

# Technical Data

## Specifications & Capacities

# LC550

**Telescopic Crawler Crane**

55 US ton (51 metric ton)



CAUTION: This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities, assembly, and operating procedures.

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# Upper Structure

## Frame

All welded steel frame with precision machined surfaces for mating parts.

### Turntable Bearing

- Inner race is bolted to upper frame
- Outer race with external swing gear is bolted to lower frame

## Engine

### Engine

- Full pressure lubrication, oil filter, air cleaner, hour meter, throttle, and electric control shutdown.
- Centralized fuel and oil filter

| Specification                                                                                                                                                                                                                                                           | Cummins QSB                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Emissions Compliance Level:                                                                                                                                                                                                                                             | Tier 4f Stage IV <sup>(1)</sup> |
| Numbers of Cylinders                                                                                                                                                                                                                                                    | 6                               |
| Cycle                                                                                                                                                                                                                                                                   | 4                               |
| Bore & Stroke: inch (mm)                                                                                                                                                                                                                                                | 4.21 x 4.88 (107 x 124)         |
| Piston Displacement: in³ (L)                                                                                                                                                                                                                                            | 409 (6.7)                       |
| Max. Brake Horsepower: hp (kW)                                                                                                                                                                                                                                          | 215 (160)@ 1,800 rpm            |
| Peak Torque: ft lb (Nm)                                                                                                                                                                                                                                                 | 700 (949)@ 1,500 rpm            |
| Alternator: volt – amps                                                                                                                                                                                                                                                 | 12 – 150                        |
| Crankcase Capacity: qt (L)                                                                                                                                                                                                                                              | 19 (18)                         |
| <ul style="list-style-type: none"> <li>• Engine driven variable speed viscous fan clutch and thermostatically controlled radiator</li> <li>• (1) Can only be sold and / or operated where Tier 4f and Stage IV off-high way emission standards are accepted.</li> </ul> |                                 |

### Fuel Tank

One 80 gal (303L) capacity fuel tank.

### Diesel Exhaust Fluid (DEF)

One 5 gal (18.9L) capacity DEF tank

### Diesel Coolant Heater – Optional –

A programmable engine heater that uses diesel fuel to preheat the coolant.

## Hydraulic System

### Hydraulic Pumps

The pump arrangement is designed to provide hydraulically powered functions allowing positive, precise control with in-dependent or simultaneous operation of all crane functions.

- Two variable displacement pumps provide independent control for hoist drums, boom hoist, boom extend, and right & left travel.
- Two gear type pumps are used for the swing, retract cylinders & operator's controls, and hydraulic oil cooling fan.

### Hydraulic Reservoir

- 133 gal (504L) capacity equipped with sight level gauge. Diffusers built in for deaeration.
- Optional hydraulic arctic temperature oil

### Filtration

One 10 micron, full flow return line filter. Accessible for easy filter replacement.

### Counterbalance Valves

All hoist motors are equipped with counterbalance valves to provide positive load lowering and prevent accidental load drop if the hydraulic pressure is suddenly lost.

## Load Hoist Drums

### Main and Optional Auxiliary Winches

- Axial piston, full and half displacement (2-speed) motor driven through planetary reduction unit for positive control under all load conditions.
- Grooved lagging
- Power up/down mode of operation
- Hoist drum cable follower – optional
- Drum rotation indicator
- Drum diameter: 10.63 in (27cm)
- Rope length:
  - Main: 550 ft (167.6m)
  - Auxiliary: 450 ft (137.2m) or 550 ft (167.6m)
  - Maximum rope storage: 737 ft (224.6m)
  - Terminator style socket and wedge

**Third Wrap Indicator – Optional** – Visually and audibly warns the operator when the wire rope is on the first/bottom layer and when the wire rope is down to the last three wraps.

**Third Wrap Function Kickout – Optional** – Visually and audibly warns the operator when the wire rope is on the first/bottom layer and provides a function kickout when the wire rope is down to the last three wraps.

## Swing System

**Motor/Planetary** – Bi-directional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 2.0 rpm

**Swing Park Brake** – 360°, electric over hydraulic, (spring applied/hydraulic released) multi-disc brake mounted on the speed reducer. Operated by a switch in the operator's cab.

**Swing Brake** – 360°, foot operated, hydraulic swing valve regulates flow to the swing motor acting as a service brake

**House Lock** – Two-position house lock (boom over front or rear) operated from the operator's cab

## Counterweight

Consists of a standard two piece design.

- One "A" counterweight, 12,000 lb (5 443kg)
- One "B" counterweight, 13,000 lb (5 897kg)
- Optional upper hydraulic counterweight removal
- Optional XL Counterweight Package:
  - One "C" upper counterweight, 5,000 lb (2 668kg)
  - Two "A" hook & pin lower carbody counterweight, 3,000 lb (1 361kg)

## Operator's Cab

Fully enclosed modular steel compartment is independently mounted and padded to protect against vibration and noise.

- All tinted/tempered safety glass
- Sliding entry door and rear window
- Swing up top hatch window
- Front windshield and top hatch windshield wiper
- Door and window locks
- Air Conditioner
- Hot water heater
- Defroster
- Adjustable sun visor
- Cup Holder
- Six way adjustable, cushioned seat with seat belt and storage compartments
- Fire extinguisher
- House lock lever
- Boom telescope foot pedal
- Swing brake foot pedal
- Travel foot pedals with removable hand levers
- Throttle pedal
- Single axis controls
- Bubble type level
- Ergonomic switch layout
- Emergency-Stop Button
- Monitor for rear view, winch view, and right side cameras
- AM/FM/NOAA Radio/Bluetooth
- First aid kit
- One amber Strobe Light
- Cab mounted external work light
- Optional dual-axis (joystick) controls
- Optional 360° rotating beacon light
- Optional External RCL Lightbar

## Machinery House

- Centralized electrical and greasing locations
- Battery disconnects
- Hour meter
- Sound pad insulation on house doors
- Upper centralized grease banks
- Fall arrest anchors
- Foldable handrails
- Slip resistant walking surfaces
- Front facing work light
- 360° remote controlled high intensity floodlight

## Catwalks

- Wide catwalks on left and right side that fold up and pin for reduced travel width

## Rated Capacity Limiter System

Link-Belt Pulse – The Link-Belt in-house designed, total crane operating system that utilizes the display as a readout and operator interface for the following systems:

- Crane configuration
- Boom length
- Boom head height
- Allowed load and % of allowed load
- Data logging
- Boom angle
- Radius of load
- Actual load
- Live/simulated ground bearing pressure reading
- 360° pick & carry capacities on firm level ground
- Wind speed
- Backward stability
- Fine metering
- Diagnostics
- Internal RCL light bars
- List capacities for 1°, 2°, 3°, and 4°
- Operator settable alarms with kickouts (include):
  - Maximum and minimum boom angles
  - Maximum tip height
  - Maximum boom length
  - Swing left/right positions
  - Maximum load radius
  - Operator defined area (imaginary plane)

**Telematics** – Cellular-based data logging and monitoring system that provides:

- Location and operational settings
- Routine maintenance
- Crane and engine monitoring
- Diagnostic and fault codes
  - Load on hook

## Crane Control Display

Ergonomically positioned LCD screen displaying the crane's operation including:

- Tachometer
- Throttle lock
- Engine water temperature
- Fuel level
- Fuel rate (gal/hr)
- DEF level
- Engine oil pressure
- Hydraulic oil temperature
- Battery voltage
- Wait to start
- Maintenance intervals

# Lower Structure

## Carbody

### Lower Frame

All welded box construction frame with precision machined surfaces for turntable bearing and rotating joint.

## Side Frames

### Side Frames

All welded, precision machined, steel frames can be hydraulically extended and retracted with a hydraulic cylinder mounted in the lower frame.

- 12 ft 6.9 in (3.8m) extended gauge
- 10 ft 10.6 in (3.3m) intermediate gauge
- 8 ft 9.8 in (2.7m) retracted gauge
- 19 ft 6.2 in (5.9m) overall length
- 32 in (0.81m) wide track shoes
- Sealed (oil filled) idler and drive planetaries
- Compact travel drives
- Hydraulic self adjusting tracks

### Track Rollers

- Eleven sealed (oil filled) track rollers per side frame and 3 (oil filled) upper track roller.
- Heat treated, mounted on anti-friction bearings

### Tracks

Heat treated, self-cleaning 32" (813mm) 3 bar grouser shoes and heat treated track pins with dirt seals. 61 track shoes per side.

### Optional Track Pads

- Optional 32" (813mm) polyurethane clamp on track pads clamp over the top of the 3 bar grouser track shoes for improved ground bearing and hard surface protection.
- Optional steel flat pads

### Take Up Idlers

Cast steel, heat treated, self-cleaning, mounted on sealed tapered roller bearings

## CALC

Confined Area Lifting Capacities that are incorporated directly into the Pulse display allowing sideframe configurations of fully extended, intermediate, and fully retracted with live on screen working radius while utilizing 360° load charts

## Travel and Steering

Each side frame contains a pilot controlled, bi-directional, axial piston motor and a planetary gear reduction unit to provide positive control under all load conditions.

- 2-speed travel
- Individual control provides smooth, precise maneuverability including full counter-rotation.
- Spring applied, hydraulically released multiple wet-disc type brake controlled automatically
- Maximum travel speed is 2 mph (3.2km/h).
- Designed to 40% gradeability

## Tool Boxes

Two lockable heavy duty steel design tool boxes included in the optional XL counterweight package bolted onto the carbody counterweights

## Boom

### Design

Four section, greaseless formed boom with Teflon wear pads constructed of high tensile steel consisting of one base section and three telescoping sections. The first telescoping section extends independently by means of one double-acting, single stage hydraulic cylinder with integrated holding valves. The second and third telescoping sections extend proportionally by means of one double-acting, single stage cylinder with integrated holding valves and cables.

### Boom

- 36 ft 8 in – 115 ft (11.2 – 35.05m) four section full power boom
- Two mode boom extensions: In mode EM1, the T1, T2, and T3 sections extend and retract synchronously to a maximum of 115.0' boom length. In mode EM2, only the T1 section extends to reach a 62.8' boom length. The T2 and T3 sections do not extend and will stay retracted inside the T1 section.
- Mechanical boom angle indicator
- Maximum tip height for EM1 is 120 ft (36.7m) and EM2 mode is 69 ft (21.1m).
- 360° remote controlled high intensity boom flood light mounted on boom base section

### Boom Head

- Four 16.5 in (41.9cm) root diameter sealed bearing nylon sheaves to handle up to eight parts of line
- Easily removable wire rope guards
- Rope dead end lugs on each side of the boom head
- Boom head is designed for quick-reeve of the hook block
- Wireless wind speed indicator
- Fall arrest anchors
- Optional boom tip marker light & flag

### Boom Elevation

- One double acting hydraulic cylinder with integral holding valve
- Boom elevation: - 3° to 78°

### Auxiliary Lifting Sheave

- Single 16.5 in (41.9cm) root diameter nylon sheave
- Easily removable wire rope guard
- Does not affect erection of the fly or use of the main head sheaves

## Optional Equipment

### Hook Blocks And Ball

- 8.5 ton (7.7mt) swivel hook ball with safety latch
- 41 ton (37mt) 3 sheave quick-reeve hook block with safety latch
- 60 ton (55mt) 5 sheave quick-reeve hook block with safety latch

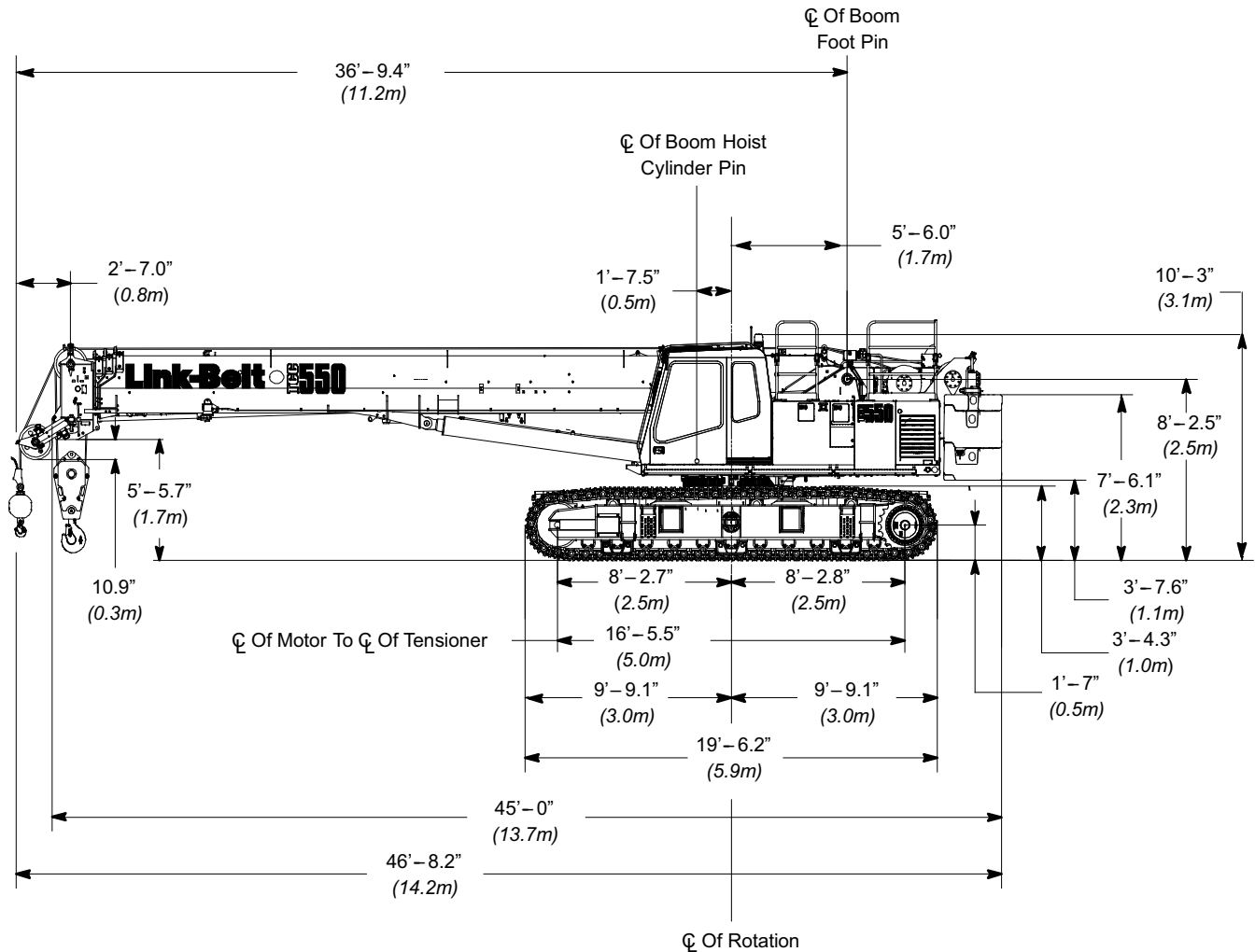
### Fly

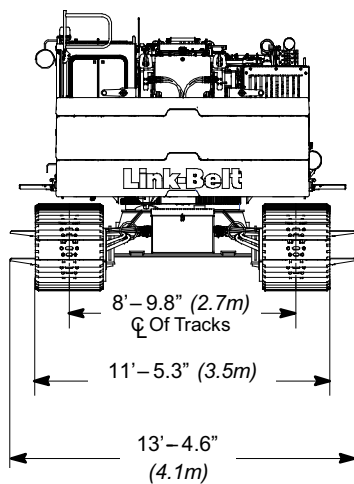
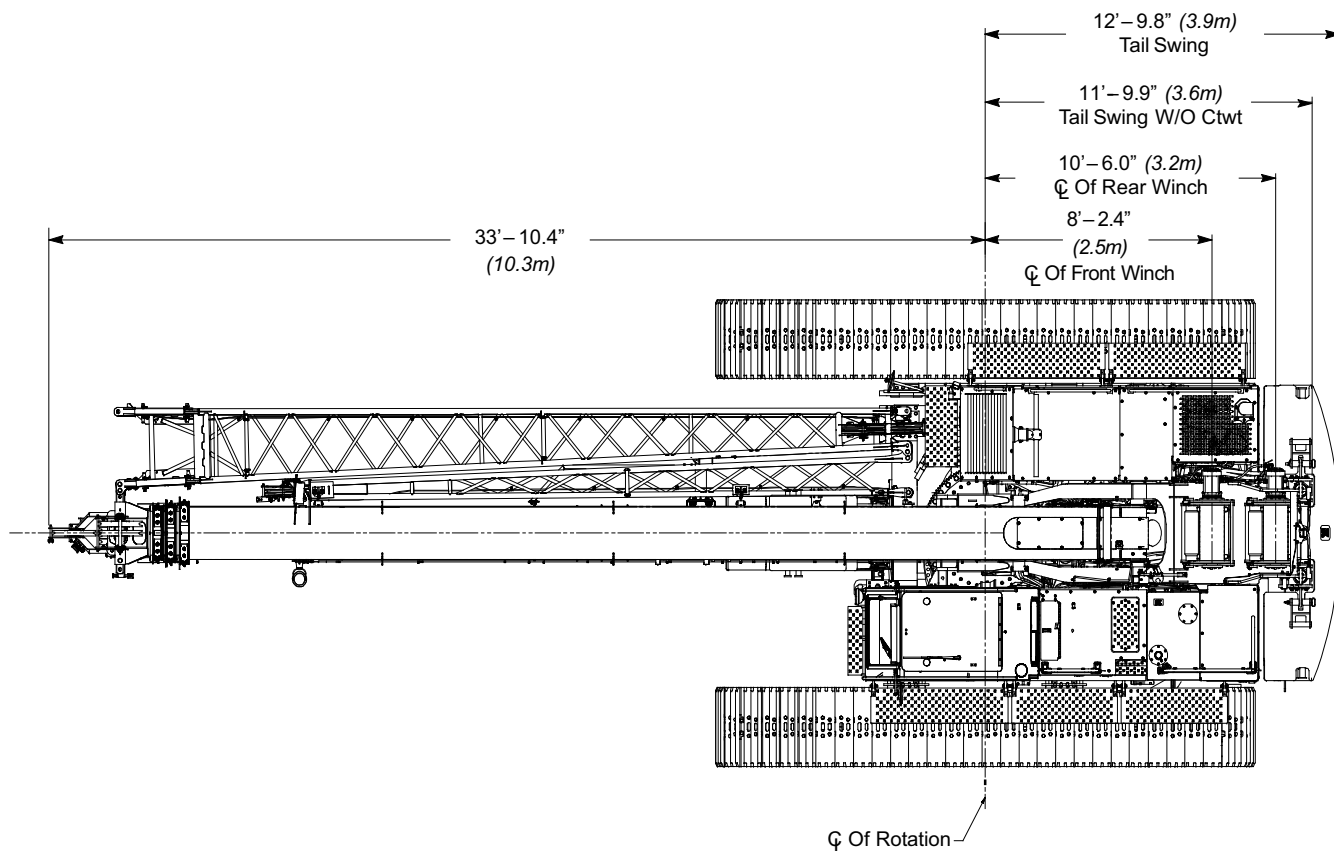
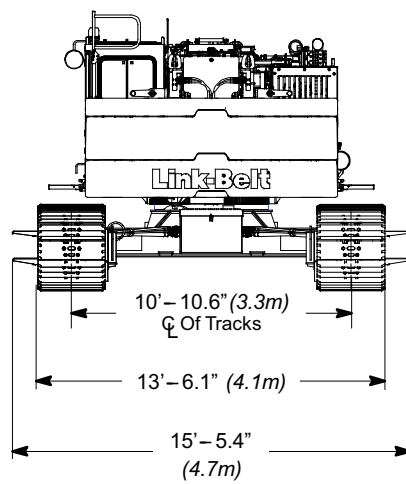
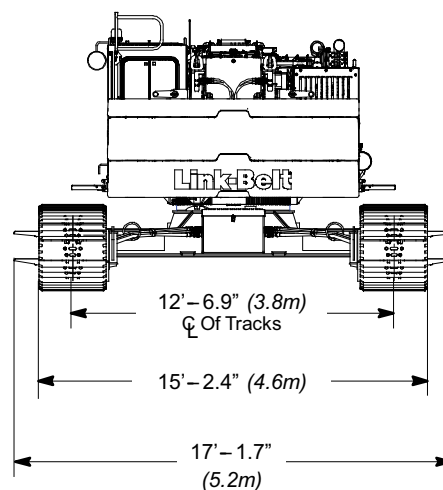
- 28.5 (8.7m) one piece lattice fly, stowable, offsettable to 2°, 20°, and 40°. Maximum tip height is 172ft (52.4m)
- 28.5 – 51 ft (8.7 – 15.6m) two piece bi-fold lattice fly, stowable, manually offsettable to 2°, 20°, and 40°. Maximum tip height is 172 ft (52.4m).
- No capacity deducts for stowed attachment

# Dimensions

## Base Crane

| General Dimensions  | English       | Metric       |
|---------------------|---------------|--------------|
| Basic Boom          | 36.8 – 115 ft | 11.2 – 35.5m |
| Minimum Load Radius | 9ft           | 2.5m         |
| Maximum Boom Angle  | 78°           | 78°          |
| Track Shoe Width    | 32 in         | 0.81m        |

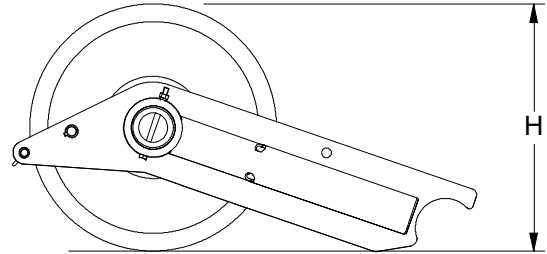
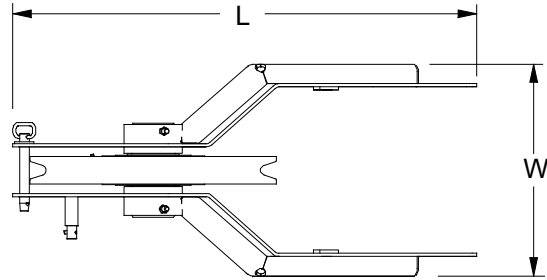


**Retracted Gauge****Intermediate Gauge****Extended Gauge**

## Auxiliary Lifting Sheave

### Auxiliary Lifting Sheave ❶

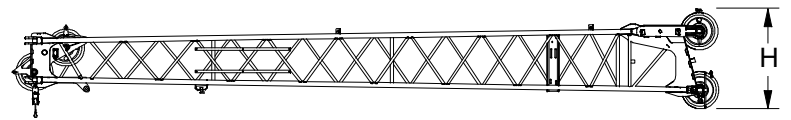
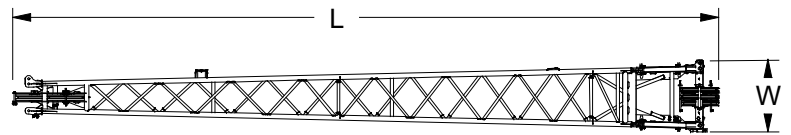
|        |          |         |
|--------|----------|---------|
| Length | 35.31 in | (0.90m) |
| Width  | 16.31 in | (0.41m) |
| Height | 19 in    | (0.48m) |
| Weight | 92.5 lb  | (42kg)  |



## Fly

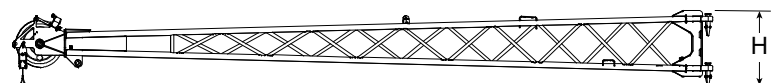
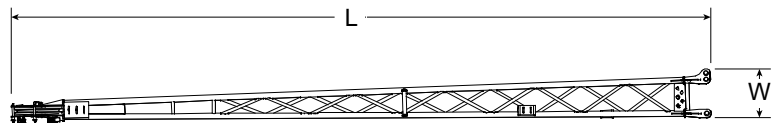
### 28.5 ft (8.69m) Offset Fly One Piece Lattice Fly (Base Fly)\* ❶

|        |          |         |
|--------|----------|---------|
| Length | 28.5 ft  | (8.69m) |
| Width  | 29 in    | (0.74m) |
| Height | 30 in    | (0.76m) |
| Weight | 1,188 lb | (539kg) |



### 22.5 ft (6.86m) Lattice Fly Tip\* (Addition To Base Fly For 28.5 – 51 ft (8.69 – 15.55m) Bi-fold Fly) ❶

|        |          |         |
|--------|----------|---------|
| Length | 22.5 ft  | (6.86m) |
| Width  | 13.78 in | (0.35m) |
| Height | 20 in    | (0.51m) |
| Weight | 654 lb   | (297kg) |



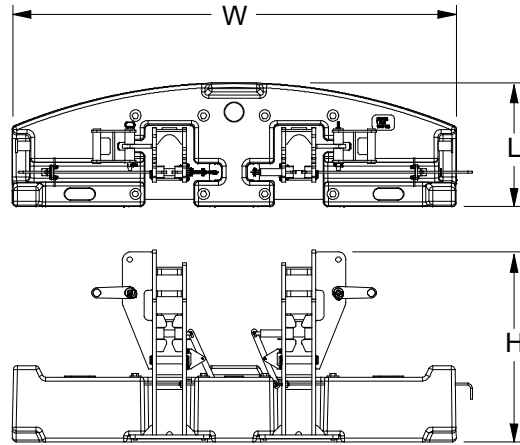
Number inside black circle “❶” = # of components

\* – Optional equipment

## Counterweights

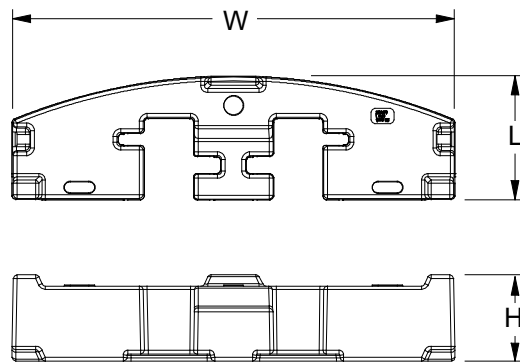
### “A” Counterweight ①

|        |            |           |
|--------|------------|-----------|
| Length | 32.90 in   | (0.84m)   |
| Width  | 9 ft 10 in | (3.00m)   |
| Height | 4ft2.18in  | (1.28m)   |
| Weight | 12,000 lb  | (5 443kg) |



### “B” Counterweight ①

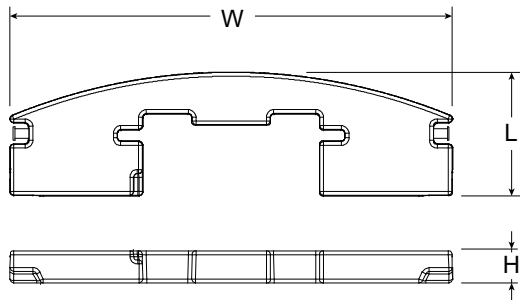
|        |            |           |
|--------|------------|-----------|
| Length | 32.90 in   | (0.84m)   |
| Width  | 9 ft 10 in | (3.00m)   |
| Height | 23 in      | (0.58m)   |
| Weight | 13,000 lb  | (5 897kg) |



## Optional XL Counterweight

### “C” Counterweight\* ①

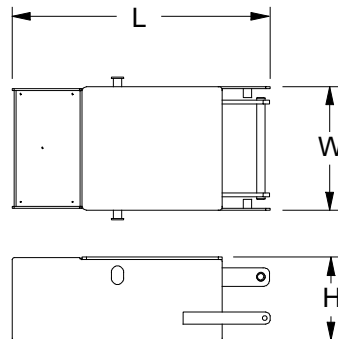
|        |            |           |
|--------|------------|-----------|
| Width1 | 32.90 in   | (0.84m)   |
| Width2 | 9 ft 10 in | (3.00m)   |
| Height | 8.50 in    | (0.22m)   |
| Weight | 5,000 lb   | (2 268kg) |



## Optional XL Counterweight

### “C” Counterweight\* ①

|        |            |           |
|--------|------------|-----------|
| Width1 | 32.90 in   | (0.84m)   |
| Width2 | 9 ft 10 in | (3.00m)   |
| Height | 8.50 in    | (0.22m)   |
| Weight | 5,000 lb   | (2 268kg) |



Number inside black circle “①” = # of components

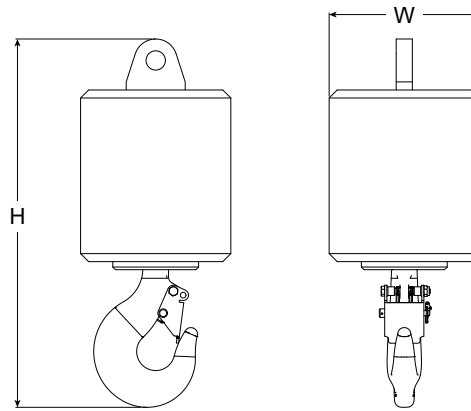
\* – Optional equipment

## Hook Ball

### 8.5 Ton (7.7mt) Swivel Hook Ball\*

①

|        |          |         |
|--------|----------|---------|
| Width  | 11.02 in | (0.28m) |
| Height | 27.03 in | (0.69m) |
| Weight | 359 lb   | (163kg) |



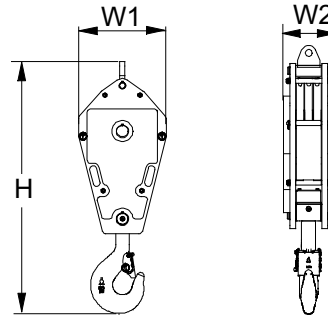
## Hook Blocks

### 41 Ton (37mt)

#### 3-Sheave Hook Block\*

①

|        |          |         |
|--------|----------|---------|
| Width1 | 10.13 in | (0.27m) |
| Width2 | 19.69 in | (0.50m) |
| Height | 56.5 in  | (1.44m) |
| Weight | 843 lb   | (378kg) |

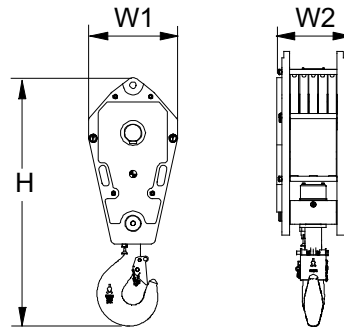


### 60 Ton (55mt)

#### 5-Sheave Hook Block\*

①

|        |          |         |
|--------|----------|---------|
| Width1 | 14.65 in | (0.37m) |
| Width2 | 19.69 in | (0.50m) |
| Height | 55.03 in | (1.40m) |
| Weight | 1,096 lb | (497kg) |



Number inside black circle "①" = # of components

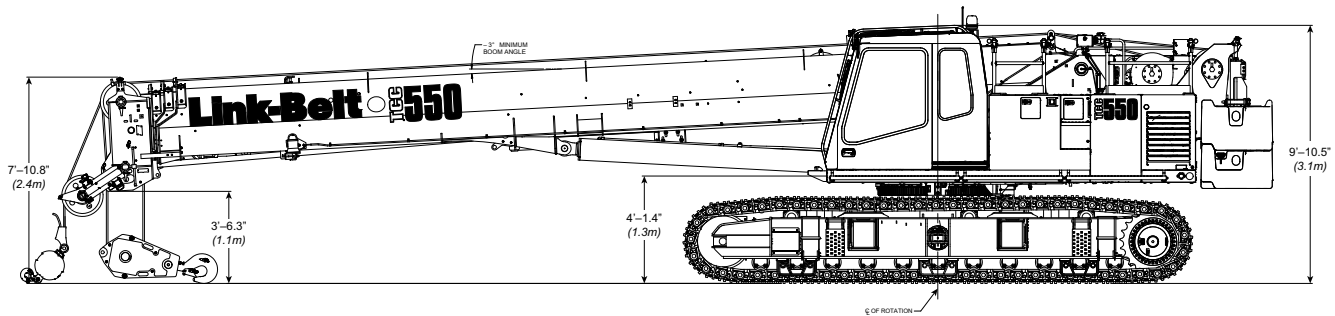
\* – Optional equipment

## Working Weights

| Option | Description                                                                                                                                                                                                                                              | Gross Weight<br>lb (kg) | Ground Bearing Pressure<br>(on soft ground)<br>psi (kg/cm <sup>2</sup> ) |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------|
| 1      | Base crane, "AB" counterweight, 550 ft (182.9m) type "KC" main wire rope, 450 ft (137.2m) type "KC" auxiliary wire rope, 2-piece fly, 41 ton (36.29mt) 3 sheave hook block, 8.5 ton (7.7mt) hook ball, and a 250 lb (113kg) operator.                    | 100,191<br>(45 445kg)   | 8.57<br>(0.60)                                                           |
| 2      | Base crane, "ABC+A" counterweight, lower toolbox, 550 ft (182.9m) type "KC" main wire rope, 450 ft (137.2m) type "KC" auxiliary wire rope, 2- piece fly, 40 ton (36.29mt) 3 sheave hook block, 8.5 ton (7.7mt) hook ball, and a 250 lb (113kg) operator. | 111,240<br>(50 457kg)   | 8.57<br>(0.60)                                                           |

Notes: Ground bearing pressure is based on the total weight distributed evenly over the track contact area.

## Transport Drawing



### Transport Weight – 99,941 lb (45 332kg)

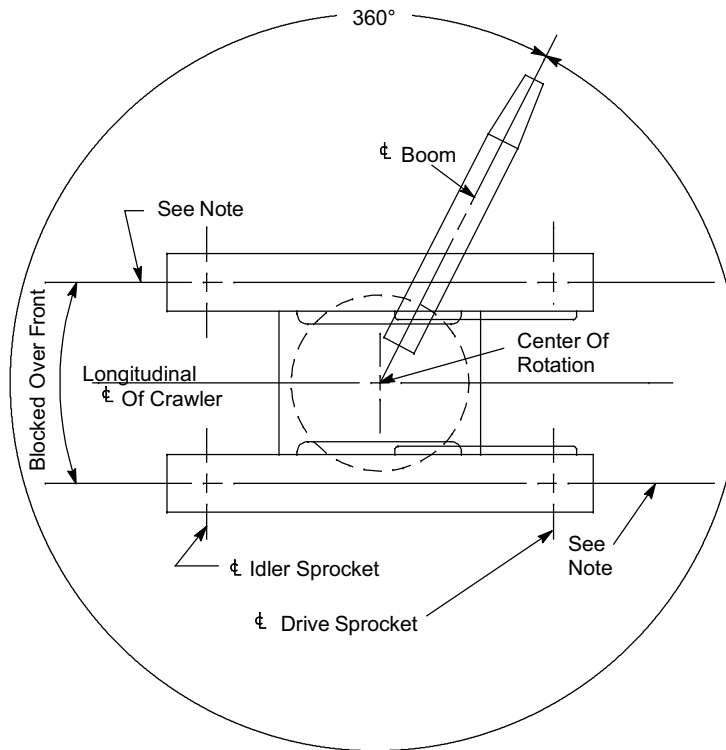
Base crane, "AB" Counterweight, 550 ft (182.9m) type "KC" main wire rope, 450 ft (137.2m) type "KC" auxiliary wire rope, 2- piece fly, 41 ton (36.29mt) 3 sheave hook block, and 8.5 ton (7.7mt) ball

## Load Hoist Performance

| Main (Rear) and Auxiliary (Front) Winches – 5/8 in (16mm) Rope |                   |         |                   |      |                 |       |       |      |           |
|----------------------------------------------------------------|-------------------|---------|-------------------|------|-----------------|-------|-------|------|-----------|
| Layer                                                          | Maximum Line Pull |         | Normal Line Speed |      | High Line Speed |       | Layer |      | Total     |
|                                                                | lb                | kg      | ft/min            |      |                 |       |       |      |           |
| 1                                                              | 17,084            | 7 749.1 | 181               | 55.2 | 360             | 109.6 | 97    | 29.6 | 97 29.6   |
| 2                                                              | 15,454            | 7 009.8 | 200               | 61.1 | 398             | 121.2 | 107   | 32.6 | 205 62.4  |
| 3                                                              | 14,107            | 6 398.8 | 219               | 66.9 | 436             | 132.8 | 118   | 35.9 | 322 98.3  |
| 4                                                              | 12,977            | 5 886.2 | 239               | 72.7 | 474             | 144.3 | 128   | 39.0 | 451 137.3 |
| 5                                                              | 12,014            | 5 449.4 | 258               | 78.6 | 511             | 155.9 | 138   | 42.1 | 589 179.5 |
| 6                                                              | 11,184            | 5 072.9 | 277               | 84.4 | 549             | 167.5 | 149   | 45.3 | 737 224.7 |

| Wire Rope Application                 |          | Diameter |    | Type                                                          | Maximum Permissible Load |          |
|---------------------------------------|----------|----------|----|---------------------------------------------------------------|--------------------------|----------|
|                                       |          | in       | mm |                                                               |                          |          |
| Main (Rear) & Auxiliary (Front) Winch | Standard | 5/8      | 16 | 37x7 galvanized rotation resistant – right lang lay (Type KC) | 10,835 lbs               | 4 914 kg |
|                                       | Optional | 5/8      | 16 | 35x7 rotation resistant – right lang lay (Type CC)            | 12,240 lbs               | 5 552 kg |

## Working Area

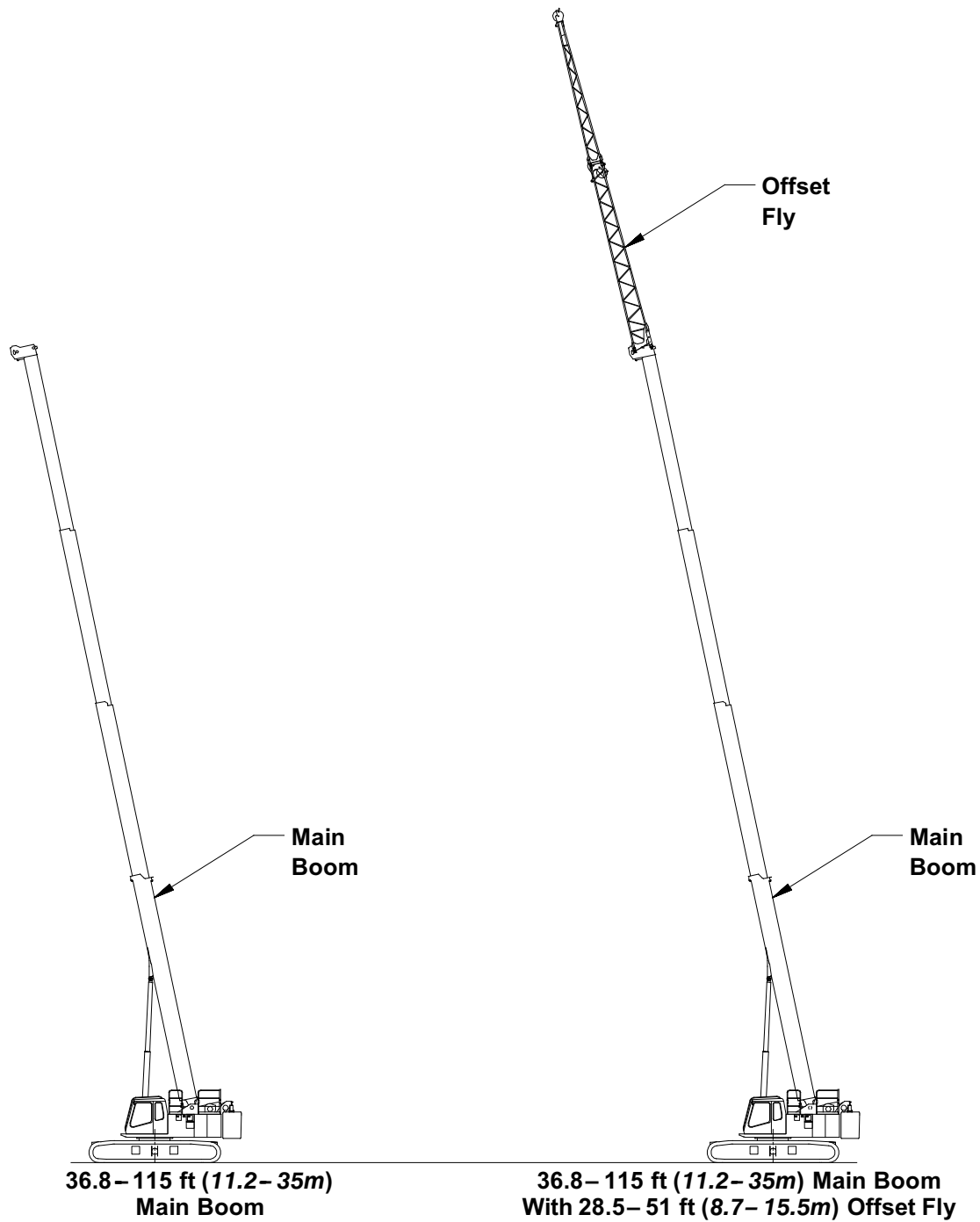


Note: These Lines Determine The Limiting Position Of Any Load For Operation Within Working Areas Indicated.

## Boom Extend Modes

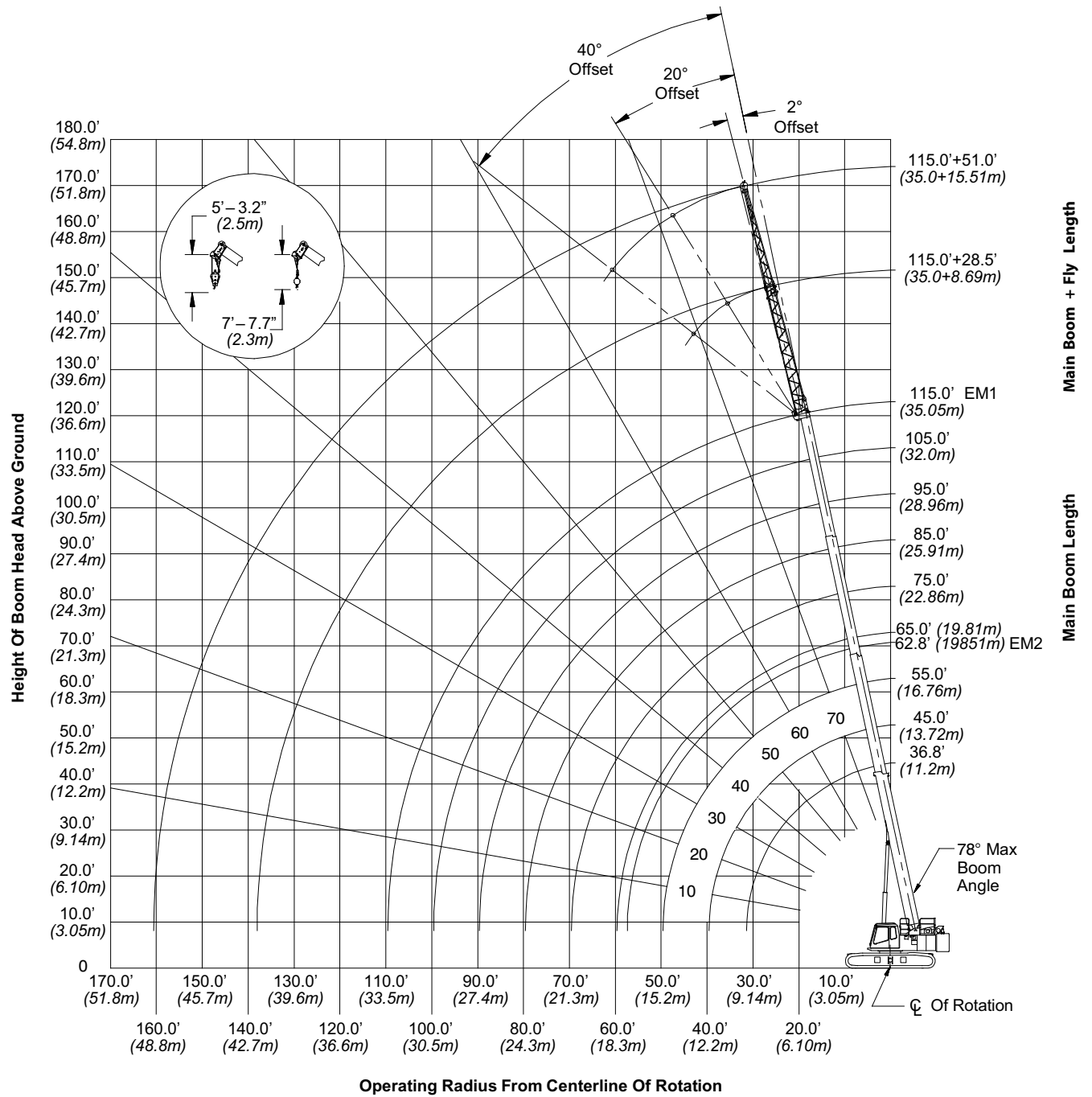
| Boom Length |       | Boom Mode |      |      | <b>EM 1</b> |  |
|-------------|-------|-----------|------|------|-------------|--|
| ft          | m     | T3        | T2   | T1   |             |  |
| 36.8        | 11.20 |           |      |      |             |  |
| 45          | 13.72 | 11%       | 11%  | 11%  |             |  |
| 55          | 16.76 | 23%       | 23%  | 23%  |             |  |
| 65          | 19.81 | 36%       | 36%  | 36%  |             |  |
| 75          | 22.86 | 49%       | 49%  | 49%  |             |  |
| 85          | 25.91 | 62%       | 62%  | 62%  |             |  |
| 95          | 28.96 | 74%       | 74%  | 74%  |             |  |
| 105         | 32.00 | 87%       | 87%  | 87%  |             |  |
| 115         | 35.05 | 100%      | 100% | 100% |             |  |
| Boom Length |       | Boom Mode |      |      | <b>EM 2</b> |  |
| ft          | m     | T3        | T2   | T1   |             |  |
| 36.8        | 11.20 |           |      |      |             |  |
| 45          | 13.72 |           |      | 32%  |             |  |
| 55          | 16.76 |           |      | 70%  |             |  |
| 62.83       | 19.15 |           |      | 100% |             |  |

# Attachments



# Main Boom Working Range Diagrams

## EM1 Mode – Extended Gauge



# Main Boom Load Charts

| Main Boom Lift Capacity Chart – 360° Rotation – Side Frames Extended Position<br>AB+0 [25,000 lb] Counterweight<br>[All capacities are listed in kips] |                  |      |      |           |      |      |      |      |      |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|------|-----------|------|------|------|------|------|------------------|
| Load Radius (ft)                                                                                                                                       | Boom Length (ft) |      |      |           |      |      |      |      |      | Load Radius (ft) |
|                                                                                                                                                        | 36.8             | 45   | 55   | 62.8 – 65 | 75   | 85   | 95   | 105  | 115  |                  |
| 9                                                                                                                                                      | 110.0            |      |      |           |      |      |      |      |      | 9                |
| 10                                                                                                                                                     | 102.2            | 83.3 | 81.9 |           |      |      |      |      |      | 10               |
| 12                                                                                                                                                     | 91.5             | 83.3 | 81.4 | 68.2      |      |      |      |      |      | 12               |
| 15                                                                                                                                                     | 74.0             | 73.4 | 70.5 | 60.7      | 39.2 |      |      |      |      | 15               |
| 20                                                                                                                                                     | 44.5             | 44.2 | 43.8 | 43.6      | 39.2 | 37.1 |      |      |      | 20               |
| 25                                                                                                                                                     | 30.7             | 31.4 | 31.9 | 32.1      | 32.2 | 32.1 | 28.6 | 26.1 |      | 25               |
| 30                                                                                                                                                     | 22.6             | 23.3 | 23.8 | 24.1      | 24.2 | 24.3 | 24.4 | 22.9 | 20.8 | 30               |
| 35                                                                                                                                                     |                  | 18.1 | 18.6 | 18.9      | 19.1 | 19.2 | 19.3 | 19.3 | 18.8 | 35               |
| 40                                                                                                                                                     |                  |      | 14.9 | 15.2      | 15.4 | 15.5 | 15.6 | 15.7 | 15.7 | 40               |
| 45                                                                                                                                                     |                  |      | 12.1 | 12.4      | 12.6 | 12.8 | 12.9 | 12.9 | 13.0 | 45               |
| 50                                                                                                                                                     |                  |      |      | 10.3      | 10.5 | 10.7 | 10.8 | 10.8 | 10.9 | 50               |
| 55                                                                                                                                                     |                  |      |      | 8.6       | 8.8  | 9.0  | 9.1  | 9.2  | 9.3  | 55               |
| 60                                                                                                                                                     |                  |      |      |           | 7.5  | 7.6  | 7.8  | 7.8  | 7.9  | 60               |
| 65                                                                                                                                                     |                  |      |      |           | 6.3  | 6.5  | 6.6  | 6.7  | 6.8  | 65               |
| 70                                                                                                                                                     |                  |      |      |           |      | 5.5  | 5.6  | 5.7  | 5.8  | 70               |
| 75                                                                                                                                                     |                  |      |      |           |      | 4.7  | 4.8  | 4.9  | 5.0  | 75               |
| 80                                                                                                                                                     |                  |      |      |           |      |      | 4.1  | 4.2  | 4.3  | 80               |
| 85                                                                                                                                                     |                  |      |      |           |      |      | 3.5  | 3.6  | 3.6  | 85               |
| 90                                                                                                                                                     |                  |      |      |           |      |      |      | 3.0  | 3.1  | 90               |
| 95                                                                                                                                                     |                  |      |      |           |      |      |      | 2.5  | 2.6  | 95               |
| 100                                                                                                                                                    |                  |      |      |           |      |      |      |      | 2.2  | 100              |
| 105                                                                                                                                                    |                  |      |      |           |      |      |      |      | 1.8  | 105              |

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| Main Boom Lift Capacity Chart – 360° Rotation – Side Frames Extended Position<br>ABC+A [36,000 lb] Counterweight<br>[All capacities are listed in kips] |                  |      |      |           |      |      |      |      |      |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|------|-----------|------|------|------|------|------|------------------------|
| Load<br>Radius<br>(ft)                                                                                                                                  | Boom Length (ft) |      |      |           |      |      |      |      |      | Load<br>Radius<br>(ft) |
|                                                                                                                                                         | 36.8             | 45   | 55   | 62.8 – 65 | 75   | 85   | 95   | 105  | 115  |                        |
| 9                                                                                                                                                       | 110.0            |      |      |           |      |      |      |      |      | 9                      |
| 10                                                                                                                                                      | 102.2            | 83.3 | 81.9 |           |      |      |      |      |      | 10                     |
| 12                                                                                                                                                      | 91.5             | 83.3 | 81.4 | 68.2      |      |      |      |      |      | 12                     |
| 15                                                                                                                                                      | 79.0             | 75.4 | 70.5 | 60.7      | 39.2 |      |      |      |      | 15                     |
| 20                                                                                                                                                      | 51.4             | 51.2 | 50.8 | 50.5      | 39.2 | 37.1 |      |      |      | 20                     |
| 25                                                                                                                                                      | 35.7             | 36.4 | 36.9 | 37.1      | 37.3 | 32.1 | 28.6 | 26.1 |      | 25                     |
| 30                                                                                                                                                      | 26.6             | 27.3 | 27.8 | 28.1      | 28.3 | 28.2 | 25.2 | 22.9 | 20.8 | 30                     |
| 35                                                                                                                                                      |                  | 21.4 | 21.9 | 22.2      | 22.4 | 22.4 | 22.3 | 20.3 | 18.8 | 35                     |
| 40                                                                                                                                                      |                  |      | 17.7 | 18.0      | 18.2 | 18.4 | 18.4 | 18.2 | 16.9 | 40                     |
| 45                                                                                                                                                      |                  |      | 14.6 | 14.9      | 15.1 | 15.3 | 15.3 | 15.4 | 15.2 | 45                     |
| 50                                                                                                                                                      |                  |      |      | 12.5      | 12.7 | 12.8 | 12.9 | 13.0 | 13.0 | 50                     |
| 55                                                                                                                                                      |                  |      |      | 10.6      | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 55                     |
| 60                                                                                                                                                      |                  |      |      |           | 9.2  | 9.4  | 9.5  | 9.6  | 9.7  | 60                     |
| 65                                                                                                                                                      |                  |      |      |           | 7.9  | 8.1  | 8.2  | 8.3  | 8.4  | 65                     |
| 70                                                                                                                                                      |                  |      |      |           |      | 7.0  | 7.1  | 7.2  | 7.3  | 70                     |
| 75                                                                                                                                                      |                  |      |      |           |      | 6.1  | 6.2  | 6.3  | 6.4  | 75                     |
| 80                                                                                                                                                      |                  |      |      |           |      |      | 5.4  | 5.5  | 5.6  | 80                     |
| 85                                                                                                                                                      |                  |      |      |           |      |      | 4.7  | 4.8  | 4.8  | 85                     |
| 90                                                                                                                                                      |                  |      |      |           |      |      |      | 4.2  | 4.2  | 90                     |
| 95                                                                                                                                                      |                  |      |      |           |      |      |      | 3.6  | 3.7  | 95                     |
| 100                                                                                                                                                     |                  |      |      |           |      |      |      |      | 3.2  | 100                    |
| 105                                                                                                                                                     |                  |      |      |           |      |      |      |      | 2.7  | 105                    |

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## Main Boom Load Charts (Metric)

| Main Boom Lift Capacity Chart – 360° Rotation – Side Frames Extended Position<br>AB+0 [11 340kg] Counterweight<br>[All capacities are listed in mt] |                  |       |       |               |       |       |       |       |       |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------|-------|---------------|-------|-------|-------|-------|-------|-----------------|
| Load Radius (m)                                                                                                                                     | Boom Length (ft) |       |       |               |       |       |       |       |       | Load Radius (m) |
|                                                                                                                                                     | 11.2             | 13.72 | 16.76 | 19.15 – 19.81 | 22.86 | 25.91 | 28.96 | 32    | 35.05 |                 |
| 2.5                                                                                                                                                 | 51.00            |       |       |               |       |       |       |       |       | 2.5             |
| 3.0                                                                                                                                                 | 46.80            | 37.75 | 37.10 |               |       |       |       |       |       | 3.0             |
| 3.5                                                                                                                                                 | 42.70            | 37.75 | 37.10 | 31.60         |       |       |       |       |       | 3.5             |
| 4.0                                                                                                                                                 | 39.25            | 37.35 | 34.95 | 29.60         |       |       |       |       |       | 4.0             |
| 4.5                                                                                                                                                 | 34.55            | 34.30 | 32.35 | 27.80         | 17.75 |       |       |       |       | 4.5             |
| 5.0                                                                                                                                                 | 28.50            | 28.25 | 28.05 | 26.20         | 17.75 |       |       |       |       | 5.0             |
| 6.0                                                                                                                                                 | 20.7             | 20.60 | 20.40 | 20.30         | 17.75 | 17.00 |       |       |       | 6.0             |
| 7.0                                                                                                                                                 | 16.00            | 16.30 | 16.50 | 16.60         | 16.70 | 15.40 | 13.75 |       |       | 7.0             |
| 8.0                                                                                                                                                 | 12.80            | 13.15 | 13.40 | 13.45         | 13.55 | 13.60 | 12.55 | 11.45 |       | 8.0             |
| 9.0                                                                                                                                                 | 10.50            | 10.85 | 11.10 | 11.20         | 11.25 | 11.30 | 11.35 | 10.55 | 9.45  | 9.0             |
| 10.0                                                                                                                                                |                  | 9.10  | 9.35  | 9.50          | 9.60  | 9.65  | 9.65  | 9.70  | 9.00  | 10.0            |
| 12.0                                                                                                                                                |                  | 6.65  | 6.90  | 7.05          | 7.15  | 7.20  | 7.25  | 7.30  | 7.30  | 12.0            |
| 14.0                                                                                                                                                |                  |       | 5.30  | 5.45          | 5.55  | 5.55  | 5.65  | 5.65  | 5.70  | 14.0            |
| 16.0                                                                                                                                                |                  |       |       | 4.25          | 4.40  | 4.45  | 4.50  | 4.55  | 4.55  | 16.0            |
| 18.0                                                                                                                                                |                  |       |       | 3.40          | 3.50  | 3.55  | 3.65  | 3.65  | 3.70  | 18.0            |
| 20.0                                                                                                                                                |                  |       |       |               | 2.80  | 2.90  | 3.00  | 3.00  | 3.00  | 20.0            |
| 22.0                                                                                                                                                |                  |       |       |               |       | 2.30  | 2.40  | 2.40  | 2.45  | 22.0            |
| 24.0                                                                                                                                                |                  |       |       |               |       | 1.85  | 1.95  | 1.95  | 2.00  | 24.0            |
| 26.0                                                                                                                                                |                  |       |       |               |       |       | 1.55  | 1.60  | 1.65  | 26.0            |
| 28.0                                                                                                                                                |                  |       |       |               |       |       |       | 1.30  | 1.30  | 28.0            |
| 30.0                                                                                                                                                |                  |       |       |               |       |       |       | 1.00  | 1.05  | 30.0            |
| 32.0                                                                                                                                                |                  |       |       |               |       |       |       |       | 0.80  | 32.0            |

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| Main Boom Lift Capacity Chart – 360° Rotation – Side Frames Extended Position<br>ABC+A [16 329kg] Counterweight<br>[All capacities are listed in mt] |                  |       |       |               |       |       |       |       |       |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------|-------|---------------|-------|-------|-------|-------|-------|-----------------|
| Load Radius (m)                                                                                                                                      | Boom Length (ft) |       |       |               |       |       |       |       |       | Load Radius (m) |
|                                                                                                                                                      | 11.2             | 13.72 | 16.76 | 19.15 – 19.81 | 22.86 | 25.91 | 28.96 | 32    | 35.05 |                 |
| 2.5                                                                                                                                                  | 51.00            |       |       |               |       |       |       |       |       | 2.5             |
| 3.0                                                                                                                                                  | 46.80            | 37.50 | 37.10 |               |       |       |       |       |       | 3.0             |
| 3.5                                                                                                                                                  | 42.70            | 37.50 | 37.10 | 31.60         |       |       |       |       |       | 3.5             |
| 4.0                                                                                                                                                  | 39.25            | 37.50 | 34.95 | 29.60         |       |       |       |       |       | 4.0             |
| 4.5                                                                                                                                                  | 36.25            | 34.60 | 32.35 | 27.80         | 17.75 |       |       |       |       | 4.5             |
| 5.0                                                                                                                                                  | 32.75            | 32.15 | 30.15 | 26.20         | 17.75 |       |       |       |       | 5.0             |
| 6.0                                                                                                                                                  | 23.95            | 23.80 | 23.65 | 23.45         | 17.75 | 17.00 |       |       |       | 6.0             |
| 7.0                                                                                                                                                  | 18.60            | 18.50 | 18.40 | 18.30         | 17.75 | 15.40 | 13.75 |       |       | 7.0             |
| 8.0                                                                                                                                                  | 14.95            | 15.30 | 15.50 | 15.60         | 15.70 | 14.10 | 12.55 | 11.45 |       | 8.0             |
| 9.0                                                                                                                                                  | 12.40            | 12.70 | 12.95 | 13.05         | 13.10 | 12.95 | 11.55 | 10.55 | 9.55  | 9.0             |
| 10.0                                                                                                                                                 |                  | 10.75 | 10.95 | 11.10         | 11.20 | 11.25 | 10.65 | 9.70  | 9.00  | 10.0            |
| 12.0                                                                                                                                                 |                  | 7.95  | 8.25  | 8.35          | 8.45  | 8.50  | 8.55  | 8.40  | 7.75  | 12.0            |
| 14.0                                                                                                                                                 |                  |       | 6.35  | 6.50          | 6.60  | 6.70  | 6.75  | 6.75  | 6.75  | 14.0            |
| 16.0                                                                                                                                                 |                  |       |       | 5.20          | 5.30  | 5.35  | 5.40  | 5.45  | 5.45  | 16.0            |
| 18.0                                                                                                                                                 |                  |       |       | 4.20          | 4.30  | 4.40  | 4.45  | 4.50  | 4.50  | 18.0            |
| 20.0                                                                                                                                                 |                  |       |       |               | 3.55  | 3.60  | 3.65  | 3.70  | 3.75  | 20.0            |
| 22.0                                                                                                                                                 |                  |       |       |               |       | 3.00  | 3.05  | 3.10  | 3.10  | 22.0            |
| 24.0                                                                                                                                                 |                  |       |       |               |       | 2.45  | 2.50  | 2.55  | 2.60  | 24.0            |
| 26.0                                                                                                                                                 |                  |       |       |               |       |       | 2.10  | 2.15  | 2.20  | 26.0            |
| 28.0                                                                                                                                                 |                  |       |       |               |       |       |       | 1.80  | 1.80  | 28.0            |
| 30.0                                                                                                                                                 |                  |       |       |               |       |       |       | 1.50  | 1.50  | 30.0            |
| 32.0                                                                                                                                                 |                  |       |       |               |       |       |       |       | 1.25  | 32.0            |

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# Main Boom + Fly Load Charts

| 115 ft Main Boom + Fly – 360° Rotation – Side Frames Extended Position<br>AB+0 [25,000 lb] Counterweight<br>[All capacities are listed in mt] |                            |      |     |                         |     |     |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------|-----|-------------------------|-----|-----|------------------|
| Load Radius (ft)                                                                                                                              | 28.25 ft Manual Offset Fly |      |     | 51 ft Manual Offset Fly |     |     | Load Radius (ft) |
|                                                                                                                                               | 2°                         | 20°  | 40° | 2°                      | 20° | 40° |                  |
| 35                                                                                                                                            | 11.1                       |      |     |                         |     |     | 35               |
| 40                                                                                                                                            | 11.1                       |      |     |                         |     |     | 40               |
| 45                                                                                                                                            | 11.1                       | 11.9 |     | 7.5                     |     |     | 45               |
| 50                                                                                                                                            | 11.1                       | 11.4 |     | 7.5                     |     |     | 50               |
| 55                                                                                                                                            | 9.6                        | 1.03 | 8.8 | 7.5                     |     |     | 55               |
| 60                                                                                                                                            | 8.2                        | 8.9  | 8.6 | 7.5                     | 6.2 |     | 60               |
| 65                                                                                                                                            | 7.1                        | 7.7  | 8.2 | 7.5                     | 5.9 |     | 65               |
| 70                                                                                                                                            | 3.1                        | 6.6  | 7.1 | 6.5                     | 5.6 | 4.0 | 70               |
| 75                                                                                                                                            | 5.3                        | 5.8  | 6.2 | 5.7                     | 5.4 | 3.8 | 75               |
| 80                                                                                                                                            | 4.6                        | 5.0  | 5.4 | 4.9                     | 5.2 | 3.7 | 80               |
| 85                                                                                                                                            | 4.0                        | 4.4  | 4.7 | 4.3                     | 4.9 | 3.6 | 85               |
| 90                                                                                                                                            | 3.4                        | 3.8  | 4.0 | 3.8                     | 4.4 | 3.5 | 90               |
| 95                                                                                                                                            | 2.9                        | 3.3  | 3.5 | 3.3                     | 3.8 | 3.4 | 95               |
| 100                                                                                                                                           | 2.5                        | 2.8  | 3.0 | 2.8                     | 3.4 | 3.4 | 100              |
| 105                                                                                                                                           | 2.1                        | 2.4  | 2.5 | 2.4                     | 2.9 | 3.3 | 105              |
| 110                                                                                                                                           | 1.8                        | 2.0  | 2.1 | 2.1                     | 2.5 | 2.9 | 110              |
| 115                                                                                                                                           | 1.5                        | 1.6  | 1.7 | 1.8                     | 2.2 | 2.5 | 115              |
| 120                                                                                                                                           | 1.2                        | 1.3  |     | 1.5                     | 1.8 | 2.1 | 120              |
| 125                                                                                                                                           | 0.9                        | 1.0  |     | 1.2                     | 1.5 | 1.8 | 125              |
| 130                                                                                                                                           |                            |      |     | 1.0                     | 1.3 | 1.5 | 130              |
| 135                                                                                                                                           |                            |      |     |                         | 1.0 | 1.1 | 135              |
| 140                                                                                                                                           |                            |      |     |                         |     | 0.9 | 140              |

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| <b>115 ft Main Boom + Fly – 360° Rotation – Side Frames Extended Position</b><br><b>ABC+A [36,000 lb] Counterweight</b><br><b>[All capacities are listed in mt]</b> |                            |      |     |                         |     |     |                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------|-----|-------------------------|-----|-----|------------------|
| Load Radius (ft)                                                                                                                                                    | 28.25 ft Manual Offset Fly |      |     | 51 ft Manual Offset Fly |     |     | Load Radius (ft) |
|                                                                                                                                                                     | 2°                         | 20°  | 40° | 2°                      | 20° | 40° |                  |
| 35                                                                                                                                                                  | 11.1                       |      |     |                         |     |     | 35               |
| 40                                                                                                                                                                  | 11.1                       |      |     |                         |     |     | 40               |
| 45                                                                                                                                                                  | 11.1                       | 11.9 |     | 7.5                     |     |     | 45               |
| 50                                                                                                                                                                  | 11.1                       | 11.4 |     | 7.5                     |     |     | 50               |
| 55                                                                                                                                                                  | 11.1                       | 11.0 | 8.8 | 7.5                     |     |     | 55               |
| 60                                                                                                                                                                  | 10.0                       | 10.0 | 8.6 | 7.5                     | 6.2 |     | 60               |
| 65                                                                                                                                                                  | 8.7                        | 9.2  | 8.3 | 7.5                     | 5.9 |     | 65               |
| 70                                                                                                                                                                  | 7.6                        | 8.1  | 8.1 | 7.5                     | 5.6 | 4.0 | 70               |
| 75                                                                                                                                                                  | 6.7                        | 7.2  | 7.6 | 7.0                     | 5.4 | 3.8 | 75               |
| 80                                                                                                                                                                  | 5.9                        | 6.3  | 6.7 | 6.2                     | 5.2 | 3.7 | 80               |
| 85                                                                                                                                                                  | 5.2                        | 5.6  | 5.9 | 5.5                     | 4.9 | 3.6 | 85               |
| 90                                                                                                                                                                  | 4.6                        | 4.9  | 5.2 | 4.9                     | 4.7 | 3.5 | 90               |
| 95                                                                                                                                                                  | 4.0                        | 4.3  | 4.6 | 4.3                     | 4.5 | 3.4 | 95               |
| 100                                                                                                                                                                 | 3.5                        | 3.8  | 4.0 | 3.8                     | 4.4 | 3.4 | 100              |
| 105                                                                                                                                                                 | 3.1                        | 3.3  | 3.5 | 3.4                     | 3.9 | 3.3 | 105              |
| 110                                                                                                                                                                 | 2.7                        | 2.9  | 3.0 | 3.0                     | 3.4 | 3.2 | 110              |
| 115                                                                                                                                                                 | 2.3                        | 2.5  | 2.6 | 2.6                     | 3.0 | 3.2 | 115              |
| 120                                                                                                                                                                 | 2.0                        | 2.2  |     | 2.3                     | 2.7 | 3.0 | 120              |
| 125                                                                                                                                                                 | 1.7                        | 1.8  |     | 2.0                     | 2.3 | 2.6 | 125              |
| 130                                                                                                                                                                 | 1.4                        | 1.5  |     | 1.7                     | 2.0 | 2.2 | 130              |
| 135                                                                                                                                                                 | 1.2                        |      |     | 1.5                     | 1.7 | 1.9 | 135              |
| 140                                                                                                                                                                 |                            |      |     | 1.3                     | 1.5 | 1.6 | 140              |
| 145                                                                                                                                                                 |                            |      |     | 1.0                     | 1.2 |     | 145              |
| 150                                                                                                                                                                 |                            |      |     |                         | 1.0 |     | 150              |

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## Main Boom + Fly Load Charts (Metric)

| 35.05m Main Boom + Fly – 360° Rotation – Side Frames Extended Position<br>AB+0 [11 340kg] Counterweight[<br>All capacities are listed in mt] |                        |      |      |                         |      |      |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------|------|-------------------------|------|------|-----------------|
| Load Radius (m)                                                                                                                              | 8.7m Manual Offset Fly |      |      | 15.5m Manual Offset Fly |      |      | Load Radius (m) |
|                                                                                                                                              | 2°                     | 20°  | 40°  | 2°                      | 20°  | 40°  |                 |
| 12.0                                                                                                                                         | 5.20                   |      |      |                         |      |      | 12.0            |
| 14.0                                                                                                                                         | 5.20                   | 5.35 |      | 3.40                    |      |      | 14.0            |
| 16.0                                                                                                                                         | 4.70                   | 5.00 | 4.05 | 3.40                    |      |      | 16.0            |
| 18.0                                                                                                                                         | 3.85                   | 4.15 | 3.90 | 3.40                    | 2.85 |      | 18.0            |
| 20.0                                                                                                                                         | 3.15                   | 3.40 | 3.65 | 3.30                    | 2.65 |      | 20.0            |
| 22.0                                                                                                                                         | 2.60                   | 2.85 | 3.05 | 2.75                    | 2.50 | 1.75 | 22.0            |
| 24.0                                                                                                                                         | 2.15                   | 2.35 | 2.50 | 2.30                    | 2.35 | 1.70 | 24.0            |
| 26.0                                                                                                                                         | 1.80                   | 1.95 | 2.10 | 1.95                    | 2.25 | 1.65 | 26.0            |
| 28.0                                                                                                                                         | 1.45                   | 1.60 | 1.75 | 1.60                    | 1.90 | 1.60 | 28.0            |
| 30.0                                                                                                                                         | 1.20                   | 1.35 | 1.40 | 1.35                    | 1.60 | 1.65 | 30.0            |
| 32.0                                                                                                                                         | 0.95                   | 1.05 | 1.15 | 1.10                    | 1.30 | 1.50 | 32.0            |
| 34.0                                                                                                                                         | 0.75                   | 0.85 | 0.90 | 0.90                    | 1.10 | 1.25 | 34.0            |
| 36.0                                                                                                                                         | 0.55                   | 0.65 | 0.70 | 0.70                    | 0.90 | 1.00 | 36.0            |
| 38.0                                                                                                                                         | 0.40                   | 0.45 |      | 0.55                    | 0.70 | 0.80 | 38.0            |
| 40.0                                                                                                                                         |                        |      |      | 0.40                    | 0.55 | 0.60 | 40.0            |
| 42.0                                                                                                                                         |                        |      |      |                         | 0.40 | 0.45 | 42.0            |

This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities, assembly, and operating procedures.

| <b>35.05m Main Boom + Fly – 360° Rotation – Side Frames Extended Position</b><br><b>ABC+A [16 329kg] Counterweight[</b><br><b>All capacities are listed in m<sup>t</sup>]</b> |                        |      |      |                         |      |      |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------|------|-------------------------|------|------|-----------------|
| Load Radius (m)                                                                                                                                                               | 8.7m Manual Offset Fly |      |      | 15.5m Manual Offset Fly |      |      | Load Radius (m) |
|                                                                                                                                                                               | 2°                     | 20°  | 40°  | 2°                      | 20°  | 40°  |                 |
| 12.0                                                                                                                                                                          | 5.20                   |      |      |                         |      |      | 12.0            |
| 14.0                                                                                                                                                                          | 5.20                   | 5.35 |      | 3.40                    |      |      | 14.0            |
| 16.0                                                                                                                                                                          | 5.20                   | 5.10 | 4.05 | 3.40                    |      |      | 16.0            |
| 18.0                                                                                                                                                                          | 4.65                   | 4.65 | 3.90 | 3.40                    | 2.85 |      | 18.0            |
| 20.0                                                                                                                                                                          | 3.90                   | 4.15 | 3.75 | 3.40                    | 2.65 |      | 20.0            |
| 22.0                                                                                                                                                                          | 3.25                   | 3.50 | 3.60 | 3.40                    | 2.50 | 1.75 | 22.0            |
| 24.0                                                                                                                                                                          | 2.75                   | 2.95 | 3.10 | 2.90                    | 2.35 | 1.70 | 24.0            |
| 26.0                                                                                                                                                                          | 2.35                   | 2.50 | 2.65 | 2.50                    | 2.25 | 1.65 | 26.0            |
| 28.0                                                                                                                                                                          | 1.95                   | 2.10 | 2.25 | 2.10                    | 2.10 | 1.60 | 28.0            |
| 30.0                                                                                                                                                                          | 1.65                   | 1.80 | 1.90 | 1.80                    | 2.00 | 1.55 | 30.0            |
| 32.0                                                                                                                                                                          | 1.40                   | 1.50 | 1.60 | 1.55                    | 1.75 | 1.50 | 32.0            |
| 34.0                                                                                                                                                                          | 1.22                   | 1.25 | 1.30 | 1.30                    | 1.50 | 1.45 | 34.0            |
| 36.0                                                                                                                                                                          | 0.95                   | 1.05 | 1.05 | 1.10                    | 1.25 | 1.40 | 36.0            |
| 38.0                                                                                                                                                                          | 0.80                   | 0.85 |      | 0.90                    | 1.05 | 1.20 | 38.0            |
| 40.0                                                                                                                                                                          | 0.60                   | 0.65 |      | 0.75                    | 0.90 | 0.95 | 40.0            |
| 42.0                                                                                                                                                                          | 0.50                   |      |      | 0.60                    | 0.70 | 0.75 | 42.0            |
| 44.0                                                                                                                                                                          |                        |      |      | 0.50                    | 0.55 |      | 44.0            |
| 46.0                                                                                                                                                                          |                        |      |      |                         | 0.40 |      | 46.0            |

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