30,0  | 17,8 | - | 27,6                | 15,2 | - | - |
| 82                  | -     | -    | 12,9 | -                   | 19,4 | 10,8 | 27,7* | 18,5                | 9,8  | 28,1  | 16,9 | 8,0                 | 27,1  | 15,5 | - | 24,8                | 13,0 | - | - |
| 86                  | -     | -    | 11,0 | -                   | -    | 8,9  | -     | 16,2                | 7,9  | 25,3  | 14,6 | 6,1                 | 24,3  | 13,4 | - | 22,3                | 10,9 | - | - |
| 90                  | -     | -    | -    | -                   | -    | 7,2  | -     | 14,2                | 6,2  | -     | 12,5 | -                   | 21,7  | 11,4 | - | 20,0                | 9,0  | - | - |
| 94                  | -     | -    | -    | -                   | -    | -    | -     | -                   | -    | -     | 10,6 | -                   | 17,7* | 9,5  | - | 17,9                | 7,3  | - | - |
| 98                  | -     | -    | -    | -                   | -    | -    | -     | -                   | -    | -     | -    | -                   | -     | 7,8  | - | 15,9                | 5,7  | - | - |
| 102                 | -     | -    | -    | -                   | -    | -    | -     | -                   | -    | -     | -    | -                   | -     | 6,3  | - | -                   | -    | - | - |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° · Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

For explanations see page 84 · Bemerkungen siehe Seite 84 · Pour plus de détails, voir page 84 · Per spiegazioni vedere a pagina 84 · Véase p. 84 para más información · Para explicações, ver página 84 · Объяснения см. на стр. 84

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  170-250 t +  0-80 t |        |       |      |  9,60 m          |      |      |       |  9.8 m/s         |      |       |      | 360°                                                                                              |       |      |      | EN13000                                                                                             |      |      |   |                                                                                                     |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|------|---------------------------------------------------------------------------------------------------|------|------|-------|---------------------------------------------------------------------------------------------------|------|-------|------|---------------------------------------------------------------------------------------------------|-------|------|------|-----------------------------------------------------------------------------------------------------|------|------|---|-----------------------------------------------------------------------------------------------------|--|--|--|
|  54 m                                                                                                 |        |       |      |                                                                                                   |      |      |       |                                                                                                   |      |       |      |                                                                                                   |       |      |      |                                                                                                     |      |      |   |                                                                                                     |  |  |  |
|  30 m                                                                                                 |        |       |      |  36 m            |      |      |       |  42 m            |      |       |      |  48 m            |       |      |      |  54 m            |      |      |   |  60 m            |  |  |  |
|  87°/85° 75° 65°                                                                                      |        |       |      |  87°/85° 75° 65° |      |      |       |  87°/85° 75° 65° |      |       |      |  87°/85° 75° 65° |       |      |      |  87°/85° 75° 65° |      |      |   |  87°/85° 75° 65° |  |  |  |
| m                                                                                                                                                                                      | t      | t     | t    | t                                                                                                 | t    | t    | t     | t                                                                                                 | t    | t     | t    | t                                                                                                 | t     | t    | t    | t                                                                                                   | t    | t    | t |                                                                                                     |  |  |  |
| 14                                                                                                                                                                                     | 310,0  | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | -    | -                                                                                                   | -    | -    | - |                                                                                                     |  |  |  |
| 16                                                                                                                                                                                     | 274,0  | -     | -    | 264,0                                                                                             | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | -    | -                                                                                                   | -    | -    | - |                                                                                                     |  |  |  |
| 17                                                                                                                                                                                     | 259,0  | -     | -    | 250,0                                                                                             | -    | -    | 242,0 | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | -    | -                                                                                                   | -    | -    | - |                                                                                                     |  |  |  |
| 18                                                                                                                                                                                     | 246,0  | -     | -    | 237,0                                                                                             | -    | -    | 229,0 | -                                                                                                 | -    | 221,0 | -    | -                                                                                                 | -     | -    | -    | -                                                                                                   | -    | -    | - |                                                                                                     |  |  |  |
| 20                                                                                                                                                                                     | 222,0  | -     | -    | 214,0                                                                                             | -    | -    | 208,0 | -                                                                                                 | -    | 201,0 | -    | -                                                                                                 | 195,0 | -    | -    | -                                                                                                   | -    | -    | - |                                                                                                     |  |  |  |
| 22                                                                                                                                                                                     | 202,0  | -     | -    | 196,0                                                                                             | -    | -    | 190,0 | -                                                                                                 | -    | 183,0 | -    | -                                                                                                 | 178,0 | -    | -    | 172,0                                                                                               | -    | -    | - |                                                                                                     |  |  |  |
| 24                                                                                                                                                                                     | 186,0  | -     | -    | 180,0                                                                                             | -    | -    | 174,0 | -                                                                                                 | -    | 169,0 | -    | -                                                                                                 | 164,0 | -    | -    | 158,0                                                                                               | -    | -    | - |                                                                                                     |  |  |  |
| 26                                                                                                                                                                                     | 172,0  | -     | -    | 166,0                                                                                             | -    | -    | 161,0 | -                                                                                                 | -    | 156,0 | -    | -                                                                                                 | 151,0 | -    | -    | 146,0                                                                                               | -    | -    | - |                                                                                                     |  |  |  |
| 28                                                                                                                                                                                     | 159,0  | -     | -    | 154,0                                                                                             | -    | -    | 150,0 | -                                                                                                 | -    | 145,0 | -    | -                                                                                                 | 140,0 | -    | -    | 136,0                                                                                               | -    | -    | - |                                                                                                     |  |  |  |
| 30                                                                                                                                                                                     | 149,0  | -     | -    | 143,0                                                                                             | -    | -    | 139,0 | -                                                                                                 | -    | 135,0 | -    | -                                                                                                 | 131,0 | -    | -    | 126,0                                                                                               | -    | -    | - |                                                                                                     |  |  |  |
| 32                                                                                                                                                                                     | 137,0  | 110,0 | -    | 134,0                                                                                             | -    | -    | 130,0 | -                                                                                                 | -    | 126,0 | -    | -                                                                                                 | 122,0 | -    | -    | 118,0                                                                                               | -    | -    | - |                                                                                                     |  |  |  |
| 34                                                                                                                                                                                     | 126,0  | 103,0 | -    | 126,0                                                                                             | 99,0 | -    | 122,0 | -                                                                                                 | -    | 118,0 | -    | -                                                                                                 | 115,0 | -    | -    | 111,0                                                                                               | -    | -    | - |                                                                                                     |  |  |  |
| 36                                                                                                                                                                                     | 113,0* | 95,0  | -    | 116,0                                                                                             | 93,0 | -    | 115,0 | 89,5                                                                                              | -    | 111,0 | -    | -                                                                                                 | 108,0 | -    | -    | 104,0                                                                                               | -    | -    | - |                                                                                                     |  |  |  |
| 38                                                                                                                                                                                     | -      | 88,0  | -    | 108,0                                                                                             | 87,0 | -    | 108,0 | 84,0                                                                                              | -    | 105,0 | -    | -                                                                                                 | 102,0 | -    | -    | 98,5                                                                                                | -    | -    | - |                                                                                                     |  |  |  |
| 40                                                                                                                                                                                     | -      | 82,0  | -    | 101,0                                                                                             | 81,0 | -    | 100,0 | 79,5                                                                                              | -    | 99,0  | 75,5 | -                                                                                                 | 96,5  | -    | -    | 92,5                                                                                                | -    | -    | - |                                                                                                     |  |  |  |
| 42                                                                                                                                                                                     | -      | 76,5  | -    | 91,0*                                                                                             | 75,5 | -    | 94,0  | 74,5                                                                                              | -    | 92,5  | 71,5 | -                                                                                                 | 91,0  | 68,5 | -    | 87,5                                                                                                | -    | -    | - |                                                                                                     |  |  |  |
| 44                                                                                                                                                                                     | -      | 71,5  | -    | -                                                                                                 | 70,5 | -    | 88,0  | 69,5                                                                                              | -    | 86,5  | 67,5 | -                                                                                                 | 86,0  | 64,5 | -    | 83,0                                                                                                | 61,0 | -    | - |                                                                                                     |  |  |  |
| 46                                                                                                                                                                                     | -      | 67,0  | 52,5 | -                                                                                                 | 66,0 | -    | 83,0  | 65,0                                                                                              | -    | 81,5  | 63,0 | -                                                                                                 | 81,0  | 61,0 | -    | 79,0                                                                                                | 57,5 | -    | - |                                                                                                     |  |  |  |
| 48                                                                                                                                                                                     | -      | -     | 49,2 | -                                                                                                 | 62,0 | 47,7 | 75,0* | 61,5                                                                                              | -    | 76,5  | 59,0 | -                                                                                                 | 76,0  | 58,0 | -    | 75,0                                                                                                | 54,5 | -    | - |                                                                                                     |  |  |  |
| 50                                                                                                                                                                                     | -      | -     | 46,0 | -                                                                                                 | 58,5 | 44,5 | -     | 57,5                                                                                              | -    | 72,0  | 55,5 | -                                                                                                 | 71,5  | 54,5 | -    | 71,5                                                                                                | 51,5 | -    | - |                                                                                                     |  |  |  |
| 54                                                                                                                                                                                     | -      | -     | 40,5 | -                                                                                                 | -    | 39,1 | -     | 51,5                                                                                              | 37,7 | 62,0* | 49,2 | -                                                                                                 | 64,0  | 48,1 | -    | 64,0                                                                                                | 46,5 | -    | - |                                                                                                     |  |  |  |
| 58                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -    | 34,5 | -     | -                                                                                                 | 33,1 | -     | 43,6 | 30,4                                                                                              | 55,0* | 42,6 | 29,1 | 57,5                                                                                                | 41,9 | -    | - |                                                                                                     |  |  |  |
| 62                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | 29,3 | -     | 39,0 | 26,6                                                                                              | -     | 37,9 | 25,3 | 51,5                                                                                                | 37,2 | 24,4 | - |                                                                                                     |  |  |  |
| 66                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | 26,0 | -     | -    | 23,3                                                                                              | -     | 33,8 | 22,0 | -                                                                                                   | 33,1 | 21,1 | - |                                                                                                     |  |  |  |
| 70                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | 20,5                                                                                              | -     | -    | 19,2 | -                                                                                                   | 29,5 | 18,3 | - |                                                                                                     |  |  |  |
| 74                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | 16,7 | -                                                                                                   | 26,4 | 15,7 | - |                                                                                                     |  |  |  |
| 78                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | 14,7 | -                                                                                                   | -    | 13,5 | - |                                                                                                     |  |  |  |
| 82                                                                                                                                                                                     | -      | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | -    | -                                                                                                   | -    | 11,6 | - |                                                                                                     |  |  |  |

| 66 m                |       |      |      | 72 m                |      |      |       | 78 m                |      |       |      | 84 m                |       |      |   | 90 m                |      |   |   |
|---------------------|-------|------|------|---------------------|------|------|-------|---------------------|------|-------|------|---------------------|-------|------|---|---------------------|------|---|---|
| 87°/85°   75°   65° |       |      |      | 87°/85°   75°   65° |      |      |       | 87°/85°   75°   65° |      |       |      | 87°/85°   75°   65° |       |      |   | 87°/85°   75°   65° |      |   |   |
| m                   | t     | t    | t    | t                   | t    | t    | t     | t                   | t    | t     | t    | t                   | t     | t    | t | t                   | t    | t | t |
| 22                  | 166,0 | -    | -    | -                   | -    | -    | -     | -                   | -    | -     | -    | -                   | -     | -    | - | -                   | -    | - | - |
| 24                  | 152,0 | -    | -    | 147,0               | -    | -    | -     | -                   | -    | -     | -    | -                   | -     | -    | - | -                   | -    | - | - |
| 26                  | 141,0 | -    | -    | 136,0               | -    | -    | 133,0 | -                   | -    | 128,0 | -    | -                   | -     | -    | - | -                   | -    | - | - |
| 28                  | 131,0 | -    | -    | 126,0               | -    | -    | 123,0 | -                   | -    | 119,0 | -    | -                   | 116,0 | -    | - | -                   | -    | - | - |
| 30                  | 122,0 | -    | -    | 118,0               | -    | -    | 115,0 | -                   | -    | 111,0 | -    | -                   | 107,0 | -    | - | 103,0               | -    | - | - |
| 34                  | 106,0 | -    | -    | 103,0               | -    | -    | 100,0 | -                   | -    | 96,5  | -    | -                   | 94,0  | -    | - | 90,5                | -    | - | - |
| 38                  | 94,0  | -    | -    | 91,0                | -    | -    | 88,5  | -                   | -    | 85,0  | -    | -                   | 83,0  | -    | - | 79,5                | -    | - | - |
| 42                  | 84,0  | -    | -    | 81,0                | -    | -    | 79,0  | -                   | -    | 75,5  | -    | -                   | 73,5  | -    | - | 70,0                | -    | - | - |
| 46                  | 75,5  | -    | -    | 72,5                | -    | -    | 70,5  | -                   | -    | 67,5  | -    | -                   | 65,5  | -    | - | 62,5                | -    | - | - |
| 48                  | 71,5  | 51,0 | -    | 68,5                | -    | -    | 67,0  | -                   | -    | 64,0  | -    | -                   | 62,0  | -    | - | 59,0                | -    | - | - |
| 50                  | 68,0  | 48,2 | -    | 65,0                | 45,2 | -    | 63,5  | -                   | -    | 60,5  | -    | -                   | 58,5  | -    | - | 55,5                | -    | - | - |
| 54                  | 61,5  | 43,1 | -    | 59,0                | 40,2 | -    | 57,0  | 38,5                | -    | 54,5  | 35,5 | -                   | 52,5  | -    | - | 50,0                | -    | - | - |
| 58                  | 56,0  | 38,5 | -    | 53,5                | 35,8 | -    | 52,0  | 34,2                | -    | 49,2  | 31,3 | -                   | 47,5  | 29,5 | - | 44,8                | -    | - | - |
| 62                  | 50,5  | 34,6 | -    | 48,6                | 31,9 | -    | 47,2  | 30,4                | -    | 44,5  | 27,6 | -                   | 42,9  | 25,9 | - | 40,3                | 23,1 | - | - |
| 66                  | 45,9  | 31,1 | 19,1 | 44,4                | 28,5 | -    | 43,0  | 27,1                | -    | 40,4  | 24,3 | -                   | 38,7  | 22,7 | - | 36,2                | 19,9 | - | - |
| 70                  | 39,5* | 27,8 | 16,4 | 40,3                | 25,4 | 13,9 | 39,2  | 24,1                | -    | 36,6  | 21,4 | -                   | 35,1  | 19,8 | - | 32,6                | 17,1 | - | - |
| 74                  | -     | 24,6 | 13,8 | 36,5                | 22,7 | 11,6 | 35,8  | 21,4                | 10,3 | 33,3  | 18,7 | -                   | 31,7  | 17,2 | - | 29,3                | 14,5 | - | - |
| 78                  | -     | 21,8 | 11,6 | -                   | 19,9 | 9,4  | 32,3  | 18,9                | 8,3  | 30,3  | 16,3 | -                   | 28,7  | 14,8 | - | 26,3                | 12,2 | - | - |
| 82                  | -     | -    | 9,6  | -                   | 17,4 | 7,5  | 27,0* | 16,4                | 6,3  | 27,5  | 14,1 | -                   | 26,0  | 12,6 | - | 23,6                | 10,1 | - | - |
| 86                  | -     | -    | 7,8  | -                   | 15,2 | 5,7  | -     | 14,2                | -    | 24,9  | 12,1 | -                   | 23,5  | 10,7 | - | 21,2                | 8,2  | - | - |
| 90                  | -     | -    | -    | -                   | -    | -    | -     | 12,3                | -    | -     | 10,3 | -                   | 21,3  | 8,8  | - | 18,9                | 6,4  | - | - |
| 94                  | -     | -    | -    | -                   | -    | -    | -     | -                   | -    | -     | 8,6  | -                   | 17,1* | 7,2  | - | 16,8                | -    | - | - |
| 98                  | -     | -    | -    | -                   | -    | -    | -     | -                   | -    | -     | 7,0  | -                   | -     | 5,6  | - | 15,0                | -    | - | - |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° · Ángulo de pluma principal 85° ·  
Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

For explanations see page 84 · Bemerkungen siehe Seite 84 · Pour plus de détails, voir page 84 · Per spiegazioni vedere a pagina 84 ·  
Véase p. 84 para más información · Para explicações, ver página 84 · Объяснения см. на стр. 84

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  170-250 t +  0-80 t |        |      |      |  9,60 m          |      |      |       |  9.8 m/s         |      |       |      | 360°                                                                                              |       |      |      | EN13000                                                                                           |      |      |   |                                                                                                   |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|------|---------------------------------------------------------------------------------------------------|------|------|-------|---------------------------------------------------------------------------------------------------|------|-------|------|---------------------------------------------------------------------------------------------------|-------|------|------|---------------------------------------------------------------------------------------------------|------|------|---|---------------------------------------------------------------------------------------------------|--|--|--|
|  60 m                                                                                                 |        |      |      |                                                                                                   |      |      |       |                                                                                                   |      |       |      |                                                                                                   |       |      |      |                                                                                                   |      |      |   |                                                                                                   |  |  |  |
|  30 m                                                                                                 |        |      |      |  36 m            |      |      |       |  42 m            |      |       |      |  48 m            |       |      |      |  54 m            |      |      |   |  60 m            |  |  |  |
|  87°/85° 75° 65°                                                                                      |        |      |      |  87°/85° 75° 65° |      |      |       |  87°/85° 75° 65° |      |       |      |  87°/85° 75° 65° |       |      |      |  87°/85° 75° 65° |      |      |   |  87°/85° 75° 65° |  |  |  |
| m                                                                                                                                                                                      | t      | t    | t    | t                                                                                                 | t    | t    | t     | t                                                                                                 | t    | t     | t    | t                                                                                                 | t     | t    | t    | t                                                                                                 | t    | t    | t |                                                                                                   |  |  |  |
| 14                                                                                                                                                                                     | 297,0  | -    | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | -    | -                                                                                                 | -    | -    | - |                                                                                                   |  |  |  |
| 16                                                                                                                                                                                     | 263,0  | -    | -    | 254,0                                                                                             | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | -    | -                                                                                                 | -    | -    | - |                                                                                                   |  |  |  |
| 17                                                                                                                                                                                     | 249,0  | -    | -    | 240,0                                                                                             | -    | -    | 232,0 | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | -    | -                                                                                                 | -    | -    | - |                                                                                                   |  |  |  |
| 18                                                                                                                                                                                     | 236,0  | -    | -    | 228,0                                                                                             | -    | -    | 221,0 | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | -    | -                                                                                                 | -    | -    | - |                                                                                                   |  |  |  |
| 19                                                                                                                                                                                     | 224,0  | -    | -    | 217,0                                                                                             | -    | -    | 210,0 | -                                                                                                 | -    | 203,0 | -    | -                                                                                                 | -     | -    | -    | -                                                                                                 | -    | -    | - |                                                                                                   |  |  |  |
| 20                                                                                                                                                                                     | 214,0  | -    | -    | 207,0                                                                                             | -    | -    | 200,0 | -                                                                                                 | -    | 193,0 | -    | -                                                                                                 | 187,0 | -    | -    | -                                                                                                 | -    | -    | - |                                                                                                   |  |  |  |
| 22                                                                                                                                                                                     | 195,0  | -    | -    | 189,0                                                                                             | -    | -    | 183,0 | -                                                                                                 | -    | 177,0 | -    | -                                                                                                 | 171,0 | -    | -    | 166,0                                                                                             | -    | -    | - |                                                                                                   |  |  |  |
| 24                                                                                                                                                                                     | 180,0  | -    | -    | 173,0                                                                                             | -    | -    | 168,0 | -                                                                                                 | -    | 163,0 | -    | -                                                                                                 | 158,0 | -    | -    | 153,0                                                                                             | -    | -    | - |                                                                                                   |  |  |  |
| 26                                                                                                                                                                                     | 166,0  | -    | -    | 160,0                                                                                             | -    | -    | 156,0 | -                                                                                                 | -    | 150,0 | -    | -                                                                                                 | 146,0 | -    | -    | 141,0                                                                                             | -    | -    | - |                                                                                                   |  |  |  |
| 28                                                                                                                                                                                     | 154,0  | -    | -    | 149,0                                                                                             | -    | -    | 145,0 | -                                                                                                 | -    | 140,0 | -    | -                                                                                                 | 136,0 | -    | -    | 131,0                                                                                             | -    | -    | - |                                                                                                   |  |  |  |
| 30                                                                                                                                                                                     | 144,0  | -    | -    | 139,0                                                                                             | -    | -    | 135,0 | -                                                                                                 | -    | 130,0 | -    | -                                                                                                 | 126,0 | -    | -    | 122,0                                                                                             | -    | -    | - |                                                                                                   |  |  |  |
| 34                                                                                                                                                                                     | 125,0  | 96,0 | -    | 122,0                                                                                             | -    | -    | 119,0 | -                                                                                                 | -    | 114,0 | -    | -                                                                                                 | 111,0 | -    | -    | 107,0                                                                                             | -    | -    | - |                                                                                                   |  |  |  |
| 36                                                                                                                                                                                     | 111,0* | 90,0 | -    | 115,0                                                                                             | 86,0 | -    | 112,0 | -                                                                                                 | -    | 108,0 | -    | -                                                                                                 | 104,0 | -    | -    | 101,0                                                                                             | -    | -    | - |                                                                                                   |  |  |  |
| 38                                                                                                                                                                                     | -      | 84,0 | -    | 107,0                                                                                             | 81,0 | -    | 105,0 | 77,5                                                                                              | -    | 102,0 | -    | -                                                                                                 | 98,5  | -    | -    | 95,0                                                                                              | -    | -    | - |                                                                                                   |  |  |  |
| 42                                                                                                                                                                                     | -      | 72,5 | -    | 90,0*                                                                                             | 71,5 | -    | 93,5  | 69,0                                                                                              | -    | 91,5  | 65,5 | -                                                                                                 | 88,5  | -    | -    | 85,0                                                                                              | -    | -    | - |                                                                                                   |  |  |  |
| 44                                                                                                                                                                                     | -      | 68,0 | -    | -                                                                                                 | 67,0 | -    | 87,5  | 65,5                                                                                              | -    | 86,0  | 62,0 | -                                                                                                 | 84,0  | 59,0 | -    | 80,5                                                                                              | -    | -    | - |                                                                                                   |  |  |  |
| 46                                                                                                                                                                                     | -      | 63,5 | -    | -                                                                                                 | 62,5 | -    | 82,0  | 62,0                                                                                              | -    | 80,5  | 58,5 | -                                                                                                 | 79,5  | 55,5 | -    | 76,5                                                                                              | 52,5 | -    | - |                                                                                                   |  |  |  |
| 48                                                                                                                                                                                     | -      | -    | 43,0 | -                                                                                                 | 59,0 | -    | 74,0* | 58,0                                                                                              | -    | 76,0  | 55,5 | -                                                                                                 | 75,5  | 52,5 | -    | 72,5                                                                                              | 49,5 | -    | - |                                                                                                   |  |  |  |
| 50                                                                                                                                                                                     | -      | -    | 40,1 | -                                                                                                 | 55,5 | -    | -     | 54,5                                                                                              | -    | 71,5  | 52,0 | -                                                                                                 | 71,0  | 50,0 | -    | 69,0                                                                                              | 46,8 | -    | - |                                                                                                   |  |  |  |
| 54                                                                                                                                                                                     | -      | -    | 35,0 | -                                                                                                 | -    | 33,6 | -     | 48,1                                                                                              | 32,2 | 61,0* | 45,7 | -                                                                                                 | 63,5  | 44,6 | -    | 63,0                                                                                              | 41,9 | -    | - |                                                                                                   |  |  |  |
| 58                                                                                                                                                                                     | -      | -    | -    | -                                                                                                 | -    | 29,3 | -     | 42,8                                                                                              | 28,0 | -     | 40,4 | 25,1                                                                                              | 57,0  | 39,3 | -    | 57,0                                                                                              | 37,6 | -    | - |                                                                                                   |  |  |  |
| 62                                                                                                                                                                                     | -      | -    | -    | -                                                                                                 | -    | 25,8 | -     | -                                                                                                 | 24,4 | -     | 35,9 | 21,6                                                                                              | -     | 34,8 | 20,4 | 51,5                                                                                              | 33,9 | -    | - |                                                                                                   |  |  |  |
| 66                                                                                                                                                                                     | -      | -    | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | 21,4 | -     | -    | 18,6                                                                                              | -     | 30,9 | 17,4 | 44,2*                                                                                             | 30,3 | 16,5 | - |                                                                                                   |  |  |  |
| 70                                                                                                                                                                                     | -      | -    | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | 16,1                                                                                              | -     | 27,6 | 14,8 | -                                                                                                 | 26,9 | 13,9 | - |                                                                                                   |  |  |  |
| 74                                                                                                                                                                                     | -      | -    | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | 13,9                                                                                              | -     | -    | 12,5 | -                                                                                                 | 23,8 | 11,6 | - |                                                                                                   |  |  |  |
| 78                                                                                                                                                                                     | -      | -    | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | 10,6 | -                                                                                                 | -    | 9,6  | - |                                                                                                   |  |  |  |
| 82                                                                                                                                                                                     | -      | -    | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | -    | -                                                                                                 | -    | 7,8  | - |                                                                                                   |  |  |  |
| 86                                                                                                                                                                                     | -      | -    | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | -    | -                                                                                                 | -    | 6,3  | - |                                                                                                   |  |  |  |

| 66 m                |       |      |      |
|---------------------|-------|------|------|
| 87°/85°   75°   65° |       |      |      |
| m                   | t     | t    | t    |
| 24                  | 147,0 | -    | -    |
| 26                  | 136,0 | -    | -    |
| 28                  | 126,0 | -    | -    |
| 30                  | 117,0 | -    | -    |
| 34                  | 103,0 | -    | -    |
| 38                  | 91,0  | -    | -    |
| 42                  | 81,0  | -    | -    |
| 46                  | 73,0  | -    | -    |
| 48                  | 69,0  | 45,8 | -    |
| 50                  | 65,5  | 43,2 | -    |
| 54                  | 59,5  | 38,4 | -    |
| 58                  | 54,0  | 34,3 | -    |
| 62                  | 49,5  | 30,6 | -    |
| 66                  | 45,3  | 27,3 | -    |
| 70                  | 38,5* | 24,4 | 11,5 |
| 74                  | -     | 21,7 | 9,4  |
| 78                  | -     | 19,3 | 7,6  |
| 82                  | -     | 17,0 | 5,9  |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° · Ángulo de pluma principal 85° ·  
Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ángulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

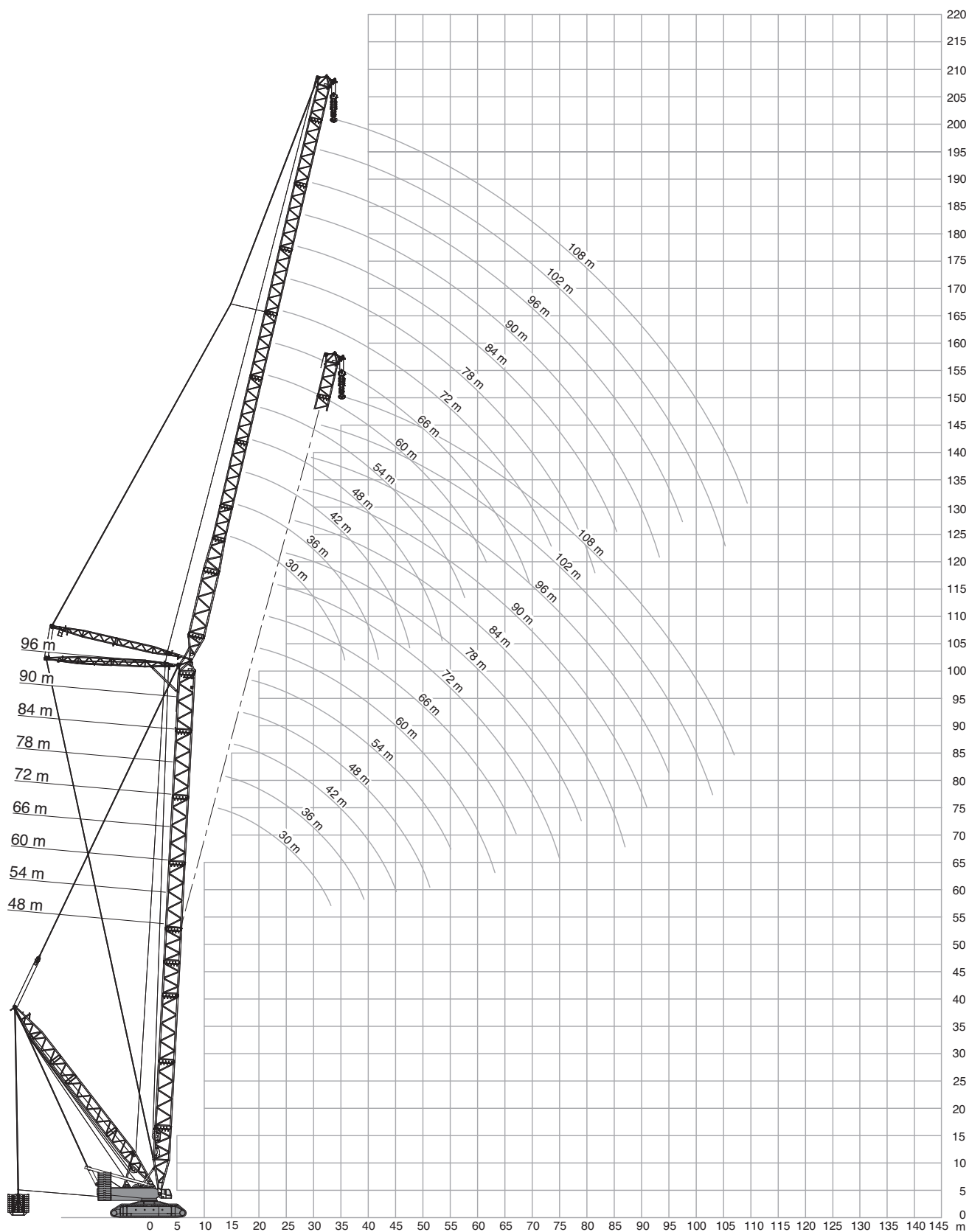
## Notes

Notizen · Notes · Nota · Notas · Notas · пометы, комментарии, примечания

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |         |       |       |       |       |       |   |
|--------------------------------------------------------|---------|---------|-------|-------|-------|-------|-------|---|
| 48 m + 36 m                                            |         |         |       |       |       |       |       |   |
| m                                                      | SWSL    |         |       |       |       | SFSL  |       |   |
|                                                        | 0 t     | 80 t    | 160 t | 240 t | 320 t | 400 t | 450 t |   |
|                                                        | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 45°   | 15°   |   |
| 15                                                     | 341,0*  | 484,0*  | -     | -     | -     | -     | -     | - |
| 16                                                     | 321,0*  | 484,0*  | -     | -     | -     | -     | -     | - |
| 18                                                     | 287,0*  | 501,0   | -     | -     | -     | -     | -     | - |
| 19                                                     | 273,0*  | 501,0   | -     | -     | -     | -     | 467,0 | - |
| 20                                                     | 260,0*  | 496,0   | -     | -     | -     | -     | 467,0 | - |
| 22                                                     | 237,0*  | 484,0   | -     | -     | -     | -     | 467,0 | - |
| 24                                                     | 216,0*  | 471,0   | -     | -     | -     | -     | 467,0 | - |
| 26                                                     | 195,5*  | 436,0   | -     | -     | -     | -     | 467,0 | - |
| 28                                                     | 178,0*  | 391,0   | -     | -     | -     | -     | 464,0 | - |
| 30                                                     | 163,0*  | 354,0   | -     | -     | -     | -     | 451,0 | - |
| 32                                                     | 150,0*  | 323,0   | 425,0 | -     | -     | -     | 421,5 | - |
| 34                                                     | 138,5*  | 297,0   | 399,0 | -     | -     | -     | 392,0 | - |
| 38                                                     | 119,5*  | 255,0   | 354,0 | -     | -     | -     | 344,0 | - |
| 40                                                     | 111,5*  | 238,0   | 329,0 | -     | -     | -     | 325,0 | - |
| 42                                                     | -       | -       | 302,0 | -     | -     | -     | 306,0 | - |
| 46                                                     | -       | -       | 259,0 | 276,0 | -     | -     | 274,0 | - |
| 50                                                     | -       | -       | 226,0 | 251,0 | -     | -     | 247,0 | - |
| 54                                                     | -       | -       | -     | 230,0 | -     | -     | 217,0 | - |
| 58                                                     | -       | -       | -     | 212,0 | 188,0 | -     | 191,0 | - |
| 62                                                     | -       | -       | -     | -     | 173,5 | -     | 168,0 | - |
| 66                                                     | -       | -       | -     | -     | -     | -     | 153,0 | - |
| 70                                                     | -       | -       | -     | -     | -     | -     | 133,0 | - |
| 74                                                     | -       | -       | -     | -     | -     | -     | 115,0 | - |
| 78                                                     | -       | -       | -     | -     | -     | -     | 97,0  | - |

| 48 m + 60 m |         |         |       |       |       |       |       |   |
|-------------|---------|---------|-------|-------|-------|-------|-------|---|
| m           | SWSL    |         |       |       |       | SFSL  |       |   |
|             | 0 t     | 80 t    | 160 t | 240 t | 320 t | 400 t | 450 t |   |
|             | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 45°   | 15°   |   |
| 22          | 210,0*  | 282,0*  | -     | -     | -     | -     | -     | - |
| 24          | 193,5*  | 287,0   | -     | -     | -     | -     | -     | - |
| 26          | 179,0*  | 287,0   | -     | -     | -     | -     | -     | - |
| 28          | 166,5*  | 285,0   | -     | -     | -     | -     | 278,0 | - |
| 30          | 155,0*  | 284,0   | -     | -     | -     | -     | 278,0 | - |
| 34          | 136,5*  | 277,0   | -     | -     | -     | -     | 278,0 | - |
| 38          | 118,5*  | 268,0   | -     | -     | -     | -     | 278,0 | - |
| 42          | 103,0*  | 237,0   | 278,0 | -     | -     | -     | 278,0 | - |
| 46          | 90,8*   | 209,0   | 276,0 | -     | -     | -     | 271,0 | - |
| 50          | 80,3*   | 186,0   | 241,0 | -     | -     | -     | 252,0 | - |
| 54          | 71,5*   | 166,5   | 212,0 | -     | -     | -     | 229,0 | - |
| 58          | 64,0*   | 150,0   | 188,5 | -     | -     | -     | 209,0 | - |
| 62          | 57,5*   | 136,0   | 169,0 | 193,0 | -     | -     | 192,0 | - |
| 66          | -       | -       | 152,5 | 179,0 | -     | -     | 174,0 | - |
| 70          | -       | -       | 138,0 | 166,0 | -     | -     | 156,0 | - |
| 74          | -       | -       | -     | 153,0 | -     | -     | 140,0 | - |
| 78          | -       | -       | -     | 138,5 | 126,0 | -     | 125,0 | - |
| 82          | -       | -       | -     | -     | 118,0 | -     | 116,0 | - |
| 86          | -       | -       | -     | -     | 111,5 | -     | 104,0 | - |
| 90          | -       | -       | -     | -     | -     | 92,6  | 92,0  | - |
| 94          | -       | -       | -     | -     | -     | 87,1  | 80,5  | - |
| 98          | -       | -       | -     | -     | -     | -     | 69,0  | - |
| 102         | -       | -       | -     | -     | -     | -     | 57,5  | - |

| 48 m + 48 m |         |         |       |       |       |       |       |   |
|-------------|---------|---------|-------|-------|-------|-------|-------|---|
| m           | SWSL    |         |       |       |       |       |       |   |
|             | 0 t     | 80 t    | 160 t | 240 t | 320 t | 400 t | 450 t |   |
|             | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 45°   | 15°   |   |
| 18          | 269,0*  | 368,0*  | -     | -     | -     | -     | -     | - |
| 20          | 244,0*  | 366,0*  | -     | -     | -     | -     | -     | - |
| 22          | 223,0*  | 378,0   | -     | -     | -     | -     | -     | - |
| 24          | 205,0*  | 377,0   | -     | -     | -     | -     | 359,0 | - |
| 26          | 190,0*  | 374,0   | -     | -     | -     | -     | 359,0 | - |
| 28          | 175,5*  | 367,0   | -     | -     | -     | -     | 359,0 | - |
| 30          | 160,5*  | 359,0   | -     | -     | -     | -     | 359,0 | - |
| 34          | 136,5*  | 315,0   | -     | -     | -     | -     | 359,0 | - |
| 38          | 117,5*  | 269,0   | 351,0 | -     | -     | -     | 347,0 | - |
| 42          | 102,5*  | 234,0   | 313,0 | -     | -     | -     | 308,0 | - |
| 46          | 90,5*   | 206,0   | 274,0 | -     | -     | -     | 276,0 | - |
| 50          | 80,4*   | 183,0   | 238,0 | -     | -     | -     | 249,0 | - |
| 54          | -       | -       | 209,0 | 227,0 | -     | -     | 226,0 | - |
| 58          | -       | -       | 186,0 | 209,0 | -     | -     | 204,0 | - |
| 62          | -       | -       | -     | 193,0 | -     | -     | 181,0 | - |
| 66          | -       | -       | -     | 179,0 | 157,0 | -     | 161,0 | - |
| 70          | -       | -       | -     | -     | 145,5 | -     | 143,0 | - |
| 74          | -       | -       | -     | -     | 136,0 | -     | 132,0 | - |
| 78          | -       | -       | -     | -     | -     | 114,5 | 116,0 | - |
| 82          | -       | -       | -     | -     | -     | 107,0 | 102,0 | - |
| 86          | -       | -       | -     | -     | -     | -     | 88,0  | - |
| 90          | -       | -       | -     | -     | -     | -     | 74,0  | - |

| 48 m + 72 m |         |         |       |       |       |       |       |   |
|-------------|---------|---------|-------|-------|-------|-------|-------|---|
| m           | SWSL    |         |       |       |       |       |       |   |
|             | 0 t     | 80 t    | 160 t | 240 t | 320 t | 400 t | 450 t |   |
|             | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 45°   | 15°   |   |
| 24          | 181,5*  | 216,0*  | -     | -     | -     | -     | -     | - |
| 26          | 168,0*  | 214,0*  | -     | -     | -     | -     | -     | - |
| 28          | 156,0*  | 216,0   | -     | -     | -     | -     | -     | - |
| 30          | 145,5*  | 216,0   | -     | -     | -     | -     | 210,0 | - |
| 34          | 128,0*  | 213,0   | -     | -     | -     | -     | 210,0 | - |
| 38          | 111,5*  | 208,0   | -     | -     | -     | -     | 210,0 | - |
| 42          | 97,2*   | 204,0   | -     | -     | -     | -     | 210,0 | - |
| 46          | 85,2*   | 199,0   | -     | -     | -     | -     | 209,0 | - |
| 48          | 80,0*   | 192,5   | 205,0 | -     | -     | -     | 208,0 | - |
| 50          | 75,2*   | 181,5   | 205,0 | -     | -     | -     | 207,0 | - |
| 54          | 66,7*   | 162,5   | 204,0 | -     | -     | -     | 201,0 | - |
| 58          | 59,5*   | 147,0   | 184,0 | -     | -     | -     | 195,0 | - |
| 62          | 53,2*   | 133,0   | 165,0 | -     | -     | -     | 183,0 | - |
| 66          | 47,7*   | 121,5   | 149,0 | 172,0 | -     | -     | 172,0 | - |
| 70          | 42,8*   | 111,0   | 135,0 | 160,0 | -     | -     | 161,0 | - |
| 74          | 38,5*   | 101,5   | 123,0 | 149,0 | -     | -     | 145,0 | - |
| 78          | -       | -       | 112,5 | 135,5 | -     | -     | 130,0 | - |
| 82          | -       | -       | 103,0 | 123,5 | -     | -     | 117,0 | - |
| 86          | -       | -       | -     | 113,0 | 106,5 | -     | 106,0 | - |
| 90          | -       | -       | -     | 103,5 | 100,0 | -     | 99,0  | - |
| 94          | -       | -       | -     | -     | 94,9  | -     | 89,0  | - |
| 98          | -       | -       | -     | -     | 89,9  | 76,6  | 79,0  | - |
| 102         | -       | -       | -     | -     | -     | 72,1  | 69,5  | - |
| 106         | -       | -       | -     | -     | -     | 67,9  | 60,5  | - |
| 110         | -       | -       | -     | -     | -     | -     | 51,0  | - |
| 114         | -       | -       | -     | -     | -     | -     | 42,0  | - |

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

For explanations see page 88 · Bemerkungen siehe Seite 88 · Pour plus de détails, voir page 88 · Per spiegazioni vedere a pagina 88 ·  
Véase p. 88 para más información · Para explicações, ver página 88 · Объяснения см. на стр. 88



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t +  0-80 t  15-24 m  9,60 m  9.8 m/s <b>360°</b> <b>EN13000</b> |                                                                                           |                                                                                           |              |       |      |      |                                                                                       |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------|-------|------|------|---------------------------------------------------------------------------------------|--|--|
| 48 m +  84 m                                                                                                                                                                                                                                                                                                                 |                                                                                           |                                                                                           |              |       |      |      |                                                                                       |  |  |
| <br>m                                                                                                                                                                                                                                                                                                                        | SWSL                                                                                      |                                                                                           |              |       |      |      | SFSL                                                                                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | 0 t                                                                                       |                                                                                           | 80 t - 450 t |       |      |      |                                                                                       |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                               |  87°/85° |  87°/85° | 75°          | 65°   | 55°  | 45°  |  15° |  |  |
| t                                                                                                                                                                                                                                                                                                                                                                                                             | t                                                                                         | t                                                                                         | t            | t     | t    | t    | t                                                                                     |  |  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                            | 157,5*                                                                                    | 164,5*                                                                                    | -            | -     | -    | -    | -                                                                                     |  |  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                            | 147,5*                                                                                    | 164,0*                                                                                    | -            | -     | -    | -    | -                                                                                     |  |  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                            | 138,0*                                                                                    | 162,5*                                                                                    | -            | -     | -    | -    | -                                                                                     |  |  |
| 32                                                                                                                                                                                                                                                                                                                                                                                                            | 129,5*                                                                                    | 164,0                                                                                     | -            | -     | -    | -    | -                                                                                     |  |  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                            | 121,0*                                                                                    | 163,0                                                                                     | -            | -     | -    | -    | 160,0                                                                                 |  |  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                            | 107,0*                                                                                    | 161,0                                                                                     | -            | -     | -    | -    | 159,0                                                                                 |  |  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                            | 95,2*                                                                                     | 158,5                                                                                     | -            | -     | -    | -    | 159,0                                                                                 |  |  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                            | 83,2*                                                                                     | 156,0                                                                                     | -            | -     | -    | -    | 159,0                                                                                 |  |  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                            | 73,1*                                                                                     | 153,0                                                                                     | -            | -     | -    | -    | 157,0                                                                                 |  |  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                            | 64,7*                                                                                     | 150,0                                                                                     | 152,5        | -     | -    | -    | 156,0                                                                                 |  |  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                            | 57,4*                                                                                     | 146,0                                                                                     | 152,5        | -     | -    | -    | 153,0                                                                                 |  |  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                            | 51,1*                                                                                     | 132,5                                                                                     | 152,5        | -     | -    | -    | 151,0                                                                                 |  |  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                            | 45,6*                                                                                     | 120,5                                                                                     | 148,0        | -     | -    | -    | 148,0                                                                                 |  |  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                            | 40,8*                                                                                     | 110,0                                                                                     | 134,0        | -     | -    | -    | 146,0                                                                                 |  |  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                            | 36,5*                                                                                     | 101,0                                                                                     | 122,0        | 136,0 | -    | -    | 140,0                                                                                 |  |  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                            | 32,6*                                                                                     | 93,2                                                                                      | 111,5        | 134,5 | -    | -    | 132,0                                                                                 |  |  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                            | 29,1*                                                                                     | 85,9                                                                                      | 102,5        | 122,5 | -    | -    | 124,0                                                                                 |  |  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                            | 25,9*                                                                                     | 79,2                                                                                      | 94,4         | 112,0 | -    | -    | 112,0                                                                                 |  |  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                                         | -                                                                                         | 87,1         | 103,0 | -    | -    | 101,0                                                                                 |  |  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                                         | -                                                                                         | 80,3         | 94,8  | 92,6 | -    | 93,0                                                                                  |  |  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                                         | -                                                                                         | -            | 87,4  | 87,6 | -    | 86,5                                                                                  |  |  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                         | -                                                                                         | -            | 80,8  | 83,0 | -    | 77,5                                                                                  |  |  |
| 106                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                         | -                                                                                         | -            | -     | 78,7 | -    | 69,0                                                                                  |  |  |
| 110                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                         | -                                                                                         | -            | -     | 74,6 | 60,9 | 61,0                                                                                  |  |  |
| 114                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                         | -                                                                                         | -            | -     | -    | 57,4 | 53,5                                                                                  |  |  |
| 118                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                         | -                                                                                         | -            | -     | -    | 54,1 | 46,1                                                                                  |  |  |
| 122                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                         | -                                                                                         | -            | -     | -    | -    | 38,4                                                                                  |  |  |
| 126                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                         | -                                                                                         | -            | -     | -    | -    | 30,5                                                                                  |  |  |

| 48 m +  108 m |                                                                                           |                                                                                           |              |      |      |      |                                                                                         |  |  |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------|------|------|------|-----------------------------------------------------------------------------------------|--|--|
| <br>m         | SWSL                                                                                      |                                                                                           |              |      |      |      | SFSL                                                                                    |  |  |
|                                                                                                | 0 t                                                                                       |                                                                                           | 80 t - 450 t |      |      |      |                                                                                         |  |  |
|                                                                                                |  87°/85° |  87°/85° | 75°          | 65°  | 55°  | 45°  |  15° |  |  |
| t                                                                                              | t                                                                                         | t                                                                                         | t            | t    | t    | t    | t                                                                                       |  |  |
| 32                                                                                             | 89,0*                                                                                     | 94,2*                                                                                     | -            | -    | -    | -    | -                                                                                       |  |  |
| 34                                                                                             | 89,0*                                                                                     | 93,8*                                                                                     | -            | -    | -    | -    | -                                                                                       |  |  |
| 38                                                                                             | 88,3                                                                                      | 93,0                                                                                      | -            | -    | -    | -    | -                                                                                       |  |  |
| 42                                                                                             | 84,4*                                                                                     | 91,6                                                                                      | -            | -    | -    | -    | 90,5                                                                                    |  |  |
| 46                                                                                             | 75,4*                                                                                     | 90,2                                                                                      | -            | -    | -    | -    | 89,5                                                                                    |  |  |
| 50                                                                                             | 67,7*                                                                                     | 88,8                                                                                      | -            | -    | -    | -    | 89,0                                                                                    |  |  |
| 54                                                                                             | 60,5*                                                                                     | 87,3                                                                                      | -            | -    | -    | -    | 88,0                                                                                    |  |  |
| 58                                                                                             | 53,1*                                                                                     | 85,8                                                                                      | -            | -    | -    | -    | 86,5                                                                                    |  |  |
| 62                                                                                             | 46,8*                                                                                     | 84,2                                                                                      | -            | -    | -    | -    | 85,5                                                                                    |  |  |
| 66                                                                                             | 41,2*                                                                                     | 82,7                                                                                      | 82,2         | -    | -    | -    | 84,0                                                                                    |  |  |
| 70                                                                                             | 36,3*                                                                                     | 81,2                                                                                      | 81,7         | -    | -    | -    | 82,5                                                                                    |  |  |
| 74                                                                                             | 32,0*                                                                                     | 79,7                                                                                      | 81,2         | -    | -    | -    | 81,0                                                                                    |  |  |
| 78                                                                                             | 28,1*                                                                                     | 78,0                                                                                      | 80,6         | -    | -    | -    | 79,0                                                                                    |  |  |
| 82                                                                                             | 24,6*                                                                                     | 75,7                                                                                      | 80,0         | -    | -    | -    | 77,5                                                                                    |  |  |
| 86                                                                                             | 21,4*                                                                                     | 72,8                                                                                      | 79,3         | -    | -    | -    | 76,0                                                                                    |  |  |
| 90                                                                                             | 18,5*                                                                                     | 69,8                                                                                      | 78,7         | 70,6 | -    | -    | 74,5                                                                                    |  |  |
| 94                                                                                             | 15,9*                                                                                     | 65,6                                                                                      | 77,8         | 70,6 | -    | -    | 73,0                                                                                    |  |  |
| 98                                                                                             | 13,5*                                                                                     | 60,6                                                                                      | 71,8         | 70,6 | -    | -    | 71,5                                                                                    |  |  |
| 102                                                                                            | 11,3*                                                                                     | 56,1                                                                                      | 66,4         | 70,6 | -    | -    | 69,5                                                                                    |  |  |
| 106                                                                                            | 9,2*                                                                                      | 51,9                                                                                      | 61,4         | 70,6 | -    | -    | 67,5                                                                                    |  |  |
| 110                                                                                            | 5,7                                                                                       | 47,9                                                                                      | 56,9         | 66,7 | 61,6 | -    | 65,5                                                                                    |  |  |
| 114                                                                                            | -                                                                                         | -                                                                                         | 52,6         | 61,7 | 61,6 | -    | 63,0                                                                                    |  |  |
| 118                                                                                            | -                                                                                         | -                                                                                         | 48,6         | 57,1 | 61,0 | -    | 58,0                                                                                    |  |  |
| 122                                                                                            | -                                                                                         | -                                                                                         | -            | 52,9 | 57,5 | -    | 52,0                                                                                    |  |  |
| 126                                                                                            | -                                                                                         | -                                                                                         | -            | 48,9 | 54,2 | -    | 46,0                                                                                    |  |  |
| 130                                                                                            | -                                                                                         | -                                                                                         | -            | -    | 51,2 | 41,0 | 40,2                                                                                    |  |  |
| 134                                                                                            | -                                                                                         | -                                                                                         | -            | -    | 48,3 | 38,7 | 34,5                                                                                    |  |  |
| 138                                                                                            | -                                                                                         | -                                                                                         | -            | -    | -    | 36,6 | 28,9                                                                                    |  |  |
| 142                                                                                            | -                                                                                         | -                                                                                         | -            | -    | -    | -    | 23,4                                                                                    |  |  |
| 146                                                                                            | -                                                                                         | -                                                                                         | -            | -    | -    | -    | 17,7                                                                                    |  |  |

| 48 m + 96 m |        |        |       |      |      |      |   |       |   |
|-------------|--------|--------|-------|------|------|------|---|-------|---|
| m           | t      | t      | t     | t    | t    | t    | t | t     | t |
| 30          | 117,5* | 123,5* | -     | -    | -    | -    | - | -     | - |
| 34          | 114,0* | 122,5  | -     | -    | -    | -    | - | -     | - |
| 38          | 101,0* | 121,0  | -     | -    | -    | -    | - | 119,0 |   |
| 42          | 90,0*  | 119,0  | -     | -    | -    | -    | - | 118,0 |   |
| 46          | 80,6*  | 117,0  | -     | -    | -    | -    | - | 117,0 |   |
| 50          | 70,9*  | 115,0  | -     | -    | -    | -    | - | 117,0 |   |
| 54          | 62,4*  | 112,5  | -     | -    | -    | -    | - | 115,0 |   |
| 58          | 55,1*  | 110,0  | 110,5 | -    | -    | -    | - | 113,0 |   |
| 62          | 48,8*  | 108,0  | 110,0 | -    | -    | -    | - | 112,0 |   |
| 66          | 43,3*  | 105,5  | 109,5 | -    | -    | -    | - | 109,0 |   |
| 70          | 38,4*  | 103,0  | 108,5 | -    | -    | -    | - | 107,0 |   |
| 74          | 34,1*  | 100,0  | 107,5 | -    | -    | -    | - | 105,0 |   |
| 78          | 30,3*  | 91,9   | 106,0 | -    | -    | -    | - | 103,0 |   |
| 82          | 26,8*  | 84,7   | 101,0 | 96,5 | -    | -    | - | 101,0 |   |
| 86          | 23,6*  | 78,1   | 93,1  | 96,5 | -    | -    | - | 99,5  |   |
| 90          | 20,8*  | 72,2   | 85,7  | 96,5 | -    | -    | - | 97,5  |   |
| 94          | 18,1*  | 66,8   | 79,1  | 93,3 | -    | -    | - | 95,0  |   |
| 98          | 15,7*  | 61,7   | 73,2  | 86,0 | -    | -    | - | 87,5  |   |
| 102         | -      | -      | 67,7  | 79,5 | 80,6 | -    | - | 81,0  |   |
| 106         | -      | -      | 62,6  | 73,5 | 75,9 | -    | - | 75,0  |   |
| 110         | -      | -      | -     | 68,0 | 71,5 | -    | - | 67,5  |   |
| 114         | -      | -      | -     | 63,0 | 67,5 | -    | - | 60,0  |   |
| 118         | -      | -      | -     | -    | 63,8 | 51,2 | - | 53,0  |   |
| 122         | -      | -      | -     | -    | 60,3 | 48,5 | - | 46,7  |   |
| 126         | -      | -      | -     | -    | -    | 46,0 | - | 40,2  |   |
| 130         | -      | -      | -     | -    | -    | 43,6 | - | 33,8  |   |
| 134         | -      | -      | -     | -    | -    | -    | - | 27,3  |   |

0 t 80 t 160 t 240 t 320 t 400 t 450 t

\* Main boom angle 87° · Hauptauslegerwinkel 87° ·  
Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° ·  
Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1

Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet

Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche

Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1

Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1

Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1

Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

|  170-250 t +  0-80 t |                                                                                           |  15-24 m |       |  9,60 m |       |  9.8 m/s |   | 360° |       | EN13000 |        |        |       |       |       |   |      |   |       |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|---|------|-------|---------|--------|--------|-------|-------|-------|---|------|---|-------|--|--|
|  54 m +  36 m        |                                                                                           |                                                                                           |       |                                                                                          |       |                                                                                            |   |      |       |         |        |        |       |       |       |   |      |   |       |  |  |
| SWSL                                                                                                                                                                                   |                                                                                           |                                                                                           |       |                                                                                          |       |                                                                                            |   |      |       | SFSL    |        |        |       |       |       |   |      |   |       |  |  |
|  0 t                                                                                                  |                                                                                           | 80 t - 450 t                                                                              |       |                                                                                          |       |                                                                                            |   |      |       |         |        |        |       |       |       |   |      |   |       |  |  |
|  87°/85°                                                                                              |  87°/85° | 75°                                                                                       | 65°   | 55°                                                                                      | 45°   |  15°      |   |      |       |         |        |        |       |       |       |   |      |   |       |  |  |
| m                                                                                                                                                                                      | t                                                                                         | t                                                                                         | t     | t                                                                                        | t     | t                                                                                          | t | t    | t     | m       | t      | t      | t     | t     | t     | t | t    | t | t     |  |  |
| 16                                                                                                                                                                                     | 309,0*                                                                                    | 450,0*                                                                                    | -     | -                                                                                        | -     | -                                                                                          | - | -    | -     | 22      | 203,0* | 265,0* | -     | -     | -     | - | -    | - | -     |  |  |
| 18                                                                                                                                                                                     | 277,0*                                                                                    | 439,0*                                                                                    | -     | -                                                                                        | -     | -                                                                                          | - | -    | -     | 24      | 187,5* | 264,0* | -     | -     | -     | - | -    | - | -     |  |  |
| 19                                                                                                                                                                                     | 264,0*                                                                                    | 463,0                                                                                     | -     | -                                                                                        | -     | -                                                                                          | - | -    | 434,0 | 26      | 173,5* | 270,0  | -     | -     | -     | - | -    | - | -     |  |  |
| 20                                                                                                                                                                                     | 251,0*                                                                                    | 458,0                                                                                     | -     | -                                                                                        | -     | -                                                                                          | - | -    | 434,0 | 28      | 161,5* | 269,0  | -     | -     | -     | - | -    | - | 262,0 |  |  |
| 22                                                                                                                                                                                     | 230,0*                                                                                    | 448,0                                                                                     | -     | -                                                                                        | -     | -                                                                                          | - | -    | 434,0 | 30      | 150,5* | 268,0  | -     | -     | -     | - | -    | - | 262,0 |  |  |
| 24                                                                                                                                                                                     | 211,0*                                                                                    | 437,0                                                                                     | -     | -                                                                                        | -     | -                                                                                          | - | -    | 434,0 | 34      | 132,5* | 262,0  | -     | -     | -     | - | -    | - | 262,0 |  |  |
| 26                                                                                                                                                                                     | 194,0*                                                                                    | 425,0                                                                                     | -     | -                                                                                        | -     | -                                                                                          | - | -    | 434,0 | 38      | 117,5* | 254,0  | -     | -     | -     | - | -    | - | 262,0 |  |  |
| 28                                                                                                                                                                                     | 176,5*                                                                                    | 401,0                                                                                     | -     | -                                                                                        | -     | -                                                                                          | - | -    | 430,0 | 42      | 102,5* | 245,0  | -     | -     | -     | - | -    | - | 260,0 |  |  |
| 30                                                                                                                                                                                     | 161,5*                                                                                    | 363,0                                                                                     | -     | -                                                                                        | -     | -                                                                                          | - | -    | 426,0 | 44      | 95,9*  | 229,0  | 265,0 | -     | -     | - | -    | - | 257,5 |  |  |
| 34                                                                                                                                                                                     | 137,5*                                                                                    | 303,0                                                                                     | 394,0 | -                                                                                        | -     | -                                                                                          | - | -    | 389,0 | 46      | 89,9*  | 215,0  | 263,0 | -     | -     | - | -    | - | 257,0 |  |  |
| 38                                                                                                                                                                                     | 118,5*                                                                                    | 260,0                                                                                     | 350,0 | -                                                                                        | -     | -                                                                                          | - | -    | 341,0 | 50      | 79,6*  | 191,5  | 256,0 | -     | -     | - | -    | - | 248,0 |  |  |
| 40                                                                                                                                                                                     | 110,5*                                                                                    | 242,0                                                                                     | 330,0 | -                                                                                        | -     | -                                                                                          | - | -    | 322,0 | 54      | 70,8*  | 171,0  | 226,0 | -     | -     | - | -    | - | 227,0 |  |  |
| 42                                                                                                                                                                                     | 99,9                                                                                      | 226,0                                                                                     | 312,0 | -                                                                                        | -     | -                                                                                          | - | -    | 303,0 | 58      | 63,3*  | 154,5  | 200,0 | -     | -     | - | -    | - | 207,0 |  |  |
| 46                                                                                                                                                                                     | -                                                                                         | -                                                                                         | 274,0 | -                                                                                        | -     | -                                                                                          | - | -    | 271,0 | 62      | 56,8*  | 139,5  | 178,5 | 190,5 | -     | - | -    | - | 189,0 |  |  |
| 48                                                                                                                                                                                     | -                                                                                         | -                                                                                         | 254,0 | 259,0                                                                                    | -     | -                                                                                          | - | -    | 257,5 | 66      | -      | -      | 160,5 | 177,0 | -     | - | -    | - | 174,0 |  |  |
| 50                                                                                                                                                                                     | -                                                                                         | -                                                                                         | 237,0 | 247,0                                                                                    | -     | -                                                                                          | - | -    | 244,0 | 70      | -      | -      | 145,5 | 164,5 | -     | - | -    | - | 160,0 |  |  |
| 54                                                                                                                                                                                     | -                                                                                         | -                                                                                         | -     | 226,0                                                                                    | -     | -                                                                                          | - | -    | 221,0 | 74      | -      | -      | 132,0 | 154,0 | -     | - | -    | - | 147,0 |  |  |
| 58                                                                                                                                                                                     | -                                                                                         | -                                                                                         | -     | 208,0                                                                                    | -     | -                                                                                          | - | -    | 202,0 | 78      | -      | -      | -     | 144,5 | 128,5 | - | -    | - | 132,0 |  |  |
| 62                                                                                                                                                                                     | -                                                                                         | -                                                                                         | -     | -                                                                                        | 177,5 | -                                                                                          | - | -    | 178,0 | 82      | -      | -      | -     | 136,0 | 120,5 | - | -    | - | 119,0 |  |  |
| 66                                                                                                                                                                                     | -                                                                                         | -                                                                                         | -     | -                                                                                        | 164,5 | -                                                                                          | - | -    | 157,0 | 86      | -      | -      | -     | -     | 113,0 | - | -    | - | 106,0 |  |  |
| 70                                                                                                                                                                                     | -                                                                                         | -                                                                                         | -     | -                                                                                        | -     | -                                                                                          | - | -    | 138,0 | 90      | -      | -      | -     | -     | 106,0 | - | -    | - | 97,0  |  |  |
| 74                                                                                                                                                                                     | -                                                                                         | -                                                                                         | -     | -                                                                                        | -     | -                                                                                          | - | -    | 127,0 | 94      | -      | -      | -     | -     | -     | - | 88,4 | - | 88,0  |  |  |
| 78                                                                                                                                                                                     | -                                                                                         | -                                                                                         | -     | -                                                                                        | -     | -                                                                                          | - | -    | 110,0 | 98      | -      | -      | -     | -     | -     | - | 83,3 | - | 77,0  |  |  |
| 82                                                                                                                                                                                     | -                                                                                         | -                                                                                         | -     | -                                                                                        | -     | -                                                                                          | - | -    | 93,5  | 102     | -      | -      | -     | -     | -     | - | -    | - | 66,5  |  |  |
|                                                                                                                                                                                        |                                                                                           |                                                                                           |       |                                                                                          |       |                                                                                            |   |      |       | 106     | -      | -      | -     | -     | -     | - | -    | - | 61,0  |  |  |

| 54 m + 48 m |         |        |       |       |       |       |   |       |   |
|-------------|---------|--------|-------|-------|-------|-------|---|-------|---|
| m           | t       | t      | t     | t     | t     | t     | t | t     | t |
| 87°/85°     | 87°/85° | 75°    | 65°   | 55°   | 45°   | 15°   |   |       |   |
| 18          | 260,0*  | 345,0* | -     | -     | -     | -     | - | -     | - |
| 20          | 236,0*  | 343,0* | -     | -     | -     | -     | - | -     | - |
| 22          | 216,0*  | 352,0  | -     | -     | -     | -     | - | -     | - |
| 24          | 199,0*  | 351,0  | -     | -     | -     | -     | - | 336,0 | - |
| 26          | 184,0*  | 348,0  | -     | -     | -     | -     | - | 336,0 | - |
| 28          | 171,0*  | 342,0  | -     | -     | -     | -     | - | 336,0 | - |
| 30          | 159,5*  | 335,0  | -     | -     | -     | -     | - | 336,0 | - |
| 34          | 135,0*  | 321,0  | -     | -     | -     | -     | - | 333,0 | - |
| 38          | 116,5*  | 278,0  | -     | -     | -     | -     | - | 330,0 | - |
| 40          | 108,5*  | 258,0  | 328,0 | -     | -     | -     | - | 317,5 | - |
| 42          | 101,5*  | 241,0  | 310,0 | -     | -     | -     | - | 305,0 | - |
| 46          | 89,5*   | 212,0  | 279,0 | -     | -     | -     | - | 273,0 | - |
| 50          | 79,4*   | 188,0  | 254,0 | -     | -     | -     | - | 246,0 | - |
| 54          | 67,8    | 166,5  | 222,0 | -     | -     | -     | - | 223,0 | - |
| 58          | -       | -      | 197,0 | 205,0 | -     | -     | - | 203,0 | - |
| 62          | -       | -      | 175,5 | 190,0 | -     | -     | - | 186,0 | - |
| 66          | -       | -      | -     | 176,5 | -     | -     | - | 170,0 | - |
| 70          | -       | -      | -     | 165,0 | 148,5 | -     | - | 151,0 | - |
| 74          | -       | -      | -     | -     | 138,5 | -     | - | 135,0 | - |
| 78          | -       | -      | -     | -     | 130,0 | -     | - | 119,0 | - |
| 82          | -       | -      | -     | -     | -     | 108,5 | - | 110,0 | - |
| 86          | -       | -      | -     | -     | -     | 102,0 | - | 97,5  | - |
| 90          | -       | -      | -     | -     | -     | -     | - | 84,5  | - |
| 94          | -       | -      | -     | -     | -     | -     | - | 75,0  | - |

|     |      |       |       |       |       |       |
|-----|------|-------|-------|-------|-------|-------|
| 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-----|------|-------|-------|-------|-------|-------|

\* Main boom angle 87° · Hauptauslegerwinkel 87° ·  
Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ángulo de pluma principal 87° · Ângulo da lança principal 87° ·  
Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1

Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet

Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche

Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1

Ángulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1

Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1

Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |              |       |       |       |      |      |              |   |
|--------------------------------------------------------|---------|--------------|-------|-------|-------|------|------|--------------|---|
| 54 m + 72 m                                            |         |              |       |       |       |      |      |              |   |
| m                                                      | SWSL    |              |       |       |       |      | SFSL |              |   |
|                                                        | 0 t     | 80 t - 450 t |       |       |       |      | 0 t  | 80 t - 450 t |   |
|                                                        | 87°/85° | 87°/85°      | 75°   | 65°   | 55°   | 45°  | 15°  |              |   |
| t                                                      | t       | t            | t     | t     | t     | t    | t    | t            | t |
| 24                                                     | 176,0*  | 204,0*       | -     | -     | -     | -    | -    | -            | - |
| 26                                                     | 163,0*  | 203,0*       | -     | -     | -     | -    | -    | -            | - |
| 28                                                     | 151,5*  | 206,0        | -     | -     | -     | -    | -    | -            | - |
| 30                                                     | 141,5*  | 205,0        | -     | -     | -     | -    | -    | -            | - |
| 34                                                     | 124,0*  | 202,0        | -     | -     | -     | -    | -    | 200,0        | - |
| 38                                                     | 110,0*  | 199,0        | -     | -     | -     | -    | -    | 200,0        | - |
| 42                                                     | 96,3*   | 195,0        | -     | -     | -     | -    | -    | 200,0        | - |
| 46                                                     | 84,4*   | 190,5        | -     | -     | -     | -    | -    | 200,0        | - |
| 50                                                     | 74,4*   | 186,0        | 196,5 | -     | -     | -    | -    | 200,0        | - |
| 54                                                     | 66,0*   | 167,5        | 196,0 | -     | -     | -    | -    | 194,0        | - |
| 58                                                     | 58,8*   | 151,0        | 194,5 | -     | -     | -    | -    | 189,0        | - |
| 62                                                     | 52,6*   | 137,0        | 174,5 | -     | -     | -    | -    | 184,0        | - |
| 66                                                     | 47,1*   | 124,5        | 157,0 | -     | -     | -    | -    | 174,0        | - |
| 70                                                     | 42,3*   | 114,0        | 142,0 | 158,5 | -     | -    | -    | 160,0        | - |
| 74                                                     | 37,9*   | 104,5        | 129,5 | 148,5 | -     | -    | -    | 148,0        | - |
| 78                                                     | -       | -            | 118,0 | 139,0 | -     | -    | -    | 137,0        | - |
| 82                                                     | -       | -            | 108,0 | 131,0 | -     | -    | -    | 124,0        | - |
| 86                                                     | -       | -            | 99,4  | 121,5 | 107,0 | -    | -    | 112,0        | - |
| 90                                                     | -       | -            | -     | 111,0 | 100,5 | -    | -    | 100,0        | - |
| 94                                                     | -       | -            | -     | 102,0 | 94,8  | -    | -    | 90,0         | - |
| 98                                                     | -       | -            | -     | -     | 89,4  | -    | -    | 83,5         | - |
| 102                                                    | -       | -            | -     | -     | 84,3  | 73,1 | -    | 75,5         | - |
| 106                                                    | -       | -            | -     | -     | -     | 68,9 | 66,5 | 66,5         | - |
| 110                                                    | -       | -            | -     | -     | -     | 65,0 | 58,0 | 58,0         | - |
| 114                                                    | -       | -            | -     | -     | -     | -    | 51,5 | 51,5         | - |
| 118                                                    | -       | -            | -     | -     | -     | -    | 45,0 | 45,0         | - |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|--|-----|------|-------|-------|-------|-------|-------|

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45° as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |              |       |      |      |      |       |  |  |
|--------------------------------------------------------|---------|--------------|-------|------|------|------|-------|--|--|
| 54 m + 96 m                                            |         |              |       |      |      |      |       |  |  |
| m                                                      | SWSL    |              |       |      |      |      | SFSL  |  |  |
|                                                        | 0 t     | 80 t - 450 t |       |      |      |      |       |  |  |
|                                                        | 87°/85° | 87°/85°      | 75°   | 65°  | 55°  | 45°  | 15°   |  |  |
| t                                                      | t       | t            | t     | t    | t    | t    | t     |  |  |
| 30                                                     | 112,5*  | 118,5*       | -     | -    | -    | -    | -     |  |  |
| 34                                                     | 110,5*  | 117,0        | -     | -    | -    | -    | -     |  |  |
| 38                                                     | 97,9*   | 116,0        | -     | -    | -    | -    | 114,0 |  |  |
| 42                                                     | 87,2*   | 114,5        | -     | -    | -    | -    | 113,0 |  |  |
| 46                                                     | 78,2*   | 112,5        | -     | -    | -    | -    | 113,0 |  |  |
| 50                                                     | 70,2*   | 110,5        | -     | -    | -    | -    | 112,0 |  |  |
| 54                                                     | 61,7*   | 108,5        | -     | -    | -    | -    | 111,0 |  |  |
| 58                                                     | 54,5*   | 106,5        | -     | -    | -    | -    | 110,0 |  |  |
| 62                                                     | 48,2*   | 104,0        | 106,0 | -    | -    | -    | 108,0 |  |  |
| 66                                                     | 42,7*   | 102,0        | 106,0 | -    | -    | -    | 107,0 |  |  |
| 70                                                     | 37,9*   | 99,9         | 105,5 | -    | -    | -    | 105,0 |  |  |
| 74                                                     | 33,6*   | 97,0         | 104,5 | -    | -    | -    | 103,0 |  |  |
| 78                                                     | 29,7*   | 93,2         | 103,5 | -    | -    | -    | 101,0 |  |  |
| 82                                                     | 26,3*   | 87,1         | 102,5 | -    | -    | -    | 99,0  |  |  |
| 86                                                     | 23,2*   | 80,4         | 97,8  | 92,8 | -    | -    | 97,0  |  |  |
| 90                                                     | 20,3*   | 74,3         | 90,1  | 92,8 | -    | -    | 95,5  |  |  |
| 94                                                     | 17,7*   | 68,7         | 83,1  | 92,8 | -    | -    | 93,5  |  |  |
| 98                                                     | 15,3*   | 63,5         | 76,8  | 92,2 | -    | -    | 91,5  |  |  |
| 102                                                    | -       | -            | 71,1  | 85,1 | -    | -    | 83,5  |  |  |
| 106                                                    | -       | -            | 65,8  | 78,6 | 73,6 | -    | 75,5  |  |  |
| 110                                                    | -       | -            | -     | 72,8 | 69,5 | -    | 68,0  |  |  |
| 114                                                    | -       | -            | -     | 67,4 | 65,9 | -    | 62,5  |  |  |
| 118                                                    | -       | -            | -     | 62,4 | 62,6 | -    | 57,5  |  |  |
| 122                                                    | -       | -            | -     | -    | 59,5 | 48,4 | 51,0  |  |  |
| 126                                                    | -       | -            | -     | -    | 56,6 | 45,5 | 44,6  |  |  |
| 130                                                    | -       | -            | -     | -    | -    | 42,8 | 38,4  |  |  |
| 134                                                    | -       | -            | -     | -    | -    | 40,3 | 34,1  |  |  |
| 138                                                    | -       | -            | -     | -    | -    | -    | 29,5  |  |  |
| 142                                                    | -       | -            | -     | -    | -    | -    | 23,1  |  |  |

| 54 m + 108 m |         |              |      |      |      |      |      |  |  |
|--------------|---------|--------------|------|------|------|------|------|--|--|
| m            | SWSL    |              |      |      |      |      | SFSL |  |  |
|              | 0 t     | 80 t - 450 t |      |      |      |      |      |  |  |
|              | 87°/85° | 87°/85°      | 75°  | 65°  | 55°  | 45°  | 15°  |  |  |
| t            | t       | t            | t    | t    | t    | t    | t    |  |  |
| 32           | 85,7*   | 90,3*        | -    | -    | -    | -    | -    |  |  |
| 34           | 85,7*   | 89,9*        | -    | -    | -    | -    | -    |  |  |
| 38           | 84,9*   | 89,0         | -    | -    | -    | -    | -    |  |  |
| 42           | 81,7*   | 88,0         | -    | -    | -    | -    | 86,5 |  |  |
| 46           | 73,0*   | 86,8         | -    | -    | -    | -    | 86,0 |  |  |
| 50           | 65,4*   | 85,5         | -    | -    | -    | -    | 85,5 |  |  |
| 54           | 58,9*   | 84,2         | -    | -    | -    | -    | 85,0 |  |  |
| 58           | 52,5*   | 82,8         | -    | -    | -    | -    | 83,5 |  |  |
| 62           | 46,2*   | 81,3         | -    | -    | -    | -    | 82,5 |  |  |
| 66           | 40,6*   | 79,9         | 79,1 | -    | -    | -    | 81,5 |  |  |
| 70           | 35,8*   | 78,4         | 78,9 | -    | -    | -    | 80,0 |  |  |
| 74           | 31,4*   | 77,0         | 78,6 | -    | -    | -    | 78,5 |  |  |
| 78           | 27,6*   | 75,5         | 78,2 | -    | -    | -    | 77,0 |  |  |
| 82           | 24,1*   | 73,3         | 77,7 | -    | -    | -    | 75,5 |  |  |
| 86           | 21,0*   | 70,3         | 77,2 | -    | -    | -    | 74,0 |  |  |
| 90           | 18,1*   | 67,3         | 76,7 | 67,7 | -    | -    | 72,5 |  |  |
| 94           | 15,5*   | 64,3         | 76,0 | 67,7 | -    | -    | 71,0 |  |  |
| 98           | 13,1*   | 61,3         | 75,1 | 67,7 | -    | -    | 70,0 |  |  |
| 102          | 10,9*   | 57,8         | 69,8 | 67,7 | -    | -    | 68,0 |  |  |
| 106          | 8,8*    | 53,5         | 64,6 | 67,7 | -    | -    | 67,0 |  |  |
| 110          | 6,9*    | 49,4         | 59,8 | 67,7 | -    | -    | 64,5 |  |  |
| 114          | -       | -            | 55,4 | 66,1 | 59,0 | -    | 62,5 |  |  |
| 118          | -       | -            | 51,2 | 61,3 | 59,0 | -    | 58,5 |  |  |
| 122          | -       | -            | -    | 56,7 | 57,1 | -    | 53,5 |  |  |
| 126          | -       | -            | -    | 52,5 | 54,2 | -    | 49,7 |  |  |
| 130          | -       | -            | -    | 48,6 | 51,4 | -    | 43,8 |  |  |
| 134          | -       | -            | -    | -    | 48,9 | 37,2 | 38,2 |  |  |
| 138          | -       | -            | -    | -    | 46,5 | 34,8 | 32,7 |  |  |
| 142          | -       | -            | -    | -    | -    | 32,5 | 28,0 |  |  |
| 146          | -       | -            | -    | -    | -    | -    | 25,2 |  |  |
| 150          | -       | -            | -    | -    | -    | -    | 19,8 |  |  |
| 154          | -       | -            | -    | -    | -    | -    | 14,2 |  |  |

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet ·  
Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche ·  
Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 ·  
Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 ·  
Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 ·  
Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

# SWSL, SFSL

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |              |       |       |       |     |       |
|--------------------------------------------------------|---------|--------------|-------|-------|-------|-----|-------|
| 60 m + 36 m                                            |         |              |       |       |       |     |       |
| m                                                      | SWSL    |              |       |       |       |     | SFSL  |
|                                                        | 0 t     | 80 t - 450 t |       |       |       |     |       |
|                                                        | 87°/85° | 87°/85°      | 75°   | 65°   | 55°   | 45° | 15°   |
| t                                                      | t       | t            | t     | t     | t     | t   | t     |
| 16                                                     | 297,0*  | 412,0*       | -     | -     | -     | -   | -     |
| 18                                                     | 267,0*  | 402,0*       | -     | -     | -     | -   | -     |
| 19                                                     | 255,0*  | 427,0        | -     | -     | -     | -   | -     |
| 20                                                     | 243,0*  | 427,0        | -     | -     | -     | -   | 396,0 |
| 22                                                     | 222,0*  | 419,0        | -     | -     | -     | -   | 396,0 |
| 24                                                     | 204,0*  | 410,0        | -     | -     | -     | -   | 396,0 |
| 26                                                     | 189,5*  | 400,0        | -     | -     | -     | -   | 396,0 |
| 28                                                     | 175,0*  | 383,0        | -     | -     | -     | -   | 396,0 |
| 30                                                     | 160,0*  | 370,0        | -     | -     | -     | -   | 392,0 |
| 34                                                     | 136,0*  | 309,0        | -     | -     | -     | -   | 386,0 |
| 36                                                     | 126,0*  | 285,0        | 366,0 | -     | -     | -   | 362,0 |
| 38                                                     | 117,5*  | 264,0        | 346,0 | -     | -     | -   | 338,0 |
| 40                                                     | 109,5*  | 246,0        | 326,0 | -     | -     | -   | 319,0 |
| 42                                                     | 98,2    | 230,0        | 309,0 | -     | -     | -   | 300,0 |
| 46                                                     | -       | -            | 278,0 | -     | -     | -   | 268,0 |
| 50                                                     | -       | -            | 250,0 | -     | -     | -   | 241,0 |
| 53                                                     | -       | -            | -     | 226,0 | -     | -   | 223,7 |
| 54                                                     | -       | -            | -     | 221,0 | -     | -   | 218,0 |
| 58                                                     | -       | -            | -     | 204,0 | -     | -   | 198,0 |
| 62                                                     | -       | -            | -     | 189,0 | -     | -   | 181,0 |
| 66                                                     | -       | -            | -     | -     | 164,5 | -   | 164,0 |
| 70                                                     | -       | -            | -     | -     | 153,5 | -   | 145,0 |
| 74                                                     | -       | -            | -     | -     | -     | -   | 128,0 |
| 78                                                     | -       | -            | -     | -     | -     | -   | 114,0 |
| 82                                                     | -       | -            | -     | -     | -     | -   | 103,0 |
| 86                                                     | -       | -            | -     | -     | -     | -   | 88,5  |
| 90                                                     | -       | -            | -     | -     | -     | -   | 76,5  |

| 60 m + 60 m |         |              |       |       |       |      |       |
|-------------|---------|--------------|-------|-------|-------|------|-------|
| m           | SWSL    |              |       |       |       |      | SFSL  |
|             | 0 t     | 80 t - 450 t |       |       |       |      |       |
|             | 87°/85° | 87°/85°      | 75°   | 65°   | 55°   | 45°  | 15°   |
| t           | t       | t            | t     | t     | t     | t    | t     |
| 22          | 196,5*  | 248,0*       | -     | -     | -     | -    | -     |
| 24          | 181,5*  | 247,0*       | -     | -     | -     | -    | -     |
| 26          | 168,0*  | 254,0        | -     | -     | -     | -    | -     |
| 28          | 156,5*  | 254,0        | -     | -     | -     | -    | 244,0 |
| 30          | 146,0*  | 254,0        | -     | -     | -     | -    | 244,0 |
| 34          | 129,0*  | 250,0        | -     | -     | -     | -    | 244,0 |
| 38          | 114,5*  | 243,0        | -     | -     | -     | -    | 244,0 |
| 42          | 101,5*  | 236,0        | -     | -     | -     | -    | 244,0 |
| 46          | 89,0*   | 221,0        | 250,0 | -     | -     | -    | 242,0 |
| 50          | 78,7*   | 196,0        | 248,0 | -     | -     | -    | 234,0 |
| 54          | 70,0*   | 175,5        | 231,0 | -     | -     | -    | 224,0 |
| 58          | 62,5*   | 158,0        | 211,0 | -     | -     | -    | 204,0 |
| 62          | 56,1*   | 143,0        | 188,5 | -     | -     | -    | 186,0 |
| 66          | 47,3    | 128,0        | 169,0 | 173,0 | -     | -    | 171,0 |
| 70          | -       | -            | 152,5 | 161,0 | -     | -    | 157,0 |
| 74          | -       | -            | 138,5 | 150,5 | -     | -    | 145,0 |
| 78          | -       | -            | -     | 141,5 | -     | -    | 134,0 |
| 82          | -       | -            | -     | 133,0 | 120,5 | -    | 123,0 |
| 86          | -       | -            | -     | 125,0 | 113,0 | -    | 110,0 |
| 90          | -       | -            | -     | -     | 106,0 | -    | 99,0  |
| 94          | -       | -            | -     | -     | 100,0 | -    | 88,0  |
| 98          | -       | -            | -     | -     | -     | 81,9 | 80,5  |
| 102         | -       | -            | -     | -     | -     | 77,6 | 72,0  |
| 106         | -       | -            | -     | -     | -     | -    | 62,5  |
| 110         | -       | -            | -     | -     | -     | -    | 53,0  |

| 60 m + 48 m |         |              |       |       |       |      |       |
|-------------|---------|--------------|-------|-------|-------|------|-------|
| m           | SWSL    |              |       |       |       |      |       |
|             | 0 t     | 80 t - 450 t |       |       |       |      |       |
|             | 87°/85° | 87°/85°      | 75°   | 65°   | 55°   | 45°  | 15°   |
| t           | t       | t            | t     | t     | t     | t    | t     |
| 19          | 239,0*  | 320,0*       | -     | -     | -     | -    | -     |
| 20          | 228,0*  | 318,0*       | -     | -     | -     | -    | -     |
| 22          | 209,0*  | 331,0        | -     | -     | -     | -    | -     |
| 24          | 192,5*  | 329,0        | -     | -     | -     | -    | 310,0 |
| 26          | 178,5*  | 327,0        | -     | -     | -     | -    | 310,0 |
| 28          | 166,0*  | 323,0        | -     | -     | -     | -    | 310,0 |
| 30          | 155,0*  | 317,0        | -     | -     | -     | -    | 310,0 |
| 34          | 133,5*  | 304,0        | -     | -     | -     | -    | 310,0 |
| 38          | 115,0*  | 283,0        | -     | -     | -     | -    | 307,0 |
| 41          | 104,0*  | 254,5        | 315,0 | -     | -     | -    | 302,5 |
| 42          | 100,5*  | 246,0        | 306,0 | -     | -     | -    | 302,0 |
| 46          | 88,5*   | 217,0        | 276,0 | -     | -     | -    | 270,0 |
| 50          | 78,4*   | 192,5        | 250,0 | -     | -     | -    | 243,0 |
| 54          | 66,3    | 171,5        | 229,0 | -     | -     | -    | 220,0 |
| 58          | -       | -            | 207,0 | 201,0 | -     | -    | 200,0 |
| 62          | -       | -            | 185,0 | 186,0 | -     | -    | 183,0 |
| 66          | -       | -            | -     | 173,0 | -     | -    | 167,0 |
| 70          | -       | -            | -     | 161,0 | -     | -    | 154,0 |
| 74          | -       | -            | -     | 151,0 | 138,5 | -    | 140,0 |
| 78          | -       | -            | -     | -     | 130,0 | -    | 125,0 |
| 82          | -       | -            | -     | -     | 122,0 | -    | 111,0 |
| 86          | -       | -            | -     | -     | -     | 98,8 | 99,0  |
| 90          | -       | -            | -     | -     | -     | 93,4 | 91,0  |
| 94          | -       | -            | -     | -     | -     | -    | 79,5  |
| 98          | -       | -            | -     | -     | -     | -    | 68,0  |

| 60 m + 72 m |         |              |       |       |       |      |       |
|-------------|---------|--------------|-------|-------|-------|------|-------|
| m           | SWSL    |              |       |       |       |      |       |
|             | 0 t     | 80 t - 450 t |       |       |       |      |       |
|             | 87°/85° | 87°/85°      | 75°   | 65°   | 55°   | 45°  | 15°   |
| t           | t       | t            | t     | t     | t     | t    | t     |
| 24          | 170,0*  | 193,0*       | -     | -     | -     | -    | -     |
| 26          | 157,5*  | 192,0*       | -     | -     | -     | -    | -     |
| 28          | 146,5*  | 195,5        | -     | -     | -     | -    | -     |
| 30          | 137,0*  | 195,5        | -     | -     | -     | -    | -     |
| 34          | 120,5*  | 193,5        | -     | -     | -     | -    | 188,0 |
| 38          | 107,0*  | 190,5        | -     | -     | -     | -    | 188,0 |
| 42          | 95,4*   | 187,0        | -     | -     | -     | -    | 188,0 |
| 46          | 83,5*   | 183,0        | -     | -     | -     | -    | 188,0 |
| 50          | 73,6*   | 179,0        | -     | -     | -     | -    | 188,0 |
| 54          | 65,3*   | 171,5        | 186,0 | -     | -     | -    | 186,0 |
| 58          | 58,1*   | 154,5        | 185,5 | -     | -     | -    | 180,0 |
| 62          | 51,9*   | 140,0        | 184,5 | -     | -     | -    | 175,0 |
| 66          | 46,4*   | 127,5        | 165,5 | -     | -     | -    | 171,0 |
| 70          | 41,6*   | 116,5        | 149,5 | -     | -     | -    | 157,0 |
| 74          | 37,3*   | 106,5        | 135,5 | 145,0 | -     | -    | 145,0 |
| 78          | -       | -            | 123,5 | 136,0 | -     | -    | 134,0 |
| 82          | -       | -            | 113,0 | 127,5 | -     | -    | 124,0 |
| 86          | -       | -            | 103,5 | 120,5 | -     | -    | 115,0 |
| 90          | -       | -            | -     | 113,5 | 100,5 | -    | 104,0 |
| 94          | -       | -            | -     | 107,5 | 94,7  | -    | 94,0  |
| 98          | -       | -            | -     | 100,0 | 89,2  | -    | 84,0  |
| 102         | -       | -            | -     | -     | 84,2  | -    | 75,0  |
| 106         | -       | -            | -     | -     | 79,6  | 68,0 | 68,5  |
| 110         | -       | -            | -     | -     | -     | 64,1 | 62,0  |
| 114         | -       | -            | -     | -     | -     | 60,5 | 54,0  |
| 118         | -       | -            | -     | -     | -     | -    | 46,2  |
| 122         | -       | -            | -     | -     | -     | -    | 40,6  |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|--|-----|------|-------|-------|-------|-------|-------|

For explanations see page 93 · Bemerkungen siehe Seite 93 · Pour plus de détails, voir page 93 · Per spiegazioni vedere a pagina 93 ·  
Véase p. 93 para más información · Para explicações, ver página 93 · Объяснения см. на стр. 93

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |              |       |       |      |      |       |  |  |
|--------------------------------------------------------|---------|--------------|-------|-------|------|------|-------|--|--|
| 60 m + 84 m                                            |         |              |       |       |      |      |       |  |  |
| m                                                      | SWSL    |              |       |       |      |      | SFSL  |  |  |
|                                                        | 0 t     | 80 t - 450 t |       |       |      |      |       |  |  |
|                                                        | 87°/85° | 87°/85°      | 75°   | 65°   | 55°  | 45°  | 15°   |  |  |
| t                                                      | t       | t            | t     | t     | t    | t    | t     |  |  |
| 28                                                     | 138,5*  | 148,5*       | -     | -     | -    | -    | -     |  |  |
| 30                                                     | 129,5*  | 147,5*       | -     | -     | -    | -    | -     |  |  |
| 32                                                     | 121,5*  | 149,0        | -     | -     | -    | -    | -     |  |  |
| 34                                                     | 113,5*  | 149,0        | -     | -     | -    | -    | -     |  |  |
| 38                                                     | 100,5*  | 147,5        | -     | -     | -    | -    | 144,0 |  |  |
| 42                                                     | 90,1*   | 145,5        | -     | -     | -    | -    | 144,0 |  |  |
| 46                                                     | 81,0*   | 143,5        | -     | -     | -    | -    | 144,0 |  |  |
| 50                                                     | 71,6*   | 141,0        | -     | -     | -    | -    | 144,0 |  |  |
| 54                                                     | 63,2*   | 138,5        | -     | -     | -    | -    | 144,0 |  |  |
| 58                                                     | 56,0*   | 136,5        | 140,0 | -     | -    | -    | 143,0 |  |  |
| 62                                                     | 49,8*   | 134,0        | 139,5 | -     | -    | -    | 140,0 |  |  |
| 66                                                     | 44,4*   | 127,0        | 139,5 | -     | -    | -    | 138,0 |  |  |
| 70                                                     | 39,6*   | 116,0        | 139,0 | -     | -    | -    | 135,0 |  |  |
| 74                                                     | 35,3*   | 106,5        | 135,0 | -     | -    | -    | 133,0 |  |  |
| 78                                                     | 31,5*   | 97,9         | 123,0 | 124,0 | -    | -    | 131,0 |  |  |
| 82                                                     | 28,1*   | 90,2         | 112,5 | 124,0 | -    | -    | 125,0 |  |  |
| 86                                                     | 24,9*   | 83,2         | 103,5 | 118,0 | -    | -    | 116,0 |  |  |
| 90                                                     | -       | -            | 95,4  | 111,5 | -    | -    | 107,0 |  |  |
| 94                                                     | -       | -            | 88,0  | 105,5 | -    | -    | 99,5  |  |  |
| 98                                                     | -       | -            | 81,2  | 99,7  | 86,0 | -    | 90,5  |  |  |
| 102                                                    | -       | -            | -     | 92,0  | 81,0 | -    | 81,5  |  |  |
| 106                                                    | -       | -            | -     | 84,9  | 76,5 | -    | 73,0  |  |  |
| 110                                                    | -       | -            | -     | -     | 72,2 | -    | 65,0  |  |  |
| 114                                                    | -       | -            | -     | -     | 68,3 | -    | 59,5  |  |  |
| 118                                                    | -       | -            | -     | -     | 64,6 | 53,9 | 54,5  |  |  |
| 122                                                    | -       | -            | -     | -     | -    | 50,8 | 47,6  |  |  |
| 126                                                    | -       | -            | -     | -     | -    | 47,9 | 40,8  |  |  |
| 130                                                    | -       | -            | -     | -     | -    | -    | 34,2  |  |  |
| 134                                                    | -       | -            | -     | -     | -    | -    | 30,8  |  |  |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|--|-----|------|-------|-------|-------|-------|-------|

| 60 m + 96 m |         |              |       |      |      |      |       |  |  |
|-------------|---------|--------------|-------|------|------|------|-------|--|--|
| m           | SWSL    |              |       |      |      |      | SFSL  |  |  |
|             | 0 t     | 80 t - 450 t |       |      |      |      |       |  |  |
|             | 87°/85° | 87°/85°      | 75°   | 65°  | 55°  | 45°  | 15°   |  |  |
| t           | t       | t            | t     | t    | t    | t    | t     |  |  |
| 30          | 107,5*  | 112,5*       | -     | -    | -    | -    | -     |  |  |
| 34          | 106,0*  | 111,0*       | -     | -    | -    | -    | -     |  |  |
| 36          | 100,4*  | 112,0        | -     | -    | -    | -    | -     |  |  |
| 38          | 94,7*   | 111,5        | -     | -    | -    | -    | -     |  |  |
| 42          | 84,4*   | 110,0        | -     | -    | -    | -    | 108,0 |  |  |
| 46          | 75,6*   | 108,5        | -     | -    | -    | -    | 108,0 |  |  |
| 50          | 68,0*   | 106,5        | -     | -    | -    | -    | 108,0 |  |  |
| 54          | 61,0*   | 105,0        | -     | -    | -    | -    | 107,0 |  |  |
| 58          | 53,8*   | 103,0        | -     | -    | -    | -    | 106,0 |  |  |
| 62          | 47,5*   | 101,0        | 101,5 | -    | -    | -    | 105,0 |  |  |
| 66          | 42,1*   | 99,0         | 101,5 | -    | -    | -    | 103,0 |  |  |
| 70          | 37,3*   | 97,0         | 101,5 | -    | -    | -    | 101,0 |  |  |
| 74          | 33,0*   | 94,6         | 101,5 | -    | -    | -    | 100,0 |  |  |
| 78          | 29,2*   | 91,5         | 100,5 | -    | -    | -    | 98,0  |  |  |
| 82          | 25,8*   | 88,3         | 99,7  | -    | -    | -    | 96,5  |  |  |
| 86          | 22,6*   | 82,2         | 98,5  | 88,7 | -    | -    | 94,5  |  |  |
| 90          | 19,8*   | 76,0         | 94,1  | 88,7 | -    | -    | 93,0  |  |  |
| 94          | 17,2*   | 70,3         | 86,8  | 88,7 | -    | -    | 91,0  |  |  |
| 98          | 14,8*   | 65,0         | 80,2  | 88,7 | -    | -    | 89,0  |  |  |
| 102         | -       | -            | 74,2  | 88,7 | -    | -    | 86,0  |  |  |
| 106         | -       | -            | 68,7  | 83,7 | -    | -    | 78,0  |  |  |
| 110         | -       | -            | 63,5  | 77,5 | 69,0 | -    | 70,5  |  |  |
| 114         | -       | -            | -     | 71,7 | 65,1 | -    | 63,0  |  |  |
| 118         | -       | -            | -     | 66,4 | 61,4 | -    | 56,0  |  |  |
| 122         | -       | -            | -     | -    | 58,0 | -    | 51,0  |  |  |
| 126         | -       | -            | -     | -    | 54,8 | 44,5 | 47,0  |  |  |
| 130         | -       | -            | -     | -    | 51,8 | 41,8 | 41,1  |  |  |
| 134         | -       | -            | -     | -    | -    | 39,3 | 35,1  |  |  |
| 138         | -       | -            | -     | -    | -    | 37,0 | 29,3  |  |  |
| 142         | -       | -            | -     | -    | -    | -    | 25,8  |  |  |
| 146         | -       | -            | -     | -    | -    | -    | 20,8  |  |  |

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

# SWSL, SFSL

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |       |            |         |         |      |      |      |         |
|--------------------------------------------------------|-------|------------|---------|---------|------|------|------|---------|
| 60 m + 108 m                                           |       |            |         |         |      |      |      |         |
| m                                                      | SWSL  |            |         |         |      |      | SFSL |         |
|                                                        | 0 t   | 80 t-450 t | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 45° 15° |
| 32                                                     | 79,8* | 84,4*      | -       | -       | -    | -    | -    | -       |
| 34                                                     | 79,8* | 84,1*      | -       | -       | -    | -    | -    | -       |
| 38                                                     | 79,3  | 83,2       | -       | -       | -    | -    | -    | -       |
| 42                                                     | 77,6* | 82,4       | -       | -       | -    | -    | -    | -       |
| 46                                                     | 70,5* | 81,2       | -       | -       | -    | -    | -    | 80,5    |
| 50                                                     | 63,2* | 80,0       | -       | -       | -    | -    | -    | 80,0    |
| 54                                                     | 56,8* | 78,8       | -       | -       | -    | -    | -    | 79,5    |
| 58                                                     | 51,2* | 77,5       | -       | -       | -    | -    | -    | 78,5    |
| 62                                                     | 45,5* | 76,1       | -       | -       | -    | -    | -    | 77,5    |
| 66                                                     | 40,0* | 74,7       | 73,4    | -       | -    | -    | -    | 76,0    |
| 70                                                     | 35,2* | 73,4       | 73,3    | -       | -    | -    | -    | 75,0    |
| 74                                                     | 30,9* | 72,0       | 73,1    | -       | -    | -    | -    | 73,5    |
| 78                                                     | 27,0* | 70,7       | 72,9    | -       | -    | -    | -    | 72,5    |
| 82                                                     | 23,6* | 68,7       | 72,6    | -       | -    | -    | -    | 71,0    |
| 86                                                     | 20,5* | 66,0       | 72,1    | -       | -    | -    | -    | 69,5    |
| 90                                                     | 17,6* | 63,1       | 71,5    | -       | -    | -    | -    | 68,5    |
| 94                                                     | 15,0* | 60,3       | 71,0    | 62,6    | -    | -    | -    | 67,0    |
| 98                                                     | 12,6* | 57,4       | 70,2    | 62,6    | -    | -    | -    | 65,5    |
| 102                                                    | 10,4* | 54,5       | 68,9    | 62,6    | -    | -    | -    | 64,0    |
| 106                                                    | 8,4*  | 51,7       | 66,9    | 62,6    | -    | -    | -    | 63,0    |
| 110                                                    | 6,5*  | 48,8       | 62,5    | 62,6    | -    | -    | -    | 61,5    |
| 114                                                    | -     | -          | 57,9    | 62,6    | -    | -    | -    | 59,0    |
| 118                                                    | -     | -          | 53,6    | 62,6    | 54,4 | -    | -    | 56,5    |
| 122                                                    | -     | -          | 49,5    | 60,5    | 54,3 | -    | -    | 54,0    |
| 126                                                    | -     | -          | -       | 56,0    | 51,9 | -    | -    | 48,3    |
| 130                                                    | -     | -          | -       | 51,9    | 48,9 | -    | -    | 43,4    |
| 134                                                    | -     | -          | -       | -       | 46,1 | -    | -    | 39,8    |
| 138                                                    | -     | -          | -       | -       | 43,4 | 33,8 | -    | 34,9    |
| 142                                                    | -     | -          | -       | -       | 41,1 | 31,5 | -    | 29,6    |
| 146                                                    | -     | -          | -       | -       | -    | 29,4 | -    | 24,5    |
| 150                                                    | -     | -          | -       | -       | -    | 27,4 | -    | 20,1    |
| 154                                                    | -     | -          | -       | -       | -    | -    | -    | 17,0    |
| 158                                                    | -     | -          | -       | -       | -    | -    | -    | 12,1    |

| 66 m + 48 m |        |            |         |         |       |      |      |         |
|-------------|--------|------------|---------|---------|-------|------|------|---------|
| m           | SWSL   |            |         |         |       |      | SFSL |         |
|             | 0 t    | 80 t-450 t | 87°/85° | 87°/85° | 75°   | 65°  | 55°  | 45° 15° |
| 19          | 230,0* | 297,0*     | -       | -       | -     | -    | -    | -       |
| 20          | 220,0* | 297,0*     | -       | -       | -     | -    | -    | -       |
| 22          | 202,0* | 293,0*     | -       | -       | -     | -    | -    | -       |
| 24          | 186,5* | 305,0      | -       | -       | -     | -    | -    | 290,0   |
| 26          | 173,0* | 303,0      | -       | -       | -     | -    | -    | 290,0   |
| 28          | 161,0* | 299,0      | -       | -       | -     | -    | -    | 290,0   |
| 30          | 150,5* | 294,0      | -       | -       | -     | -    | -    | 290,0   |
| 34          | 132,5* | 283,0      | -       | -       | -     | -    | -    | 290,0   |
| 38          | 114,0* | 272,0      | -       | -       | -     | -    | -    | 283,0   |
| 42          | 99,5*  | 250,0      | 302,0   | -       | -     | -    | -    | 280,0   |
| 46          | 87,5*  | 220,0      | 273,0   | -       | -     | -    | -    | 268,0   |
| 50          | 77,5*  | 196,0      | 248,0   | -       | -     | -    | -    | 240,0   |
| 54          | 65,0   | 173,0      | 226,0   | -       | -     | -    | -    | 217,0   |
| 58          | -      | -          | 208,0   | -       | -     | -    | -    | 197,0   |
| 62          | -      | -          | 193,0   | 182,0   | -     | -    | -    | 180,0   |
| 66          | -      | -          | 174,0   | 169,0   | -     | -    | -    | 164,0   |
| 70          | -      | -          | -       | 157,5   | -     | -    | -    | 151,0   |
| 74          | -      | -          | -       | 147,5   | -     | -    | -    | 139,0   |
| 78          | -      | -          | -       | -       | 128,5 | -    | -    | 128,0   |
| 82          | -      | -          | -       | -       | 120,5 | -    | -    | 115,0   |
| 86          | -      | -          | -       | -       | 113,5 | -    | -    | 103,0   |
| 90          | -      | -          | -       | -       | -     | 88,9 | -    | 91,0    |
| 94          | -      | -          | -       | -       | -     | 84,1 | -    | 81,5    |
| 98          | -      | -          | -       | -       | -     | -    | -    | 74,0    |
| 102         | -      | -          | -       | -       | -     | -    | -    | 63,5    |
| 106         | -      | -          | -       | -       | -     | -    | -    | 53,0    |

| 66 m + 36 m |        |            |       |       |       |       |       |       |
|-------------|--------|------------|-------|-------|-------|-------|-------|-------|
| m           | SWSL   |            |       |       |       |       |       |       |
|             | 0 t    | 80 t-450 t | 160 t | 240 t | 320 t | 400 t | 450 t |       |
| 16          | 286,0* | 379,0*     | -     | -     | -     | -     | -     | -     |
| 18          | 258,0* | 374,0*     | -     | -     | -     | -     | -     | -     |
| 20          | 234,0* | 389,0      | -     | -     | -     | -     | -     | 368,0 |
| 22          | 215,0* | 385,0      | -     | -     | -     | -     | -     | 368,0 |
| 24          | 198,0* | 378,0      | -     | -     | -     | -     | -     | 368,0 |
| 26          | 183,5* | 369,0      | -     | -     | -     | -     | -     | 368,0 |
| 28          | 171,0* | 360,0      | -     | -     | -     | -     | -     | 363,0 |
| 30          | 159,0* | 351,0      | -     | -     | -     | -     | -     | 363,0 |
| 34          | 135,0* | 316,0      | -     | -     | -     | -     | -     | 356,0 |
| 38          | 116,5* | 269,0      | 341,0 | -     | -     | -     | -     | 335,0 |
| 40          | 108,5* | 250,0      | 323,0 | -     | -     | -     | -     | 316,0 |
| 42          | 96,6   | 233,0      | 305,0 | -     | -     | -     | -     | 297,0 |
| 46          | -      | -          | 275,0 | -     | -     | -     | -     | 265,0 |
| 50          | -      | -          | 250,0 | -     | -     | -     | -     | 238,0 |
| 54          | -      | -          | 229,0 | 217,0 | -     | -     | -     | 215,0 |
| 58          | -      | -          | -     | 200,0 | -     | -     | -     | 195,0 |
| 62          | -      | -          | -     | 185,0 | -     | -     | -     | 178,0 |
| 66          | -      | -          | -     | -     | -     | -     | -     | 162,0 |
| 70          | -      | -          | -     | -     | 151,0 | -     | -     | 149,0 |
| 74          | -      | -          | -     | -     | 141,5 | -     | -     | 134,0 |
| 78          | -      | -          | -     | -     | -     | -     | -     | 118,0 |
| 82          | -      | -          | -     | -     | -     | -     | -     | 104,0 |
| 86          | -      | -          | -     | -     | -     | -     | -     | 94,5  |
| 90          | -      | -          | -     | -     | -     | -     | -     | 82,5  |
| 94          | -      | -          | -     | -     | -     | -     | -     | 69,5  |

| 66 m + 60 m |        |            |       |       |       |       |       |       |
|-------------|--------|------------|-------|-------|-------|-------|-------|-------|
| m           | SWSL   |            |       |       |       |       |       |       |
|             | 0 t    | 80 t-450 t | 160 t | 240 t | 320 t | 400 t | 450 t |       |
| 22          | 190,0* | 233,0*     | -     | -     | -     | -     | -     | -     |
| 24          | 175,5* | 232,0*     | -     | -     | -     | -     | -     | -     |
| 26          | 163,0* | 238,0      | -     | -     | -     | -     | -     | -     |
| 28          | 151,5* | 238,0      | -     | -     | -     | -     | -     | 229,0 |
| 30          | 141,5* | 237,0      | -     | -     | -     | -     | -     | 229,0 |
| 34          | 125,0* | 234,0      | -     | -     | -     | -     | -     | 229,0 |
| 38          | 111,0* | 228,0      | -     | -     | -     | -     | -     | 229,0 |
| 42          | 100,0* | 221,0      | -     | -     | -     | -     | -     | 226,0 |
| 46          | 88,2*  | 214,0      | -     | -     | -     | -     | -     | 224,0 |
| 48          | 82,8*  | 210,0      | 235,0 | -     | -     | -     | -     | 223,0 |
| 50          | 77,9*  | 202,0      | 233,0 | -     | -     | -     | -     | 222,0 |
| 54          | 69,3*  | 186,5      | 228,0 | -     | -     | -     | -     | 213,0 |
| 58          | 61,8*  | 168,5      | 210,0 | -     | -     | -     | -     | 201,0 |
| 62          | 55,4*  | 150,0      | 194,0 | -     | -     | -     | -     | 184,0 |
| 66          | 46,3   | 127,0      | 180,0 | -     | -     | -     | -     | 168,0 |
| 70          | -      | -          | 166,5 | 157,5 | -     | -     | -     | 154,0 |
| 74          | -      | -          | 152,0 | 147,5 | -     | -     | -     | 142,0 |
| 78          | -      | -          | 133,5 | 138,0 | -     | -     | -     | 131,0 |
| 82          | -      | -          | -     | 130,0 | -     | -     | -     | 121,0 |
| 86          | -      | -          | -     | 122,5 | 112,0 | -     | -     | 112,0 |
| 90          | -      | -          | -     | -     | 105,0 | -     | -     | 102,0 |
| 94          | -      | -          | -     | -     | 99,2  | -     | -     | 91,5  |
| 98          | -      | -          | -     | -     | 93,7  | -     | -     | 81,5  |
| 102         | -      | -          | -     | -     | -     | 73,5  | -     | 71,5  |
| 106         | -      | -          | -     | -     | -     | 69,8  | -     | 66,0  |
| 110         | -      | -          | -     | -     | -     | -     | -     | 58,0  |
| 114         | -      | -          | -     | -     | -     | -     | -     | 49,3  |
| 118         | -      | -          | -     | -     | -     | -     | -     | 41,9  |

See page 95 · Siehe Seite 95 · Voir page 95 · Vedere a pagina 95 ·  
Véase página 95 · Ver página 95 · см. на стр. 95

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000                            |                                                                                   |         |         |              |      |      |     |       |   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|---------|--------------|------|------|-----|-------|---|
| 66 m + 72 m                                                                       |                                                                                   |         |         |              |      |      |     |       |   |
|  | SWSL                                                                              |         |         |              |      |      |     | SFSL  |   |
|                                                                                   |  | 0 t     |         | 80 t - 450 t |      |      |     |       |   |
|                                                                                   |                                                                                   | 87°/85° | 87°/85° | 75°          | 65°  | 55°  | 45° | 15°   |   |
| m                                                                                 | t                                                                                 | t       | t       | t            | t    | t    | t   | t     | t |
| 24                                                                                | 164,0*                                                                            | 182,5*  | -       | -            | -    | -    | -   | -     | - |
| 26                                                                                | 152,0*                                                                            | 182,0*  | -       | -            | -    | -    | -   | -     | - |
| 28                                                                                | 141,5*                                                                            | 180,5*  | -       | -            | -    | -    | -   | -     | - |
| 30                                                                                | 132,5*                                                                            | 184,5   | -       | -            | -    | -    | -   | -     | - |
| 34                                                                                | 116,5*                                                                            | 182,5   | -       | -            | -    | -    | -   | 178,0 | - |
| 38                                                                                | 103,5*                                                                            | 180,0   | -       | -            | -    | -    | -   | 178,0 | - |
| 42                                                                                | 92,8*                                                                             | 177,0   | -       | -            | -    | -    | -   | 178,0 | - |
| 46                                                                                | 82,7*                                                                             | 173,5   | -       | -            | -    | -    | -   | 178,0 | - |
| 50                                                                                | 72,9*                                                                             | 169,5   | -       | -            | -    | -    | -   | 178,0 | - |
| 54                                                                                | 64,6*                                                                             | 166,0   | 177,0   | -            | -    | -    | -   | 177,0 | - |
| 58                                                                                | 57,4*                                                                             | 161,0   | 176,5   | -            | -    | -    | -   | 171,0 | - |
| 62                                                                                | 51,3*                                                                             | 151,0   | 175,5   | -            | -    | -    | -   | 167,0 | - |
| 66                                                                                | 45,8*                                                                             | 137,5   | 174,0   | -            | -    | -    | -   | 163,0 | - |
| 70                                                                                | 41,1*                                                                             | 124,0   | 162,0   | -            | -    | -    | -   | 155,0 | - |
| 74                                                                                | 36,8*                                                                             | 109,0   | 149,5   | 141,5        | -    | -    | -   | 143,0 | - |
| 78                                                                                | 29,9                                                                              | 93,0    | 136,5   | 132,5        | -    | -    | -   | 131,0 | - |
| 82                                                                                | -                                                                                 | -       | 125,0   | 124,5        | -    | -    | -   | 121,0 | - |
| 86                                                                                | -                                                                                 | -       | 114,5   | 117,5        | -    | -    | -   | 112,0 | - |
| 90                                                                                | -                                                                                 | -       | -       | 111,0        | -    | -    | -   | 104,0 | - |
| 94                                                                                | -                                                                                 | -       | -       | 105,0        | 93,5 | -    | -   | 96,5  | - |
| 98                                                                                | -                                                                                 | -       | -       | 99,6         | 88,1 | -    | -   | 86,5  | - |
| 102                                                                               | -                                                                                 | -       | -       | -            | 83,1 | -    | -   | 77,5  | - |
| 106                                                                               | -                                                                                 | -       | -       | -            | 78,5 | -    | -   | 69,0  | - |
| 110                                                                               | -                                                                                 | -       | -       | -            | 74,2 | 61,5 | -   | 61,0  | - |
| 114                                                                               | -                                                                                 | -       | -       | -            | -    | 58,4 | -   | 56,0  | - |
| 118                                                                               | -                                                                                 | -       | -       | -            | -    | 55,6 | -   | 49,9  | - |
| 122                                                                               | -                                                                                 | -       | -       | -            | -    | -    | -   | 42,5  | - |
| 126                                                                               | -                                                                                 | -       | -       | -            | -    | -    | -   | 35,0  | - |
| 130                                                                               | -                                                                                 | -       | -       | -            | -    | -    | -   | 30,7  | - |

| 66 m + 96 m                                                                       |                                                                                   |         |         |              |      |      |     |      |       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|---------|--------------|------|------|-----|------|-------|
|  | SWSL                                                                              |         |         |              |      |      |     | SFSL |       |
|                                                                                   |  | 0 t     |         | 80 t - 450 t |      |      |     |      |       |
|                                                                                   |                                                                                   | 87°/85° | 87°/85° | 75°          | 65°  | 55°  | 45° | 15°  |       |
| m                                                                                 | t                                                                                 | t       | t       | t            | t    | t    | t   | t    | t     |
| 30                                                                                | 103,0*                                                                            | 107,0*  | -       | -            | -    | -    | -   | -    | -     |
| 34                                                                                | 101,0*                                                                            | 106,0*  | -       | -            | -    | -    | -   | -    | -     |
| 36                                                                                | 96,3*                                                                             | 106,5   | -       | -            | -    | -    | -   | -    | -     |
| 38                                                                                | 91,5*                                                                             | 106,5   | -       | -            | -    | -    | -   | -    | -     |
| 42                                                                                | 81,5*                                                                             | 105,0   | -       | -            | -    | -    | -   | -    | 104,0 |
| 46                                                                                | 73,0*                                                                             | 103,5   | -       | -            | -    | -    | -   | -    | 103,0 |
| 50                                                                                | 65,7*                                                                             | 102,0   | -       | -            | -    | -    | -   | -    | 103,0 |
| 54                                                                                | 59,4*                                                                             | 100,5   | -       | -            | -    | -    | -   | -    | 103,0 |
| 58                                                                                | 53,1*                                                                             | 98,8    | -       | -            | -    | -    | -   | -    | 102,0 |
| 62                                                                                | 46,9*                                                                             | 96,9    | 97,8    | -            | -    | -    | -   | -    | 101,0 |
| 66                                                                                | 41,5*                                                                             | 95,1    | 97,8    | -            | -    | -    | -   | -    | 100,0 |
| 70                                                                                | 36,7*                                                                             | 93,2    | 97,8    | -            | -    | -    | -   | -    | 98,0  |
| 74                                                                                | 32,5*                                                                             | 91,1    | 97,7    | -            | -    | -    | -   | -    | 96,5  |
| 78                                                                                | 28,7*                                                                             | 88,7    | 97,2    | -            | -    | -    | -   | -    | 95,0  |
| 82                                                                                | 25,3*                                                                             | 86,1    | 96,5    | -            | -    | -    | -   | -    | 93,5  |
| 86                                                                                | 22,2*                                                                             | 83,5    | 95,4    | -            | -    | -    | -   | -    | 91,5  |
| 90                                                                                | 19,4*                                                                             | 81,0    | 94,5    | 85,1         | -    | -    | -   | -    | 90,0  |
| 94                                                                                | 16,8*                                                                             | 74,5    | 93,5    | 85,1         | -    | -    | -   | -    | 88,5  |
| 98                                                                                | 14,4*                                                                             | 65,9    | 88,9    | 85,0         | -    | -    | -   | -    | 86,5  |
| 102                                                                               | -                                                                                 | -       | 82,4    | 85,0         | -    | -    | -   | -    | 84,5  |
| 106                                                                               | -                                                                                 | -       | 76,4    | 85,0         | -    | -    | -   | -    | 78,0  |
| 110                                                                               | -                                                                                 | -       | 70,4    | 81,1         | 67,8 | -    | -   | -    | 71,5  |
| 114                                                                               | -                                                                                 | -       | -       | 77,1         | 63,9 | -    | -   | -    | 64,5  |
| 118                                                                               | -                                                                                 | -       | -       | 73,4         | 60,3 | -    | -   | -    | 58,0  |
| 122                                                                               | -                                                                                 | -       | -       | 69,9         | 56,9 | -    | -   | -    | 51,5  |
| 126                                                                               | -                                                                                 | -       | -       | -            | 53,7 | -    | -   | -    | 45,5  |
| 130                                                                               | -                                                                                 | -       | -       | -            | 50,8 | 40,2 | -   | -    | 40,7  |
| 134                                                                               | -                                                                                 | -       | -       | -            | -    | 37,7 | -   | -    | 37,1  |
| 138                                                                               | -                                                                                 | -       | -       | -            | -    | 35,4 | -   | -    | 31,6  |
| 142                                                                               | -                                                                                 | -       | -       | -            | -    | 33,2 | -   | -    | 26,1  |
| 146                                                                               | -                                                                                 | -       | -       | -            | -    | -    | -   | -    | 20,6  |
| 150                                                                               | -                                                                                 | -       | -       | -            | -    | -    | -   | -    | 16,7  |

| 66 m + 84 m |  |  |  |  |  |  |  |  |  |
|-------------|--|--|--|--|--|--|--|--|--|
|-------------|--|--|--|--|--|--|--|--|--|

| 66 m + 84 m |        |        |       |       |      |      |       |   |
|-------------|--------|--------|-------|-------|------|------|-------|---|
| m           | t      | t      | t     | t     | t    | t    | t     | t |
| 28          | 134,0* | 141,0* | -     | -     | -    | -    | -     | - |
| 30          | 125,0* | 140,0* | -     | -     | -    | -    | -     | - |
| 32          | 117,5* | 141,5  | -     | -     | -    | -    | -     | - |
| 34          | 110,0* | 141,5  | -     | -     | -    | -    | -     | - |
| 38          | 97,6*  | 140,0  | -     | -     | -    | -    | 137,0 | - |
| 42          | 87,2*  | 138,5  | -     | -     | -    | -    | 137,0 | - |
| 46          | 78,4*  | 136,5  | -     | -     | -    | -    | 137,0 | - |
| 50          | 70,8*  | 134,5  | -     | -     | -    | -    | 137,0 | - |
| 54          | 62,5*  | 132,0  | -     | -     | -    | -    | 137,0 | - |
| 58          | 55,4*  | 130,0  | 133,5 | -     | -    | -    | 137,0 | - |
| 62          | 49,2*  | 127,5  | 133,5 | -     | -    | -    | 135,0 | - |
| 66          | 43,8*  | 125,5  | 133,5 | -     | -    | -    | 132,0 | - |
| 70          | 39,0*  | 123,5  | 133,0 | -     | -    | -    | 129,0 | - |
| 74          | 34,8*  | 115,0  | 132,5 | -     | -    | -    | 127,0 | - |
| 78          | 31,0*  | 105,5  | 132,0 | -     | -    | -    | 125,0 | - |
| 82          | 27,6*  | 95,8   | 124,0 | 118,5 | -    | -    | 122,0 | - |
| 86          | 24,5*  | 84,7   | 114,0 | 115,0 | -    | -    | 113,0 | - |
| 90          | -      | -      | 105,0 | 108,5 | -    | -    | 105,0 | - |
| 94          | -      | -      | 97,3  | 102,5 | -    | -    | 97,5  | - |
| 98          | -      | -      | 89,7  | 97,4  | -    | -    | 90,5  | - |
| 102         | -      | -      | -     | 92,3  | 79,8 | -    | 83,5  | - |
| 106         | -      | -      | -     | 87,7  | 75,3 | -    | 75,0  | - |
| 110         | -      | -      | -     | 83,4  | 71,1 | -    | 67,5  | - |
| 114         | -      | -      | -     | -     | 67,2 | -    | 60,0  | - |
| 118         | -      | -      | -     | -     | 63,5 | -    | 53,0  | - |
| 122         | -      | -      | -     | -     | 60,1 | 49,1 | 48,1  | - |
| 126         | -      | -      | -     | -     | -    | 46,3 | 43,5  | - |
| 130         | -      | -      | -     | -     | -    | 43,7 | 37,1  | - |
| 134         | -      | -      | -     | -     | -    | -    | 30,8  | - |
| 138         | -      | -      | -     | -     | -    | -    | 25,8  | - |

0 t 80 t 160 t 240 t 320 t 400 t 450 t

\* Main boom angle 87° · Hauptauslegerwinkel 87° ·  
Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° ·  
Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1

Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet

Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche

Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1

Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1

Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1

Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |              |      |      |      |      |      |
|--------------------------------------------------------|---------|--------------|------|------|------|------|------|
| 66 m + 108 m                                           |         |              |      |      |      |      |      |
| m                                                      | SWSL    |              |      |      |      |      | SFSL |
|                                                        | 0 t     | 80 t - 450 t |      |      |      |      |      |
|                                                        | 87°/85° | 87°/85°      | 75°  | 65°  | 55°  | 45°  | 15°  |
| 32                                                     | 76,7*   | 80,2*        | -    | -    | -    | -    | -    |
| 34                                                     | 76,7*   | 80,2*        | -    | -    | -    | -    | -    |
| 38                                                     | 76,2*   | 79,3         | -    | -    | -    | -    | -    |
| 42                                                     | 74,5*   | 78,8         | -    | -    | -    | -    | -    |
| 46                                                     | 67,9*   | 77,9         | -    | -    | -    | -    | 77,0 |
| 50                                                     | 60,8*   | 76,8         | -    | -    | -    | -    | 76,5 |
| 54                                                     | 54,7*   | 75,8         | -    | -    | -    | -    | 76,0 |
| 58                                                     | 49,3*   | 74,6         | -    | -    | -    | -    | 75,5 |
| 62                                                     | 44,4*   | 73,3         | -    | -    | -    | -    | 74,5 |
| 66                                                     | 39,5*   | 72,0         | -    | -    | -    | -    | 73,5 |
| 70                                                     | 34,6*   | 70,7         | 70,3 | -    | -    | -    | 72,5 |
| 74                                                     | 30,4*   | 69,5         | 70,3 | -    | -    | -    | 71,5 |
| 78                                                     | 26,6*   | 68,2         | 70,2 | -    | -    | -    | 70,5 |
| 82                                                     | 23,1*   | 66,5         | 70,1 | -    | -    | -    | 69,0 |
| 86                                                     | 20,0*   | 64,2         | 69,8 | -    | -    | -    | 67,5 |
| 90                                                     | 17,2*   | 61,7         | 69,3 | -    | -    | -    | 66,5 |
| 94                                                     | 14,6*   | 59,3         | 68,9 | -    | -    | -    | 65,0 |
| 98                                                     | 12,2*   | 56,8         | 68,2 | 59,9 | -    | -    | 64,0 |
| 102                                                    | 10,1*   | 54,3         | 67,4 | 59,9 | -    | -    | 62,5 |
| 106                                                    | 8,0*    | 51,9         | 66,0 | 59,9 | -    | -    | 61,5 |
| 110                                                    | 6,1*    | 49,4         | 64,4 | 59,9 | -    | -    | 60,0 |
| 114                                                    | -       | -            | 62,7 | 59,9 | -    | -    | 58,0 |
| 118                                                    | -       | -            | 60,2 | 59,9 | -    | -    | 56,0 |
| 122                                                    | -       | -            | 55,3 | 59,9 | 51,9 | -    | 53,5 |
| 126                                                    | -       | -            | -    | 59,9 | 50,7 | -    | 49,6 |
| 130                                                    | -       | -            | -    | 59,4 | 47,8 | -    | 43,9 |
| 134                                                    | -       | -            | -    | 55,2 | 45,0 | -    | 38,4 |
| 138                                                    | -       | -            | -    | -    | 42,4 | -    | 34,0 |
| 142                                                    | -       | -            | -    | -    | 39,9 | 29,9 | 30,7 |
| 146                                                    | -       | -            | -    | -    | -    | 27,9 | 26,2 |
| 150                                                    | -       | -            | -    | -    | -    | 25,9 | 21,4 |
| 154                                                    | -       | -            | -    | -    | -    | 24,1 | 16,5 |
| 158                                                    | -       | -            | -    | -    | -    | -    | 11,7 |
| 162                                                    | -       | -            | -    | -    | -    | -    | 8,7  |

\* Main boom angle 87° · Hauptauslegerwinkel 87° ·  
Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ángulo de pluma principal 87° · Ângulo da lança principal 87° ·  
Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1

Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet

Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche

Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1

Ángulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1

Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1

Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

| 72 m + 36 m |         |              |       |       |       |     |       |
|-------------|---------|--------------|-------|-------|-------|-----|-------|
| m           | SWSL    |              |       |       |       |     | SFSL  |
|             | 0 t     | 80 t - 450 t |       |       |       |     |       |
|             | 87°/85° | 87°/85°      | 75°   | 65°   | 55°   | 45° | 15°   |
| 16          | 274,0*  | 346,0*       | -     | -     | -     | -   | -     |
| 18          | 248,0*  | 343,0*       | -     | -     | -     | -   | -     |
| 20          | 226,0*  | 355,0        | -     | -     | -     | -   | 336,0 |
| 22          | 207,0*  | 353,0        | -     | -     | -     | -   | 336,0 |
| 24          | 191,5*  | 347,0        | -     | -     | -     | -   | 336,0 |
| 26          | 177,5*  | 339,0        | -     | -     | -     | -   | 336,0 |
| 28          | 165,5*  | 331,0        | -     | -     | -     | -   | 336,0 |
| 30          | 155,0*  | 323,0        | -     | -     | -     | -   | 331,0 |
| 34          | 133,5*  | 307,0        | -     | -     | -     | -   | 327,0 |
| 38          | 115,0*  | 274,0        | -     | -     | -     | -   | 324,0 |
| 40          | 107,0*  | 254,0        | 317,0 | -     | -     | -   | 308,5 |
| 42          | 94,7    | 237,0        | 301,0 | -     | -     | -   | 293,0 |
| 44          | 88,5    | 222,0        | 286,0 | -     | -     | -   | 277,0 |
| 46          | -       | -            | 271,0 | -     | -     | -   | 261,0 |
| 50          | -       | -            | 247,0 | -     | -     | -   | 234,0 |
| 54          | -       | -            | 226,0 | -     | -     | -   | 211,0 |
| 58          | -       | -            | -     | 195,5 | -     | -   | 191,0 |
| 62          | -       | -            | -     | 180,5 | -     | -   | 174,0 |
| 66          | -       | -            | -     | 168,0 | -     | -   | 159,0 |
| 70          | -       | -            | -     | -     | -     | -   | 145,0 |
| 74          | -       | -            | -     | -     | 136,5 | -   | 133,0 |
| 78          | -       | -            | -     | -     | 128,0 | -   | 121,0 |
| 82          | -       | -            | -     | -     | -     | -   | 107,0 |
| 86          | -       | -            | -     | -     | -     | -   | 94,5  |
| 90          | -       | -            | -     | -     | -     | -   | 83,0  |
| 94          | -       | -            | -     | -     | -     | -   | 75,5  |
| 98          | -       | -            | -     | -     | -     | -   | 63,5  |

| 72 m + 48 m |        |        |       |       |       |   |       |
|-------------|--------|--------|-------|-------|-------|---|-------|
| m           | t      | t      | t     | t     | t     | t | t     |
| 19          | 222,0* | 274,0* | -     | -     | -     | - | -     |
| 20          | 212,0* | 274,0* | -     | -     | -     | - | -     |
| 22          | 195,0* | 270,0* | -     | -     | -     | - | -     |
| 24          | 180,0* | 281,0  | -     | -     | -     | - | 266,0 |
| 26          | 167,0* | 279,0  | -     | -     | -     | - | 266,0 |
| 28          | 156,0* | 276,0  | -     | -     | -     | - | 266,0 |
| 30          | 146,0* | 271,0  | -     | -     | -     | - | 266,0 |
| 34          | 129,0* | 262,0  | -     | -     | -     | - | 266,0 |
| 38          | 112,5* | 251,0  | -     | -     | -     | - | 262,0 |
| 42          | 98,3*  | 241,0  | -     | -     | -     | - | 259,0 |
| 44          | 92,0*  | 230,0  | 279,0 | -     | -     | - | 255,0 |
| 46          | 86,3*  | 223,0  | 269,0 | -     | -     | - | 253,0 |
| 50          | 76,4*  | 198,5  | 244,0 | -     | -     | - | 237,0 |
| 54          | 63,4   | 178,0  | 223,0 | -     | -     | - | 214,0 |
| 58          | -      | -      | 205,0 | -     | -     | - | 194,0 |
| 62          | -      | -      | 190,0 | -     | -     | - | 177,0 |
| 66          | -      | -      | 176,5 | 165,0 | -     | - | 161,0 |
| 70          | -      | -      | -     | 153,5 | -     | - | 147,0 |
| 74          | -      | -      | -     | 144,0 | -     | - | 135,0 |
| 78          | -      | -      | -     | 135,0 | -     | - | 124,0 |
| 82          | -      | -      | -     | -     | 117,0 | - | 115,0 |
| 86          | -      | -      | -     | -     | 110,5 | - | 104,0 |
| 90          | -      | -      | -     | -     | 104,0 | - | 93,0  |
| 94          | -      | -      | -     | -     | -     | - | 82,5  |
| 98          | -      | -      | -     | -     | -     | - | 72,0  |
| 102         | -      | -      | -     | -     | -     | - | 65,5  |
| 106         | -      | -      | -     | -     | -     | - | 57,5  |
| 110         | -      | -      | -     | -     | -     | - | 47,9  |

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

# SWSL, SFSL

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |         |       |       |       |       |       |     |      |
|--------------------------------------------------------|---------|---------|-------|-------|-------|-------|-------|-----|------|
| 72 m + 60 m                                            |         |         |       |       |       |       |       |     |      |
| m                                                      | SWSL    |         |       |       |       |       | SFSL  |     |      |
|                                                        | 0 t     | 80 t    | 160 t | 240 t | 320 t | 400 t | 450 t | 0 t | 80 t |
|                                                        | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 45°   | 15°   |     |      |
| 22                                                     | 183,0*  | 217,0*  | -     | -     | -     | -     | -     | -   | -    |
| 24                                                     | 169,5*  | 216,0*  | -     | -     | -     | -     | -     | -   | -    |
| 26                                                     | 157,0*  | 221,0   | -     | -     | -     | -     | -     | -   | -    |
| 28                                                     | 146,5*  | 221,0   | -     | -     | -     | -     | 212,0 | -   | -    |
| 30                                                     | 137,0*  | 220,0   | -     | -     | -     | -     | 212,0 | -   | -    |
| 34                                                     | 121,0*  | 217,0   | -     | -     | -     | -     | 212,0 | -   | -    |
| 38                                                     | 108,0*  | 212,0   | -     | -     | -     | -     | 212,0 | -   | -    |
| 42                                                     | 97,0*   | 205,0   | -     | -     | -     | -     | 212,0 | -   | -    |
| 46                                                     | 87,2*   | 199,0   | -     | -     | -     | -     | 209,0 | -   | -    |
| 50                                                     | 77,0*   | 192,5   | 220,0 | -     | -     | -     | 207,0 | -   | -    |
| 54                                                     | 68,4*   | 181,5   | 217,0 | -     | -     | -     | 199,0 | -   | -    |
| 58                                                     | 61,0*   | 170,5   | 207,0 | -     | -     | -     | 193,0 | -   | -    |
| 62                                                     | 54,6*   | 153,5   | 191,0 | -     | -     | -     | 181,0 | -   | -    |
| 66                                                     | 45,1    | 131,0   | 177,5 | -     | -     | -     | 165,0 | -   | -    |
| 70                                                     | -       | -       | 165,0 | 153,0 | -     | -     | 151,0 | -   | -    |
| 74                                                     | -       | -       | 154,5 | 143,0 | -     | -     | 139,0 | -   | -    |
| 78                                                     | -       | -       | 143,0 | 134,5 | -     | -     | 128,0 | -   | -    |
| 82                                                     | -       | -       | -     | 126,5 | -     | -     | 118,0 | -   | -    |
| 86                                                     | -       | -       | -     | 119,0 | -     | -     | 109,0 | -   | -    |
| 90                                                     | -       | -       | -     | 112,5 | 102,0 | -     | 100,0 | -   | -    |
| 94                                                     | -       | -       | -     | -     | 96,5  | -     | 93,0  | -   | -    |
| 98                                                     | -       | -       | -     | -     | 91,0  | -     | 83,0  | -   | -    |
| 102                                                    | -       | -       | -     | -     | 86,0  | -     | 73,5  | -   | -    |
| 106                                                    | -       | -       | -     | -     | -     | 64,5  | 64,5  | -   | -    |
| 110                                                    | -       | -       | -     | -     | -     | 61,3  | 57,5  | -   | -    |
| 114                                                    | -       | -       | -     | -     | -     | -     | 52,0  | -   | -    |
| 118                                                    | -       | -       | -     | -     | -     | -     | 44,2  | -   | -    |
| 122                                                    | -       | -       | -     | -     | -     | -     | 36,0  | -   | -    |

| 72 m + 84 m |         |         |       |       |       |       |       |     |      |
|-------------|---------|---------|-------|-------|-------|-------|-------|-----|------|
| m           | SWSL    |         |       |       |       |       | SFSL  |     |      |
|             | 0 t     | 80 t    | 160 t | 240 t | 320 t | 400 t | 450 t | 0 t | 80 t |
|             | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 45°   | 15°   |     |      |
| 28          | 126,0*  | 132,0*  | -     | -     | -     | -     | -     | -   | -    |
| 30          | 120,5*  | 131,5*  | -     | -     | -     | -     | -     | -   | -    |
| 34          | 106,0*  | 133,0   | -     | -     | -     | -     | -     | -   | -    |
| 38          | 94,3*   | 131,5   | -     | -     | -     | -     | 129,0 | -   | -    |
| 42          | 84,2*   | 130,0   | -     | -     | -     | -     | 129,0 | -   | -    |
| 46          | 75,7*   | 128,5   | -     | -     | -     | -     | 129,0 | -   | -    |
| 50          | 68,3*   | 126,5   | -     | -     | -     | -     | 129,0 | -   | -    |
| 54          | 61,7*   | 124,0   | -     | -     | -     | -     | 129,0 | -   | -    |
| 58          | 54,6*   | 122,0   | -     | -     | -     | -     | 129,0 | -   | -    |
| 62          | 48,5*   | 120,0   | 125,5 | -     | -     | -     | 129,0 | -   | -    |
| 66          | 43,1*   | 117,5   | 125,5 | -     | -     | -     | 124,0 | -   | -    |
| 70          | 38,4*   | 115,5   | 125,0 | -     | -     | -     | 121,0 | -   | -    |
| 74          | 34,2*   | 113,5   | 124,5 | -     | -     | -     | 119,0 | -   | -    |
| 78          | 30,4*   | 107,5   | 124,0 | -     | -     | -     | 117,0 | -   | -    |
| 82          | 27,0*   | 97,7    | 123,5 | -     | -     | -     | 114,0 | -   | -    |
| 86          | 23,9*   | 86,6    | 118,5 | 111,5 | -     | -     | 110,0 | -   | -    |
| 90          | 18,0    | 74,7    | 109,0 | 105,5 | -     | -     | 102,0 | -   | -    |
| 94          | -       | -       | 100,5 | 99,7  | -     | -     | 94,5  | -   | -    |
| 98          | -       | -       | 93,2  | 94,4  | -     | -     | 87,5  | -   | -    |
| 102         | -       | -       | 83,0  | 89,5  | -     | -     | 81,0  | -   | -    |
| 106         | -       | -       | -     | 85,0  | 72,6  | -     | 75,0  | -   | -    |
| 110         | -       | -       | -     | 80,8  | 68,5  | -     | 68,0  | -   | -    |
| 114         | -       | -       | -     | 76,9  | 64,7  | -     | 60,5  | -   | -    |
| 118         | -       | -       | -     | -     | 61,1  | -     | 53,5  | -   | -    |
| 122         | -       | -       | -     | -     | 57,8  | -     | 47,3  | -   | -    |
| 126         | -       | -       | -     | -     | -     | 42,1  | 41,2  | -   | -    |
| 130         | -       | -       | -     | -     | -     | 40,0  | 37,3  | -   | -    |
| 134         | -       | -       | -     | -     | -     | 38,0  | 32,3  | -   | -    |
| 138         | -       | -       | -     | -     | -     | -     | 26,4  | -   | -    |
| 142         | -       | -       | -     | -     | -     | -     | 20,5  | -   | -    |
| 146         | -       | -       | -     | -     | -     | -     | 15,7  | -   | -    |

| 72 m + 72 m |         |         |       |       |       |       |       |     |      |
|-------------|---------|---------|-------|-------|-------|-------|-------|-----|------|
| m           | SWSL    |         |       |       |       |       | SFSL  |     |      |
|             | 0 t     | 80 t    | 160 t | 240 t | 320 t | 400 t | 450 t | 0 t | 80 t |
|             | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 45°   | 15°   |     |      |
| 26          | 147,0*  | 170,5*  | -     | -     | -     | -     | -     | -   | -    |
| 28          | 137,0*  | 169,5*  | -     | -     | -     | -     | -     | -   | -    |
| 30          | 128,0*  | 172,5   | -     | -     | -     | -     | -     | -   | -    |
| 34          | 112,5*  | 171,5   | -     | -     | -     | -     | 167,0 | -   | -    |
| 38          | 100,0*  | 169,5   | -     | -     | -     | -     | 167,0 | -   | -    |
| 42          | 89,8*   | 166,5   | -     | -     | -     | -     | 167,0 | -   | -    |
| 46          | 80,9*   | 163,0   | -     | -     | -     | -     | 167,0 | -   | -    |
| 50          | 72,0*   | 159,5   | -     | -     | -     | -     | 167,0 | -   | -    |
| 54          | 63,7*   | 156,0   | 167,0 | -     | -     | -     | 166,0 | -   | -    |
| 58          | 56,7*   | 152,5   | 166,0 | -     | -     | -     | 162,0 | -   | -    |
| 62          | 50,5*   | 147,5   | 165,5 | -     | -     | -     | 157,0 | -   | -    |
| 66          | 45,1*   | 139,5   | 164,5 | -     | -     | -     | 153,0 | -   | -    |
| 70          | 40,4*   | 126,5   | 159,5 | -     | -     | -     | 149,0 | -   | -    |
| 74          | 36,1*   | 111,5   | 149,0 | -     | -     | -     | 140,0 | -   | -    |
| 78          | 28,9    | 95,9    | 140,0 | 129,0 | -     | -     | 129,0 | -   | -    |
| 82          | -       | -       | 130,0 | 121,0 | -     | -     | 118,0 | -   | -    |
| 86          | -       | -       | 119,0 | 114,0 | -     | -     | 109,0 | -   | -    |
| 90          | -       | -       | 105,5 | 107,5 | -     | -     | 101,0 | -   | -    |
| 94          | -       | -       | -     | 102,0 | -     | -     | 93,5  | -   | -    |
| 98          | -       | -       | -     | 96,7  | 85,4  | -     | 86,5  | -   | -    |
| 102         | -       | -       | -     | 91,7  | 80,5  | -     | 78,5  | -   | -    |
| 106         | -       | -       | -     | -     | 76,0  | -     | 70,0  | -   | -    |
| 110         | -       | -       | -     | -     | 71,8  | -     | 62,5  | -   | -    |
| 114         | -       | -       | -     | -     | 67,9  | 53,4  | 54,5  | -   | -    |
| 118         | -       | -       | -     | -     | -     | 50,7  | 48,5  | -   | -    |
| 122         | -       | -       | -     | -     | -     | 48,2  | 44,2  | -   | -    |
| 126         | -       | -       | -     | -     | -     | -     | 37,5  | -   | -    |
| 130         | -       | -       | -     | -     | -     | -     | 30,6  | -   | -    |
| 134         | -       | -       | -     | -     | -     | -     | 24,6  | -   | -    |

0 t 80 t 160 t 240 t 320 t 400 t 450 t

\* Main boom angle 87° · Hauptauslegerwinkel 87° ·  
Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ángulo de pluma principal 87° · Ângulo da lança principal 87° ·  
Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1

Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet

Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche

Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1

Ángulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1

Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1

Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |              |      |      |      |      |      |  |  |
|--------------------------------------------------------|---------|--------------|------|------|------|------|------|--|--|
| 72 m + 96 m                                            |         |              |      |      |      |      |      |  |  |
| m                                                      | SWSL    |              |      |      |      |      | SFSL |  |  |
|                                                        | 0 t     | 80 t - 450 t |      |      |      |      |      |  |  |
|                                                        | 87°/85° | 87°/85°      | 75°  | 65°  | 55°  | 45°  | 15°  |  |  |
| 30                                                     | 97,9*   | 101,5*       | -    | -    | -    | -    | -    |  |  |
| 34                                                     | 96,1*   | 100,5*       | -    | -    | -    | -    | -    |  |  |
| 36                                                     | 92,2*   | 101,0        | -    | -    | -    | -    | -    |  |  |
| 38                                                     | 88,2*   | 101,0        | -    | -    | -    | -    | -    |  |  |
| 42                                                     | 78,6*   | 100,0        | -    | -    | -    | -    | 98,5 |  |  |
| 46                                                     | 70,4*   | 98,9         | -    | -    | -    | -    | 98,5 |  |  |
| 50                                                     | 63,3*   | 97,6         | -    | -    | -    | -    | 98,5 |  |  |
| 54                                                     | 57,1*   | 96,0         | -    | -    | -    | -    | 98,5 |  |  |
| 58                                                     | 51,7*   | 94,2         | -    | -    | -    | -    | 97,5 |  |  |
| 62                                                     | 46,2*   | 92,4         | -    | -    | -    | -    | 97,0 |  |  |
| 66                                                     | 40,8*   | 90,7         | 93,2 | -    | -    | -    | 96,0 |  |  |
| 70                                                     | 36,1*   | 88,9         | 93,2 | -    | -    | -    | 94,5 |  |  |
| 74                                                     | 31,9*   | 87,0         | 93,2 | -    | -    | -    | 92,5 |  |  |
| 78                                                     | 28,1*   | 85,1         | 93,1 | -    | -    | -    | 91,0 |  |  |
| 82                                                     | 24,7*   | 83,1         | 92,5 | -    | -    | -    | 89,5 |  |  |
| 86                                                     | 21,6*   | 81,2         | 91,9 | -    | -    | -    | 88,0 |  |  |
| 90                                                     | 18,8*   | 79,2         | 90,9 | 80,9 | -    | -    | 87,0 |  |  |
| 94                                                     | 16,3*   | 75,9         | 90,2 | 80,9 | -    | -    | 85,0 |  |  |
| 98                                                     | 13,9*   | 67,4         | 89,4 | 80,7 | -    | -    | 83,5 |  |  |
| 102                                                    | 8,9     | 58,1         | 85,3 | 80,7 | -    | -    | 81,5 |  |  |
| 106                                                    | -       | -            | 79,1 | 80,7 | -    | -    | 75,5 |  |  |
| 110                                                    | -       | -            | 73,4 | 78,3 | -    | -    | 69,5 |  |  |
| 114                                                    | -       | -            | 65,2 | 74,5 | 61,3 | -    | 64,5 |  |  |
| 118                                                    | -       | -            | -    | 70,8 | 57,8 | -    | 58,0 |  |  |
| 122                                                    | -       | -            | -    | 67,5 | 54,5 | -    | 51,5 |  |  |
| 126                                                    | -       | -            | -    | 64,4 | 51,4 | -    | 45,9 |  |  |
| 130                                                    | -       | -            | -    | -    | 48,5 | -    | 40,1 |  |  |
| 134                                                    | -       | -            | -    | -    | 45,8 | 34,3 | 34,5 |  |  |
| 138                                                    | -       | -            | -    | -    | -    | 32,4 | 30,9 |  |  |
| 142                                                    | -       | -            | -    | -    | -    | 30,5 | 27,0 |  |  |
| 146                                                    | -       | -            | -    | -    | -    | 28,6 | 21,8 |  |  |
| 150                                                    | -       | -            | -    | -    | -    | -    | 16,7 |  |  |
| 154                                                    | -       | -            | -    | -    | -    | -    | 11,4 |  |  |
| 158                                                    | -       | -            | -    | -    | -    | -    | 7,6  |  |  |

| 72 m + 108 m |         |              |      |      |      |      |      |  |  |
|--------------|---------|--------------|------|------|------|------|------|--|--|
| m            | SWSL    |              |      |      |      |      | SFSL |  |  |
|              | 0 t     | 80 t - 450 t |      |      |      |      |      |  |  |
|              | 87°/85° | 87°/85°      | 75°  | 65°  | 55°  | 45°  | 15°  |  |  |
| 34           | 72,9*   | 76,3*        | -    | -    | -    | -    | -    |  |  |
| 38           | 72,6*   | 75,2*        | -    | -    | -    | -    | -    |  |  |
| 40           | 71,7*   | 75,4         | -    | -    | -    | -    | -    |  |  |
| 42           | 70,8*   | 75,2         | -    | -    | -    | -    | -    |  |  |
| 46           | 65,3*   | 74,3         | -    | -    | -    | -    | 73,5 |  |  |
| 50           | 58,4*   | 73,4         | -    | -    | -    | -    | 73,0 |  |  |
| 54           | 52,4*   | 72,4         | -    | -    | -    | -    | 72,5 |  |  |
| 58           | 47,2*   | 71,3         | -    | -    | -    | -    | 72,5 |  |  |
| 62           | 42,5*   | 70,2         | -    | -    | -    | -    | 71,5 |  |  |
| 66           | 38,3*   | 68,9         | -    | -    | -    | -    | 70,5 |  |  |
| 70           | 34,0*   | 67,7         | 67,0 | -    | -    | -    | 70,0 |  |  |
| 74           | 29,8*   | 66,5         | 67,0 | -    | -    | -    | 69,0 |  |  |
| 78           | 26,0*   | 65,2         | 67,0 | -    | -    | -    | 67,5 |  |  |
| 82           | 22,6*   | 63,8         | 67,0 | -    | -    | -    | 66,5 |  |  |
| 86           | 19,5*   | 61,9         | 66,9 | -    | -    | -    | 65,0 |  |  |
| 90           | 16,7*   | 59,8         | 66,6 | -    | -    | -    | 64,0 |  |  |
| 94           | 14,1*   | 57,7         | 66,3 | -    | -    | -    | 63,0 |  |  |
| 98           | 11,8*   | 55,7         | 66,0 | 56,9 | -    | -    | 62,0 |  |  |
| 102          | 9,6*    | 53,6         | 65,3 | 56,9 | -    | -    | 60,5 |  |  |
| 106          | 7,6*    | 51,5         | 64,5 | 56,9 | -    | -    | 59,5 |  |  |
| 110          | 5,7*    | 49,4         | 63,3 | 56,8 | -    | -    | 58,0 |  |  |
| 114          | -       | -            | 62,0 | 56,8 | -    | -    | 57,0 |  |  |
| 118          | -       | -            | 60,9 | 56,8 | -    | -    | 55,0 |  |  |
| 122          | -       | -            | 57,9 | 56,7 | 49,0 | -    | 52,5 |  |  |
| 126          | -       | -            | 51,1 | 56,7 | 48,3 | -    | 49,5 |  |  |
| 130          | -       | -            | -    | 56,7 | 45,4 | -    | 43,9 |  |  |
| 134          | -       | -            | -    | 55,6 | 42,7 | -    | 38,5 |  |  |
| 138          | -       | -            | -    | 53,1 | 40,2 | -    | 33,4 |  |  |
| 142          | -       | -            | -    | -    | 37,8 | -    | 28,5 |  |  |
| 146          | -       | -            | -    | -    | 35,5 | 25,2 | 26,0 |  |  |
| 150          | -       | -            | -    | -    | -    | 23,3 | 21,8 |  |  |
| 154          | -       | -            | -    | -    | -    | 21,6 | 17,2 |  |  |
| 158          | -       | -            | -    | -    | -    | 19,9 | 12,7 |  |  |
| 162          | -       | -            | -    | -    | -    | -    | 8,1  |  |  |

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinação braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung  
IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les  
positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono  
calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma  
intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para  
posições da lança intermédia são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t +  0-80 t  15-24 m  9,60 m  9.8 m/s <span>360°</span> EN13000 |                                                                                   |         |         |              |       |     |     |                                                                                   |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|---------|--------------|-------|-----|-----|-----------------------------------------------------------------------------------|-----|
| 78 m +  36 m                                                                                                                                                                                                                                                                                                                |                                                                                   |         |         |              |       |     |     |                                                                                   |     |
|                                                                                                                                                                                                                                                                                                                             |  | SWSL    |         |              |       |     |     | SFSL                                                                              |     |
|                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                   | 0 t     |         | 80 t - 450 t |       |     |     |  | 15° |
|                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                   | 87°/85° | 87°/85° | 75°          | 65°   | 55° | 45° |                                                                                   |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                            | t                                                                                 | t       | t       | t            | t     | t   | t   | t                                                                                 | t   |
| 17                                                                                                                                                                                                                                                                                                                                                                                                           | 251,0*                                                                            | 313,0*  | -       | -            | -     | -   | -   | -                                                                                 | -   |
| 18                                                                                                                                                                                                                                                                                                                                                                                                           | 239,0*                                                                            | 313,0*  | -       | -            | -     | -   | -   | -                                                                                 | -   |
| 20                                                                                                                                                                                                                                                                                                                                                                                                           | 218,0*                                                                            | 308,0*  | -       | -            | -     | -   | -   | -                                                                                 | -   |
| 22                                                                                                                                                                                                                                                                                                                                                                                                           | 200,0*                                                                            | 321,0   | -       | -            | -     | -   | -   | 307,0                                                                             | -   |
| 24                                                                                                                                                                                                                                                                                                                                                                                                           | 185,0*                                                                            | 317,0   | -       | -            | -     | -   | -   | 307,0                                                                             | -   |
| 26                                                                                                                                                                                                                                                                                                                                                                                                           | 172,0*                                                                            | 312,0   | -       | -            | -     | -   | -   | 307,0                                                                             | -   |
| 28                                                                                                                                                                                                                                                                                                                                                                                                           | 160,5*                                                                            | 305,0   | -       | -            | -     | -   | -   | 307,0                                                                             | -   |
| 30                                                                                                                                                                                                                                                                                                                                                                                                           | 150,0*                                                                            | 298,0   | -       | -            | -     | -   | -   | 307,0                                                                             | -   |
| 34                                                                                                                                                                                                                                                                                                                                                                                                           | 132,0*                                                                            | 284,0   | -       | -            | -     | -   | -   | 303,0                                                                             | -   |
| 38                                                                                                                                                                                                                                                                                                                                                                                                           | 113,5*                                                                            | 271,0   | -       | -            | -     | -   | -   | 299,0                                                                             | -   |
| 40                                                                                                                                                                                                                                                                                                                                                                                                           | 106,0*                                                                            | 259,0   | 312,0   | -            | -     | -   | -   | 293,0                                                                             | -   |
| 42                                                                                                                                                                                                                                                                                                                                                                                                           | 92,8                                                                              | 241,0   | 296,0   | -            | -     | -   | -   | 290,0                                                                             | -   |
| 44                                                                                                                                                                                                                                                                                                                                                                                                           | 86,7                                                                              | 225,0   | 282,0   | -            | -     | -   | -   | 274,0                                                                             | -   |
| 46                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | 268,0   | -            | -     | -   | -   | 258,0                                                                             | -   |
| 50                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | 243,0   | -            | -     | -   | -   | 231,0                                                                             | -   |
| 54                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | 222,0   | -            | -     | -   | -   | 208,0                                                                             | -   |
| 58                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | 205,0   | 190,5        | -     | -   | -   | 188,0                                                                             | -   |
| 62                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | -       | 176,5        | -     | -   | -   | 171,0                                                                             | -   |
| 66                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | -       | 164,0        | -     | -   | -   | 156,0                                                                             | -   |
| 70                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | -       | 153,0        | -     | -   | -   | 142,0                                                                             | -   |
| 74                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | -       | -            | -     | -   | -   | 130,0                                                                             | -   |
| 78                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | -       | -            | 123,5 | -   | -   | 119,0                                                                             | -   |
| 82                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | -       | -            | 116,0 | -   | -   | 109,0                                                                             | -   |
| 86                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | -       | -            | -     | -   | -   | 97,0                                                                              | -   |
| 90                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | -       | -            | -     | -   | -   | 85,0                                                                              | -   |
| 94                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | -       | -            | -     | -   | -   | 74,0                                                                              | -   |
| 98                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                 | -       | -       | -            | -     | -   | -   | 66,5                                                                              | -   |
| 102                                                                                                                                                                                                                                                                                                                                                                                                          | -                                                                                 | -       | -       | -            | -     | -   | -   | 57,5                                                                              | -   |

| 78 m +  60 m |                                                                                   |         |         |              |      |      |     |                                                                                     |       |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|---------|--------------|------|------|-----|-------------------------------------------------------------------------------------|-------|
|               |  | SWSL    |         |              |      |      |     | SFSL                                                                                |       |
|                                                                                                |                                                                                   | 0 t     |         | 80 t - 450 t |      |      |     |  | 15°   |
|                                                                                                |                                                                                   | 87°/85° | 87°/85° | 75°          | 65°  | 55°  | 45° |                                                                                     |       |
| m                                                                                              | t                                                                                 | t       | t       | t            | t    | t    | t   | t                                                                                   | t     |
| 22                                                                                             | 176,5*                                                                            | 201,0*  | -       | -            | -    | -    | -   | -                                                                                   | -     |
| 24                                                                                             | 163,5*                                                                            | 200,0*  | -       | -            | -    | -    | -   | -                                                                                   | -     |
| 26                                                                                             | 152,0*                                                                            | 198,5*  | -       | -            | -    | -    | -   | -                                                                                   | -     |
| 28                                                                                             | 141,5*                                                                            | 205,0   | -       | -            | -    | -    | -   | -                                                                                   | -     |
| 30                                                                                             | 132,5*                                                                            | 204,0   | -       | -            | -    | -    | -   | -                                                                                   | 196,0 |
| 34                                                                                             | 117,0*                                                                            | 200,0   | -       | -            | -    | -    | -   | -                                                                                   | 196,0 |
| 38                                                                                             | 104,5*                                                                            | 196,0   | -       | -            | -    | -    | -   | -                                                                                   | 196,0 |
| 42                                                                                             | 94,0*                                                                             | 190,5   | -       | -            | -    | -    | -   | -                                                                                   | 196,0 |
| 46                                                                                             | 85,0*                                                                             | 184,5   | -       | -            | -    | -    | -   | -                                                                                   | 195,0 |
| 50                                                                                             | 76,1*                                                                             | 179,0   | 203,0   | -            | -    | -    | -   | -                                                                                   | 194,0 |
| 54                                                                                             | 67,5*                                                                             | 173,5   | 201,0   | -            | -    | -    | -   | -                                                                                   | 188,0 |
| 58                                                                                             | 60,2*                                                                             | 165,5   | 200,0   | -            | -    | -    | -   | -                                                                                   | 181,0 |
| 62                                                                                             | 53,9*                                                                             | 156,5   | 188,5   | -            | -    | -    | -   | -                                                                                   | 175,0 |
| 66                                                                                             | 43,9                                                                              | 134,5   | 174,5   | -            | -    | -    | -   | -                                                                                   | 162,0 |
| 70                                                                                             | -                                                                                 | -       | 163,0   | -            | -    | -    | -   | -                                                                                   | 149,0 |
| 74                                                                                             | -                                                                                 | -       | 152,0   | 138,5        | -    | -    | -   | -                                                                                   | 136,0 |
| 78                                                                                             | -                                                                                 | -       | 142,5   | 130,0        | -    | -    | -   | -                                                                                   | 125,0 |
| 82                                                                                             | -                                                                                 | -       | -       | 122,5        | -    | -    | -   | -                                                                                   | 115,0 |
| 86                                                                                             | -                                                                                 | -       | -       | 116,0        | -    | -    | -   | -                                                                                   | 106,0 |
| 90                                                                                             | -                                                                                 | -       | -       | 109,5        | -    | -    | -   | -                                                                                   | 98,0  |
| 94                                                                                             | -                                                                                 | -       | -       | 103,5        | 92,5 | -    | -   | -                                                                                   | 90,0  |
| 98                                                                                             | -                                                                                 | -       | -       | -            | 87,8 | -    | -   | -                                                                                   | 83,0  |
| 102                                                                                            | -                                                                                 | -       | -       | -            | 82,9 | -    | -   | -                                                                                   | 74,5  |
| 106                                                                                            | -                                                                                 | -       | -       | -            | 78,4 | -    | -   | -                                                                                   | 66,0  |
| 110                                                                                            | -                                                                                 | -       | -       | -            | -    | 57,5 | -   | -                                                                                   | 58,0  |
| 114                                                                                            | -                                                                                 | -       | -       | -            | -    | 54,3 | -   | -                                                                                   | 50,0  |
| 118                                                                                            | -                                                                                 | -       | -       | -            | -    | -    | -   | -                                                                                   | 45,4  |
| 122                                                                                            | -                                                                                 | -       | -       | -            | -    | -    | -   | -                                                                                   | 39,0  |
| 126                                                                                            | -                                                                                 | -       | -       | -            | -    | -    | -   | -                                                                                   | 31,5  |

| 78 m + 48 m |        |        |       |       |       |   |       |   |
|-------------|--------|--------|-------|-------|-------|---|-------|---|
| m           | t      | t      | t     | t     | t     | t | t     | t |
| 19          | 214,0* | 252,0* | -     | -     | -     | - | -     | - |
| 20          | 204,0* | 252,0* | -     | -     | -     | - | -     | - |
| 22          | 188,0* | 249,0* | -     | -     | -     | - | -     | - |
| 24          | 174,0* | 257,0  | -     | -     | -     | - | -     | - |
| 26          | 161,5* | 256,0  | -     | -     | -     | - | 245,0 | - |
| 28          | 151,0* | 253,0  | -     | -     | -     | - | 245,0 | - |
| 30          | 141,0* | 250,0  | -     | -     | -     | - | 245,0 | - |
| 34          | 125,0* | 242,0  | -     | -     | -     | - | 245,0 | - |
| 38          | 111,5* | 233,0  | -     | -     | -     | - | 245,0 | - |
| 42          | 97,1*  | 224,0  | -     | -     | -     | - | 242,0 | - |
| 46          | 85,2*  | 215,0  | 255,0 | -     | -     | - | 238,0 | - |
| 50          | 75,4*  | 201,0  | 241,0 | -     | -     | - | 228,0 | - |
| 54          | 61,8   | 180,0  | 220,0 | -     | -     | - | 211,0 | - |
| 58          | -      | -      | 202,0 | -     | -     | - | 191,0 | - |
| 62          | -      | -      | 187,5 | -     | -     | - | 174,0 | - |
| 66          | -      | -      | 174,0 | 160,5 | -     | - | 158,0 | - |
| 70          | -      | -      | -     | 149,5 | -     | - | 145,0 | - |
| 74          | -      | -      | -     | 140,0 | -     | - | 132,0 | - |
| 78          | -      | -      | -     | 131,5 | -     | - | 121,0 | - |
| 82          | -      | -      | -     | 123,5 | -     | - | 111,0 | - |
| 86          | -      | -      | -     | -     | 105,5 | - | 102,0 | - |
| 90          | -      | -      | -     | -     | 100,0 | - | 94,5  | - |
| 94          | -      | -      | -     | -     | 94,9  | - | 84,0  | - |
| 98          | -      | -      | -     | -     | -     | - | 74,0  | - |
| 102         | -      | -      | -     | -     | -     | - | 64,5  | - |
| 106         | -      | -      | -     | -     | -     | - | 57,0  | - |
| 110         | -      | -      | -     | -     | -     | - | 51,0  | - |
| 114         | -      | -      | -     | -     | -     | - | 42,7  | - |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|--|-----|------|-------|-------|-------|-------|-------|

See page 98 · Siehe Seite 98 · Voir page 98 · Vedere a pagina 98 ·  
Véase página 98 · Ver página 98 · см. на стр. 98

| 78 m + 72 m |        |        |       |       |      |      |       |   |
|-------------|--------|--------|-------|-------|------|------|-------|---|
| m           | t      | t      | t     | t     | t    | t    | t     | t |
| 26          | 142,0* | 159,5* | -     | -     | -    | -    | -     | - |
| 28          | 132,0* | 158,5* | -     | -     | -    | -    | -     | - |
| 30          | 123,5* | 161,5  | -     | -     | -    | -    | -     | - |
| 34          | 109,0* | 161,0  | -     | -     | -    | -    | 156,0 | - |
| 38          | 96,9*  | 159,0  | -     | -     | -    | -    | 156,0 | - |
| 42          | 86,8*  | 156,5  | -     | -     | -    | -    | 156,0 | - |
| 46          | 78,2*  | 153,5  | -     | -     | -    | -    | 156,0 | - |
| 50          | 70,8*  | 150,0  | -     | -     | -    | -    | 156,0 | - |
| 54          | 62,9*  | 146,5  | -     | -     | -    | -    | 156,0 | - |
| 58          | 55,9*  | 143,5  | 156,5 | -     | -    | -    | 154,0 | - |
| 62          | 49,8*  | 139,5  | 156,0 | -     | -    | -    | 148,0 | - |
| 66          | 44,4*  | 136,0  | 154,5 | -     | -    | -    | 144,0 | - |
| 70          | 39,7*  | 128,5  | 153,5 | -     | -    | -    | 140,0 | - |
| 74          | 35,5*  | 114,0  | 147,0 | -     | -    | -    | 137,0 | - |
| 78          | 27,9   | 98,6   | 137,5 | -     | -    | -    | 126,0 | - |
| 82          | -      | -      | 129,5 | 118,0 | -    | -    | 116,0 | - |
| 86          | -      | -      | 122,0 | 111,0 | -    | -    | 107,0 | - |
| 90          | -      | -      | 112,0 | 104,5 | -    | -    | 98,5  | - |
| 94          | -      | -      | -     | 99,1  | -    | -    | 91,0  | - |
| 98          | -      | -      | -     | 93,9  | -    | -    | 83,5  | - |
| 102         | -      | -      | -     | 89,0  | 77,3 | -    | 77,0  | - |
| 106         | -      | -      | -     | -     | 72,9 | -    | 70,5  | - |
| 110         | -      | -      | -     | -     | 68,9 | -    | 63,0  | - |
| 114         | -      | -      | -     | -     | 65,1 | -    | 55,5  | - |
| 118         | -      | -      | -     | -     | -    | -    | 48,6  | - |
| 122         | -      | -      | -     | -     | -    | 43,5 | 41,8  | - |
| 126         | -      | -      | -     | -     | -    | 41,3 | 37,4  | - |
| 130         | -      | -      | -     | -     | -    | -    | 32,4  | - |
| 134         | -      | -      | -     | -     | -    | -    | 26,1  | - |
| 138         | -      | -      | -     | -     | -    | -    | 19,7  | - |

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |         |              |       |      |      |       |   |   |
|--------------------------------------------------------|---------|---------|--------------|-------|------|------|-------|---|---|
| 78 m + 84 m                                            |         |         |              |       |      |      |       |   |   |
| m                                                      | SWSL    |         |              |       |      |      | SFSL  |   |   |
|                                                        | 0 t     |         | 80 t - 450 t |       |      |      |       |   |   |
|                                                        | 87°/85° | 87°/85° | 75°          | 65°   | 55°  | 45°  | 15°   |   |   |
| 28                                                     | 119,5*  | 124,5*  | -            | -     | -    | -    | -     | - | - |
| 30                                                     | 116,5*  | 124,0*  | -            | -     | -    | -    | -     | - | - |
| 34                                                     | 102,5*  | 125,0   | -            | -     | -    | -    | -     | - | - |
| 38                                                     | 91,0*   | 124,0   | -            | -     | -    | -    | 121,0 | - | - |
| 42                                                     | 81,3*   | 123,0   | -            | -     | -    | -    | 121,0 | - | - |
| 46                                                     | 73,0*   | 121,5   | -            | -     | -    | -    | 121,0 | - | - |
| 50                                                     | 65,9*   | 119,5   | -            | -     | -    | -    | 121,0 | - | - |
| 54                                                     | 59,7*   | 117,5   | -            | -     | -    | -    | 121,0 | - | - |
| 58                                                     | 53,9*   | 115,5   | -            | -     | -    | -    | 121,0 | - | - |
| 62                                                     | 47,8*   | 113,5   | 119,5        | -     | -    | -    | 121,0 | - | - |
| 66                                                     | 42,4*   | 111,5   | 119,0        | -     | -    | -    | 118,0 | - | - |
| 70                                                     | 37,7*   | 109,5   | 119,0        | -     | -    | -    | 115,0 | - | - |
| 74                                                     | 33,5*   | 107,0   | 118,0        | -     | -    | -    | 112,0 | - | - |
| 78                                                     | 29,8*   | 105,0   | 118,0        | -     | -    | -    | 110,0 | - | - |
| 82                                                     | 26,4*   | 99,4    | 117,0        | -     | -    | -    | 108,0 | - | - |
| 86                                                     | 23,4*   | 88,4    | 117,0        | 105,5 | -    | -    | 106,0 | - | - |
| 90                                                     | 17,2    | 76,7    | 113,0        | 102,0 | -    | -    | 100,0 | - | - |
| 94                                                     | -       | -       | 104,0        | 96,6  | -    | -    | 92,0  | - | - |
| 98                                                     | -       | -       | 96,4         | 91,4  | -    | -    | 85,0  | - | - |
| 102                                                    | -       | -       | 87,8         | 86,7  | -    | -    | 78,5  | - | - |
| 106                                                    | -       | -       | -            | 82,3  | -    | -    | 72,0  | - | - |
| 110                                                    | -       | -       | -            | 78,2  | 65,5 | -    | 66,5  | - | - |
| 114                                                    | -       | -       | -            | 74,4  | 61,8 | -    | 60,5  | - | - |
| 118                                                    | -       | -       | -            | -     | 58,3 | -    | 54,0  | - | - |
| 122                                                    | -       | -       | -            | -     | 55,1 | -    | 47,6  | - | - |
| 126                                                    | -       | -       | -            | -     | 52,1 | -    | 41,5  | - | - |
| 130                                                    | -       | -       | -            | -     | -    | 35,5 | 35,5  | - | - |
| 134                                                    | -       | -       | -            | -     | -    | 33,6 | 31,3  | - | - |
| 138                                                    | -       | -       | -            | -     | -    | 31,8 | 27,4  | - | - |
| 142                                                    | -       | -       | -            | -     | -    | -    | 21,9  | - | - |
| 146                                                    | -       | -       | -            | -     | -    | -    | 16,4  | - | - |
| 150                                                    | -       | -       | -            | -     | -    | -    | 10,8  | - | - |

|     |      |       |       |       |       |       |
|-----|------|-------|-------|-------|-------|-------|
| 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-----|------|-------|-------|-------|-------|-------|

| m   | SWSL    |         |              |      |      |      | SFSL |      |   |
|-----|---------|---------|--------------|------|------|------|------|------|---|
|     | 0 t     |         | 80 t - 450 t |      |      |      |      |      |   |
|     | 87°/85° | 87°/85° | 75°          | 65°  | 55°  | 45°  | 15°  |      |   |
| 30  | 92,6*   | 95,9*   | -            | -    | -    | -    | -    | -    | - |
| 34  | 91,5*   | 95,2*   | -            | -    | -    | -    | -    | -    | - |
| 36  | 89,8*   | 95,9    | -            | -    | -    | -    | -    | -    | - |
| 38  | 85,0*   | 95,9    | -            | -    | -    | -    | -    | -    | - |
| 42  | 75,7*   | 94,9    | -            | -    | -    | -    | -    | 93,0 | - |
| 46  | 67,7*   | 93,8    | -            | -    | -    | -    | -    | 93,0 | - |
| 50  | 60,9*   | 92,5    | -            | -    | -    | -    | -    | 93,0 | - |
| 54  | 54,9*   | 91,1    | -            | -    | -    | -    | -    | 93,0 | - |
| 58  | 49,6*   | 89,4    | -            | -    | -    | -    | -    | 92,5 | - |
| 62  | 44,9*   | 87,8    | -            | -    | -    | -    | -    | 92,0 | - |
| 66  | 40,2*   | 86,1    | 88,7         | -    | -    | -    | -    | 91,5 | - |
| 70  | 35,5*   | 84,4    | 88,7         | -    | -    | -    | -    | 90,5 | - |
| 74  | 31,3*   | 82,8    | 88,7         | -    | -    | -    | -    | 88,5 | - |
| 78  | 27,5*   | 81,2    | 88,7         | -    | -    | -    | -    | 87,0 | - |
| 82  | 24,1*   | 79,6    | 88,2         | -    | -    | -    | -    | 85,5 | - |
| 86  | 21,1*   | 78,0    | 87,7         | -    | -    | -    | -    | 84,5 | - |
| 90  | 18,3*   | 76,4    | 86,8         | -    | -    | -    | -    | 83,0 | - |
| 94  | 15,8*   | 74,8    | 86,4         | 77,0 | -    | -    | -    | 81,5 | - |
| 98  | 13,4*   | 68,8    | 85,8         | 76,7 | -    | -    | -    | 80,5 | - |
| 102 | 8,2     | 59,7    | 84,3         | 76,7 | -    | -    | -    | 79,0 | - |
| 106 | -       | -       | 81,8         | 76,7 | -    | -    | -    | 73,0 | - |
| 110 | -       | -       | 75,8         | 75,1 | -    | -    | -    | 67,5 | - |
| 114 | -       | -       | 69,0         | 71,3 | -    | -    | -    | 62,0 | - |
| 118 | -       | -       | -            | 67,8 | 54,9 | -    | -    | 57,0 | - |
| 122 | -       | -       | -            | 64,5 | 51,7 | -    | -    | 51,5 | - |
| 126 | -       | -       | -            | 61,5 | 48,7 | -    | -    | 45,7 | - |
| 130 | -       | -       | -            | -    | 45,9 | -    | -    | 40,0 | - |
| 134 | -       | -       | -            | -    | 43,2 | -    | -    | 34,6 | - |
| 138 | -       | -       | -            | -    | 40,8 | 29,0 | -    | 29,3 | - |
| 142 | -       | -       | -            | -    | -    | 27,5 | -    | 26,3 | - |
| 146 | -       | -       | -            | -    | -    | 25,6 | -    | 22,2 | - |
| 150 | -       | -       | -            | -    | -    | 23,8 | -    | 17,4 | - |
| 154 | -       | -       | -            | -    | -    | -    | -    | 12,6 | - |
| 158 | -       | -       | -            | -    | -    | -    | -    | 7,7  | - |

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |              |      |      |      |      |              |      |
|--------------------------------------------------------|---------|--------------|------|------|------|------|--------------|------|
| 78 m + 108 m                                           |         |              |      |      |      |      |              |      |
| m                                                      | SWSL    |              |      |      |      | SFSL |              |      |
|                                                        | 0 t     | 80 t - 450 t |      |      |      | 0 t  | 80 t - 450 t | SFSL |
|                                                        | 87°/85° | 87°/85°      | 75°  | 65°  | 55°  | 45°  | 15°          |      |
| 34                                                     | 69,1*   | 72,1*        | -    | -    | -    | -    | -            |      |
| 38                                                     | 68,8*   | 71,4*        | -    | -    | -    | -    | -            |      |
| 40                                                     | 68,0*   | 71,5         | -    | -    | -    | -    | -            |      |
| 42                                                     | 67,1*   | 71,4         | -    | -    | -    | -    | -            |      |
| 46                                                     | 62,7*   | 70,7         | -    | -    | -    | -    | 69,5         |      |
| 50                                                     | 56,0*   | 69,8         | -    | -    | -    | -    | 69,5         |      |
| 54                                                     | 50,3*   | 68,9         | -    | -    | -    | -    | 69,0         |      |
| 58                                                     | 45,1*   | 67,9         | -    | -    | -    | -    | 69,0         |      |
| 62                                                     | 40,6*   | 66,8         | -    | -    | -    | -    | 68,5         |      |
| 66                                                     | 36,5*   | 65,6         | -    | -    | -    | -    | 67,5         |      |
| 70                                                     | 32,9*   | 64,5         | -    | -    | -    | -    | 67,0         |      |
| 74                                                     | 29,2*   | 63,3         | 63,8 | -    | -    | -    | 66,0         |      |
| 78                                                     | 25,4*   | 62,1         | 63,8 | -    | -    | -    | 65,0         |      |
| 82                                                     | 22,0*   | 60,8         | 63,8 | -    | -    | -    | 63,5         |      |
| 86                                                     | 19,0*   | 59,3         | 63,8 | -    | -    | -    | 62,5         |      |
| 90                                                     | 16,2*   | 57,6         | 63,7 | -    | -    | -    | 61,5         |      |
| 94                                                     | 13,6*   | 55,9         | 63,5 | -    | -    | -    | 60,5         |      |
| 98                                                     | 11,3*   | 54,2         | 62,3 | -    | -    | -    | 59,5         |      |
| 102                                                    | 9,1*    | 52,5         | 62,8 | 54,2 | -    | -    | 58,5         |      |
| 106                                                    | 7,1*    | 50,8         | 62,4 | 54,2 | -    | -    | 57,5         |      |
| 110                                                    | 5,3*    | 49,1         | 61,7 | 54,1 | -    | -    | 56,0         |      |
| 114                                                    | -       | 46,2         | 60,7 | 54,1 | -    | -    | 55,0         |      |
| 118                                                    | -       | -            | 59,9 | 54,1 | -    | -    | 54,0         |      |
| 122                                                    | -       | -            | 59,2 | 54,0 | -    | -    | 51,5         |      |
| 126                                                    | -       | -            | 54,2 | 54,0 | 45,5 | -    | 48,6         |      |
| 130                                                    | -       | -            | -    | 54,0 | 42,7 | -    | 43,3         |      |
| 134                                                    | -       | -            | -    | 52,9 | 40,1 | -    | 38,1         |      |
| 138                                                    | -       | -            | -    | 50,4 | 37,6 | -    | 33,1         |      |
| 142                                                    | -       | -            | -    | -    | 35,3 | -    | 28,2         |      |
| 146                                                    | -       | -            | -    | -    | 33,1 | -    | 24,1         |      |
| 150                                                    | -       | -            | -    | -    | 31,0 | 20,3 | 21,6         |      |
| 154                                                    | -       | -            | -    | -    | -    | 18,7 | 17,2         |      |
| 158                                                    | -       | -            | -    | -    | -    | 17,1 | 12,9         |      |
| 162                                                    | -       | -            | -    | -    | -    | 15,5 | 8,7          |      |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|--|-----|------|-------|-------|-------|-------|-------|

\* Main boom angle 87° · Hauptauslegerwinkel 87° ·  
Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° ·  
Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1

Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet

Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche

Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1

Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1

Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1

Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

| 84 m + 36 m |         |              |       |       |       |      |              |      |
|-------------|---------|--------------|-------|-------|-------|------|--------------|------|
| m           | SWSL    |              |       |       |       | SFSL |              |      |
|             | 0 t     | 80 t - 450 t |       |       |       | 0 t  | 80 t - 450 t | SFSL |
|             | 87°/85° | 87°/85°      | 75°   | 65°   | 55°   | 45°  | 15°          |      |
| 17          | 241,0*  | 285,0*       | -     | -     | -     | -    | -            |      |
| 18          | 229,0*  | 285,0*       | -     | -     | -     | -    | -            |      |
| 20          | 210,0*  | 281,0*       | -     | -     | -     | -    | -            |      |
| 22          | 193,0*  | 292,0        | -     | -     | -     | -    | 279,0        |      |
| 24          | 178,5*  | 288,0        | -     | -     | -     | -    | 279,0        |      |
| 26          | 166,0*  | 284,0        | -     | -     | -     | -    | 279,0        |      |
| 28          | 155,0*  | 278,0        | -     | -     | -     | -    | 279,0        |      |
| 30          | 145,0*  | 273,0        | -     | -     | -     | -    | 279,0        |      |
| 34          | 128,5*  | 261,0        | -     | -     | -     | -    | 277,0        |      |
| 38          | 112,5*  | 251,0        | -     | -     | -     | -    | 272,0        |      |
| 42          | 97,7*   | 240,0        | 287,0 | -     | -     | -    | 268,0        |      |
| 44          | 84,8    | 229,0        | 277,0 | -     | -     | -    | 261,5        |      |
| 46          | -       | -            | 264,0 | -     | -     | -    | 255,0        |      |
| 50          | -       | -            | 239,0 | -     | -     | -    | 228,0        |      |
| 54          | -       | -            | 219,0 | -     | -     | -    | 205,0        |      |
| 58          | -       | -            | 201,0 | -     | -     | -    | 185,0        |      |
| 62          | -       | -            | -     | 171,0 | -     | -    | 168,0        |      |
| 66          | -       | -            | -     | 159,5 | -     | -    | 152,0        |      |
| 70          | -       | -            | -     | 148,5 | -     | -    | 139,0        |      |
| 74          | -       | -            | -     | -     | -     | -    | 127,0        |      |
| 78          | -       | -            | -     | -     | 117,5 | -    | 116,0        |      |
| 82          | -       | -            | -     | -     | 110,5 | -    | 106,0        |      |
| 86          | -       | -            | -     | -     | 105,0 | -    | 97,0         |      |
| 90          | -       | -            | -     | -     | -     | -    | 86,0         |      |
| 94          | -       | -            | -     | -     | -     | -    | 75,5         |      |
| 98          | -       | -            | -     | -     | -     | -    | 65,0         |      |
| 102         | -       | -            | -     | -     | -     | -    | 57,5         |      |
| 106         | -       | -            | -     | -     | -     | -    | 50,5         |      |
| 110         | -       | -            | -     | -     | -     | -    | 41,1         |      |

| 84 m + 48 m |        |        |       |       |      |   |       |   |
|-------------|--------|--------|-------|-------|------|---|-------|---|
| m           | t      | t      | t     | t     | t    | t | t     | t |
| 20          | 197,0* | 229,0* | -     | -     | -    | - | -     | - |
| 22          | 181,5* | 227,0* | -     | -     | -    | - | -     | - |
| 24          | 168,0* | 233,0  | -     | -     | -    | - | -     | - |
| 26          | 156,0* | 233,0  | -     | -     | -    | - | 224,0 |   |
| 28          | 145,5* | 231,0  | -     | -     | -    | - | 224,0 |   |
| 30          | 136,5* | 228,0  | -     | -     | -    | - | 224,0 |   |
| 34          | 120,5* | 221,0  | -     | -     | -    | - | 224,0 |   |
| 38          | 108,0* | 214,0  | -     | -     | -    | - | 224,0 |   |
| 42          | 95,8*  | 206,0  | -     | -     | -    | - | 221,0 |   |
| 46          | 84,0*  | 199,5  | -     | -     | -    | - | 218,0 |   |
| 48          | 78,9*  | 196,0  | 230,0 | -     | -    | - | 213,5 |   |
| 50          | 74,2*  | 192,5  | 230,0 | -     | -    | - | 211,0 |   |
| 54          | 60,1   | 180,0  | 216,0 | -     | -    | - | 204,0 |   |
| 58          | -      | -      | 199,0 | -     | -    | - | 188,0 |   |
| 62          | -      | -      | 184,0 | -     | -    | - | 170,0 |   |
| 66          | -      | -      | 171,0 | -     | -    | - | 155,0 |   |
| 70          | -      | -      | 159,5 | 144,5 | -    | - | 141,0 |   |
| 74          | -      | -      | -     | 135,5 | -    | - | 129,0 |   |
| 78          | -      | -      | -     | 127,5 | -    | - | 118,0 |   |
| 82          | -      | -      | -     | 120,0 | -    | - | 108,0 |   |
| 86          | -      | -      | -     | -     | -    | - | 99,5  |   |
| 90          | -      | -      | -     | -     | 94,6 | - | 91,0  |   |
| 94          | -      | -      | -     | -     | 89,7 | - | 83,5  |   |
| 98          | -      | -      | -     | -     | -    | - | 74,0  |   |
| 102         | -      | -      | -     | -     | -    | - | 65,0  |   |
| 106         | -      | -      | -     | -     | -    | - | 56,5  |   |
| 110         | -      | -      | -     | -     | -    | - | 48,6  |   |
| 114         | -      | -      | -     | -     | -    | - | 43,9  |   |
| 118         | -      | -      | -     | -     | -    | - | 36,5  |   |
| 122         | -      | -      | -     | -     | -    | - | 28,6  |   |

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |        |       |       |      |      |       |   |   |
|--------------------------------------------------------|---------|--------|-------|-------|------|------|-------|---|---|
| 84 m + 60 m                                            |         |        |       |       |      |      |       |   |   |
| SWSL SFSL                                              |         |        |       |       |      |      |       |   |   |
| 0 t 80 t - 450 t                                       |         |        |       |       |      |      |       |   |   |
| m                                                      | t       | t      | t     | t     | t    | t    | t     | t | t |
| 87°/85°                                                | 87°/85° | 75°    | 65°   | 55°   | 45°  | 15°  |       |   |   |
| 24                                                     | 157,5*  | 184,0* | -     | -     | -    | -    | -     | - | - |
| 26                                                     | 146,5*  | 182,5* | -     | -     | -    | -    | -     | - | - |
| 28                                                     | 136,5*  | 187,5  | -     | -     | -    | -    | -     | - | - |
| 30                                                     | 128,0*  | 187,0  | -     | -     | -    | -    | 180,0 | - | - |
| 34                                                     | 113,0*  | 184,0  | -     | -     | -    | -    | 180,0 | - | - |
| 38                                                     | 101,0*  | 179,5  | -     | -     | -    | -    | 180,0 | - | - |
| 42                                                     | 90,8*   | 175,0  | -     | -     | -    | -    | 180,0 | - | - |
| 46                                                     | 82,1*   | 170,0  | -     | -     | -    | -    | 180,0 | - | - |
| 50                                                     | 74,7*   | 165,0  | -     | -     | -    | -    | 177,0 | - | - |
| 54                                                     | 66,6*   | 160,0  | 185,5 | -     | -    | -    | 174,0 | - | - |
| 58                                                     | 59,3*   | 155,5  | 183,0 | -     | -    | -    | 169,0 | - | - |
| 62                                                     | 53,0*   | 150,5  | 181,5 | -     | -    | -    | 163,0 | - | - |
| 66                                                     | 42,6    | 138,0  | 172,0 | -     | -    | -    | 159,0 | - | - |
| 70                                                     | -       | -      | 160,0 | -     | -    | -    | 146,0 | - | - |
| 74                                                     | -       | -      | 149,5 | -     | -    | -    | 133,0 | - | - |
| 78                                                     | -       | -      | 140,0 | 125,5 | -    | -    | 122,0 | - | - |
| 82                                                     | -       | -      | 132,0 | 118,0 | -    | -    | 112,0 | - | - |
| 86                                                     | -       | -      | -     | 111,5 | -    | -    | 103,0 | - | - |
| 90                                                     | -       | -      | -     | 105,5 | -    | -    | 95,0  | - | - |
| 94                                                     | -       | -      | -     | 100,0 | -    | -    | 87,0  | - | - |
| 98                                                     | -       | -      | -     | -     | 82,6 | -    | 80,0  | - | - |
| 102                                                    | -       | -      | -     | -     | 78,4 | -    | 73,5  | - | - |
| 106                                                    | -       | -      | -     | -     | 74,4 | -    | 66,0  | - | - |
| 110                                                    | -       | -      | -     | -     | -    | -    | 58,0  | - | - |
| 114                                                    | -       | -      | -     | -     | -    | 50,0 | 50,5  | - | - |
| 118                                                    | -       | -      | -     | -     | -    | 47,1 | 43,2  | - | - |
| 122                                                    | -       | -      | -     | -     | -    | -    | 38,0  | - | - |
| 126                                                    | -       | -      | -     | -     | -    | -    | 33,0  | - | - |
| 130                                                    | -       | -      | -     | -     | -    | -    | 26,1  | - | - |
| 134                                                    | -       | -      | -     | -     | -    | -    | 19,1  | - | - |
| 0 t 80 t 160 t 240 t 320 t 400 t 450 t                 |         |        |       |       |      |      |       |   |   |

| 84 m + 72 m      |         |        |       |       |      |      |   |       |   |
|------------------|---------|--------|-------|-------|------|------|---|-------|---|
| SWSL SFSL        |         |        |       |       |      |      |   |       |   |
| 0 t 80 t - 450 t |         |        |       |       |      |      |   |       |   |
| m                | t       | t      | t     | t     | t    | t    | t | t     | t |
| 87°/85°          | 87°/85° | 75°    | 65°   | 55°   | 45°  | 15°  |   |       |   |
| 26               | 136,5*  | 147,5* | -     | -     | -    | -    | - | -     | - |
| 28               | 127,0*  | 147,0* | -     | -     | -    | -    | - | -     | - |
| 30               | 119,0*  | 145,5* | -     | -     | -    | -    | - | -     | - |
| 32               | 112,0*  | 150,0  | -     | -     | -    | -    | - | -     | - |
| 34               | 105,0*  | 149,0  | -     | -     | -    | -    | - | 144,0 | - |
| 38               | 93,4*   | 147,0  | -     | -     | -    | -    | - | 144,0 | - |
| 42               | 83,6*   | 144,5  | -     | -     | -    | -    | - | 144,0 | - |
| 46               | 75,4*   | 141,5  | -     | -     | -    | -    | - | 144,0 | - |
| 50               | 68,2*   | 138,5  | -     | -     | -    | -    | - | 144,0 | - |
| 54               | 62,0*   | 135,0  | -     | -     | -    | -    | - | 144,0 | - |
| 58               | 55,0*   | 132,0  | 147,0 | -     | -    | -    | - | 142,0 | - |
| 62               | 49,0*   | 128,5  | 145,5 | -     | -    | -    | - | 139,0 | - |
| 66               | 43,7*   | 125,5  | 145,5 | -     | -    | -    | - | 134,0 | - |
| 70               | 39,0*   | 122,0  | 143,0 | -     | -    | -    | - | 131,0 | - |
| 74               | 34,8*   | 116,0  | 142,0 | -     | -    | -    | - | 128,0 | - |
| 78               | 26,8    | 101,0  | 135,0 | -     | -    | -    | - | 123,0 | - |
| 82               | -       | -      | 127,0 | 113,5 | -    | -    | - | 113,0 | - |
| 86               | -       | -      | 119,5 | 107,0 | -    | -    | - | 104,0 | - |
| 90               | -       | -      | 113,0 | 101,0 | -    | -    | - | 95,5  | - |
| 94               | -       | -      | 102,5 | 95,7  | -    | -    | - | 88,0  | - |
| 98               | -       | -      | -     | 90,7  | -    | -    | - | 81,0  | - |
| 102              | -       | -      | -     | 86,0  | -    | -    | - | 74,0  | - |
| 106              | -       | -      | -     | 81,6  | 68,9 | -    | - | 68,0  | - |
| 110              | -       | -      | -     | -     | 65,0 | -    | - | 62,0  | - |
| 114              | -       | -      | -     | -     | 61,3 | -    | - | 55,0  | - |
| 118              | -       | -      | -     | -     | 58,0 | -    | - | 48,3  | - |
| 122              | -       | -      | -     | -     | -    | -    | - | 41,7  | - |
| 126              | -       | -      | -     | -     | -    | 36,5 | - | 35,4  | - |
| 130              | -       | -      | -     | -     | -    | 34,3 | - | 31,2  | - |
| 134              | -       | -      | -     | -     | -    | -    | - | 26,7  | - |
| 138              | -       | -      | -     | -     | -    | -    | - | 20,8  | - |
| 142              | -       | -      | -     | -     | -    | -    | - | 14,9  | - |

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet ·  
Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche ·  
Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 ·  
Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 ·  
Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 ·  
Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t +  0-80 t  15-24 m  9,60 m  9.8 m/s  360° EN13000 |         |         |       |      |      |      |                                                                                   |       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-------|------|------|------|-----------------------------------------------------------------------------------|-------|--|
| 84 m +  84 m                                                                                                                                                                                                                                                                                                                                                                                       |         |         |       |      |      |      |                                                                                   |       |  |
| SWSL <span>SFSL</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |         |       |      |      |      |                                                                                   |       |  |
| 0 t <span>80 t - 450 t</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |         |       |      |      |      |                                                                                   |       |  |
|                                                                                                                                                                                                                                                                                                                   | 87°/85° | 87°/85° | 75°   | 65°  | 55°  | 45°  |  | 15°   |  |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | t       | t       | t     | t    | t    | t    | t                                                                                 | t     |  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 112,5*  | 117,0*  | -     | -    | -    | -    | -                                                                                 | -     |  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 110,0*  | 116,5*  | -     | -    | -    | -    | -                                                                                 | -     |  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 98,7*   | 117,5   | -     | -    | -    | -    | -                                                                                 | -     |  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 87,6*   | 117,0   | -     | -    | -    | -    | -                                                                                 | 114,0 |  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 78,2*   | 115,5   | -     | -    | -    | -    | -                                                                                 | 114,0 |  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 70,2*   | 114,0   | -     | -    | -    | -    | -                                                                                 | 114,0 |  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 63,3*   | 112,5   | -     | -    | -    | -    | -                                                                                 | 114,0 |  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 57,3*   | 110,5   | -     | -    | -    | -    | -                                                                                 | 114,0 |  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 52,0*   | 108,5   | -     | -    | -    | -    | -                                                                                 | 114,0 |  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 47,0*   | 106,5   | 112,5 | -    | -    | -    | -                                                                                 | 114,0 |  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 41,7*   | 104,5   | 112,5 | -    | -    | -    | -                                                                                 | 112,0 |  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 37,0*   | 102,5   | 112,0 | -    | -    | -    | -                                                                                 | 109,0 |  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 32,8*   | 100,0   | 111,0 | -    | -    | -    | -                                                                                 | 106,0 |  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 29,1*   | 98,0    | 111,0 | -    | -    | -    | -                                                                                 | 103,0 |  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 25,8*   | 95,8    | 111,0 | -    | -    | -    | -                                                                                 | 101,0 |  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 22,7*   | 90,1    | 110,0 | -    | -    | -    | -                                                                                 | 99,5  |  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 16,2    | 78,6    | 109,5 | 97,8 | -    | -    | -                                                                                 | 97,0  |  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -       | -       | 105,0 | 92,4 | -    | -    | -                                                                                 | 89,5  |  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -       | -       | 99,5  | 87,4 | -    | -    | -                                                                                 | 82,0  |  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | 92,1  | 82,8 | -    | -    | -                                                                                 | 75,5  |  |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | 80,8  | 78,6 | -    | -    | -                                                                                 | 69,5  |  |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | -     | 74,7 | -    | -    | -                                                                                 | 63,5  |  |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | -     | 71,0 | 57,9 | -    | -                                                                                 | 58,5  |  |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | -     | 67,7 | 54,5 | -    | -                                                                                 | 52,5  |  |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | -     | -    | 51,4 | -    | -                                                                                 | 46,7  |  |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | -     | -    | 48,5 | -    | -                                                                                 | 40,8  |  |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | -     | -    | 45,8 | -    | -                                                                                 | 35,0  |  |
| 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | -     | -    | -    | 29,7 | -                                                                                 | 29,5  |  |
| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | -     | -    | -    | 28,2 | -                                                                                 | 26,3  |  |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | -     | -    | -    | 26,8 | -                                                                                 | 21,9  |  |
| 146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | -     | -    | -    | -    | -                                                                                 | 16,7  |  |
| 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | -     | -    | -    | -    | -                                                                                 | 11,6  |  |
| 154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -       | -     | -    | -    | -    | -                                                                                 | 6,4   |  |

| 84 m +  96 m                                                                      |         |         |      |      |      |      |                                                                                     |      |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|------|------|------|------|-------------------------------------------------------------------------------------|------|--|
| SWSL <span>SFSL</span>                                                                                                                                              |         |         |      |      |      |      |                                                                                     |      |  |
| 0 t <span>80 t - 450 t</span>                                                                                                                                       |         |         |      |      |      |      |                                                                                     |      |  |
|   | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 45°  |  | 15°  |  |
| m                                                                                                                                                                   | t       | t       | t    | t    | t    | t    | t                                                                                   | t    |  |
| 32                                                                                                                                                                  | 85,5*   | 88,9*   | -    | -    | -    | -    | -                                                                                   | -    |  |
| 34                                                                                                                                                                  | 85,5*   | 88,2*   | -    | -    | -    | -    | -                                                                                   | -    |  |
| 38                                                                                                                                                                  | 81,6*   | 88,6    | -    | -    | -    | -    | -                                                                                   | -    |  |
| 42                                                                                                                                                                  | 72,6*   | 87,8    | -    | -    | -    | -    | -                                                                                   | 86,0 |  |
| 46                                                                                                                                                                  | 65,0*   | 86,8    | -    | -    | -    | -    | -                                                                                   | 86,0 |  |
| 50                                                                                                                                                                  | 58,3*   | 85,6    | -    | -    | -    | -    | -                                                                                   | 86,0 |  |
| 54                                                                                                                                                                  | 52,6*   | 84,3    | -    | -    | -    | -    | -                                                                                   | 86,0 |  |
| 58                                                                                                                                                                  | 47,4*   | 82,7    | -    | -    | -    | -    | -                                                                                   | 85,5 |  |
| 62                                                                                                                                                                  | 42,9*   | 81,0    | -    | -    | -    | -    | -                                                                                   | 85,0 |  |
| 66                                                                                                                                                                  | 38,8*   | 79,4    | -    | -    | -    | -    | -                                                                                   | 84,5 |  |
| 70                                                                                                                                                                  | 34,7*   | 77,8    | 81,7 | -    | -    | -    | -                                                                                   | 84,0 |  |
| 74                                                                                                                                                                  | 30,6*   | 76,1    | 81,7 | -    | -    | -    | -                                                                                   | 82,0 |  |
| 78                                                                                                                                                                  | 26,9*   | 74,5    | 81,7 | -    | -    | -    | -                                                                                   | 79,5 |  |
| 82                                                                                                                                                                  | 23,5*   | 72,9    | 81,6 | -    | -    | -    | -                                                                                   | 78,5 |  |
| 86                                                                                                                                                                  | 20,5*   | 71,2    | 80,8 | -    | -    | -    | -                                                                                   | 77,0 |  |
| 90                                                                                                                                                                  | 17,7*   | 69,6    | 80,3 | -    | -    | -    | -                                                                                   | 76,0 |  |
| 94                                                                                                                                                                  | 15,2*   | 67,9    | 79,3 | -    | -    | -    | -                                                                                   | 74,5 |  |
| 98                                                                                                                                                                  | 12,9*   | 66,3    | 78,7 | 70,7 | -    | -    | -                                                                                   | 73,5 |  |
| 102                                                                                                                                                                 | 7,3     | 61,3    | 77,8 | 70,3 | -    | -    | -                                                                                   | 72,0 |  |
| 106                                                                                                                                                                 | -       | -       | 76,8 | 70,3 | -    | -    | -                                                                                   | 70,5 |  |
| 110                                                                                                                                                                 | -       | -       | 75,3 | 70,3 | -    | -    | -                                                                                   | 64,5 |  |
| 114                                                                                                                                                                 | -       | -       | 72,6 | 67,8 | -    | -    | -                                                                                   | 59,0 |  |
| 118                                                                                                                                                                 | -       | -       | -    | 64,4 | -    | -    | -                                                                                   | 54,0 |  |
| 122                                                                                                                                                                 | -       | -       | -    | 61,2 | 47,9 | -    | -                                                                                   | 49,7 |  |
| 126                                                                                                                                                                 | -       | -       | -    | 58,3 | 45,1 | -    | -                                                                                   | 44,4 |  |
| 130                                                                                                                                                                 | -       | -       | -    | 55,5 | 42,4 | -    | -                                                                                   | 38,9 |  |
| 134                                                                                                                                                                 | -       | -       | -    | -    | 39,8 | -    | -                                                                                   | 33,7 |  |
| 138                                                                                                                                                                 | -       | -       | -    | -    | 37,5 | -    | -                                                                                   | 28,6 |  |
| 142                                                                                                                                                                 | -       | -       | -    | -    | 35,2 | 23,6 | -                                                                                   | 24,2 |  |
| 146                                                                                                                                                                 | -       | -       | -    | -    | -    | 21,8 | -                                                                                   | 21,5 |  |
| 150                                                                                                                                                                 | -       | -       | -    | -    | -    | 20,1 | -                                                                                   | 16,9 |  |
| 154                                                                                                                                                                 | -       | -       | -    | -    | -    | 18,5 | -                                                                                   | 12,4 |  |
| 158                                                                                                                                                                 | -       | -       | -    | -    | -    | -    | -                                                                                   | 7,9  |  |



|     |      |       |       |       |       |       |
|-----|------|-------|-------|-------|-------|-------|
| 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-----|------|-------|-------|-------|-------|-------|

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |              |      |      |      |      |      |  |  |
|--------------------------------------------------------|---------|--------------|------|------|------|------|------|--|--|
| 84 m + 108 m                                           |         |              |      |      |      |      |      |  |  |
| m                                                      | SWSL    |              |      |      |      |      | SFSL |  |  |
|                                                        | 0 t     | 80 t - 450 t |      |      |      |      |      |  |  |
|                                                        | 87°/85° | 87°/85°      | 75°  | 65°  | 55°  | 45°  | 15°  |  |  |
| 34                                                     | 65,1*   | 68,0*        | -    | -    | -    | -    | -    |  |  |
| 38                                                     | 64,9*   | 67,3*        | -    | -    | -    | -    | -    |  |  |
| 40                                                     | 64,3*   | 67,5         | -    | -    | -    | -    | -    |  |  |
| 42                                                     | 63,7*   | 67,5         | -    | -    | -    | -    | -    |  |  |
| 46                                                     | 59,9*   | 66,8         | -    | -    | -    | -    | 65,5 |  |  |
| 50                                                     | 53,5*   | 66,0         | -    | -    | -    | -    | 65,5 |  |  |
| 54                                                     | 47,9*   | 65,2         | -    | -    | -    | -    | 65,5 |  |  |
| 58                                                     | 43,0*   | 64,2         | -    | -    | -    | -    | 65,0 |  |  |
| 62                                                     | 38,6*   | 63,1         | -    | -    | -    | -    | 65,0 |  |  |
| 66                                                     | 34,7*   | 62,0         | -    | -    | -    | -    | 64,0 |  |  |
| 70                                                     | 31,1*   | 60,9         | -    | -    | -    | -    | 63,5 |  |  |
| 74                                                     | 27,9*   | 59,8         | 60,4 | -    | -    | -    | 63,0 |  |  |
| 78                                                     | 24,8*   | 58,7         | 60,4 | -    | -    | -    | 62,0 |  |  |
| 82                                                     | 21,4*   | 57,5         | 60,4 | -    | -    | -    | 60,5 |  |  |
| 86                                                     | 18,4*   | 56,3         | 60,4 | -    | -    | -    | 59,5 |  |  |
| 90                                                     | 15,6*   | 54,9         | 60,4 | -    | -    | -    | 58,5 |  |  |
| 94                                                     | 13,1*   | 53,6         | 60,3 | -    | -    | -    | 57,5 |  |  |
| 98                                                     | 10,8*   | 52,2         | 60,2 | -    | -    | -    | 56,5 |  |  |
| 102                                                    | 8,6*    | 50,9         | 59,6 | 51,1 | -    | -    | 55,5 |  |  |
| 106                                                    | 6,7*    | 49,5         | 59,4 | 50,9 | -    | -    | 54,5 |  |  |
| 110                                                    | -       | 48,2         | 59,2 | 50,9 | -    | -    | 53,5 |  |  |
| 114                                                    | -       | 46,8         | 58,5 | 50,9 | -    | -    | 52,5 |  |  |
| 118                                                    | -       | -            | 58,2 | 50,9 | -    | -    | 51,5 |  |  |
| 122                                                    | -       | -            | 57,8 | 50,7 | -    | -    | 50,0 |  |  |
| 126                                                    | -       | -            | 57,1 | 50,7 | -    | -    | 46,0 |  |  |
| 130                                                    | -       | -            | -    | 50,7 | 39,1 | -    | 41,8 |  |  |
| 134                                                    | -       | -            | -    | 49,9 | 36,6 | -    | 36,8 |  |  |
| 138                                                    | -       | -            | -    | 47,5 | 34,2 | -    | 31,9 |  |  |
| 142                                                    | -       | -            | -    | 45,2 | 32,0 | -    | 27,1 |  |  |
| 146                                                    | -       | -            | -    | -    | 29,9 | -    | 22,6 |  |  |
| 150                                                    | -       | -            | -    | -    | 27,9 | -    | 19,1 |  |  |
| 154                                                    | -       | -            | -    | -    | 26,0 | 15,0 | 15,7 |  |  |
| 158                                                    | -       | -            | -    | -    | -    | 13,5 | 12,1 |  |  |
| 162                                                    | -       | -            | -    | -    | -    | 12,0 | 8,1  |  |  |
| 166                                                    | -       | -            | -    | -    | -    | 10,7 | -    |  |  |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|--|-----|------|-------|-------|-------|-------|-------|

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet ·  
Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche ·  
Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 ·  
Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 ·  
Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 ·  
Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |         |              |       |      |     |       |  |  |
|--------------------------------------------------------|---------|---------|--------------|-------|------|-----|-------|--|--|
| 90 m + 48 m                                            |         |         |              |       |      |     |       |  |  |
| m                                                      | SWSL    |         |              |       |      |     | SFSL  |  |  |
|                                                        | 0 t     |         | 80 t - 450 t |       |      |     |       |  |  |
|                                                        | 87°/85° | 87°/85° | 75°          | 65°   | 55°  | 45° | 15°   |  |  |
| 20                                                     | 189,0*  | 209,0*  | -            | -     | -    | -   | -     |  |  |
| 22                                                     | 174,5*  | 208,0*  | -            | -     | -    | -   | -     |  |  |
| 24                                                     | 161,5*  | 206,0*  | -            | -     | -    | -   | -     |  |  |
| 26                                                     | 150,5*  | 213,0   | -            | -     | -    | -   | 204,0 |  |  |
| 28                                                     | 140,5*  | 211,0   | -            | -     | -    | -   | 204,0 |  |  |
| 30                                                     | 131,5*  | 208,0   | -            | -     | -    | -   | 204,0 |  |  |
| 34                                                     | 116,5*  | 203,0   | -            | -     | -    | -   | 204,0 |  |  |
| 38                                                     | 104,0*  | 196,0   | -            | -     | -    | -   | 204,0 |  |  |
| 42                                                     | 94,2*   | 189,0   | -            | -     | -    | -   | 204,0 |  |  |
| 46                                                     | 82,8*   | 183,0   | -            | -     | -    | -   | 202,0 |  |  |
| 48                                                     | 77,7*   | 180,0   | 210,0        | -     | -    | -   | 198,0 |  |  |
| 50                                                     | 73,1*   | 177,5   | 210,0        | -     | -    | -   | 197,0 |  |  |
| 54                                                     | 64,8*   | 171,5   | 205,0        | -     | -    | -   | 189,0 |  |  |
| 58                                                     | -       | -       | 196,0        | -     | -    | -   | 183,0 |  |  |
| 62                                                     | -       | -       | 181,0        | -     | -    | -   | 167,0 |  |  |
| 66                                                     | -       | -       | 168,0        | -     | -    | -   | 152,0 |  |  |
| 70                                                     | -       | -       | 156,5        | 139,0 | -    | -   | 138,0 |  |  |
| 74                                                     | -       | -       | -            | 130,5 | -    | -   | 126,0 |  |  |
| 78                                                     | -       | -       | -            | 122,5 | -    | -   | 115,0 |  |  |
| 82                                                     | -       | -       | -            | 115,5 | -    | -   | 105,0 |  |  |
| 86                                                     | -       | -       | -            | 109,0 | -    | -   | 96,0  |  |  |
| 90                                                     | -       | -       | -            | -     | 88,9 | -   | 88,0  |  |  |
| 94                                                     | -       | -       | -            | -     | 84,3 | -   | 80,5  |  |  |
| 98                                                     | -       | -       | -            | -     | 80,0 | -   | 73,5  |  |  |
| 102                                                    | -       | -       | -            | -     | -    | -   | 65,0  |  |  |
| 106                                                    | -       | -       | -            | -     | -    | -   | 56,5  |  |  |
| 110                                                    | -       | -       | -            | -     | -    | -   | 48,8  |  |  |
| 114                                                    | -       | -       | -            | -     | -    | -   | 41,2  |  |  |
| 118                                                    | -       | -       | -            | -     | -    | -   | 36,4  |  |  |
| 122                                                    | -       | -       | -            | -     | -    | -   | 30,5  |  |  |
| 126                                                    | -       | -       | -            | -     | -    | -   | 23,3  |  |  |

| 90 m + 60 m |         |         |              |       |      |      |       |  |  |
|-------------|---------|---------|--------------|-------|------|------|-------|--|--|
| m           | SWSL    |         |              |       |      |      | SFSL  |  |  |
|             | 0 t     |         | 80 t - 450 t |       |      |      |       |  |  |
|             | 87°/85° | 87°/85° | 75°          | 65°   | 55°  | 45°  | 15°   |  |  |
| 24          | 151,5*  | 169,0*  | -            | -     | -    | -    | -     |  |  |
| 26          | 141,0*  | 167,5*  | -            | -     | -    | -    | -     |  |  |
| 28          | 131,5*  | 171,5   | -            | -     | -    | -    | -     |  |  |
| 30          | 123,5*  | 171,5   | -            | -     | -    | -    | 165,0 |  |  |
| 34          | 109,0*  | 168,5   | -            | -     | -    | -    | 165,0 |  |  |
| 38          | 97,5*   | 164,5   | -            | -     | -    | -    | 165,0 |  |  |
| 42          | 87,7*   | 160,0   | -            | -     | -    | -    | 165,0 |  |  |
| 46          | 79,3*   | 155,5   | -            | -     | -    | -    | 165,0 |  |  |
| 50          | 72,2*   | 150,5   | -            | -     | -    | -    | 165,0 |  |  |
| 54          | 65,6*   | 146,5   | 169,5        | -     | -    | -    | 163,0 |  |  |
| 58          | 58,4*   | 142,5   | 168,0        | -     | -    | -    | 157,0 |  |  |
| 62          | 52,2*   | 138,5   | 164,5        | -     | -    | -    | 152,0 |  |  |
| 66          | 41,3    | 134,5   | 162,0        | -     | -    | -    | 147,0 |  |  |
| 70          | -       | -       | 157,5        | -     | -    | -    | 143,0 |  |  |
| 74          | -       | -       | 147,0        | -     | -    | -    | 130,0 |  |  |
| 78          | -       | -       | 138,0        | 120,5 | -    | -    | 119,0 |  |  |
| 82          | -       | -       | 129,5        | 113,5 | -    | -    | 109,0 |  |  |
| 86          | -       | -       | -            | 107,0 | -    | -    | 100,0 |  |  |
| 90          | -       | -       | -            | 101,0 | -    | -    | 92,0  |  |  |
| 94          | -       | -       | -            | 96,1  | -    | -    | 84,5  |  |  |
| 98          | -       | -       | -            | 91,3  | -    | -    | 77,0  |  |  |
| 102         | -       | -       | -            | -     | 73,5 | -    | 70,5  |  |  |
| 106         | -       | -       | -            | -     | 69,8 | -    | 64,5  |  |  |
| 110         | -       | -       | -            | -     | 66,3 | -    | 57,5  |  |  |
| 114         | -       | -       | -            | -     | -    | -    | 50,0  |  |  |
| 118         | -       | -       | -            | -     | -    | 42,7 | 43,3  |  |  |
| 122         | -       | -       | -            | -     | -    | 40,2 | 36,6  |  |  |
| 126         | -       | -       | -            | -     | -    | -    | 31,9  |  |  |
| 130         | -       | -       | -            | -     | -    | -    | 27,1  |  |  |
| 134         | -       | -       | -            | -     | -    | -    | 20,8  |  |  |
| 138         | -       | -       | -            | -     | -    | -    | 14,4  |  |  |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|--|-----|------|-------|-------|-------|-------|-------|

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t +  0-80 t  15-24 m  9,60 m  9.8 m/s 360° EN13000 |        |         |         |              |      |     |      |       |   |  |
|------------------------------------------------------------|--------|---------|---------|--------------|------|-----|------|-------|---|--|
| 90 m +  72 m                                               |        |         |         |              |      |     |      |       |   |  |
|                                                            | SWSL   |         |         |              |      |     |      | SFSL  |   |  |
|                                                            |        | 0 t     |         | 80 t - 450 t |      |     |      |       |   |  |
|                                                            |        | 87°/85° | 87°/85° | 75°          | 65°  | 55° | 45°  | 15°   |   |  |
| m                                                          | t      | t       | t       | t            | t    | t   | t    | t     | t |  |
| 26                                                         | 128,0* | 135,5*  | -       | -            | -    | -   | -    | -     | - |  |
| 28                                                         | 122,5* | 135,0*  | -       | -            | -    | -   | -    | -     | - |  |
| 30                                                         | 114,5* | 134,0*  | -       | -            | -    | -   | -    | -     | - |  |
| 32                                                         | 107,8* | 137,5   | -       | -            | -    | -   | -    | -     | - |  |
| 34                                                         | 101,0* | 137,0   | -       | -            | -    | -   | -    | 132,0 | - |  |
| 38                                                         | 90,0*  | 135,5   | -       | -            | -    | -   | -    | 132,0 | - |  |
| 42                                                         | 80,6*  | 133,0   | -       | -            | -    | -   | -    | 132,0 | - |  |
| 46                                                         | 72,5*  | 130,0   | -       | -            | -    | -   | -    | 132,0 | - |  |
| 50                                                         | 65,6*  | 127,0   | -       | -            | -    | -   | -    | 132,0 | - |  |
| 54                                                         | 59,6*  | 123,5   | -       | -            | -    | -   | -    | 132,0 | - |  |
| 58                                                         | 54,2*  | 120,5   | 134,5   | -            | -    | -   | -    | 132,0 | - |  |
| 62                                                         | 48,2*  | 117,5   | 134,5   | -            | -    | -   | -    | 129,0 | - |  |
| 66                                                         | 42,9*  | 114,5   | 133,0   | -            | -    | -   | -    | 125,0 | - |  |
| 70                                                         | 38,3*  | 112,0   | 132,5   | -            | -    | -   | -    | 121,0 | - |  |
| 74                                                         | 34,1*  | 109,0   | 129,5   | -            | -    | -   | -    | 119,0 | - |  |
| 78                                                         | 25,7   | 103,0   | 128,0   | -            | -    | -   | -    | 116,0 | - |  |
| 82                                                         | -      | -       | 124,5   | -            | -    | -   | -    | 110,0 | - |  |
| 86                                                         | -      | -       | 117,5   | 102,5        | -    | -   | -    | 101,0 | - |  |
| 90                                                         | -      | -       | 111,0   | 97,0         | -    | -   | -    | 93,0  | - |  |
| 94                                                         | -      | -       | 105,0   | 91,7         | -    | -   | -    | 85,0  | - |  |
| 98                                                         | -      | -       | -       | 86,8         | -    | -   | -    | 78,0  | - |  |
| 102                                                        | -      | -       | -       | 82,3         | -    | -   | -    | 71,5  | - |  |
| 106                                                        | -      | -       | -       | 78,2         | -    | -   | -    | 65,5  | - |  |
| 110                                                        | -      | -       | -       | 74,5         | 60,8 | -   | -    | 59,5  | - |  |
| 114                                                        | -      | -       | -       | -            | 57,3 | -   | -    | 54,0  | - |  |
| 118                                                        | -      | -       | -       | -            | 54,1 | -   | -    | 47,4  | - |  |
| 122                                                        | -      | -       | -       | -            | 51,1 | -   | -    | 41,2  | - |  |
| 126                                                        | -      | -       | -       | -            | -    | -   | -    | 35,1  | - |  |
| 130                                                        | -      | -       | -       | -            | -    | -   | 30,5 | 29,2  | - |  |
| 134                                                        | -      | -       | -       | -            | -    | -   | 29,0 | 26,1  | - |  |
| 138                                                        | -      | -       | -       | -            | -    | -   | -    | 21,0  | - |  |
| 142                                                        | -      | -       | -       | -            | -    | -   | -    | 15,6  | - |  |
| 146                                                        | -      | -       | -       | -            | -    | -   | -    | 10,2  | - |  |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|--|-----|------|-------|-------|-------|-------|-------|

| 90 m +  84 m |        |         |         |              |      |     |      |      |       |  |
|--------------|--------|---------|---------|--------------|------|-----|------|------|-------|--|
|              | SWSL   |         |         |              |      |     |      | SFSL |       |  |
|              |        | 0 t     |         | 80 t - 450 t |      |     |      |      |       |  |
|              |        | 87°/85° | 87°/85° | 75°          | 65°  | 55° | 45°  | 15°  |       |  |
| m            | t      | t       | t       | t            | t    | t   | t    | t    | t     |  |
| 28           | 105,5* | 108,5*  | -       | -            | -    | -   | -    | -    | -     |  |
| 30           | 103,0* | 108,5*  | -       | -            | -    | -   | -    | -    | -     |  |
| 34           | 94,8*  | 109,5   | -       | -            | -    | -   | -    | -    | -     |  |
| 38           | 84,1*  | 109,0   | -       | -            | -    | -   | -    | -    | 106,0 |  |
| 42           | 75,1*  | 108,0   | -       | -            | -    | -   | -    | -    | 106,0 |  |
| 46           | 67,5*  | 106,5   | -       | -            | -    | -   | -    | -    | 106,0 |  |
| 50           | 60,8*  | 105,0   | -       | -            | -    | -   | -    | -    | 106,0 |  |
| 54           | 55,0*  | 102,5   | -       | -            | -    | -   | -    | -    | 106,0 |  |
| 58           | 49,9*  | 100,5   | -       | -            | -    | -   | -    | -    | 106,0 |  |
| 62           | 45,3*  | 98,7    | -       | -            | -    | -   | -    | -    | 106,0 |  |
| 66           | 40,9*  | 96,5    | 105,5   | -            | -    | -   | -    | -    | 106,0 |  |
| 70           | 36,3*  | 94,4    | 105,0   | -            | -    | -   | -    | -    | 102,0 |  |
| 74           | 32,2*  | 92,3    | 105,0   | -            | -    | -   | -    | -    | 99,5  |  |
| 78           | 28,5*  | 90,2    | 104,0   | -            | -    | -   | -    | -    | 96,5  |  |
| 82           | 25,2*  | 88,1    | 103,5   | -            | -    | -   | -    | -    | 94,5  |  |
| 86           | 22,1*  | 86,0    | 102,0   | -            | -    | -   | -    | -    | 93,0  |  |
| 90           | 15,2   | 80,4    | 101,0   | -            | -    | -   | -    | -    | 91,0  |  |
| 94           | -      | -       | 100,0   | 88,3         | -    | -   | -    | -    | 87,0  |  |
| 98           | -      | -       | 97,5    | 83,5         | -    | -   | -    | -    | 79,5  |  |
| 102          | -      | -       | 92,5    | 79,0         | -    | -   | -    | -    | 73,0  |  |
| 106          | -      | -       | 85,7    | 74,9         | -    | -   | -    | -    | 67,0  |  |
| 110          | -      | -       | -       | 71,1         | -    | -   | -    | -    | 61,0  |  |
| 114          | -      | -       | -       | 67,6         | -    | -   | -    | -    | 55,5  |  |
| 118          | -      | -       | -       | 64,4         | 50,6 | -   | -    | -    | 50,5  |  |
| 122          | -      | -       | -       | 61,3         | 47,6 | -   | -    | -    | 45,5  |  |
| 126          | -      | -       | -       | -            | 44,8 | -   | -    | -    | 39,7  |  |
| 130          | -      | -       | -       | -            | 42,2 | -   | -    | -    | 34,2  |  |
| 134          | -      | -       | -       | -            | 39,8 | -   | -    | -    | 28,8  |  |
| 138          | -      | -       | -       | -            | -    | -   | 24,4 | -    | 24,2  |  |
| 142          | -      | -       | -       | -            | -    | -   | 22,6 | -    | 20,9  |  |
| 146          | -      | -       | -       | -            | -    | -   | 20,9 | -    | 16,4  |  |
| 150          | -      | -       | -       | -            | -    | -   | -    | -    | 11,7  |  |
| 154          | -      | -       | -       | -            | -    | -   | -    | -    | 6,9   |  |

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t +  0-80 t  15-24 m  9,60 m  9.8 m/s  360°  EN13000 |                                                                                   |            |      |      |      |      |                                                                                   |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|------|------|------|------|-----------------------------------------------------------------------------------|--|--|
|  90 m +  96 m                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                   |            |      |      |      |      |                                                                                   |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SWSL                                                                              |            |      |      |      |      | SFSL                                                                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 0 t        |      |      |      |      |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                   | 80 t-450 t |      |      |      |      |                                                                                   |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 87°/85°                                                                           | 87°/85°    | 75°  | 65°  | 55°  | 45°  | 15°                                                                               |  |  |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | t                                                                                 | t          | t    | t    | t    | t    | t                                                                                 |  |  |
| 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 80,3*                                                                             | 83,2*      | -    | -    | -    | -    | -                                                                                 |  |  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 80,3*                                                                             | 82,9*      | -    | -    | -    | -    | -                                                                                 |  |  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 76,8*                                                                             | 83,1       | -    | -    | -    | -    | -                                                                                 |  |  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 69,6*                                                                             | 82,6       | -    | -    | -    | -    | 80,5                                                                              |  |  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 62,2*                                                                             | 81,7       | -    | -    | -    | -    | 80,5                                                                              |  |  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 55,8*                                                                             | 80,6       | -    | -    | -    | -    | 80,5                                                                              |  |  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 50,2*                                                                             | 79,3       | -    | -    | -    | -    | 80,5                                                                              |  |  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 45,3*                                                                             | 77,8       | -    | -    | -    | -    | 80,5                                                                              |  |  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 40,9*                                                                             | 76,3       | -    | -    | -    | -    | 80,0                                                                              |  |  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 37,0*                                                                             | 74,7       | -    | -    | -    | -    | 79,5                                                                              |  |  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 33,4*                                                                             | 73,2       | 77,1 | -    | -    | -    | 79,5                                                                              |  |  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 29,9*                                                                             | 71,7       | 77,1 | -    | -    | -    | 78,0                                                                              |  |  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 26,2*                                                                             | 70,1       | 77,1 | -    | -    | -    | 76,0                                                                              |  |  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 22,9*                                                                             | 68,6       | 77,1 | -    | -    | -    | 73,5                                                                              |  |  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19,9*                                                                             | 67,1       | 76,4 | -    | -    | -    | 72,5                                                                              |  |  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 17,2*                                                                             | 65,6       | 76,0 | -    | -    | -    | 71,0                                                                              |  |  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14,7*                                                                             | 64,1       | 75,6 | -    | -    | -    | 70,0                                                                              |  |  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 12,4*                                                                             | 62,6       | 74,4 | 66,6 | -    | -    | 68,5                                                                              |  |  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6,5                                                                               | 61,1       | 73,8 | 66,2 | -    | -    | 67,0                                                                              |  |  |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | 73,1 | 66,2 | -    | -    | 66,0                                                                              |  |  |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | 71,5 | 66,2 | -    | -    | 62,0                                                                              |  |  |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | 70,7 | 64,3 | -    | -    | 56,5                                                                              |  |  |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | 67,4 | 61,1 | -    | -    | 51,5                                                                              |  |  |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | -    | 58,0 | -    | -    | 47,2                                                                              |  |  |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | -    | 55,2 | 41,2 | -    | 42,8                                                                              |  |  |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | -    | 52,5 | 38,7 | -    | 37,6                                                                              |  |  |
| 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | -    | 50,0 | 36,3 | -    | 32,4                                                                              |  |  |
| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | -    | -    | 34,0 | -    | 27,5                                                                              |  |  |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | -    | -    | 31,8 | -    | 22,7                                                                              |  |  |
| 146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | -    | -    | 29,8 | -    | 18,6                                                                              |  |  |
| 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | -    | -    | -    | 15,6 | 15,1                                                                              |  |  |
| 154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | -    | -    | -    | 14,1 | 11,7                                                                              |  |  |
| 158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                 | -          | -    | -    | -    | 12,7 | 7,5                                                                               |  |  |

| 90 m +  108 m |                                                                                   |            |      |      |      |     |                                                                                     |  |  |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|------|------|------|-----|-------------------------------------------------------------------------------------|--|--|
|                | SWSL                                                                              |            |      |      |      |     | SFSL                                                                                |  |  |
|                                                                                                 |  | 0 t        |      |      |      |     |  |  |  |
|                                                                                                 |                                                                                   | 80 t-450 t |      |      |      |     |                                                                                     |  |  |
|                                                                                                 | 87°/85°                                                                           | 87°/85°    | 75°  | 65°  | 55°  | 45° | 15°                                                                                 |  |  |
| m                                                                                               | t                                                                                 | t          | t    | t    | t    | t   | t                                                                                   |  |  |
| 34                                                                                              | 61,0*                                                                             | 63,7*      | -    | -    | -    | -   | -                                                                                   |  |  |
| 38                                                                                              | 60,9*                                                                             | 63,2*      | -    | -    | -    | -   | -                                                                                   |  |  |
| 40                                                                                              | 60,3*                                                                             | 63,3       | -    | -    | -    | -   | -                                                                                   |  |  |
| 42                                                                                              | 59,6*                                                                             | 63,3       | -    | -    | -    | -   | -                                                                                   |  |  |
| 46                                                                                              | 57,1*                                                                             | 62,8       | -    | -    | -    | -   | 61,5                                                                                |  |  |
| 50                                                                                              | 51,0*                                                                             | 62,1       | -    | -    | -    | -   | 61,5                                                                                |  |  |
| 54                                                                                              | 45,6*                                                                             | 61,3       | -    | -    | -    | -   | 61,5                                                                                |  |  |
| 58                                                                                              | 40,8*                                                                             | 60,4       | -    | -    | -    | -   | 61,0                                                                                |  |  |
| 62                                                                                              | 36,6*                                                                             | 59,4       | -    | -    | -    | -   | 61,0                                                                                |  |  |
| 66                                                                                              | 32,7*                                                                             | 58,3       | -    | -    | -    | -   | 60,5                                                                                |  |  |
| 70                                                                                              | 29,3*                                                                             | 57,3       | -    | -    | -    | -   | 60,0                                                                                |  |  |
| 74                                                                                              | 26,2*                                                                             | 56,2       | 56,9 | -    | -    | -   | 59,5                                                                                |  |  |
| 78                                                                                              | 23,4*                                                                             | 55,1       | 56,9 | -    | -    | -   | 59,0                                                                                |  |  |
| 82                                                                                              | 20,7*                                                                             | 54,1       | 56,9 | -    | -    | -   | 57,5                                                                                |  |  |
| 86                                                                                              | 17,8*                                                                             | 53,0       | 56,9 | -    | -    | -   | 56,0                                                                                |  |  |
| 90                                                                                              | 15,1*                                                                             | 52,0       | 56,9 | -    | -    | -   | 55,0                                                                                |  |  |
| 94                                                                                              | 12,6*                                                                             | 50,9       | 56,8 | -    | -    | -   | 54,0                                                                                |  |  |
| 98                                                                                              | 10,3*                                                                             | 49,8       | 56,8 | -    | -    | -   | 53,0                                                                                |  |  |
| 102                                                                                             | 8,1*                                                                              | 48,8       | 56,3 | -    | -    | -   | 52,5                                                                                |  |  |
| 106                                                                                             | 6,2*                                                                              | 47,7       | 56,3 | 47,9 | -    | -   | 51,5                                                                                |  |  |
| 110                                                                                             | -                                                                                 | 46,7       | 56,1 | 47,9 | -    | -   | 50,5                                                                                |  |  |
| 114                                                                                             | -                                                                                 | 45,6       | 55,6 | 47,9 | -    | -   | 50,0                                                                                |  |  |
| 118                                                                                             | -                                                                                 | -          | 54,9 | 47,9 | -    | -   | 49,2                                                                                |  |  |
| 122                                                                                             | -                                                                                 | -          | 54,6 | 47,6 | -    | -   | 48,0                                                                                |  |  |
| 126                                                                                             | -                                                                                 | -          | 54,3 | 47,6 | -    | -   | 43,5                                                                                |  |  |
| 130                                                                                             | -                                                                                 | -          | 52,9 | 47,6 | -    | -   | 39,4                                                                                |  |  |
| 134                                                                                             | -                                                                                 | -          | -    | 46,9 | 32,9 | -   | 35,1                                                                                |  |  |
| 138                                                                                             | -                                                                                 | -          | -    | 44,6 | 30,7 | -   | 30,4                                                                                |  |  |
| 142                                                                                             | -                                                                                 | -          | -    | 42,4 | 28,5 | -   | 25,8                                                                                |  |  |
| 146                                                                                             | -                                                                                 | -          | -    | -    | 26,5 | -   | 21,3                                                                                |  |  |
| 150                                                                                             | -                                                                                 | -          | -    | -    | 24,6 | -   | 17,1                                                                                |  |  |
| 154                                                                                             | -                                                                                 | -          | -    | -    | 22,8 | -   | 12,9                                                                                |  |  |
| 158                                                                                             | -                                                                                 | -          | -    | -    | 21,1 | 9,1 | 9,8                                                                                 |  |  |
| 162                                                                                             | -                                                                                 | -          | -    | -    | -    | 7,8 | 6,7                                                                                 |  |  |
| 166                                                                                             | -                                                                                 | -          | -    | -    | -    | 6,6 | -                                                                                   |  |  |
| 170                                                                                             | -                                                                                 | -          | -    | -    | -    | 5,4 | -                                                                                   |  |  |

|  | 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinação braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung  
IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les  
positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono  
calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma  
intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para  
posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |        |       |       |      |      |       |   |   |
|--------------------------------------------------------|---------|--------|-------|-------|------|------|-------|---|---|
| 96 m + 36 m                                            |         |        |       |       |      |      |       |   |   |
| SWSL SFSL                                              |         |        |       |       |      |      |       |   |   |
| 0 t 80 t - 450 t                                       |         |        |       |       |      |      |       |   |   |
| m                                                      | t       | t      | t     | t     | t    | t    | t     | t | t |
| 87°/85°                                                | 87°/85° | 75°    | 65°   | 55°   | 45°  | 15°  |       |   |   |
| 18                                                     | 211,0*  | 234,0* | -     | -     | -    | -    | -     | - | - |
| 20                                                     | 194,0*  | 232,0* | -     | -     | -    | -    | -     | - | - |
| 22                                                     | 179,0*  | 238,0  | -     | -     | -    | -    | 230,0 | - | - |
| 24                                                     | 166,0*  | 238,0  | -     | -     | -    | -    | 230,0 | - | - |
| 26                                                     | 154,5*  | 234,0  | -     | -     | -    | -    | 230,0 | - | - |
| 28                                                     | 144,0*  | 230,0  | -     | -     | -    | -    | 230,0 | - | - |
| 30                                                     | 135,0*  | 226,0  | -     | -     | -    | -    | 230,0 | - | - |
| 34                                                     | 120,0*  | 217,0  | -     | -     | -    | -    | 230,0 | - | - |
| 38                                                     | 107,5*  | 209,0  | -     | -     | -    | -    | 230,0 | - | - |
| 42                                                     | 95,0*   | 202,0  | -     | -     | -    | -    | 227,0 | - | - |
| 46                                                     | 75,3    | 195,0  | 230,0 | -     | -    | -    | 221,0 | - | - |
| 50                                                     | -       | -      | 226,0 | -     | -    | -    | 211,0 | - | - |
| 54                                                     | -       | -      | 212,0 | -     | -    | -    | 198,0 | - | - |
| 58                                                     | -       | -      | 195,0 | -     | -    | -    | 178,0 | - | - |
| 62                                                     | -       | -      | 180,0 | -     | -    | -    | 161,0 | - | - |
| 66                                                     | -       | -      | -     | 147,5 | -    | -    | 146,0 | - | - |
| 70                                                     | -       | -      | -     | 138,0 | -    | -    | 132,0 | - | - |
| 74                                                     | -       | -      | -     | 129,5 | -    | -    | 120,0 | - | - |
| 78                                                     | -       | -      | -     | 122,0 | -    | -    | 109,0 | - | - |
| 82                                                     | -       | -      | -     | -     | -    | -    | 99,5  | - | - |
| 86                                                     | -       | -      | -     | -     | 92,7 | -    | 90,5  | - | - |
| 90                                                     | -       | -      | -     | -     | 87,8 | -    | 82,0  | - | - |
| 94                                                     | -       | -      | -     | -     | -    | -    | 74,5  | - | - |
| 98                                                     | -       | -      | -     | -     | -    | -    | 65,5  | - | - |
| 102                                                    | -       | -      | -     | -     | -    | 56,8 | 56,5  | - | - |
| 106                                                    | -       | -      | -     | -     | -    | 53,5 | 48,2  | - | - |
| 110                                                    | -       | -      | -     | -     | -    | -    | 40,2  | - | - |
| 114                                                    | -       | -      | -     | -     | -    | -    | 36,1  | - | - |
| 118                                                    | -       | -      | -     | -     | -    | -    | 28,4  | - | - |

|     |      |       |       |       |       |       |
|-----|------|-------|-------|-------|-------|-------|
| 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-----|------|-------|-------|-------|-------|-------|

| 96 m + 48 m      |         |        |       |       |      |     |       |   |   |
|------------------|---------|--------|-------|-------|------|-----|-------|---|---|
| SWSL SFSL        |         |        |       |       |      |     |       |   |   |
| 0 t 80 t - 450 t |         |        |       |       |      |     |       |   |   |
| m                | t       | t      | t     | t     | t    | t   | t     | t | t |
| 87°/85°          | 87°/85° | 75°    | 65°   | 55°   | 45°  | 15° |       |   |   |
| 20               | 178,5*  | 190,0* | -     | -     | -    | -   | -     | - | - |
| 22               | 167,5*  | 190,0* | -     | -     | -    | -   | -     | - | - |
| 24               | 155,5*  | 187,5* | -     | -     | -    | -   | -     | - | - |
| 26               | 144,5*  | 193,0  | -     | -     | -    | -   | 186,0 | - | - |
| 28               | 135,0*  | 192,0  | -     | -     | -    | -   | 186,0 | - | - |
| 30               | 126,5*  | 190,0  | -     | -     | -    | -   | 186,0 | - | - |
| 34               | 112,5*  | 184,5  | -     | -     | -    | -   | 186,0 | - | - |
| 38               | 100,5*  | 178,0  | -     | -     | -    | -   | 186,0 | - | - |
| 42               | 90,8*   | 172,0  | -     | -     | -    | -   | 186,0 | - | - |
| 46               | 81,4*   | 166,0  | -     | -     | -    | -   | 183,0 | - | - |
| 50               | 71,8*   | 161,0  | 189,0 | -     | -    | -   | 181,0 | - | - |
| 54               | 63,6*   | 155,5  | 187,5 | -     | -    | -   | 176,0 | - | - |
| 58               | -       | -      | 182,0 | -     | -    | -   | 169,0 | - | - |
| 62               | -       | -      | 177,5 | -     | -    | -   | 164,0 | - | - |
| 66               | -       | -      | 165,0 | -     | -    | -   | 149,0 | - | - |
| 70               | -       | -      | 153,5 | -     | -    | -   | 135,0 | - | - |
| 74               | -       | -      | 143,5 | 125,0 | -    | -   | 123,0 | - | - |
| 78               | -       | -      | -     | 117,0 | -    | -   | 112,0 | - | - |
| 82               | -       | -      | -     | 110,5 | -    | -   | 102,0 | - | - |
| 86               | -       | -      | -     | 104,0 | -    | -   | 93,0  | - | - |
| 90               | -       | -      | -     | 98,9  | -    | -   | 84,5  | - | - |
| 94               | -       | -      | -     | -     | 78,3 | -   | 77,0  | - | - |
| 98               | -       | -      | -     | -     | 74,2 | -   | 70,0  | - | - |
| 102              | -       | -      | -     | -     | 70,6 | -   | 63,0  | - | - |
| 106              | -       | -      | -     | -     | -    | -   | 55,5  | - | - |
| 110              | -       | -      | -     | -     | -    | -   | 47,9  | - | - |
| 114              | -       | -      | -     | -     | -    | -   | 40,7  | - | - |
| 118              | -       | -      | -     | -     | -    | -   | 33,8  | - | - |
| 122              | -       | -      | -     | -     | -    | -   | 30,3  | - | - |
| 126              | -       | -      | -     | -     | -    | -   | 23,8  | - | - |
| 130              | -       | -      | -     | -     | -    | -   | 17,3  | - | - |

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ángulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ángulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |         |       |       |      |      |       |   |   |
|--------------------------------------------------------|---------|---------|-------|-------|------|------|-------|---|---|
| 96 m + 60 m                                            |         |         |       |       |      |      |       |   |   |
| SWSL SFSL                                              |         |         |       |       |      |      |       |   |   |
| 0 t 80 t - 450 t                                       |         |         |       |       |      |      |       |   |   |
| m                                                      | 87°/85° | 87°/85° | 75°   | 65°   | 55°  | 45°  | 15°   |   |   |
| 24                                                     | 143,0*  | 154,5*  | -     | -     | -    | -    | -     | - | - |
| 26                                                     | 135,5*  | 153,0*  | -     | -     | -    | -    | -     | - | - |
| 28                                                     | 126,5*  | 151,5*  | -     | -     | -    | -    | -     | - | - |
| 30                                                     | 118,5*  | 156,5   | -     | -     | -    | -    | 150,0 | - | - |
| 34                                                     | 105,0*  | 153,5   | -     | -     | -    | -    | 150,0 | - | - |
| 38                                                     | 93,9*   | 150,0   | -     | -     | -    | -    | 150,0 | - | - |
| 42                                                     | 84,4*   | 145,5   | -     | -     | -    | -    | 150,0 | - | - |
| 46                                                     | 76,3*   | 141,5   | -     | -     | -    | -    | 150,0 | - | - |
| 50                                                     | 69,4*   | 137,0   | -     | -     | -    | -    | 150,0 | - | - |
| 54                                                     | 63,4*   | 133,0   | -     | -     | -    | -    | 148,0 | - | - |
| 58                                                     | 57,4*   | 129,0   | 152,5 | -     | -    | -    | 146,0 | - | - |
| 62                                                     | 51,2*   | 125,5   | 150,5 | -     | -    | -    | 140,0 | - | - |
| 66                                                     | 39,8    | 121,5   | 148,0 | -     | -    | -    | 136,0 | - | - |
| 70                                                     | -       | -       | 143,5 | -     | -    | -    | 132,0 | - | - |
| 74                                                     | -       | -       | 140,5 | -     | -    | -    | 127,0 | - | - |
| 78                                                     | -       | -       | 135,0 | -     | -    | -    | 116,0 | - | - |
| 82                                                     | -       | -       | 127,0 | 108,5 | -    | -    | 106,0 | - | - |
| 86                                                     | -       | -       | -     | 102,0 | -    | -    | 97,0  | - | - |
| 90                                                     | -       | -       | -     | 96,8  | -    | -    | 89,0  | - | - |
| 94                                                     | -       | -       | -     | 91,6  | -    | -    | 81,0  | - | - |
| 98                                                     | -       | -       | -     | 86,9  | -    | -    | 74,0  | - | - |
| 102                                                    | -       | -       | -     | -     | 68,0 | -    | 67,5  | - | - |
| 106                                                    | -       | -       | -     | -     | 64,5 | -    | 61,5  | - | - |
| 110                                                    | -       | -       | -     | -     | 61,3 | -    | 55,5  | - | - |
| 114                                                    | -       | -       | -     | -     | 58,0 | -    | 48,9  | - | - |
| 118                                                    | -       | -       | -     | -     | -    | -    | 42,2  | - | - |
| 122                                                    | -       | -       | -     | -     | -    | 35,1 | 35,8  | - | - |
| 126                                                    | -       | -       | -     | -     | -    | 32,9 | 29,5  | - | - |
| 130                                                    | -       | -       | -     | -     | -    | -    | 26,3  | - | - |
| 134                                                    | -       | -       | -     | -     | -    | -    | 20,7  | - | - |
| 138                                                    | -       | -       | -     | -     | -    | -    | 14,9  | - | - |
| 142                                                    | -       | -       | -     | -     | -    | -    | 9,1   | - | - |

|     |      |       |       |       |       |       |
|-----|------|-------|-------|-------|-------|-------|
| 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-----|------|-------|-------|-------|-------|-------|

| 96 m + 72 m      |         |         |       |      |      |      |       |   |   |
|------------------|---------|---------|-------|------|------|------|-------|---|---|
| SWSL SFSL        |         |         |       |      |      |      |       |   |   |
| 0 t 80 t - 450 t |         |         |       |      |      |      |       |   |   |
| m                | 87°/85° | 87°/85° | 75°   | 65°  | 55°  | 45°  | 15°   |   |   |
| 26               | 118,5*  | 124,5*  | -     | -    | -    | -    | -     | - | - |
| 28               | 115,0*  | 123,5*  | -     | -    | -    | -    | -     | - | - |
| 30               | 110,0*  | 122,5*  | -     | -    | -    | -    | -     | - | - |
| 32               | 103,5*  | 125,5   | -     | -    | -    | -    | -     | - | - |
| 34               | 97,0*   | 125,0   | -     | -    | -    | -    | 121,0 | - | - |
| 38               | 86,3*   | 123,5   | -     | -    | -    | -    | 121,0 | - | - |
| 42               | 77,3*   | 121,0   | -     | -    | -    | -    | 121,0 | - | - |
| 46               | 69,6*   | 118,5   | -     | -    | -    | -    | 121,0 | - | - |
| 50               | 62,9*   | 115,0   | -     | -    | -    | -    | 121,0 | - | - |
| 54               | 57,1*   | 112,0   | -     | -    | -    | -    | 121,0 | - | - |
| 58               | 52,0*   | 109,0   | -     | -    | -    | -    | 121,0 | - | - |
| 62               | 47,3*   | 106,0   | 121,0 | -    | -    | -    | 119,0 | - | - |
| 66               | 42,1*   | 103,5   | 121,0 | -    | -    | -    | 116,0 | - | - |
| 70               | 37,5*   | 100,5   | 119,5 | -    | -    | -    | 111,0 | - | - |
| 74               | 33,4*   | 97,9    | 118,0 | -    | -    | -    | 108,0 | - | - |
| 78               | 24,5    | 95,2    | 115,5 | -    | -    | -    | 105,0 | - | - |
| 82               | -       | -       | 112,5 | -    | -    | -    | 103,0 | - | - |
| 86               | -       | -       | 110,5 | -    | -    | -    | 98,5  | - | - |
| 90               | -       | -       | 108,5 | 92,3 | -    | -    | 90,0  | - | - |
| 94               | -       | -       | 102,5 | 87,2 | -    | -    | 82,5  | - | - |
| 98               | -       | -       | -     | 82,5 | -    | -    | 75,0  | - | - |
| 102              | -       | -       | -     | 78,2 | -    | -    | 68,5  | - | - |
| 106              | -       | -       | -     | 74,2 | -    | -    | 62,5  | - | - |
| 110              | -       | -       | -     | 70,6 | -    | -    | 56,5  | - | - |
| 114              | -       | -       | -     | -    | 52,6 | -    | 51,5  | - | - |
| 118              | -       | -       | -     | -    | 49,5 | -    | 45,6  | - | - |
| 122              | -       | -       | -     | -    | 46,6 | -    | 39,6  | - | - |
| 126              | -       | -       | -     | -    | 43,9 | -    | 33,7  | - | - |
| 130              | -       | -       | -     | -    | -    | -    | 28,1  | - | - |
| 134              | -       | -       | -     | -    | -    | 24,5 | 23,6  | - | - |
| 138              | -       | -       | -     | -    | -    | 22,7 | 19,5  | - | - |
| 142              | -       | -       | -     | -    | -    | -    | 14,9  | - | - |
| 146              | -       | -       | -     | -    | -    | -    | 9,9   | - | - |

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung  
IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les  
positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono  
calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma  
intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°, as capacidades para  
posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 170-250 t + 0-80 t 15-24 m 9,60 m 9.8 m/s 360° EN13000 |         |         |              |      |      |      |      |   |   |
|--------------------------------------------------------|---------|---------|--------------|------|------|------|------|---|---|
| 96 m + 84 m                                            |         |         |              |      |      |      |      |   |   |
| m                                                      | SWSL    |         |              |      |      |      | SFSL |   |   |
|                                                        | 0 t     |         | 80 t - 450 t |      |      |      |      |   |   |
|                                                        | 87°/85° | 87°/85° | 75°          | 65°  | 55°  | 45°  | 15°  |   |   |
| 30                                                     | 96,6*   | 99,9*   | -            | -    | -    | -    | -    | - | - |
| 34                                                     | 90,8*   | 98,4*   | -            | -    | -    | -    | -    | - | - |
| 36                                                     | 85,7*   | 100,5   | -            | -    | -    | -    | -    | - | - |
| 38                                                     | 80,6*   | 100,5   | -            | -    | -    | -    | 97,0 | - | - |
| 42                                                     | 71,9*   | 99,2    | -            | -    | -    | -    | 97,0 | - | - |
| 46                                                     | 64,5*   | 97,7    | -            | -    | -    | -    | 97,0 | - | - |
| 50                                                     | 58,2*   | 95,9    | -            | -    | -    | -    | 97,0 | - | - |
| 54                                                     | 52,5*   | 93,9    | -            | -    | -    | -    | 97,0 | - | - |
| 58                                                     | 47,6*   | 91,7    | -            | -    | -    | -    | 97,0 | - | - |
| 62                                                     | 43,2*   | 89,6    | -            | -    | -    | -    | 97,0 | - | - |
| 66                                                     | 39,3*   | 87,4    | 96,5         | -    | -    | -    | 97,0 | - | - |
| 70                                                     | 35,5*   | 85,4    | 96,5         | -    | -    | -    | 96,0 | - | - |
| 74                                                     | 31,4*   | 83,3    | 95,9         | -    | -    | -    | 92,0 | - | - |
| 78                                                     | 27,8*   | 81,3    | 95,7         | -    | -    | -    | 89,5 | - | - |
| 82                                                     | 24,5*   | 79,2    | 94,0         | -    | -    | -    | 87,0 | - | - |
| 86                                                     | 21,5*   | 77,2    | 93,1         | -    | -    | -    | 85,5 | - | - |
| 90                                                     | 14,2    | 75,1    | 92,2         | -    | -    | -    | 83,5 | - | - |
| 94                                                     | -       | -       | 89,6         | 82,7 | -    | -    | 82,0 | - | - |
| 98                                                     | -       | -       | 88,1         | 79,1 | -    | -    | 77,0 | - | - |
| 102                                                    | -       | -       | 86,6         | 74,8 | -    | -    | 70,0 | - | - |
| 106                                                    | -       | -       | 85,1         | 70,9 | -    | -    | 64,0 | - | - |
| 110                                                    | -       | -       | -            | 67,2 | -    | -    | 58,0 | - | - |
| 114                                                    | -       | -       | -            | 63,8 | -    | -    | 53,0 | - | - |
| 118                                                    | -       | -       | -            | 60,7 | -    | -    | 48,0 | - | - |
| 122                                                    | -       | -       | -            | 57,8 | 43,0 | -    | 43,3 | - | - |
| 126                                                    | -       | -       | -            | -    | 40,4 | -    | 37,8 | - | - |
| 130                                                    | -       | -       | -            | -    | 37,9 | -    | 32,4 | - | - |
| 134                                                    | -       | -       | -            | -    | 35,6 | -    | 27,2 | - | - |
| 138                                                    | -       | -       | -            | -    | 33,4 | -    | 22,2 | - | - |
| 142                                                    | -       | -       | -            | -    | -    | 17,2 | 17,7 | - | - |
| 146                                                    | -       | -       | -            | -    | -    | 15,7 | 14,0 | - | - |
| 150                                                    | -       | -       | -            | -    | -    | 14,3 | 10,5 | - | - |
| 154                                                    | -       | -       | -            | -    | -    | -    | 6,1  | - | - |

|     |      |       |       |       |       |       |
|-----|------|-------|-------|-------|-------|-------|
| 0 t | 80 t | 160 t | 240 t | 320 t | 400 t | 450 t |
|-----|------|-------|-------|-------|-------|-------|

| 96 m + 96 m |         |         |              |      |      |     |      |   |   |
|-------------|---------|---------|--------------|------|------|-----|------|---|---|
| m           | SWSL    |         |              |      |      |     | SFSL |   |   |
|             | 0 t     |         | 80 t - 450 t |      |      |     |      |   |   |
|             | 87°/85° | 87°/85° | 75°          | 65°  | 55°  | 45° | 15°  |   |   |
| 32          | 74,9*   | 77,7*   | -            | -    | -    | -   | -    | - | - |
| 34          | 74,9*   | 77,4*   | -            | -    | -    | -   | -    | - | - |
| 38          | 72,3*   | 77,6    | -            | -    | -    | -   | -    | - | - |
| 42          | 66,4*   | 77,2    | -            | -    | -    | -   | 75,0 | - | - |
| 46          | 59,3*   | 76,4    | -            | -    | -    | -   | 75,0 | - | - |
| 50          | 53,2*   | 75,4    | -            | -    | -    | -   | 75,0 | - | - |
| 54          | 47,8*   | 74,2    | -            | -    | -    | -   | 75,0 | - | - |
| 58          | 43,0*   | 72,8    | -            | -    | -    | -   | 75,0 | - | - |
| 62          | 38,7*   | 71,3    | -            | -    | -    | -   | 75,0 | - | - |
| 66          | 35,0*   | 69,9    | -            | -    | -    | -   | 74,5 | - | - |
| 70          | 31,5*   | 68,4    | 72,1         | -    | -    | -   | 74,5 | - | - |
| 74          | 28,4*   | 66,9    | 72,1         | -    | -    | -   | 74,0 | - | - |
| 78          | 25,5*   | 65,5    | 72,1         | -    | -    | -   | 71,5 | - | - |
| 82          | 22,2*   | 64,1    | 72,1         | -    | -    | -   | 69,5 | - | - |
| 86          | 19,3*   | 62,7    | 71,6         | -    | -    | -   | 67,5 | - | - |
| 90          | 16,6*   | 61,3    | 71,2         | -    | -    | -   | 66,0 | - | - |
| 94          | 14,1*   | 59,9    | 70,9         | -    | -    | -   | 64,5 | - | - |
| 98          | 11,8*   | 58,4    | 70,0         | -    | -    | -   | 63,5 | - | - |
| 102         | 5,5     | 57,0    | 69,2         | 61,5 | -    | -   | 62,0 | - | - |
| 106         | -       | -       | 68,4         | 61,5 | -    | -   | 60,5 | - | - |
| 110         | -       | -       | 67,6         | 61,5 | -    | -   | 59,5 | - | - |
| 114         | -       | -       | 65,8         | 60,5 | -    | -   | 54,0 | - | - |
| 118         | -       | -       | 65,0         | 57,4 | -    | -   | 49,1 | - | - |
| 122         | -       | -       | -            | 54,5 | -    | -   | 44,4 | - | - |
| 126         | -       | -       | -            | 51,7 | -    | -   | 40,0 | - | - |
| 130         | -       | -       | -            | 49,1 | 34,3 | -   | 35,4 | - | - |
| 134         | -       | -       | -            | 46,7 | 32,0 | -   | 30,4 | - | - |
| 138         | -       | -       | -            | -    | 29,9 | -   | 25,6 | - | - |
| 142         | -       | -       | -            | -    | 27,9 | -   | 21,0 | - | - |
| 146         | -       | -       | -            | -    | 25,9 | -   | 16,5 | - | - |
| 150         | -       | -       | -            | -    | 24,1 | -   | 12,2 | - | - |
| 154         | -       | -       | -            | -    | -    | 9,1 | 8,7  | - | - |
| 158         | -       | -       | -            | -    | -    | 7,8 | 5,5  | - | - |
| 162         | -       | -       | -            | -    | -    | 6,6 | -    | - | - |

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ángulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ángulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

|  170-250 t +  0-80 t  15-24 m  9,60 m  9.8 m/s 360° EN13000 |       |       |      |      |      |   |   |      |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|------|------|---|---|------|---|
|  96 m +  108 m                                                                                                                                                                                                                                                                                                  |       |       |      |      |      |   |   |      |   |
| <div> <div>SWSL</div> <div>SFSL</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |       |      |      |      |   |   |      |   |
| <div> <div>0 t</div> <div>80 t - 450 t</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                               |       |       |      |      |      |   |   |      |   |
| <div> <div>87°/85°</div> <div>87°/85°</div> <div>75°</div> <div>65°</div> <div>55°</div> <div>45°</div> <div>15°</div> </div>                                                                                                                                                                                                                                                                                                                                                     |       |       |      |      |      |   |   |      |   |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | t     | t     | t    | t    | t    | t | t | t    | t |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 56,8* | 59,4* | -    | -    | -    | - | - | -    | - |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 56,8* | 58,9* | -    | -    | -    | - | - | -    | - |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 56,3* | 58,9  | -    | -    | -    | - | - | -    | - |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 53,4* | 58,6  | -    | -    | -    | - | - | 57,0 | - |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 48,3* | 57,9  | -    | -    | -    | - | - | 57,0 | - |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 43,2* | 57,1  | -    | -    | -    | - | - | 57,0 | - |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 38,5* | 56,3  | -    | -    | -    | - | - | 57,0 | - |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 34,5* | 55,4  | -    | -    | -    | - | - | 57,0 | - |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30,7* | 54,4  | -    | -    | -    | - | - | 56,5 | - |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 27,5* | 53,4  | -    | -    | -    | - | - | 56,0 | - |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24,4* | 52,3  | -    | -    | -    | - | - | 55,5 | - |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 21,7* | 51,3  | 53,1 | -    | -    | - | - | 55,0 | - |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 19,2* | 50,3  | 53,1 | -    | -    | - | - | 54,0 | - |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16,9* | 49,3  | 53,1 | -    | -    | - | - | 52,5 | - |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14,5* | 48,2  | 53,1 | -    | -    | - | - | 51,0 | - |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12,0* | 47,2  | 53,0 | -    | -    | - | - | 50,5 | - |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9,7*  | 46,2  | 53,0 | -    | -    | - | - | 49,6 | - |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7,6*  | 45,2  | 52,6 | -    | -    | - | - | 48,8 | - |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5,7*  | 44,1  | 52,5 | -    | -    | - | - | 48,0 | - |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | 43,1  | 52,4 | 44,5 | -    | - | - | 47,2 | - |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | 42,1  | 52,2 | 44,5 | -    | - | - | 46,4 | - |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -     | 51,3 | 44,5 | -    | - | - | 45,6 | - |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -     | 51,0 | 44,1 | -    | - | - | 44,7 | - |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -     | 50,8 | 44,1 | -    | - | - | 40,9 | - |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -     | 50,5 | 44,1 | -    | - | - | 36,7 | - |
| 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -     | -    | 43,7 | -    | - | - | 32,9 | - |
| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -     | -    | 41,4 | 26,5 | - | - | 28,2 | - |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -     | -    | 39,1 | 24,5 | - | - | 23,7 | - |
| 146                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -     | -    | 36,8 | 22,6 | - | - | 19,4 | - |
| 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -     | -    | -    | 20,8 | - | - | 15,2 | - |
| 154                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -     | -    | -    | 19,1 | - | - | 11,2 | - |
| 158                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -     | -    | -    | 17,5 | - | - | 7,2  | - |
| 162                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -     | -    | -    | 15,9 | - | - | -    | - |

\* Main boom angle 87° · Hauptauslegerwinkel 87° · Jarret de flèche principale 87° · Inclinazione braccio base 87° ·  
Ângulo de pluma principal 87° · Ângulo da lança principal 87° · Угол подъема гл. стрелы 87°

Main boom angle 87°, 85°, 75°, 65°, 55° and 45°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65°, 55° und 45°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65°, 55° et 45°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65°, 55° e 45°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65°, 55° y 45° las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65°, 55° e 45°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65°, 55° и 45°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

## Notes

Notizen · Notes · Nota · Notas · Notas · пометы, комментарии, примечания

A technical line drawing of a fixed fly jib crane. The crane is mounted on a crawler base. The jib is a long, lattice-structured arm that extends diagonally upwards. It has a fixed fly mechanism, meaning the jib can rotate horizontally but not vertically. The drawing shows the internal truss structure of the jib and the base. The background is a solid blue color.

# FIXED FLY JIB WITH SL

STARRER HILFSAUSLEGER MIT SL

FLÉCHETTE FIXE AVEC SL

FALCONE FISSO CON SL

PLUMÍN FIJO CON SL

LANÇA AUXILIAR FIXA COM SL

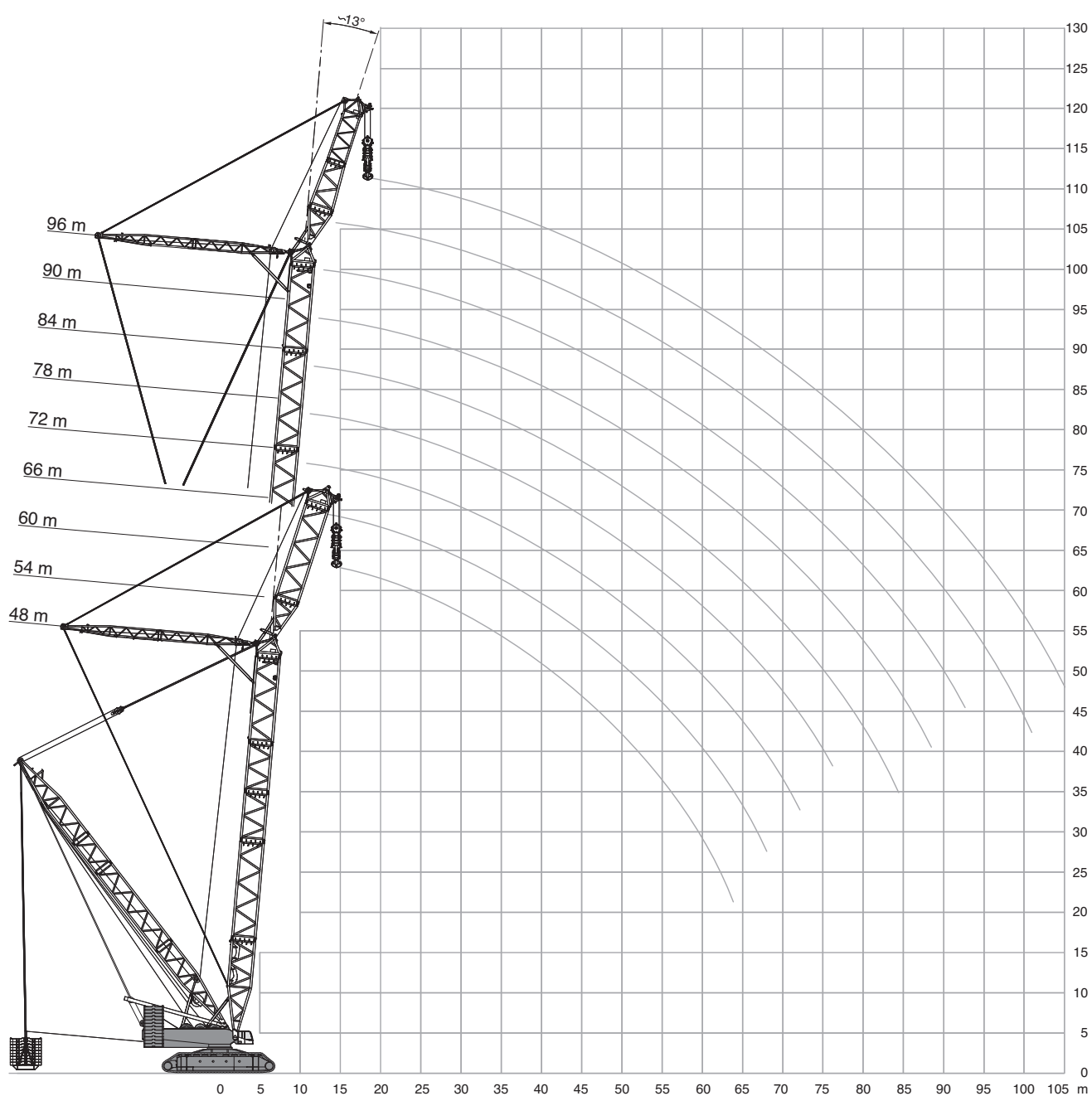
НЕПОДВИЖНАЯ СТРЕЛА С ИЗМЕНЯЕМЫМ ВЫЛЕТОМ С SL



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SFVL, LFVL



# Operation

# SFVL, LFVL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 170-250 t + 0-80 t 15-24 m 18 m 13° 9,60 m 9.8 m/s 360° EN13000 |       |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
|-----------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|--|
| 48 m                                                            |       | 54 m  |       | 60 m  |       | 66 m  |       | 72 m  |       | 78 m  | 84 m  | 90 m  | 96 m  |     |  |
| LFVL                                                            | SFVL  | LFVL  | SFVL  | LFVL  | SFVL  | LFVL  | SFVL  | LFVL  | SFVL  | LFVL  |       |       |       |     |  |
| m                                                               | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | m   |  |
| 14                                                              | 506,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 14  |  |
| 15                                                              | 506,0 | 752,0 | 506,0 | 679,0 | 506,0 | -     | -     | -     | -     | -     | -     | -     | -     | 15  |  |
| 16                                                              | 506,0 | 743,0 | 506,0 | 679,0 | 506,0 | 620,0 | 506,0 | 561,0 | 506,0 | -     | -     | -     | -     | 16  |  |
| 17                                                              | 506,0 | 726,0 | 506,0 | 671,0 | 506,0 | 612,0 | 506,0 | 561,0 | 506,0 | 504,0 | 458,0 | 412,0 | -     | 17  |  |
| 18                                                              | 506,0 | 702,0 | 506,0 | 671,0 | 506,0 | 612,0 | 506,0 | 561,0 | 506,0 | 504,0 | 458,0 | 412,0 | 371,0 | 18  |  |
| 19                                                              | 506,0 | 679,0 | 506,0 | 661,0 | 506,0 | 603,0 | 506,0 | 552,0 | 506,0 | 504,0 | 458,0 | 412,0 | 371,0 | 19  |  |
| 20                                                              | 506,0 | 658,0 | 506,0 | 643,0 | 506,0 | 603,0 | 506,0 | 552,0 | 506,0 | 497,0 | 458,0 | 412,0 | 371,0 | 20  |  |
| 22                                                              | 506,0 | 609,0 | 506,0 | 605,0 | 506,0 | 595,0 | 506,0 | 543,0 | 506,0 | 495,0 | 458,0 | 412,0 | 371,0 | 22  |  |
| 24                                                              | 506,0 | 554,0 | 506,0 | 550,0 | 506,0 | 546,0 | 506,0 | 535,0 | 495,0 | 488,0 | 451,0 | 411,0 | 371,0 | 24  |  |
| 26                                                              | 501,0 | 507,0 | 504,0 | 503,0 | 501,0 | 499,0 | 506,0 | 495,0 | 487,0 | 480,0 | 444,0 | 405,0 | 371,0 | 26  |  |
| 28                                                              | 480,0 | 467,0 | 476,0 | 463,0 | 473,0 | 459,0 | 470,0 | 455,0 | 466,0 | 451,0 | 439,0 | 399,0 | 365,0 | 28  |  |
| 30                                                              | 444,0 | 432,0 | 441,0 | 428,0 | 437,0 | 423,0 | 434,0 | 420,0 | 431,0 | 415,0 | 427,0 | 395,0 | 360,0 | 30  |  |
| 34                                                              | 387,0 | 374,0 | 383,0 | 370,0 | 379,0 | 365,0 | 376,0 | 362,0 | 373,0 | 357,0 | 369,0 | 366,0 | 356,0 | 34  |  |
| 38                                                              | 341,0 | 328,0 | 337,0 | 324,0 | 333,0 | 320,0 | 330,0 | 316,0 | 326,0 | 311,0 | 323,0 | 319,0 | 316,0 | 38  |  |
| 42                                                              | 295,0 | 281,0 | 300,0 | 287,0 | 296,0 | 282,0 | 293,0 | 279,0 | 289,0 | 274,0 | 286,0 | 282,0 | 279,0 | 42  |  |
| 46                                                              | 253,0 | 240,0 | 269,0 | 256,0 | 265,0 | 252,0 | 262,0 | 248,0 | 258,0 | 243,0 | 255,0 | 251,0 | 247,0 | 46  |  |
| 50                                                              | 220,0 | 211,0 | 235,0 | 221,0 | 239,0 | 226,0 | 236,0 | 222,0 | 232,0 | 217,0 | 229,0 | 225,0 | 221,0 | 50  |  |
| 54                                                              | 194,0 | 182,0 | 204,0 | 190,0 | 216,0 | 201,0 | 213,0 | 200,0 | 210,0 | 195,0 | 206,0 | 202,0 | 199,0 | 54  |  |
| 58                                                              | 165,0 | 154,0 | 178,0 | 169,0 | 188,0 | 174,0 | 193,0 | 180,0 | 190,0 | 177,0 | 187,0 | 183,0 | 180,0 | 58  |  |
| 62                                                              | 146,0 | 135,0 | 158,0 | 146,0 | 164,0 | 150,0 | 171,0 | 157,0 | 173,0 | 160,0 | 170,0 | 167,0 | 163,0 | 62  |  |
| 66                                                              | -     | -     | 134,0 | 123,0 | 146,0 | 136,0 | 150,0 | 136,0 | 156,0 | 141,0 | 156,0 | 152,0 | 148,0 | 66  |  |
| 70                                                              | -     | -     | -     | -     | 127,0 | 115,0 | 132,0 | 122,0 | 137,0 | 122,0 | 141,0 | 139,0 | 135,0 | 70  |  |
| 74                                                              | -     | -     | -     | -     | -     | -     | 118,0 | 106,0 | 119,0 | 107,0 | 125,0 | 127,0 | 124,0 | 74  |  |
| 78                                                              | -     | -     | -     | -     | -     | -     | -     | -     | 108,0 | 96,5  | 109,0 | 112,0 | 113,0 | 78  |  |
| 82                                                              | -     | -     | -     | -     | -     | -     | -     | -     | 93,5  | 81,0  | 97,5  | 98,5  | 100,0 | 82  |  |
| 86                                                              | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 86,5  | 86,5  | 88,0  | 86  |  |
| 90                                                              | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 78,0  | 76,0  | 90  |  |
| 94                                                              | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 69,5  | 94  |  |
| 98                                                              | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 59,0  | 98  |  |
| 102                                                             | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 102 |  |

0 t

80 t

160 t

240 t

320 t

400 t

450 t



0 t 80 t 160 t 240 t 320 t 400 t 450 t

# Notes to Lifting Capacity

Anmerkungen zu den Tragfähigkeiten · Conditions d'utilisation ·

Annotazioni sulle portate · Condiciones de utilización ·

Notas sobre capacidade de içamento · Примечания по грузоподъемности

Ratings are in compliance with EN 13000.

Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings.  
Consult operation manual for further details.

**Note:** Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes.  
Crane operation is subject to the computer charts and operation manual both supplied with the crane.

In some instances the superlift counterweight does not lift off the ground with the indicated load.

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Tragfähigkeiten entsprechen EN 13000.

Das Gewicht der Unterflaschen, sowie die Lastaufnahmemittel, sind Bestandteile der Last und sind von den Tragfähigkeitsangaben abzuziehen.

Weitere Angaben in der Bedienungsanleitung des Kranes.

**Anmerkung:** Die Daten dieser Broschüre dienen nur zur allgemeinen Information; für ihre Richtigkeit übernehmen wir keine Haftung.  
Der Betrieb des Kranes ist nur mit den Original-Tragfähigkeitstabellen und mit der Bedienungsanleitung zulässig, die mit dem Kran mitgeliefert werden.

In einigen Fällen hebt das Superliftgegengewicht bei den angegebenen Traglasten nicht ab.

---

Le tableau de charges est conforme à la norme EN 13000.

Les poids du crochet-moufle et de tous les accessoires d'élégage font partie de la charge et sont à déduire des charges indiquées.  
Pour plus de détails consulter la notice d'utilisation de la grue.

**Nota :** Les renseignements ci-inclus sont donnés à titre indicatif et ne représentent aucune garantie d'utilisation pour les opérations de levage. La mise en service de la grue n'est autorisée qu'à condition que les tableaux de charges ainsi que le manuel de service, tels que fournis avec la grue, soient observés.

Le contrepoids du superlift ne décolle pas dans certaines configurations des tableaux de charge.

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Le portate sono conformi alla norma EN 13000.

Il peso del bozzello e delle funi d'attacco fanno parte del carico e sono quindi da detrarre dai valori di tabella.  
Per ulteriori dettagli sulla velocità vento, consultare il manuale di istruzione della gru.

**Nota:** I dati riportati su tale prospetto sono solo a titolo indicativo e pertanto non impegnativi. L'impiego della gru è ammesso solo rispettando le tabelle originali ed il manuale di uso fornito assieme alla gru.

In alcuni casi, con il carico indicato, il contrappeso Superlift non si solleva dal suolo.

---

Las capacidades de carga están sujetas a las normas EN 13000.

El peso de los ganchos y eslingas son parte de la carga y serán deducidos de las capacidades brutas.  
Consultar los manuales de operación para ampliar información.

**Observación:** Los datos publicados son solamente orientativos y no se deben interpretar como garantía de aplicación para determinadas operaciones de elevación. La manipulación de la grúa está sujeta a las cargas programadas en el ordenador y en el manual de operaciones, ambos suministrados con la grúa.

En algunos casos, el contrapeso superlift no se eleva del suelo con la carga indicada.

---

Valores nominais de acordo com a EN 13000.

O peso dos moitões e eslingas faz parte da carga e tem de ser subtraído das capacidades nominais.  
Consultar manual de operação para outros detalhes.

**Nota:** Os dados publicados aqui destinam-se a simples orientação e não devem ser interpretados como garantia de aplicabilidade para fins de içamento. A operação da grua depende de tabelas de computador e do manual de operação, ambos fornecidos com a máquina.

Em alguns casos, o contrapeso do Superlift não levanta do solo com a carga indicada.

---

Номинальные значения соответствуют EN 13000.

Вес крюкоблока и строп является частью груза и должен вычитаться из номинальных значений грузоподъемности.  
Подробности см. в руководстве по эксплуатации.

**Примечание.** Публикуемые в настоящем издании данные приводятся только для справки и не должны использоваться при расчете нагрузки. При эксплуатации крана должны применяться компьютерные таблицы и руководство по эксплуатации, входящие в комплект поставки крана.

В некоторых случаях противовес системы суперлифт не может быть поднят с земли с указанной нагрузкой.



# TECHNICAL DESCRIPTION

TECHNISCHE BESCHREIBUNG

DESCRIPTIF TECHNIQUE

DESCRIZIONE TECNICA

DESCRIPCIÓN TÉCNICA

DESCRIÇÃO TÉCNICA

ТЕХНИЧЕСКОЕ ОПИСАНИЕ



# Technical Description

## Crawler carrier

3-section carrier comprising of carbody with folded outriggers for the transport and two crawlers. Hydraulic pin connections between crawlers and carbody provide for easy assembly and removal to minimise width and weight for transportation.

|                            |                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Center pot</b>          | Bending- and torsion-resistant welded structure fabricated from high-strength fine grain structural steel.                                                                                                                                                                                                                                                                                       |
| <b>Crawler side frames</b> | Bending-resistant welded structure fabricated from high-strength fine grain structural steel. Centralized lubrication included as standard.                                                                                                                                                                                                                                                      |
| <b>Crawlers</b>            | 15 track rollers with hardened rolling surfaces. Raised position for both drive sprockets and idler wheels, drive sprockets and idler wheels provide load bearing capacity for erection, adjustable track tension. Each crawler is infinitely variable controlled, both independently and in opposite direction.                                                                                 |
| <b>Power train</b>         | The tracks are powered by two hydraulic motors each through closed planetary gear units running in oil bath, equipped with spring-applied hydraulically released holding brakes. The gear units are of extremely compact design to fit within the width of the crawlers. Each crawler is infinitely variable controlled, both independently and in opposite direction. Quadro-Drive as standard. |
| <b>Central ballast</b>     | 80 t.                                                                                                                                                                                                                                                                                                                                                                                            |

## Superstructure

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Counterweight</b>                      | 250 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Frame</b>                              | Bending- and torsion-resistant welded structure fabricated from high-strength fine grain structural steel.                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Drive<br/>EU Stage V / EPA Tier 4f</b> | Two Mercedes-Benz diesel engines, type OM470LA, 6 cylinder, 2 x 320 kW (2 x 429 HP) at 1600 1/min, torque 2100 Nm at 1300 1/min. The engines comply with emission standard EU Stage V / EPA Tier 4f. Two pump distributions gearboxes with overall six variable displacement axial piston pumps and additional gear pumps. Stainless steel exhaust system with particle filter, SCR catalyzer and spark arrestor certificate. Engine cover for sound insulation.<br>Fuel: 1 x 1500 l, AdBlue: 2 x 85 l.                   |
| <b>Rope drums</b>                         | The standard superstructure equipment includes three rope drums – hoist 1, hoist 2 and boom hoist. The drums are powered by hydraulic motors through closed planetary gear units running in oil bath. All rope drums have spring-applied, hydraulically released multi-disk brakes and non-wearing hydraulic braking for load lowering. Rope ends H 1, 2, 3 and W 1, 2 equipped with quick-connect rope end fittings. Hoists H 1 and H 2 and A-frame with boom hoist are removable to minimise weight for transportation. |
| <b>A-frame</b>                            | Cylinders on superstructure to raise A-frame are included as standard.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Slew units</b>                         | Powered by four hydraulic motors through closed, planetary gear unit running in oil bath. Spring-applied, hydraulically released holding brake and non-wearing hydraulic braking.                                                                                                                                                                                                                                                                                                                                         |
| <b>Control system</b>                     | IC-1: Electronic proportional valve pilot control integrated in stored-program control system incl. diagnostics. Two colour monitors, load indicator operated via a touchscreen. Working speeds infinitely variable controlled by the lever position. Automatic power control for optimal utilisation of engine output. Standard working range limitation, ground pressure indicator as well as outrigger loading indicator.                                                                                              |
| <b>Cabin</b>                              | Comfortable cab with large windscreen and air-conditioning. Laminated glass all around, roof window, self-contained hot air heater, full instrumentation and crane controls. The cab can be tilted back for improved operator view of boom point. A camera system is installed to monitor the rope drums. For transportation, the cab swings in front of the superstructure to minimise width.                                                                                                                            |
| <b>Electrical equipment</b>               | 24 V system (2 batteries 12 V / 180 Ah).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Quick-connection</b>                   | Hydraulic quick-disconnect fittings on carrier and superstructure facilitate removal to minimise weight for transportation as standard.                                                                                                                                                                                                                                                                                                                                                                                   |

## Optional equipment

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| <b>Hydraulic cylinder A-frame</b> | For self-assembly of crawlers.                                     |
| <b>Sideways outriggers</b>        | For erection of long boom systems.                                 |
| <b>Counterweight carrier</b>      | Total weight max. 450 t, in combination with SL telescopic system. |
| <b>PC outriggers</b>              | Outrigger base 14 x 14 m. Alternatively to the crawlers.           |

Further options on request!

# Technical Description

## Boom configurations S and L

|                                    |                                                                                                                                                                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SH:</b>                         | Main boom: foot section 12 m, inserts 6 m, 10.5 m and 12 m (type 3328), boom head 1.5 m.<br>Main boom lengths: 36-96 m.                                                                                                                            |
| <b>SH / LH:<br/>(SGL variable)</b> | Main boom: foot sections 12 m, inserts 6 m, 10.5 m and 12 m (type 3328), tapered insert, extended by inserts 6 m and 12 m (type 2822), top section 7.5 m.<br>Main boom lengths: 48-108 m.                                                          |
| <b>LH:</b>                         | Main boom: foot section 12 m, insert 10.5 m (type 3328), tapered insert, extended by inserts 6 m and 12 m (type 2822), top section 7.5 m.<br>Main boom lengths: 48-114 m.                                                                          |
| <b>SW:</b>                         | Main boom: same as SH. Offset 87° to 65°.<br>Luffing fly jib: foot section 4.5 m, insert 12 m (type 3328), tapered insert, insert 6 m and inserts 12 m (type 2822), top section 7.5 m.<br>Main boom lengths: 42-60 m.<br>Fly jib lengths: 30-96 m. |
| <b>SSL:</b>                        | Main boom: same as SH. Superlift equipment.<br>Main boom lengths: 42-96 m.                                                                                                                                                                         |
| <b>SSL / LSL:<br/>(SGL 94.5 m)</b> | Main boom: foot section 12 m, inserts 6 m, 10.5 m and 12 m (type 2822), tapered insert, extended by inserts 6 m and 12 m (type 2822), top section 7.5 m. Superlift equipment.<br>Main boom lengths: 102-150 m.                                     |
| <b>SSL / LSL S1:</b>               | Main boom: same as SSL, extended by boom power-kit + jib top section.<br>Main boom lengths: 66-156 m.                                                                                                                                              |
| <b>SWSL / SFSL:</b>                | Main boom: same as SH. Offset 87° to 45°.<br>Luffing fly jib: same as SW. Superlift equipment.<br>Main boom lengths: 48-96 m.<br>Fly jib lengths: 30-108 m.                                                                                        |
| <b>SFVL:</b>                       | Main boom: same as SH. Superlift equipment.<br>Fixed jib: foot section 4.5 m, insert 12 m (type 3328), additional SFVL-head included.<br>Main boom lengths: 48-72 m.<br>Fly jib length: 18 m.                                                      |
| <b>LFVL:</b>                       | Main boom: same as SH. Superlift equipment.<br>Fixed jib: foot section 4.5 m, tapered insert, top section 7.5 m.<br>Main boom lengths: 48-96 m.<br>Fly jib length: 18 m.                                                                           |
| <b>+LF:</b>                        | In addition to main boom configuration SH, SSL, SH/LH, SSL/LSL, SSL/LSL S1.<br>Fly jib lengths: 15 m, 21 m, 27 m, 33 m.<br>Fly jib offset: 15°, 20°, 30°.<br>Runner on LF max. 24 t as standard.                                                   |
| <b>Pinning of boom</b>             | Hydraulic assisted pinning of boom sections is standard.                                                                                                                                                                                           |
| <b>Reeving winch</b>               | Mounted on superstructure.                                                                                                                                                                                                                         |
| <b>Operator aids</b>               | Electronic load indicator, hoist limit switch for boom movements, hydraulic boom backstops, anemometer.                                                                                                                                            |

## Optional equipment

|                                             |                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engine EU Stage IIIA / EPA Tier 3</b>    | <b>Optional for non-regulated markets:</b> Two Mercedes-Benz diesel engines, type OM460LA, 6 cylinder, 2 x 315 kW (2 x 422 HP) at 1800 1/min, torque 2000 Nm at 1300 1/min. The engines comply with emission standard EU Stage IIIA / EPA Tier 3. Stainless steel exhaust system with spark arrestor.<br>Fuel: 1 x 1500 l. |
| <b>Power-kit for main boom S1</b>           | Consisting of max. 3 additional boom sections (2 of main boom, 1 of jib); Standard main boom 96 m required.                                                                                                                                                                                                                |
| <b>Standard Superlift equipment</b>         | Mast 40.5 m (type 2322), counterweight tray for max. 450 t. Superlift radii 15 m, 18 m, 21 m, 24 m.                                                                                                                                                                                                                        |
| <b>Variable Superlift equipment</b>         | Mast 40.5 m (type 2322), counterweight tray for max 450 t. Superlift radius infinitely variable during operation 15 to 24 m. Vertical cylinder and stabilising system for Superlift counterweight.                                                                                                                         |
| <b>Superlift with counterweight carrier</b> | Mast 40.5 m (type 2322), counterweight carrier for max. 450 t. Superlift radius infinitely variable during operation 18 to 24 m.                                                                                                                                                                                           |
| <b>Add on SL radius</b>                     | 24-30 m (tray and carrier), only SSL, SSL/LSL and SSL/LSL S1.                                                                                                                                                                                                                                                              |
| <b>Hoist H3</b>                             | Additional rope drum on main boom (for LF or runner operation). Line pull same as H1, rope length 700 m.                                                                                                                                                                                                                   |
| <b>Runner 46 t</b>                          | Approx. 2 m for installation on boom head or top section.                                                                                                                                                                                                                                                                  |
| <b>Fall protection</b>                      | Fall protection system for main boom, fly jib and superlift mast.                                                                                                                                                                                                                                                          |
| <b>S3-boom-kit LF3</b>                      | For wind power applications without Superlift, hook heights from 112 m - 132 m.                                                                                                                                                                                                                                            |

# Technische Beschreibung

## Raupenunterwagen

Der Raupenunterwagen ist 3-teilig und besteht aus dem Mittelstück mit für den Transport angeklappten Stützträgern und zwei Raupen. Mittelstück und Raupen werden hydraulisch verbolzt und sind einfach demontierbar zum Erreichen günstiger Transportabmessungen und Gewichte.

|                       |                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mittelstück</b>    | Biege- und verwindungssteife Schweißkonstruktion aus hochfestem Feinkornbaustahl.                                                                                                                                                                                                                                                                      |
| <b>Raupenträger</b>   | Biegesteife Schweißkonstruktion aus hochfestem Feinkornbaustahl. Serienmäßig mit Zentral-Schmierung ausgestattet.                                                                                                                                                                                                                                      |
| <b>Raupen</b>         | 15 Laufrollen je Raupenträger mit gehärteten Laufflächen. Jedes Laufwerk wird von Hydromotoren über geschlossene, ölbadgeschmierte Planetengetriebe angetrieben. Jede Seite ist stufenlos einzeln und gegenläufig steuerbar.                                                                                                                           |
| <b>Antrieb</b>        | Die Raupen werden von je zwei Hydromotoren über geschlossene, ölbadgeschmierte Planetengetriebe mit federbelasteten, hydraulisch gelüfteten Haltebremsen angetrieben. Die Getriebe sind in besonders kompakter Bauform innerhalb der Raupenbreite angeordnet. Jede Seite ist stufenlos, einzeln und gegenläufig steuerbar. Quadro-Antrieb serienmäßig. |
| <b>Zentralballast</b> | 80 t.                                                                                                                                                                                                                                                                                                                                                  |

## Oberwagen

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gegengewicht</b>                         | 250 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Rahmen</b>                               | Biege- und verwindungssteife Schweißkonstruktion aus hochfestem Feinkornbaustahl.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Antrieb<br/>EU Stage V / EPA Tier 4f</b> | Zwei Mercedes-Benz Dieselmotoren, Typ OM470LA, 6 Zylinder, 2 x 320 kW (2 x 429 PS) bei 1600 1/min., Drehmoment 2100 Nm bei 1300 1/min. Die Motoren entsprechen der Emissionsnorm EU Stage V / EPA Tier 4f. Zwei Pumpenverteilergetriebe mit insgesamt sechs verstellbaren Axialkolbenpumpen und zusätzlichen Zahnradpumpen. Edelstahl-Abgasanlage mit Partikelfilter, SCR-Katalysator und Funkenfänger-zertifikat. Motorabdeckung mit Schallsisolierung.<br>Kraftstoff: 1 x 1500 l, AdBlue: 2 x 85 l.                                                                           |
| <b>Seilwinden</b>                           | Der Oberwagen ist serienmäßig mit drei Seilwinden – Hubwerk 1, Hubwerk 2 und Einziehwerk – ausgerüstet. Der Antrieb der Winden erfolgt durch Hydromotoren über geschlossene, ölbadgeschmierte Planetengetriebe. Alle Seilwinden sind mit federbelasteten, hydraulisch gelüfteten Lamellenbremsen und verschleißfreier, hydraulischer Bremsung für den Senkvorgang ausgerüstet. Die Seilenden H 1, 2, 3 und W 1, 2 sind mit Pressfitting und Taschen ausgestattet. Zur Reduzierung der Transportgewichte sind die Winden H 1 und H 2 sowie der A-Bock mit Einziehwerk ausbaubar. |
| <b>A-Bock</b>                               | Hydraulikzylinder im Oberwagen für die Umlage des A-Bockes serienmäßig.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Drehwerk</b>                             | Vier Drehwerke mit Antrieb durch Hydromotor über geschlossenes, ölbadgeschmiertes Planetengetriebe. Federbelastete, hydraulisch löfbbare Haltebremse und verschleißfreie hydraulische Bremse.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Steuerung</b>                            | IC-1: Elektronische Proportionalventilvorsteuerung integriert in eine speicherprogrammierte Steuerung mit Fehlerdiagnose. Zwei Farbbildschirme, Bedienung über Touchscreen. Die Arbeitsgeschwindigkeiten werden durch die Hebelstellung stufenlos geregelt. Leistungsregelung der Antriebe zur optimalen Nutzung der Motorleistung. Serienmäßig Arbeitsbereichsbegrenzung und Anzeige der Bodenpressung bzw. Stützkräfte.                                                                                                                                                       |
| <b>Kabine</b>                               | Komfortkabine mit großem Frontfenster und Klimaanlage. Sicherheitsverglasung rundum, Dachfenster, motorunabhängige Warmluftheizung und Steuer- und Kontrollelemente für die Kranfunktionen. Die Kabine ist zur Sichtverbesserung nach hinten neigbar. Zur Überwachung der Winden im Oberwagen ist ein Kamerasystem installiert. Während des Transportes ist die Kabine vor den Oberwagen geschwenkt.                                                                                                                                                                            |
| <b>Elektrische Anlage</b>                   | Betriebsspannung 24 V (2 Batterien 12 V / 180 Ah).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Quick-connection</b>                     | Hydraulische Schnellverbindung Unterwagen / Oberwagen zur Reduzierung der Transportgewichte serienmäßig.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Zusatzausrüstung

|                                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| <b>Zylinder am A-Bock</b>        | Zur Raupenträger-Selbstmontage.                                            |
| <b>Zusatzabstützung seitlich</b> | Zum Aufrichten langer Auslegersysteme.                                     |
| <b>Gegengewichtswagen</b>        | Zulässiges Gesamtgewicht 450 t, in Verbindung mit Teleskop-SL-Einrichtung. |
| <b>PC-Stützen</b>                | Stützbasis 14 x 14 m. Zur Verwendung alternativ zu den Raupen.             |

Weitere Zusatzausrüstungen auf Anfrage!

# Technische Beschreibung

## Auslegervarianten S und L

|                                   |                                                                                                                                                                                                                                                                       |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SH:</b>                        | Hauptausleger: Fußstück 12 m, Zwischenstücke 6 m, 10,5 m und 12 m (Typ 3328), Anschlusskopf 1,5 m. Hauptauslegerlängen: 36-96 m.                                                                                                                                      |
| <b>SH / LH:</b><br>(SGL variabel) | Hauptausleger: Fußstück 12 m, Zwischenstücke 6 m, 10,5 m und 12 m (Typ 3328), Reduzierstück, verlängert um Zwischenstücke 6 m und 12 m (Typ 2822), Spitze 7,5 m. Hauptauslegerlängen: 48-108 m.                                                                       |
| <b>LH:</b>                        | Hauptausleger: Fußstück 12 m, Zwischenstück 10,5 m (Typ 3328), Reduzierstück, verlängert um Zwischenstücke 6 m und 12 m (Typ 2822), Spitze 7,5 m. Hauptauslegerlängen: 48-114 m.                                                                                      |
| <b>SW:</b>                        | Hauptausleger: wie SH. Vorneigung 87° bis 65°. Wippbarer Hilfsausleger: Fußstück 4,5 m, Zwischenstück 12 m (Typ 3328), Reduzierstück, Zwischenstück 6 m und Zwischenstücke 12 m (Typ 2822), Spitze 7,5 m. Hauptauslegerlängen: 42-60 m. Hilfsauslegerlängen: 30-96 m. |
| <b>SSL:</b>                       | Hauptausleger: wie SH. Superlift-Einrichtung. Hauptauslegerlängen: 42-96 m.                                                                                                                                                                                           |
| <b>SSL / LSL:</b><br>(SGL 94,5 m) | Hauptausleger: Fußstück 12 m, Zwischenstücke 6 m, 10,5 m und 12 m (Typ 2822), Reduzierstück, verlängert um Zwischenstücke 6 m und 12 m (Typ 2822), Spitze 7,5 m. Superlift-Einrichtung. Hauptauslegerlängen: 102-150 m.                                               |
| <b>SSL / LSL S1:</b>              | Hauptausleger wie SSL, erweitert mit Verstärkungs-Kit + Hilfsauslegerspitze. Hauptauslegerlängen: 66-156 m.                                                                                                                                                           |
| <b>SWSL / SFSL:</b>               | Hauptausleger: wie SH. Vorneigung 87° bis 45°. Wippbarer Hilfsausleger: wie SW. Superlift-Einrichtung. Hauptauslegerlängen: 48-96 m. Hilfsauslegerlängen: 30-108 m.                                                                                                   |
| <b>SFVL:</b>                      | Hauptausleger: wie SH. Superlift-Einrichtung. Starrer Hilfsausleger: Fußstück 4,5 m, Zwischenstück 12 m (Typ 3328), mit zusätzlichem SFVL-Kopf. Hauptauslegerlängen: 48-72 m. Hilfsauslegerlänge: 18 m.                                                               |
| <b>LFVL:</b>                      | Hauptausleger: wie SH. Superlift-Einrichtung. Starrer Hilfsausleger: Fußstück 4,5 m, Reduzierstück, Spitze 7,5 m. Hauptauslegerlängen: 48-96 m. Hilfsauslegerlänge: 18 m.                                                                                             |
| <b>+LF:</b>                       | Zusätzlich zu Hauptausleger SH, SSL, SH/LH, SSL/LSL, SSL/LSL S1. Hilfsauslegerlängen: 15 m, 21 m, 27 m, 33 m. Hilfsauslegerwinkel: 15°, 20°, 30°. Serienmäßig Runner am LF max. 24 t.                                                                                 |
| <b>Auslegerverbolzung</b>         | Serienmäßig hydraulisch verbolzbare Auslegerteile.                                                                                                                                                                                                                    |
| <b>Einscherwinde</b>              | Auf Oberwagen angebaut.                                                                                                                                                                                                                                               |
| <b>Sicherheitseinrichtungen</b>   | Elektronischer Lastmomentbegrenzer, Hubendschalter, Endschalter für Auslegerbewegungen, hydraulische Ausleger-Rückfallsicherungen, Windmesser.                                                                                                                        |

## Zusatzausrüstung

|                                              |                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Motor EU Stage IIIA / EPA Tier 3</b>      | <b>Optional für nicht regulierte Märkte:</b> Zwei Mercedes-Benz Dieselmotoren, Typ OM460LA, 6 Zylinder, 2 x 315 kW (2 x 422 PS) bei 1800 <sup>1</sup> /min., Drehmoment 2000 Nm bei 1300 <sup>1</sup> /min. Die Motoren entsprechen der Emissionsnorm EU Stage IIIA / EPA Tier 3. Edelstahl-Abgasanlage mit Funkenfänger. Kraftstoff: 1 x 1500 l. |
| <b>Verstärkungs-Kit für Hauptausleger S1</b> | Bestehend aus max. 3 zusätzlichen Auslegerteilen (2 aus Hauptausleger, 1 aus Hilfsausleger); Standardhauptausleger 96 m erforderlich.                                                                                                                                                                                                             |
| <b>Superlift-Einrichtung Standard</b>        | Mast 40,5 m (Typ 2322), Gegengewichtstraverse mit max. 450 t. Superlift-Radien 15 m, 18 m, 21 m, 24 m.                                                                                                                                                                                                                                            |
| <b>Superlift-Einrichtung Variabel</b>        | Mast 40,5 m (Typ 2322), Gegengewichtstraverse mit max. 450 t. Superlift-Radius stufenlos von 15 bis 24 m im Betrieb verstellbar. Vertikalzylinder und Stabilisierungswinde für Superlift-Gegengewicht.                                                                                                                                            |
| <b>Superlift mit Gegengewichtswagen</b>      | Mast 40,5 m (Typ 2322), Gegengewichtswagen mit max. 450 t. Superlift-Radius stufenlos von 18 bis 24 m im Betrieb verstellbar.                                                                                                                                                                                                                     |
| <b>Zusätzlicher SL-Radius</b>                | 24-30 m (Traverse und Gegengewichtswagen), nur SSL, SSL/LSL und SSL/LSL S1.                                                                                                                                                                                                                                                                       |
| <b>Seilwinde H3</b>                          | Zusätzliche Seilwinde im Hauptausleger (zum Betrieb mit LF oder Runner). Seilzug wie H1, Seillänge 700 m.                                                                                                                                                                                                                                         |
| <b>Runner 46 t</b>                           | Ca. 2 m zum Anbau an Kopf oder Spitze.                                                                                                                                                                                                                                                                                                            |
| <b>Absturzsicherung</b>                      | Absturzsicherung für Hauptausleger, Hilfsausleger, Superliftmast.                                                                                                                                                                                                                                                                                 |
| <b>S3-Ausleger-Kit LF3</b>                   | Für Windkraftapplikation ohne Superlift, Hakenhöhen 112 m - 132 m.                                                                                                                                                                                                                                                                                |

# Descriptif technique

## Châssis à chenilles

Le châssis à chenilles consiste en trois parties – deux chenilles et la partie centrale avec les stabilisateurs plié pour le transport. Les chenilles et la partie centrale sont verrouillées hydrauliquement facilitant ainsi le montage et démontage pour diminuer la largeur d'encombrement et le poids de transport.

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Partie centrale</b>    | Structure mécano-soudée rigide à la flexion et à la torsion, réalisée en acier de construction à grains fins à haute résistance.                                                                                                                                                                                                                                                                                      |
| <b>Trains de chenille</b> | Structure mécano-soudée rigide à la flexion, réalisée en acier de construction à grains fins à haute résistance. Graissage centralisé automatique inclus de série.                                                                                                                                                                                                                                                    |
| <b>Chenilles</b>          | Chaque trains de chenille est équipée de 15 galets d'appui dont les surfaces de roulement sont trempées. Chaque barbotin est entraîné par moteurs hydrauliques avec réducteurs planétaires en carter étanche sous bain d'huile. Chaque côté permet un mouvement réglable sans paliers individuel et dans le sens opposé.                                                                                              |
| <b>Entraînement</b>       | Les barbotins sont entraînés par deux moteurs hydrauliques de chaque côté muni de réducteurs planétaires, sous bain d'huile, en carter étanche, avec freins d'arrêt à commande par ressorts, desserrés hydrauliquement. Grâce à leur compacité extrême, les réducteurs s'intègrent complètement dans la largeur de chenilles. Chaque chenille permet un mouvement individuel et opposé. Entraînement quadro en série. |
| <b>Lest central</b>       | 80 t.                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Partie supérieure

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contrepoids</b>                               | 250 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Charpente</b>                                 | Construction mécano-soudée, rigide à la flexion et à la torsion en acier de construction de haute résistance à grains fins.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Entraînement<br/>EU Stage V / EPA Tier 4f</b> | Deux moteurs diesel Mercedes-Benz, type OM470LA, 6 cylindres, 2 x 320 kW (2 x 429 HP) à 1600 tr/min. Couple de 2100 Nm à 1300 tr/min. Les moteurs satisfont aux normes Stage V de l'UE / Tier 4f de l'APE en matière d'émissions. Deux boîtes de distribution de pompes avec six pompes à pistons axiaux et cylindrée variable ; pompes à engrenage supplémentaires. Système d'échappement en acier inoxydable avec filtre à particules, catalyseur SRC et pare-étincelles certifié. Capot de moteur pour isolation phonique. Carburant : 1 x 1500 l ; AdBlue : 2 x 85 l.                                                               |
| <b>Tambours</b>                                  | L'équipement standard de la partie tournante comprend trois tambours – treuil no 1, no 2 et mécanisme de relevage. Les tambours sont entraînés par des moteurs hydrauliques munis de réducteurs planétaires, sous bain d'huile, en carter étanche. Tous les tambours sont pourvus de freins à disques multiples à commande par ressorts, et desserrés hydrauliquement. Freinage anti-usure hydraulique pour descendre la charge. Les pattes de câbles H 1, 2, 3 et W 1, 2 sont équipées des attaches à jonction rapide. Treuils H 1 et H 2 et chevalet avec mécanisme de relevage sont démontables pour diminuer le poids de transport. |
| <b>Chevalet</b>                                  | Système de relevage hydraulique à la partie supérieure pour chevalet en série.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Mécanisme d'orientation</b>                   | Entraîné par quatre moteurs hydrauliques avec réducteur planétaire, sous bain d'huile, en carter étanche. Frein d'arrêt à commande par ressorts, desserré hydrauliquement ainsi que freinage anti-usure hydraulique.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Commande</b>                                  | IC-1 : Pilotage électronique de soupapes proportionnels intégré dans un automate programmable avec diagnostic de dysfonctionnement. Deux écrans couleur, commande du C.E.C. par écran tactile. Les vitesses de travail sont réglées sans paliers par la position du levier. Régulation automatique pour une exploitation optimale de la puissance du moteur. En série limitation de portée, force de pression sur base et indicateur des forces de calage.                                                                                                                                                                              |
| <b>Cabine</b>                                    | Cabine confortable avec large pare-brise et climatisation. Vitrage de sécurité, fenêtre de toit, chauffage à air autonome, organes de commande et instruments de contrôle. Cabine inclinable en arrière assurant au grutier une visibilité optimale. Une caméra est installée pour la surveillance des treuils. Pendant le transport, la cabine est basculée à l'avant de la partie tournante.                                                                                                                                                                                                                                          |
| <b>Installation électrique</b>                   | Système 24 V (2 accumulateurs 12 V / 180 Ah).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Connexion rapide</b>                          | Connexion rapide hydraulique entre châssis et partie tournante permettant le démontage facile pour réduire le poids de transport en série.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Équipements optionnels

|                                              |                                                                           |
|----------------------------------------------|---------------------------------------------------------------------------|
| <b>Cylindre hydraulique pour le chevalet</b> | Pour le montage des trains de chenille.                                   |
| <b>Stabilisateur latéral additionnel</b>     | Pour le montage des flèches longues.                                      |
| <b>Chariot contrepoids</b>                   | Poids total max. 450 t, en combinaison avec l'équipement SL télescopique. |
| <b>Base de calage variante PC</b>            | Base de calage 14 x 14 m. Pour l'utilisation alternative aux chenilles.   |

Équipements optionnels supplémentaires sur demande!



# Descriptif technique

| Configurations de flèche S et L                  |                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SH :</b>                                      | Flèche principale : pied 12 m, tronçons 6 m, 10,5 m et 12 m (type 3328), tête de flèche 1,5 m.<br>Longueurs de flèche principale : 36-96 m.                                                                                                                                                                                                                              |
| <b>SH / LH :<br/>(SGL variable)</b>              | Flèche principale : pied 12 m, tronçons 6 m, 10,5 m et 12 m (type 3328), tronçon conique, allongée de tronçons 6 m et 12 m (type 2822), tronçon de tête 7,5 m.<br>Longueurs de flèche principale : 48-108 m.                                                                                                                                                             |
| <b>LH :</b>                                      | Flèche principale : pied 12 m, tronçon 10,5 m (type 3328), tronçon conique, allongée de tronçons 6 m et 12 m (type 2822), tronçon de tête 7,5 m.<br>Longueurs de flèche principale : 48-114 m.                                                                                                                                                                           |
| <b>SW :</b>                                      | Flèche principale : Identique à SH. Inclinaison 87° jusqu'à 65°.<br>Fléchette volée variable : pied 4,5 m, tronçon 12 m (type 3328), tronçon conique, tronçon 6 m et tronçons 12 m (type 2822), tronçon de tête 7,5 m.<br>Longueurs de flèche principale : 42-60 m.<br>Longueurs de fléchette : 30-96 m.                                                                 |
| <b>SSL :</b>                                     | Flèche principale : Identique à SH. Equipement Superlift.<br>Longueurs de flèche principale : 42-96 m.                                                                                                                                                                                                                                                                   |
| <b>SSL / LSL :<br/>(SGL 94,5 m)</b>              | Flèche principale : pied 12 m, tronçons 6 m, 10,5 m et 12 m (type 2822), tronçon conique, allongée de tronçons 6 m et 12 m (type 2822), tronçon de tête 7,5 m. Equipement Superlift.<br>Longueurs de flèche principale : 102-150 m.                                                                                                                                      |
| <b>SSL / LSL S1 :</b>                            | Flèche principale : Identique à SSL, complétée par kit à fortifier de flèche + tête de fléchette.<br>Longueurs de flèche principale : 66-156 m.                                                                                                                                                                                                                          |
| <b>SWSL / SFSL :</b>                             | Flèche principale : Identique à SH. Inclinaison 87° jusqu'à 45°.<br>Fléchette volée variable : idem SW. Equipement Superlift.<br>Longueurs de flèche principale : 48-96 m.<br>Longueurs de fléchette : 30-108 m.                                                                                                                                                         |
| <b>SFVL :</b>                                    | Flèche principale : Identique à SH. Equipement Superlift.<br>Fléchette fixe : pied 4,5 m, tronçons 12 m (type 3328), SFVL tronçon de tête compris.<br>Longueurs de flèche principale : 48-72 m.<br>Longueur de fléchette : 18 m.                                                                                                                                         |
| <b>LFVL :</b>                                    | Flèche principale : Identique à SH. Equipement Superlift.<br>Fléchette fixe : pied 4,5 m, tronçon conique, tronçon de tête 7,5 m.<br>Longueurs de flèche principale : 48-96 m.<br>Longueur de fléchette : 18 m.                                                                                                                                                          |
| <b>+LF :</b>                                     | En supplément de la configuration avec flèche principale SH, SSL, SH/LH, SSL/LSL, SSL/LSL S1.<br>Longueurs de fléchette : 15 m, 21 m, 27 m, 33 m.<br>Inclinaison de fléchette : 15°, 20°, 30°.<br>Runner sur LF max. 24 t en équipement standard.                                                                                                                        |
| <b>Boulonnement de flèche</b>                    | Boulonnement hydraulique des intercalaires de flèche en série.                                                                                                                                                                                                                                                                                                           |
| <b>Tambour de mouflage</b>                       | Monté sur la partie tournante.                                                                                                                                                                                                                                                                                                                                           |
| <b>Sécurités</b>                                 | Contrôleur d'état de charge électronique, contacteur de fin de course haut, limiteurs de mouvements de la flèche, retenues hydrauliques anti-basculement de la flèche, anémomètre.                                                                                                                                                                                       |
| Equipements optionnels                           |                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Moteur EU Stage IIIA/<br/>EPA Tier 3</b>      | <b>En option pour les marchés non réglementés :</b> Deux moteurs diesel Mercedes-Benz, type OM460LA, 6 cylindres, 2 x 315 kW (2 x 422 HP) à 1800 tr/min. Couple de 2000 Nm à 1300 tr/min. Les moteurs satisfont aux normes UE Phase IIIA / EPA Tier 3 en matière d'émissions. Système d'échappement en acier inoxydable avec pare-étincelles.<br>Carburant : 1 x 1500 l. |
| <b>Kit à fortifier pour flèche principale S1</b> | Constitué de max. 3 sections de flèche additionnelles (2 sur flèche principale, 1 sur fléchette) ; flèche principale de 96 m requise.                                                                                                                                                                                                                                    |
| <b>Equipement Superlift standard</b>             | Mât 40,5 m (type 2322), panier du contrepoids pour max. 450 t. Rayons du Superlift 15 m, 18 m, 21 m, 24 m.                                                                                                                                                                                                                                                               |
| <b>Equipement Superlift variable</b>             | Mât 40,5 m (type 2322), panier du contrepoids pour max 450 t. Rayon du Superlift variable de 15 à 24 m. Cylindre vertical et système de stabilisation pour le contrepoids Superlift.                                                                                                                                                                                     |
| <b>Superlift avec chariot contrepoids</b>        | Mât 40,5 m (type 2322), chariot contrepoids pour max. 450 t. Rayon du Superlift variable de 18 à 24 m.                                                                                                                                                                                                                                                                   |
| <b>Rayon SL additionnel</b>                      | 24-30 m (plateau et châssis), seulement SSL, SSL/LSL et SSL/LSL S1.                                                                                                                                                                                                                                                                                                      |
| <b>Treuil H3</b>                                 | Tambour supplémentaire sur la flèche principale (à utiliser avec LF ou runner). Effort au brin simple idem H1, longueur de câble 700 m.                                                                                                                                                                                                                                  |
| <b>Runner 46 t</b>                               | Environ 2 m à installer en tête de flèche ou sur l'élément de pointe.                                                                                                                                                                                                                                                                                                    |
| <b>Protection anti-chute</b>                     | Système de protection anti-chute pour flèche principale, fléchette à volée variable et mât Superlift.                                                                                                                                                                                                                                                                    |
| <b>Kit flèche S3 LF3</b>                         | Pour les applications éoliennes sans SuperLift ; hauteur de crochet entre 112 m et 132 m.                                                                                                                                                                                                                                                                                |



# Descrizione tecnica

## Carro cingolato

Carro in 3 sezioni, carrozzeria con spazio per trasporto stabilizzatori in posizione chiusa e due cingoli. Le giunzioni idrauliche a spina tra cingoli e carro facilitano le operazioni di montaggio e smontaggio e consentono di ridurre al minimo la larghezza e il peso in ordine di marcia.

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sezione centrale</b>   | Struttura saldata, resistente a torsioni e flessioni, realizzata in acciaio strutturale pregiato a grana fine.                                                                                                                                                                                                                                                                                                                                       |
| <b>Telai portacingoli</b> | Struttura saldata resistente a flessioni, realizzata in acciaio strutturale pregiato a grana fine. Lubrificazione centralizzata di serie.                                                                                                                                                                                                                                                                                                            |
| <b>Cingoli</b>            | 15 rulli portacingolo con superficie di rotolamento bonificata. Posizione rialzata per le ruote motrici e tendicingolo. Le due ruote assicurano la capacità portante necessaria per l'erezione del braccio e consentono di regolare il tensionamento dei cingoli. Ogni lato è controllato a regolazione continua, con possibilità di movimento indipendente e di rotazione in direzioni opposte.                                                     |
| <b>Catena cinematica</b>  | I cingoli sono azionati da due motori idraulici, ciascuno provvisto di riduttori planetari in bagno d'olio, muniti di carter a tenuta e freno di arresto a molla, ad apertura idraulica. Il design dei riduttori è estremamente compatto e si adatta perfettamente alla larghezza dei cingoli. Ogni lato è controllato a regolazione continua, con possibilità di movimento indipendente e di rotazione in direzioni opposte. Quadro Drive di serie. |
| <b>Zavorra centrale</b>   | 80 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Torretta

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contrappeso</b>                              | 250 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Struttura</b>                                | Struttura saldata, resistente a torsioni e flessioni, realizzata in acciaio strutturale pregiato a grana fine.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Azionamento<br/>EU Stage V / EPA Tier 4f</b> | Due motori diesel Mercedes-Benz, tipo OM470LA, 6 cilindri, 2 x 320 kW (2 x 429 HP) a 1600 giri/min. Coppia 2100 Nm a 1300 giri/min. I motori sono conformi alle normative sulle emissioni EU Stage V / EPA Tier 4f. Due riduttori di distribuzione per complessivamente sei pompe a pistoncini assiali a cilindrata variabile e pompe a ingranaggi aggiuntive. Impianto di scarico in acciaio inox con filtro antiparticolato, catalizzatore di tipo SCR e parascintille munito di relativa certificazione. Cofano motore con isolamento acustico. Carburante: 1 x 1500 l, AdBlue: 2 x 85 l. |
| <b>Tamburi avvolgimento<br/>fune</b>            | La dotazione standard della torretta comprende tre tamburi: argano 1, argano 2 e argano del braccio. I tamburi sono azionati da motori idraulici tramite riduttori planetari in bagno d'olio, dotati di carter a tenuta. Tutti i tamburi sono equipaggiati di freni multidisco a molla, ad apertura idraulica e sistema di frenatura idraulica antiusura per la discesa del carico. Le cime delle funi H 1, 2, 3 e W 1, 2 sono dotate di dispositivo a sgancio rapido. Gli argani H 1 e H 2 e la cuspide con l'argano del braccio sono rimovibili, per ridurre il peso durante il trasporto. |
| <b>Cuspide</b>                                  | Torretta equipaggiata di serie con cilindri per il sollevamento della cuspide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Ralla</b>                                    | Alimentata da quattro motori idraulici tramite riduttori planetari in bagno d'olio con carter a tenuta. Freno di arresto a molla, frenatura idraulica antiusura, con apertura idraulica.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Sistema di comando</b>                       | IC-1: Valvola di regolazione proporzionale elettronica integrata nel sistema di controllo software, comprendente funzioni di diagnostica. Monitor bicolore, indicatore di carico con touch-screen. Velocità di lavoro a regolazione continua sulla base della posizione della leva. Controllo automatico dell'alimentazione, per un utilizzo ottimale della potenza erogata dal motore. Limitatore sbraccio standard, indicazione della pressione al suolo, indicazione del carico sugli stabilizzatori.                                                                                     |
| <b>Cabina</b>                                   | Comoda cabina con ampio parabrezza e climatizzazione. Vetro stratificato panoramico, tettuccio apribile, riscaldatore ad aria calda indipendente, strumentazione e comandi gru completi. La cabina può essere inclinata per incrementare la visibilità dell'operatore sul punto di lavoro del braccio. I tamburi avvolgimento fune sono dotati di videocamera di monitoraggio. Per il trasporto, la cabina ruota sul lato anteriore della torretta, in modo da ridurre la larghezza.                                                                                                         |
| <b>Componenti elettrici</b>                     | Impianto 24 V (2 batterie 12 V / 180 Ah).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Raccordi rapidi</b>                          | Raccordi idraulici di accoppiamento rapido di serie su carro e torretta per facilitare lo smontaggio, riducendo al minimo il peso durante il trasporto.                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Equipaggiamento opzionale

|                                       |                                                                     |
|---------------------------------------|---------------------------------------------------------------------|
| <b>Cuspide con cilindro idraulico</b> | Per l'autoassemblaggio dei cingoli.                                 |
| <b>Stabilizzatori laterali</b>        | Per l'erezione di bracci lunghi.                                    |
| <b>Contrappeso carro</b>              | Peso totale max. 450 t, in combinazione con sistema telescopico SL. |
| <b>Stabilizzatori gru su zoccolo</b>  | Base stabilizzatori 14 x 14 m. In alternativa ai cingoli.           |

Ulteriori opzioni su richiesta!

# Descrizione tecnica

## Configurazioni del braccio S e L

|                                           |                                                                                                                                                                                                                                                                                         |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SH:</b>                                | Braccio base: colonna 12 m, elementi 6 m, 10,5 m e 12 m (tipo 3328), testa braccio 1,5 m.<br>Lunghezza del braccio base: 36-96 m.                                                                                                                                                       |
| <b>SH / LH:</b><br><b>(SGL variabile)</b> | Braccio base: colonna 12 m, elementi 6 m, 10,5 m e 12 m (tipo 3328), elemento conico, esteso per elementi 6 m e 12 m (tipo 2822), elemento superiore 7,5 m.<br>Lunghezza del braccio base: 48-108 m.                                                                                    |
| <b>LH:</b>                                | Braccio base: colonna 12 m, elementi 10,5 m (tipo 3328), elemento conico, esteso per elementi 6 m e 12 m (tipo 2822), elemento superiore 7,5 m.<br>Lunghezza del braccio base: 48-114 m.                                                                                                |
| <b>SW:</b>                                | Braccio base: come SH. Inclinazione da 87° a 65°.<br>Falcone a volata variabile: colonna 4,5 m, elemento 12 m (tipo 3328), elemento conico, elemento 6 m ed elementi 12 m (tipo 2822), elemento superiore 7,5 m.<br>Lunghezza del braccio base: 42-60 m.<br>Lunghezze falcone: 30-96 m. |
| <b>SSL:</b>                               | Braccio base: come SH. Sistema Superlift.<br>Lunghezza del braccio base: 42-96 m.                                                                                                                                                                                                       |
| <b>SSL / LSL:</b><br><b>(SGL 94,5 m)</b>  | Braccio base: colonna 12 m, elemento 6 m, 10,5 m e 12 m (tipo 2822), elemento conico, esteso per elementi 6 m e 12 m (tipo 2822), elemento superiore 7,5 m. Sistema Superlift.<br>Lunghezza del braccio base: 102-150 m.                                                                |
| <b>SSL / LSL S1:</b>                      | Braccio base: come SSL, esteso con kit potenza braccio + elemento superiore falcone.<br>Lunghezza del braccio base: 66-156 m.                                                                                                                                                           |
| <b>SWSL / SFSL:</b>                       | Braccio base: come SH. Inclinazione da 87° a 45°.<br>Falcone a volata variabile: come SW. Sistema Superlift.<br>Lunghezza del braccio base: 48-96 m.<br>Lunghezze falcone: 30-108 m.                                                                                                    |
| <b>SFVL:</b>                              | Braccio base: come SH. Sistema Superlift.<br>Falcone rigido: colonna 4,5 m, elemento 12 m (tipo 3328), ulteriore testa SFVL compresa.<br>Lunghezza del braccio base: 48-72 m.<br>Lunghezza falcone: 18 m.                                                                               |
| <b>LFVL:</b>                              | Braccio base: come SH. Sistema Superlift.<br>Falcone rigido: colonna 4,5 m, elemento conico, elemento superiore 7,5 m.<br>Lunghezza del braccio base: 48-96 m.<br>Lunghezza falcone: 18 m.                                                                                              |
| <b>+LF:</b>                               | Oltre alla configurazione del braccio base SH, SSL, SH/LH, SSL/LSL, SSL/LSL S1.<br>Lunghezze falcone: 15 m, 21 m, 27 m, 33 m.<br>Inclinazione falcone: 15°, 20°, 30°.<br>Runner su LF max. 24 t di serie.                                                                               |
| <b>Fissaggio del braccio base</b>         | Fissaggio degli elementi del braccio con servocomando idraulico di serie.                                                                                                                                                                                                               |
| <b>Verricello di avvolgimento</b>         | Montato su torretta.                                                                                                                                                                                                                                                                    |
| <b>Dispositivi di sicurezza</b>           | Indicatore di carico elettronico finecorsa argano per movimenti braccio, dispositivo antiretro braccio, anemometro.                                                                                                                                                                     |

## Equipaggiamento opzionale

|                                            |                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Motore EU Stage IIIA / EPA Tier 3</b>   | <b>Opzionale per i mercati non regolamentati:</b> Due motori diesel Mercedes-Benz, tipo OM460LA, 6 cilindri, 2 x 315 kW (2 x 422 HP) a 1800 giri/min. Coppia 2000 Nm a 1300 giri/min. I motori sono conformi alle normative sulle emissioni EU Stage IIIA / EPA Tier 3. Impianto di scarico in acciaio inox con parascintille. Carburante: 1 x 1500 l. |
| <b>Kit potenza per braccio base S1</b>     | Costituito da max. 3 ulteriori elementi del braccio (2 del braccio base, 1 del falcone); È richiesto un braccio base standard di 96 m.                                                                                                                                                                                                                 |
| <b>Sistema Superlift di serie</b>          | Albero secondario 40,5 m (tipo 2322), telaio contrappeso per max. 450 t. Raggi Superlift 15 m, 18 m, 21 m, 24 m.                                                                                                                                                                                                                                       |
| <b>Superlift variabile equipaggiamento</b> | Albero secondario 40,5 m (tipo 2322), telaio contrappeso per max 450 t. Raggio Superlift con regolazione continua durante il funzionamento da 15 a 24 m. Cilindro verticale e sistema di stabilizzazione per contrappeso Superlift.                                                                                                                    |
| <b>Superlift con contrappeso carro</b>     | Albero 40,5 m (tipo 2322), contrappeso carro per max. 450 t. Raggio superlift con regolazione continua durante il funzionamento da 18 a 24 m.                                                                                                                                                                                                          |
| <b>Raggio SL aggiuntivo</b>                | 24-30 metri (telaio e carro), solo SSL, SSL/LSL e SSL/LSL S1.                                                                                                                                                                                                                                                                                          |
| <b>Argano H3</b>                           | Ulteriore tamburo su braccio base (per LF o per l'uso del runner). Tiro come H1, lunghezza fune 700 m.                                                                                                                                                                                                                                                 |
| <b>Runner 46 t</b>                         | Circa 2 m per installazione su testa braccio o elemento superiore.                                                                                                                                                                                                                                                                                     |
| <b>Protezione anticaduta</b>               | Sistema di protezione anticaduta per braccio base, falcone e albero Superlift.                                                                                                                                                                                                                                                                         |
| <b>Kit braccio S3 LF3</b>                  | Per applicazioni in campo eolico senza Superlift, altezza sotto gancio da 112 m a 132 m.                                                                                                                                                                                                                                                               |

# Descripción técnica

## Chasis de orugas

Chasis de 3 secciones, formado por un cuerpo central con estabilizadores plegados para el transporte y dos orugas. La conexión con pernos hidráulicos entre las orugas y el cuerpo central aseguran un fácil montaje y desmontaje, reduciendo al mínimo la anchura y el peso para su transporte.

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Parte central</b>                      | Estructura soldada resistente a la flexión y a la torsión, fabricada con acero de construcción de grano fino y alta resistencia.                                                                                                                                                                                                                                                                                                                                        |
| <b>Bastidores laterales de las orugas</b> | Estructura soldada resistente a la flexión, fabricada con acero de construcción de grano fino y alta resistencia. Lubricación centralizada incluida de serie.                                                                                                                                                                                                                                                                                                           |
| <b>Orugas</b>                             | 15 rodillos por cada oruga con superficies de rodadura endurecidas. Posición elevada para los piñones de transmisión y las ruedas intermedias, los cuales proporcionan capacidad de soporte de carga para elevación; tensión de oruga regulable. Cada oruga es controlada en progresión continua, tanto independientemente como en direcciones opuestas.                                                                                                                |
| <b>Tren de transmisión</b>                | Las orugas están propulsadas por dos motores hidráulicos, cada uno de ellos con engranajes planetarios en cárter cerrado y baño de aceite, equipadas con frenos de parada accionados por muelle y soltados hidráulicamente. Los engranajes tienen un diseño extremadamente compacto para caber dentro de la anchura de las orugas. Cada oruga es controlada en progresión continua, tanto independientemente como en direcciones opuestas. Transmisión Quadro de serie. |
| <b>Lastre central</b>                     | 80 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Superestructura

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contrapesos</b>                           | 250 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Bastidor</b>                              | Estructura soldada resistente a la flexión y a la torsión, fabricada con acero de construcción de grano fino y alta resistencia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Tracción<br/>EU Stage V / EPA Tier 4f</b> | Dos motores diésel Mercedes-Benz, tipo OM470LA, 6 cilindros, 2 x 320 kW (2 x 429 HP) a 1600 rpm. Par 2100 Nm a 1300 rpm. Los motores cumplen con la normativa de emisiones UE fase V / EPA Tier 4f. Dos cajas de engranajes de distribución de bombas con un total de seis bombas de pistón axial de desplazamiento variable y bombas de engranajes adicionales. Sistema de escape de acero inoxidable con filtro de partículas, catalizador SCR y parachispas certificado. Cubierta de motor para el aislamiento acústico. Combustible: 1 x 1500 l, AdBlue: 2 x 85 l.                                                                                    |
| <b>Tambores de cable</b>                     | El equipamiento de serie de la superestructura incluye tres tambores de cable: cabestrante 1, cabestrante 2 y cabestrante de pluma. Los tambores son accionados por motores hidráulicos a través de engranajes planetarios en cárter cerrado y baño de aceite. Todos los tambores de cable tienen frenos multidisco accionados por muelle y soltados hidráulicamente, y frenado sin desgaste para reducir el peso. Los extremos de los cables H 1, 2, 3 y W 1, 2 están equipados con accesorios de conexión rápida. Los cabestrantes H1 y 2 y el caballete con cabestrante de pluma pueden desmontarse para reducir al mínimo el peso para su transporte. |
| <b>Caballete</b>                             | Los cilindros en la superestructura para elevar el caballete están incluidos de serie.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Mecanismo de giro</b>                     | Accionado por cuatro motores hidráulicos a través de engranajes planetarios en cárter cerrado y baño de aceite. Freno de parada accionado por muelle y soltado hidráulicamente, y frenado sin desgaste.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Sistema de control</b>                    | IC-1: Control piloto electrónico de válvulas proporcionales integrado en un sistema de control por programa almacenado, incluido diagnóstico. Monitores de dos colores, indicador de carga operado por pantalla táctil. Velocidades de trabajo controladas en progresión continua por la posición de la palanca. Control automático de potencia para un aprovechamiento óptimo de la potencia del motor. De serie: limitación del área de trabajo, indicador de presión sobre el terreno, así como de la carga de los estabilizadores.                                                                                                                    |
| <b>Cabina</b>                                | Confortable cabina con amplio parabrisas y aire acondicionado. Lunas de vidrio laminado, luna en el techo, calefacción de aire caliente autónoma, instrumentos y controles completos de la grúa. La cabina puede ser inclinada hacia atrás para mejorar la visibilidad de manejo de la pluma. Ha sido instalado un sistema de cámara para supervisar los tambores de cable. Para su transporte, la cabina gira delante de la superestructura para reducir la anchura al mínimo.                                                                                                                                                                           |
| <b>Equipamiento eléctrico</b>                | Sistema de 24 V (2 baterías de 12 V / 180 Ah).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Conexión rápida</b>                       | Los accesorios hidráulicos de desconexión rápida en el chasis y en la superestructura facilitan el desmontaje para reducir al mínimo el peso para su transporte, de serie.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Equipamiento opcional

|                                          |                                                                      |
|------------------------------------------|----------------------------------------------------------------------|
| <b>Cilindro hidráulico del caballete</b> | Para el automontaje de orugas.                                       |
| <b>Estabilizadores laterales</b>         | Para erigir sistemas de pluma larga.                                 |
| <b>Carro de contrapeso</b>               | Peso total máx. 450 t, en combinación con el sistema telescópico SL. |
| <b>Estabilizadores PC</b>                | Base de estabilizador 14 x 14 m. Como alternativa a las orugas.      |

¡Otras opciones a petición!

# Descripción técnica

| Configuraciones de pluma S y L                    |                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SH:</b>                                        | Pluma principal: tramo de pie 12 m, tramos intermedios 6 m, 10,5 m y 12 m (tipo 3328), cabeza de la pluma 1,5 m.<br>Longitudes de pluma principal: 36-96 m.                                                                                                                                                                           |
| <b>SH / LH:</b><br><b>(SGL variable)</b>          | Pluma principal: tramos de pie 12 m, tramos intermedios 6 m, 10,5 m y 12 m (tipo 3328), tramo reductor, extendida con tramos intermedios 6 m y 12 m (tipo 2822), tramo superior 7,5 m.<br>Longitudes de pluma principal: 48-108 m.                                                                                                    |
| <b>LH:</b>                                        | Pluma principal: tramo de pie 12 m, tramo intermedio 10,5 m (tipo 3328), tramo reductor, extendida con tramos intermedios 6 m y 12 m (tipo 2822), tramo superior 7,5 m.<br>Longitudes de pluma principal: 48-114 m.                                                                                                                   |
| <b>SW:</b>                                        | Pluma principal: igual que SH. Inclínable de 87° a 65°.<br>Plumín abatible: tramo de pie 4,5 m, tramo intermedio 12 m (tipo 3328), tramo reductor, extendido con tramo intermedio 6 m y tramos intermedios 12 m (tipo 2822), tramo superior 7,5 m.<br>Longitudes de pluma principal: 42-60 m.<br>Longitudes de plumín: 30-96 m.       |
| <b>SSL:</b>                                       | Pluma principal: igual que SH. Equipamiento Superlift.<br>Longitudes de pluma principal: 42-96 m.                                                                                                                                                                                                                                     |
| <b>SSL / LSL:</b><br><b>(SGL 94,5 m)</b>          | Pluma principal: tramo de pie 12 m, tramos intermedios 6 m, 10,5 m y 12 m (tipo 2822), tramo reductor, extendido con tramos intermedios 6 m y 12 m (tipo 2822), tramo superior 7,5 m. Equipamiento Superlift.<br>Longitudes de pluma principal: 102-150 m.                                                                            |
| <b>SSL / LSL S1:</b>                              | Pluma principal: igual que SSL, extensión con kit de refuerzo de pluma + tramo superior de plumín.<br>Longitudes de pluma principal: 66-156 m.                                                                                                                                                                                        |
| <b>SWSL / SFSL:</b>                               | Pluma principal: igual que SH. Inclínable de 87° a 45°.<br>Plumín abatible: igual que SW. Equipamiento Superlift.<br>Longitudes de pluma principal: 48-96 m.<br>Longitudes de plumín: 30-108 m.                                                                                                                                       |
| <b>SFVL:</b>                                      | Pluma principal: igual que SH. Equipamiento Superlift.<br>Extensión rígida: tramo de pie 4,5 m, tramo intermedio 12 m (tipo 3328), cabeza SFVL adicional incluida.<br>Longitudes de pluma principal: 48-72 m.<br>Longitud de plumín: 18 m.                                                                                            |
| <b>LFVL:</b>                                      | Pluma principal: igual que SH. Equipamiento Superlift.<br>Extensión rígida: tramo de pie 4,5 m, tramo reductor, parte superior 7,5 m.<br>Longitudes de pluma principal: 48-96 m.<br>Longitud de plumín: 18 m.                                                                                                                         |
| <b>+LF:</b>                                       | Adicionalmente a la configuración de pluma principal SH, SSL, SH/LH, SSL/LSL, SSL/LSL S1.<br>Longitudes de plumín: 15 m, 21 m, 27 m, 33 m.<br>Ángulos de plumín: 15°, 20°, 30°.<br>Runner en LF máx. 24 t de serie.                                                                                                                   |
| <b>Fijación de la pluma</b>                       | Fijación de tramos de pluma por pernos asistidos hidráulicamente de serie.                                                                                                                                                                                                                                                            |
| <b>Cabestrante pasador</b>                        | Montado en la superestructura.                                                                                                                                                                                                                                                                                                        |
| <b>Dispositivos de seguridad</b>                  | Indicador electrónico de carga, interruptor de límite de elevación para movimientos de pluma, retén hidráulico de pluma, anemómetro.                                                                                                                                                                                                  |
| Equipamiento opcional                             |                                                                                                                                                                                                                                                                                                                                       |
| <b>Motor EU Stage IIIA / EPA Tier 3</b>           | <b>Opcional para los mercados no regulados:</b> Dos motores diésel Mercedes-Benz, tipo OM460LA, 6 cilindros, 2 x 315 kW (2 x 422 HP) a 1800 rpm. Par 2000 Nm a 1300 rpm. Los motores cumplen con la normativa de emisiones UE fase IIIA / EPA Tier 3. Sistema de escape de acero inoxidable con parachispas. Combustible: 1 x 1500 l. |
| <b>Kit de refuerzo para la pluma principal S1</b> | Consistente en máx. 3 tramos de pluma adicionales (2 de pluma principal, 1 de plumín); la pluma principal estándar requiere 96 m.                                                                                                                                                                                                     |
| <b>Equipamiento Superlift de serie</b>            | Mástil 40,5 m (tipo 2322), bandeja de contrapeso para máx. 450 t. Radios de Superlift 15 m, 18 m, 21 m, 24 m.                                                                                                                                                                                                                         |
| <b>Superlift variable equipamiento</b>            | Mástil 40,5 m (tipo 2322), bandeja de contrapeso para máx. 450 t. Radio de Superlift en progresión continua durante la operación de 15 a 24 m. Cilindro vertical y sistema estabilizador para contrapeso Superlift.                                                                                                                   |
| <b>Superlift con carro de contrapeso</b>          | Mástil 40,5 m (tipo 2322), carro de contrapeso para máx. 450 t. Radio de superlift en progresión continua durante la operación de 18 a 24 m.                                                                                                                                                                                          |
| <b>Add on radio SL</b>                            | 24-30 m (bandeja y bastidor), sólo SSL, SSL/LSL y SSL/LSL S1.                                                                                                                                                                                                                                                                         |
| <b>Cabestrante H3</b>                             | Tambor de cable adicional en pluma principal (para operación de LF o runner). Tiro de cable igual que H1, longitud de cable 700 m.                                                                                                                                                                                                    |
| <b>Runner 46 t</b>                                | Aprox. 2 m para instalación en la cabeza de pluma o tramo superior.                                                                                                                                                                                                                                                                   |
| <b>Protección contra caídas</b>                   | Sistema de protección contra caídas para pluma principal, plumín y mástil Superlift.                                                                                                                                                                                                                                                  |
| <b>Kit de pluma S3 LF3</b>                        | Para aplicaciones de energía eólica sin Superlift, alturas de gancho de 112 m - 132 m.                                                                                                                                                                                                                                                |

# Descrição técnica

## Veículo sobre esteiras

Veículo de 3 seções formado pelo chassi com estabilizadores retráteis para transporte e duas esteiras. Conexões por pinos hidráulicos entre as esteiras e o chassi facilitam a instalação e a retirada, diminuindo a largura e o peso para o transporte.

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Base de giro central</b>             | Estrutura soldada resistente a flexão e torção fabricada com aço estrutural de granulação fina e alta resistência.                                                                                                                                                                                                                                                                                                                                    |
| <b>Estruturas laterais das esteiras</b> | Estrutura soldada resistente à flexão fabricada com aço estrutural de granulação fina e alta resistência. Lubrificação centralizada incluída como item de série.                                                                                                                                                                                                                                                                                      |
| <b>Esteiras</b>                         | Esteiras de 15 roletes com superfícies cementadas. Posição elevada das engrenagens motoras e das rodas livres, todas com retesamento das esteiras ajustável para a capacidade de carga no içamento. Cada esteira tem controle de variação infinita, tanto em modo independente quanto em sentidos inversos.                                                                                                                                           |
| <b>Sistema de transmissão</b>           | As esteiras são comandadas por dois motores hidráulicos cada uma, através de caixas fechadas com engrenagens planetárias em banho de óleo, equipadas com freios de retenção com liberação hidráulica por ação de mola. As caixas têm construção bastante compacta, próprias para a largura das esteiras. Cada esteira tem controle de variação infinita, tanto em modo independente quanto em sentidos inversos. Tração quádrupla como item de série. |
| <b>Lastro central</b>                   | 80 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Superestrutura

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contrapeso</b>                               | 250 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chassi</b>                                   | Estrutura soldada resistente a flexão e torção fabricada com aço estrutural de granulação fina e alta resistência.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Acionamento<br/>EU Stage V / EPA Tier 4f</b> | Dois motores a diesel Mercedes-Benz, tipo OM470LA, 6 cilindros, 2 x 320 kW (2 x 429 HP) a 1600 rpm. Torque de 2100 Nm a 1300 rpm. Os motores cumprem as normas de emissões Stage V da UE e Tier 4f da EPA. Duas caixas de engrenagens de distribuição para as bombas com um total de seis bombas de pistão axial com deslocamento variável e bombas de engrenagens adicionais. Escapamento em aço inoxidável com filtro de partículas, catalisador SCR e certificado de extintor de faíscas. Motor com cobertura para isolamento acústico. Combustível: 1 x 1500 l, AdBlue: 2 x 85 l.                     |
| <b>Tambores dos cabos de aço</b>                | O equipamento padrão da superestrutura inclui três tambores para cabos de aço – guincho 1, guincho 2 e guincho da lança. Os tambores são comandados por motores hidráulicos através de caixas fechadas com engrenagens planetárias em banho de óleo. Todos os tambores contam com freios multidisco de liberação hidráulica por ação de mola e frenagem hidráulica sem desgaste para a descida das cargas. Pontas dos cabos H 1, 2, 3 e W 1, 2 equipadas com conexões de engate rápido. Os guinchos H1, H2 e do suporte angular com o guincho da lança são removíveis para otimizar o peso de transporte. |
| <b>Suporte angular</b>                          | Os cilindros na superestrutura para elevar o suporte angular são itens de série.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Unidades de giro</b>                         | Comandadas por quatro motores hidráulicos através de caixas fechadas com engrenagens planetárias em banho de óleo. Freio de retenção com liberação hidráulica por ação de mola e frenagem hidráulica sem desgaste.                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Sistema de controle</b>                      | IC-1: Controle eletrônico proporcional do piloto da válvula integrado ao sistema de controle por programa armazenado incluindo diagnósticos. Dois monitores coloridos, indicador de carga operado através de tela de toque. Velocidades de trabalho infinitamente variáveis, controladas pela posição da alavanca. Controle automático de potência para máxima utilização do rendimento do motor. Limitação do raio de trabalho, indicador da pressão sobre o solo e indicador de carga sobre os estabilizadores como itens de série.                                                                     |
| <b>Cabine</b>                                   | Cabine confortável com amplo parabrisa e ar condicionado. Vidro laminado em toda a volta, teto solar, aquecedor de ar autônomo, instrumentação completa e controles do guindaste. A cabine pode ser reclinada para melhorar a visão da ponta da lança pelo operador. Há um sistema de câmera instalado para monitorar os tambores dos cabos de aço. Para transporte, a cabine rebate para a frente da superestrutura a fim de diminuir a largura.                                                                                                                                                         |
| <b>Equipamentos elétricos</b>                   | Sistema de 24 V (2 baterias de 12 V / 180 Ah).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Conexão rápida</b>                           | Conexões hidráulicas de desengate rápido no veículo e na superestrutura facilitam a remoção para diminuir o peso de transporte. Itens de série.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Equipamentos opcionais

|                                                  |                                                              |
|--------------------------------------------------|--------------------------------------------------------------|
| <b>Suporte angular com cilindros hidráulicos</b> | Para automontagem das esteiras.                              |
| <b>Estabilizadores laterais</b>                  | Para montagem de sistemas de lança longa.                    |
| <b>Veículo dos contrapesos</b>                   | Peso máx. total 450 t, combinado com sistema telescópico SL. |
| <b>Estabilizadores para PC</b>                   | Base estabilizadora 14 x 14 m. Alternativa para as esteiras. |

Outros opcionais a pedido!



# Descrição técnica

## Configurações de lança S e L

|                                   |                                                                                                                                                                                                                                                                                                               |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SH:</b>                        | Lança principal: seção do pé 12 m, suplementos de 6 m, 10,5 m e 12 m (tipo 3328), cabeça da lança 1,5 m. Comprimentos da lança principal: 36-96 m.                                                                                                                                                            |
| <b>SH / LH:</b><br>(SGL variável) | Lança principal: seções do pé 12 m, suplementos de 6 m, 10,5 m e 12 m (tipo 3328), suplemento cônico, prolongado por suplementos de 6 m e 12 m (tipo 2822), seção de topo 7,5 m. Comprimentos da lança principal: 48-108 m.                                                                                   |
| <b>LH:</b>                        | Lança principal: seção do pé 12 m, suplemento 10,5 m (tipo 3328), suplemento cônico, prolongado por suplementos de 6 m e 12 m (tipo 2822), seção de topo 7,5 m. Comprimentos da lança principal: 48-114 m.                                                                                                    |
| <b>SW:</b>                        | Lança principal: igual à SH. Inclinação 87° a 65°. Lança auxiliar articulada: seção do pé 4,5 m, suplemento 12 m (tipo 3328), suplemento cônico, suplemento de 6 m e suplementos de 12 m (tipo 2822), seção de topo 7,5 m. Comprimentos da lança principal: 42-60 m. Comprimentos da lança auxiliar: 30-96 m. |
| <b>SSL:</b>                       | Lança principal: igual à SH. Equipamento Superlift. Comprimentos da lança principal: 42-96 m.                                                                                                                                                                                                                 |
| <b>SSL / LSL:</b><br>(SGL 94,5 m) | Lança principal: seção do pé 12 m, suplementos de 6 m, 10,5 m e 12 m (tipo 2822), suplemento cônico, prolongado por suplementos de 6 m e 12 m (tipo 2822), seção de topo 7,5 m. Equipamento Superlift. Comprimentos da lança principal: 102-150 m.                                                            |
| <b>SSL / LSL S1:</b>              | Lança principal: igual à SSL, alongada por kit de expansão da lança principal + seção de topo da auxiliar. Comprimentos da lança principal: 66-156 m.                                                                                                                                                         |
| <b>SWSL / SFSL:</b>               | Lança principal: igual à SH. Inclinação 87° a 45°. Lança auxiliar articulada: igual à SW. Equipamento Superlift. Comprimentos da lança principal: 48-96 m. Comprimentos da lança auxiliar: 30-108 m.                                                                                                          |
| <b>SFVL:</b>                      | Lança principal: igual à SH. Equipamento Superlift. Lança auxiliar fixa: seção do pé 4,5 m, suplemento 12 m (tipo 3328), cabeça SFVL adicional incluída. Comprimentos da lança principal: 48-72 m. Comprimento da lança auxiliar: 18 m.                                                                       |
| <b>LFVL:</b>                      | Lança principal: igual à SH. Equipamento Superlift. Lança auxiliar fixa: seção do pé 4,5 m, complemento cônico, seção de topo 7,5 m. Comprimentos da lança principal: 48-96 m. Comprimento da lança auxiliar: 18 m.                                                                                           |
| <b>+LF:</b>                       | Em acréscimo às configurações da lança principal SH, SSL, SH/LH, SSL/LSL, SSL/LSL S1. Comprimentos da lança auxiliar: 15 m, 21 m, 27 m, 33 m. Inclinação da lança auxiliar: 15°, 20°, 30°. Ponta de montagem na LF máx. 24 t série.                                                                           |
| <b>Pinagem da lança</b>           | A pinagem hidráulica assistida das seções da lança é característica de série.                                                                                                                                                                                                                                 |
| <b>Guincho de passagem</b>        | Montado na superestrutura.                                                                                                                                                                                                                                                                                    |
| <b>Equipamentos de segurança</b>  | Indicador eletrônico de carga, chave limitadora do guincho para os movimentos da lança, batentes hidráulicos da lança, anemômetro.                                                                                                                                                                            |

## Equipamentos opcionais

|                                              |                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Motor EU Stage IIIA/ EPA Tier 3</b>       | <b>Opcional para mercados não regulados:</b> Dois motores a diesel Mercedes-Benz, tipo OM460LA, 6 cilindros, 2 x 315 kW (2 x 422 HP) a 1800 rpm. Torque de 2000 Nm a 1300 rpm. Os motores cumprem as normas de emissões Stage IIIA da UE e Tier 3 da EPA. Escapamento em aço inoxidável com extintor de faíscas. Combustível: 1 x 1500 l. |
| <b>Kit de expansão da lança principal S1</b> | Consistindo de no máx. 3 seções adicionais (2 da lança principal, 1 da auxiliar); Necessária lança principal padrão de 96 m.                                                                                                                                                                                                              |
| <b>Equipamento Superlift de série</b>        | Mastro 40,5 m (tipo 2322), base de contrapesos para máx. 450 t. Raios do Superlift de 15 m, 18 m, 21 m, 24 m.                                                                                                                                                                                                                             |
| <b>Superlift variável equipamento</b>        | Mastro 40,5 m (tipo 2322), base de contrapesos para máx. 450 t. Raio do Superlift infinitamente variável entre 15 e 24 m durante a operação. Cilindro vertical e sistema estabilização para contrapesos do Superlift.                                                                                                                     |
| <b>Superlift com veículo dos contrapesos</b> | Mastro 40,5 m (tipo 2322), veículo dos contrapesos para máx. 450 t. Raio do superlift infinitamente variável entre 18 e 24 m durante a operação.                                                                                                                                                                                          |
| <b>Aumento no raio do SL</b>                 | 24-30 m (plataforma e vaículo), somente SSL, SSL/LSL e SSL/LSL S1.                                                                                                                                                                                                                                                                        |
| <b>Guincho H3</b>                            | Tambor adicional para cabos na lança principal (para operação com LF ou runner). Tração da linha igual ao H1, comprimento do cabo 700 m.                                                                                                                                                                                                  |
| <b>Runner 46 t</b>                           | Aprox. 2 m para instalação da cabeça da lança ou seção de topo.                                                                                                                                                                                                                                                                           |
| <b>Proteção contra quedas</b>                | Sistema de proteção contra quedas para a lança principal, lança auxiliar e mastro do Superlift.                                                                                                                                                                                                                                           |
| <b>Kit de braço S3 LF3</b>                   | Para aplicações de energia eólica sem Superlift, alturas de gancho de 112 m a 132 m.                                                                                                                                                                                                                                                      |

# Техническое описание

## Гусеничное шасси

3-секционное шасси экскаватора, включающее корпус шасси со сложенными для транспортировки выдвжными опорами и две гусеницы. Штифтовые соединения корпуса шасси и гусениц, обслуживаемые гидравликой, обеспечивают легкость сборки и разборки для уменьшения ширины и веса при транспортировке.

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Центральная коробка</b>  | Сварная конструкция из устойчивой к изгибу и кручению высокопрочной мелкозернистой конструкционной стали.                                                                                                                                                                                                                                                                                                                                             |
| <b>Боковые стенки шасси</b> | Сварная конструкция из устойчивой к изгибу высокопрочной мелкозернистой конструкционной стали. Система централизованной смазки в стандартной комплектации.                                                                                                                                                                                                                                                                                            |
| <b>Гусеницы</b>             | Катки с 15 траками с закаленной поверхностью качения. Подъем как ведущих звездочек так и не приводных колес, ведущие звездочки и не приводные колеса обеспечивают грузоподъемность необходимую для сборки, регулируемое натяжение гусениц. Бесступенчатая регулировка движения каждой гусеницы, раздельно и в противоположном направлении.                                                                                                            |
| <b>Силовая передача</b>     | Гусеничные цепи приводятся в движение двумя гидравлическими двигателями, каждый через свою планетарную передачу, вращающуюся в масляной ванне в закрытом корпусе, каждая имеет подпружиненный тормоз с гидроусилителем. Редукторы имеют исключительно компактную конструкцию и не выходят за ширину гусениц. Бесступенчатая регулировка движения каждой гусеницы, раздельно и в противоположном направлении. Квадропривод в стандартной комплектации. |
| <b>Центральный балласт</b>  | 80 т.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Надстройка

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Противовес</b>                          | 250 т.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Рама</b>                                | Сварная конструкция из устойчивой к изгибу и кручению высокопрочной мелкозернистой конструкционной стали.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Привод<br/>EU Stage V / EPA Tier 4f</b> | Два дизельных двигателя Mercedes-Benz, тип OM470LA, 6 цилиндров, 2 x 320 кВт (2 x 429 л.с.) при 1600 об/мин. Крутящий момент 2100 Нм при 1300 об / мин. Двигатели соответствуют нормам токсичности выхлопных газов EU Stage V / EPA Tier 4f. Две раздаточные коробки привода насосов с шестью аксиально-поршневыми насосами регулируемого объема и дополнительными шестеренчатыми насосами. Выхлопная система из нержавеющей стали с сажевым фильтром, катализатором SCR и сертифицированным искрогасителем. Двигатель для звукоизоляции снабжен кожухом. Топливо: 1 x 1500 л, AdBlue: 2 x 85 л.                       |
| <b>Канатные барабаны</b>                   | Стандартная комплектация оборудования надстройки включает три канатных барабана – лебедки 1, лебедки 2 и лебедки стрелы. Барабаны приводятся в движение гидравлическими двигателями через планетарную передачу, вращающуюся в масляной ванне в закрытом корпусе. Каждый канатный барабан имеет подпружиненный многодисковый тормоз с гидроусилителем и неизнашивающийся гидравлический тормоз для опускания груза. Концы тросов для лебедок H 1, 2, 3 и W 1, 2 имеют быстроразъемные соединительные концевые фитинги. Лебедки H 1 и H 2 и А-образная рама с лебедкой стрелы съемные для уменьшения веса при перевозке. |
| <b>А-образная рама</b>                     | А-образная рама поднимается при помощи цилиндров, установленных на надстройке, входящих в стандартную комплектацию.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Узлы поворотных механизмов</b>          | Приводятся в движение четырьмя гидравлическими двигателями через планетарную передачу, вращающуюся в масляной ванне в закрытом корпусе. Подпружиненный тормоз с гидроусилителем и неизнашивающийся гидравлический тормоз.                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Система управления</b>                  | IS-1: Заложенная в установленную программу управления, включающую диагностику, система электронного пропорционального управления через регулирующие клапаны. Два цветных монитора, индикатор нагрузки, управляемый через сенсорный экран. Бесступенчатая регулировка рабочих скоростей изменением положения рычага. Автоматическая регулировка мощности для оптимизации выходной мощности двигателя. Ограничитель рабочего диапазона, индикатор давления на грунт и индикатор нагрузки на опоры в стандартной комплектации.                                                                                            |
| <b>Кабина</b>                              | Комфортабельная кабина с большим ветровым стеклом и кондиционером. Все остекление из ламинированного стекла, потолочный люк, отдельный воздушный обогреватель, полный комплект приборов и органов управления краном. Кабина откидывается назад для лучшего обзора конца стрелы крана. Для управления канатными барабанами установлена система камер. Для транспортировки кабина разворачивается и устанавливается перед надстройкой, чтобы уменьшить ширину.                                                                                                                                                           |
| <b>Электрическое оборудование</b>          | Система с напряжением 24 В (2 аккумулятора 12 В/180 А-ч).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Быстроразъемное соединение</b>          | Система гидравлических быстроразъемных фитингов на шасси и надстройке, облегчающих разборку для снижения веса при перевозке, в стандартной комплектации.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Дополнительное оборудование

|                                                                |                                                                                                 |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>А-образная рама с гидравлическим цилиндром</b>              | Для самосборки гусениц.                                                                         |
| <b>Боковые выдвжные опоры</b>                                  | Для сборки систем с длинной стрелой.                                                            |
| <b>Платформа для перевозки противовесов</b>                    | Общий вес максимум 450 т вместе с системой телескопической стрелы SL.                           |
| <b>Выдвжные опоры для сборки в версии пьедестального крана</b> | Площадь опоры выдвжных опор 14 x 14 м. Как альтернатива может использоваться опора на гусеницы. |

Дополнительные опции на заказ!



# Техническое описание

## Варианты конфигурации стрел S и L

|                                                  |                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SH:</b>                                       | Главная стрела: нижняя секция 12 м, вставки 6 м, 10,5 м и 12 м (тип 3328), головка стрелы 1,5 м.<br>Главная стрела: 36-96 м.                                                                                                                                                                           |
| <b>SH / LH:</b><br>(стрела SGL переменной длины) | Главная стрела: нижняя секция 12 м, вставки 6 м, 10,5 м и 12 м (тип 3328), сужающаяся вставка, удлиненная вставками 6 м и 12 м (тип 2822), верхняя секция 7,5 м.<br>Главная стрела: 48-108 м.                                                                                                          |
| <b>LH:</b>                                       | Главная стрела: нижняя секция 12 м, вставка 10,5 м (тип 3328), сужающаяся вставка, удлиненная вставками 6 м и 12 м (тип 2822), верхняя секция 7,5 м.<br>Главная стрела: 48-114 м.                                                                                                                      |
| <b>SW:</b>                                       | Главная стрела: идентична SH. Угол смещения 87°-65°.<br>Стрела с изменяемым вылетом и гуськом нижняя секция 4,5 м, вставка 12 м (тип 3328), сужающаяся вставка, вставки 6 м и 12 м (тип 2822), верхняя секция 7,5 м.<br>Главная стрела: 42-60 м.<br>Длина вылета стрелы с изменяемым вылетом: 30-96 м. |
| <b>SSL:</b>                                      | Главная стрела: идентична SH. Оборудование суперлифт.<br>Главная стрела: 42-96 м.                                                                                                                                                                                                                      |
| <b>SSL / LSL:</b><br>(SGL 94.5 м)                | Главная стрела: нижняя секция 12 м, вставки 6 м, 10,5 м и 12 м (тип 2822), сужающаяся вставка, удлиненная вставками 6 м и 12 м (тип 2822), верхняя секция 7,5 м. Оборудование суперлифт.<br>Главная стрела: 102-150 м.                                                                                 |
| <b>SSL / LSL S1:</b>                             | Главная стрела: идентична SSL, удлиненной за счет комплекта boom power-kit+ верхней секции стрелы.<br>Главная стрела: 66-156 м.                                                                                                                                                                        |
| <b>SWSL / SFSL:</b>                              | Главная стрела: идентична SH. Угол смещения 87°-45°.<br>Стрела с изменяемым вылетом и гуськом идентична SW. Оборудование суперлифт.<br>Главная стрела: 48-96 м.<br>Длина вылета стрелы с изменяемым вылетом: 30-108 м.                                                                                 |
| <b>SFVL:</b>                                     | Главная стрела: идентична SH. Оборудование суперлифт.<br>Неподвижная стрела: нижняя секция 4,5 м, вставка 12 м (тип 3328), включает дополнительную головку SFVL.<br>Главная стрела: 48-72 м.<br>Длина вылета стрелы с изменяемым вылетом: 18 м.                                                        |
| <b>LFVL:</b>                                     | Главная стрела: идентична SH. Оборудование суперлифт.<br>Неподвижная стрела: нижняя секция 4,5 м, сужающаяся вставка, верхняя секция 7,5 м.<br>Главная стрела: 48-96 м.<br>Длина вылета стрелы с изменяемым вылетом: 18 м.                                                                             |
| <b>+LF:</b>                                      | в дополнение к конфигурации главной стрелы SH, SSL, SH/LH, SSL/LSL, SSL/LSL S1.<br>Длина вылета стрелы с изменяемым вылетом: 15 м, 21 м, 27 м, 33 м.<br>Угол смещения стрелы с изменяемым вылетом: 15°, 20°, 30°.<br>Подвижной блок на LF максимум 24 т в стандартной комплектации.                    |
| <b>Соединение штифтами стрелы</b>                | Гидравлическая система соединения штифтами секций стрелы входит в стандартную комплектацию.                                                                                                                                                                                                            |
| <b>Запасовочная лебедка</b>                      | Установлена на надстройке.                                                                                                                                                                                                                                                                             |
| <b>Вспомогательные приборы управления</b>        | Электронный индикатор нагрузки, концевой выключатель ограничителя движения стрелы, гидравлические ограничители обратного хода стрелы, анемометр.                                                                                                                                                       |

## Дополнительное оборудование

|                                                                  |                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Двигатель EU Stage IIIA / EPA Tier 3</b>                      | <b>Опция для нерегулируемых рынков:</b> Два дизельных двигателя Mercedes-Benz, тип OM460LA, 6 цилиндров, 2 x 315 кВт (2 x 422 л. с.) при 1800 об / мин. Крутящий момент 2000 Нм при 1300 об / мин. Двигатели соответствуют нормам выбросов EU Stage IIIA / EPA Tier 3. Выхлопная система из нержавеющей стали с искрогасителем.<br>Топливо: 1 x 1500 л. |
| <b>Комплект Power-kit для главной стрелы S1</b>                  | Включающий максимально 3 дополнительные секции (2 главной стрелы, 1 дополнительной стрелы); Обязательное условие – наличие главной стрелы длиной 96 м.                                                                                                                                                                                                  |
| <b>Стандартный комплект оборудования суперлифт</b>               | Мачта 40,5 м (тип 2322), платформа для противовесов на максимальный вес 450 т. Рабочий радиус комплекта оборудования суперлифт 15 м, 18 м, 21 м, 24 м.                                                                                                                                                                                                  |
| <b>Оборудование суперлифт с регулировкой по весу подъема</b>     | Мачта 40,5 м (тип 2322), платформа для противовесов на максимальный вес 450 т. Бесступенчатая регулировка радиуса суперлифт в процессе подъема в диапазоне 15-24 м. Цилиндрвертикального подъема и система стабилизаторов для противовесов системы суперлифт.                                                                                           |
| <b>Система суперлифт с тягачом и платформой для противовесов</b> | Мачта 40,5 м (тип 2322), тягач с платформой для противовесов на максимальный вес 450 т. Бесступенчатая регулировка радиуса суперлифт в процессе подъема в диапазоне 18-24 м.                                                                                                                                                                            |
| <b>Добавить к радиусу SL</b>                                     | 24-30 м (длина платформы и шасси), только SSL, SSL/LSL и SSL/LSL S1.                                                                                                                                                                                                                                                                                    |
| <b>Лебедка H3</b>                                                | Дополнительный канатный барабан на главной стреле (для стрелы LF или подвижного блока). Тяговое усилие на тросе то же, что и для лебедки H1, длина троса 700 м.                                                                                                                                                                                         |
| <b>Подвижной блок на 46 т</b>                                    | Прибл. 2 м для установки на головке стрелы или верхней секции.                                                                                                                                                                                                                                                                                          |
| <b>Защита от падения с высоты</b>                                | Защита от падения с высоты на главной стреле, стреле с изменяемым вылетом и мачте суперлифт.                                                                                                                                                                                                                                                            |
| <b>Комплект для стрелы S3-boom-kit LF3</b>                       | Для возведения ветрогенераторных установок без использования Superlift, высота до крюка 112 м -132 м.                                                                                                                                                                                                                                                   |

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