

ATF 110G-5

130 US t / 110 t MAX. CAPACITY

TIER 4f

ALL TERRAIN CRANE



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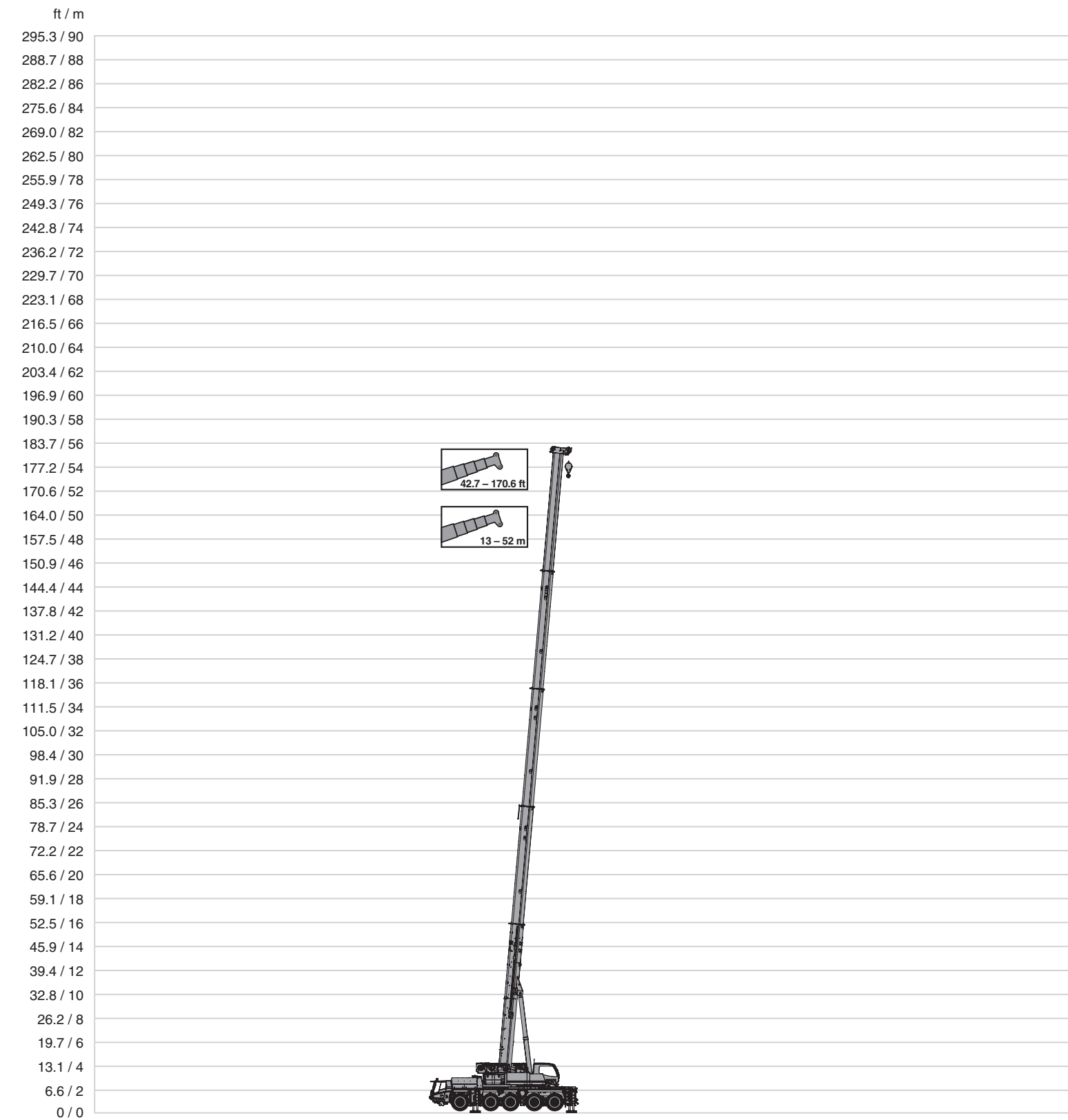
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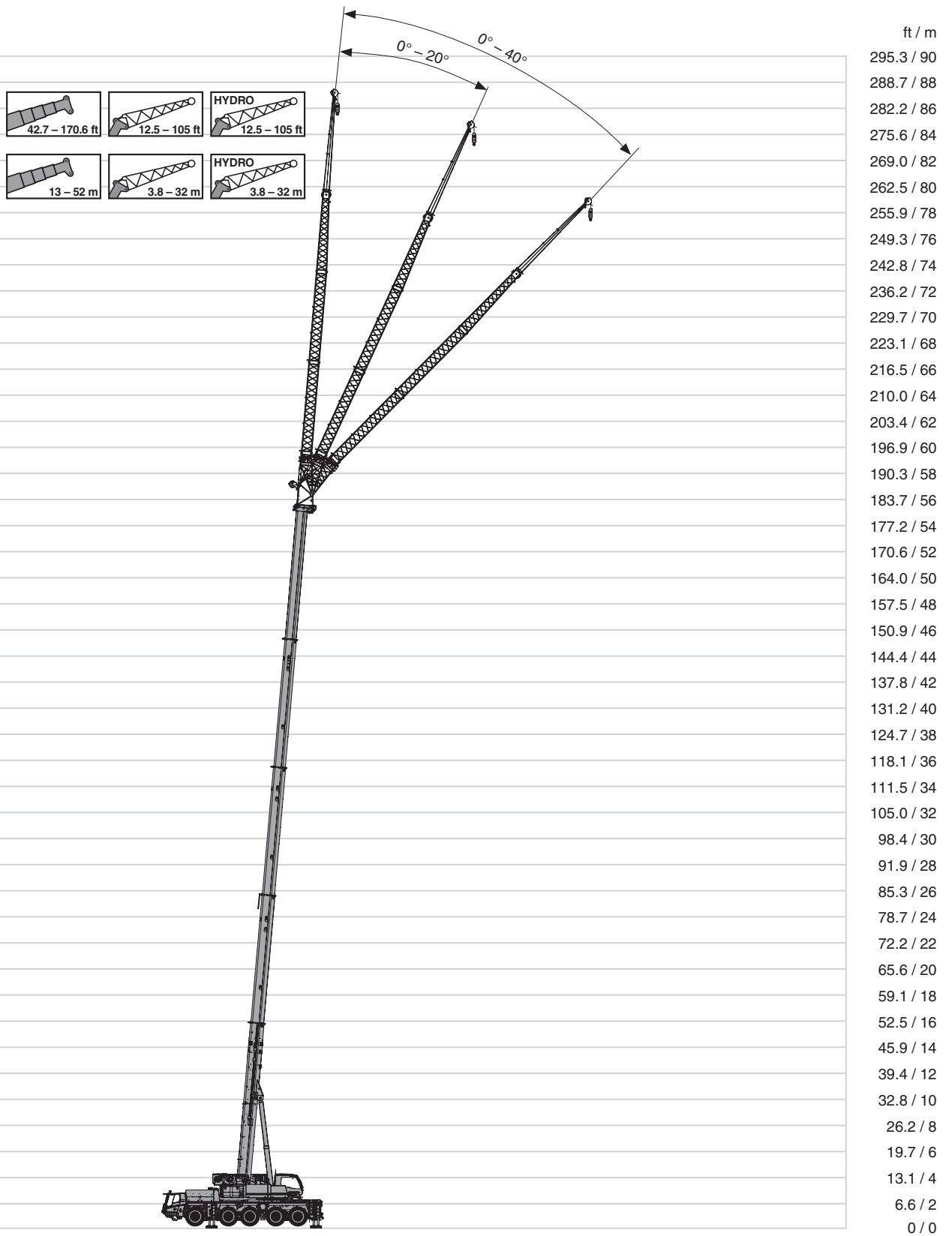
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GENERAL TECHNICAL DATA

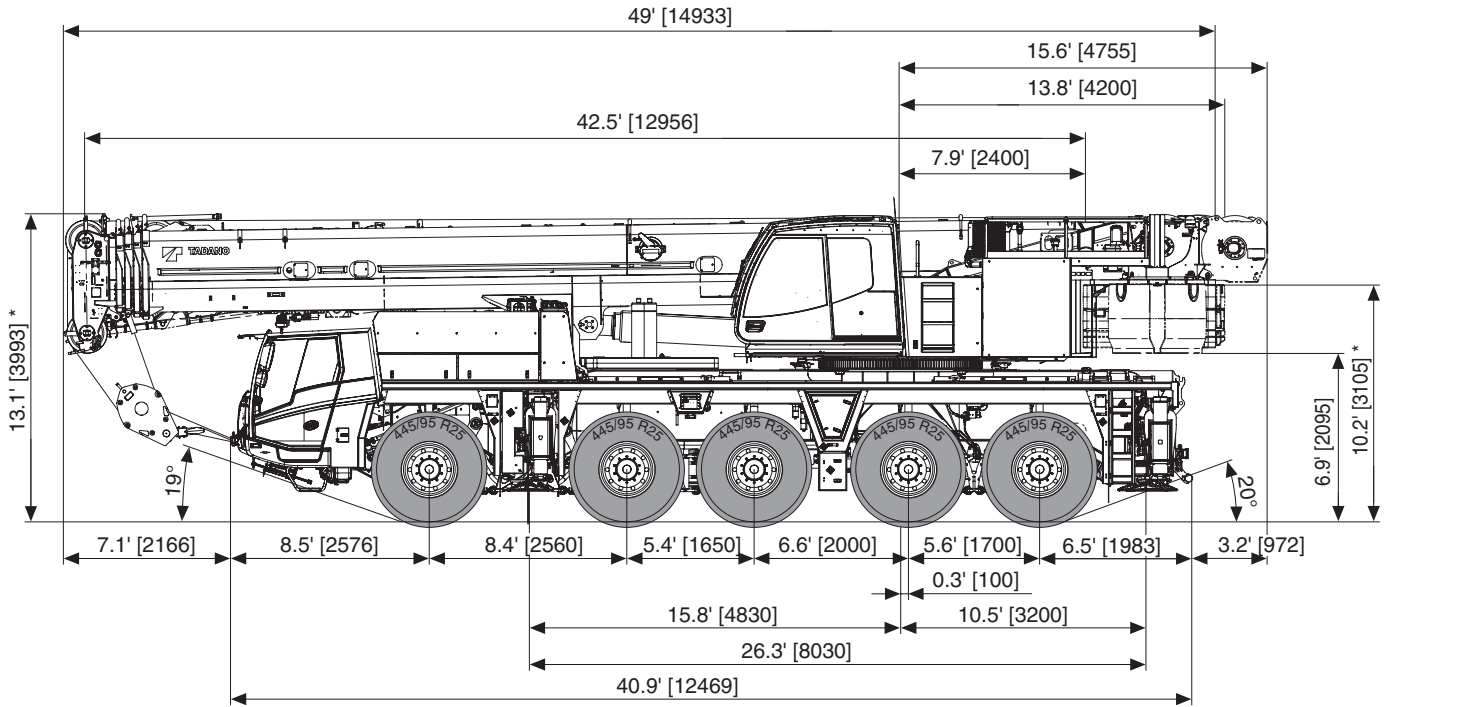
CARACTÉRISTIQUES TECHNIQUES GÉNÉRALES
DATOS TÉCNICOS GENERALES



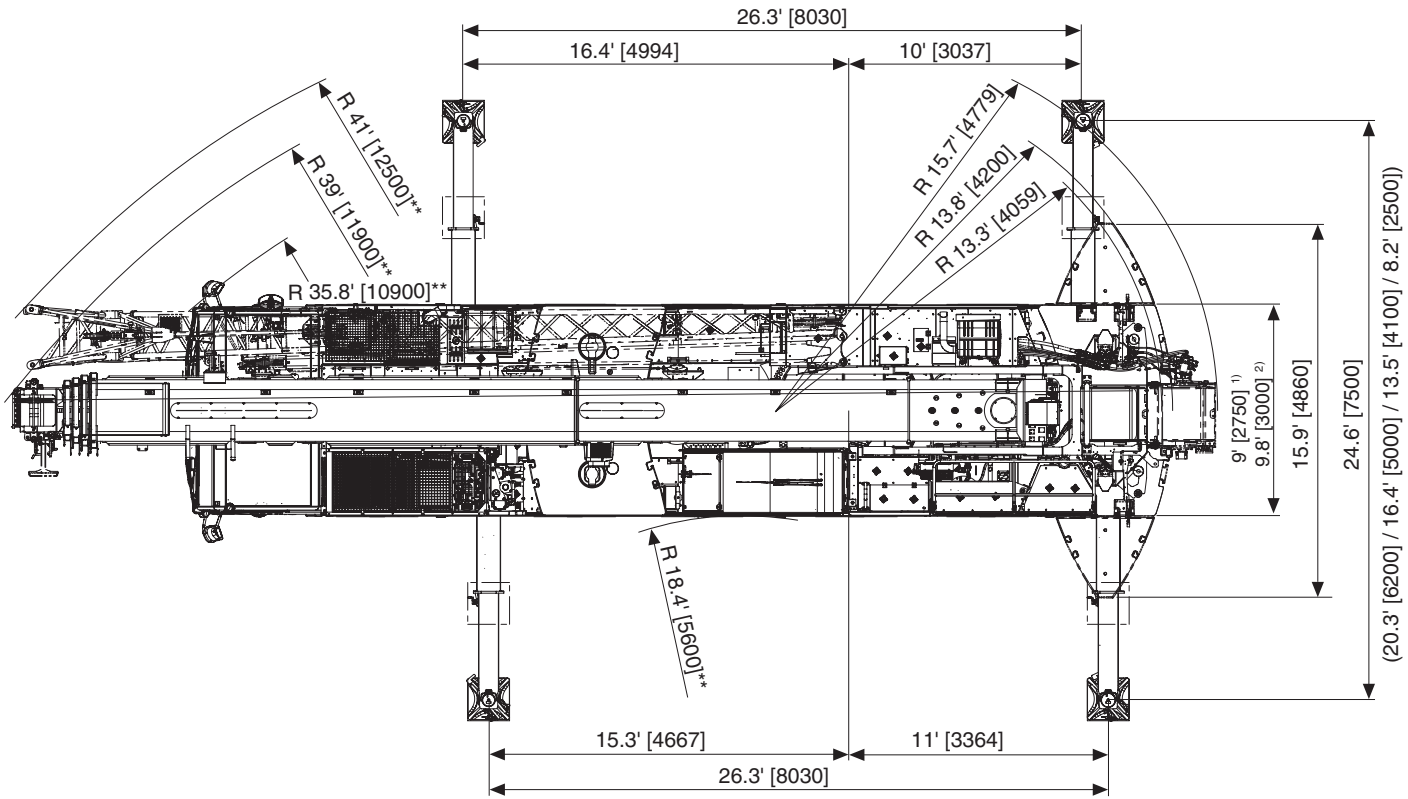




Vehicle dimensions · Dimensions du véhicule · Dimensiones del vehículo

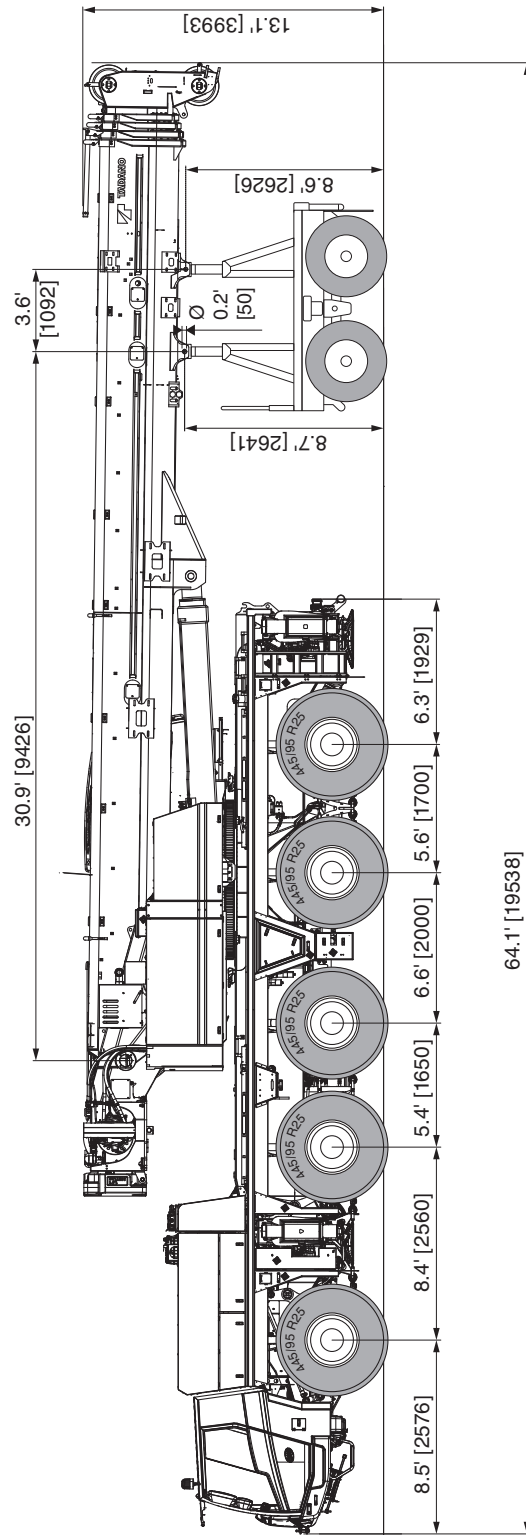


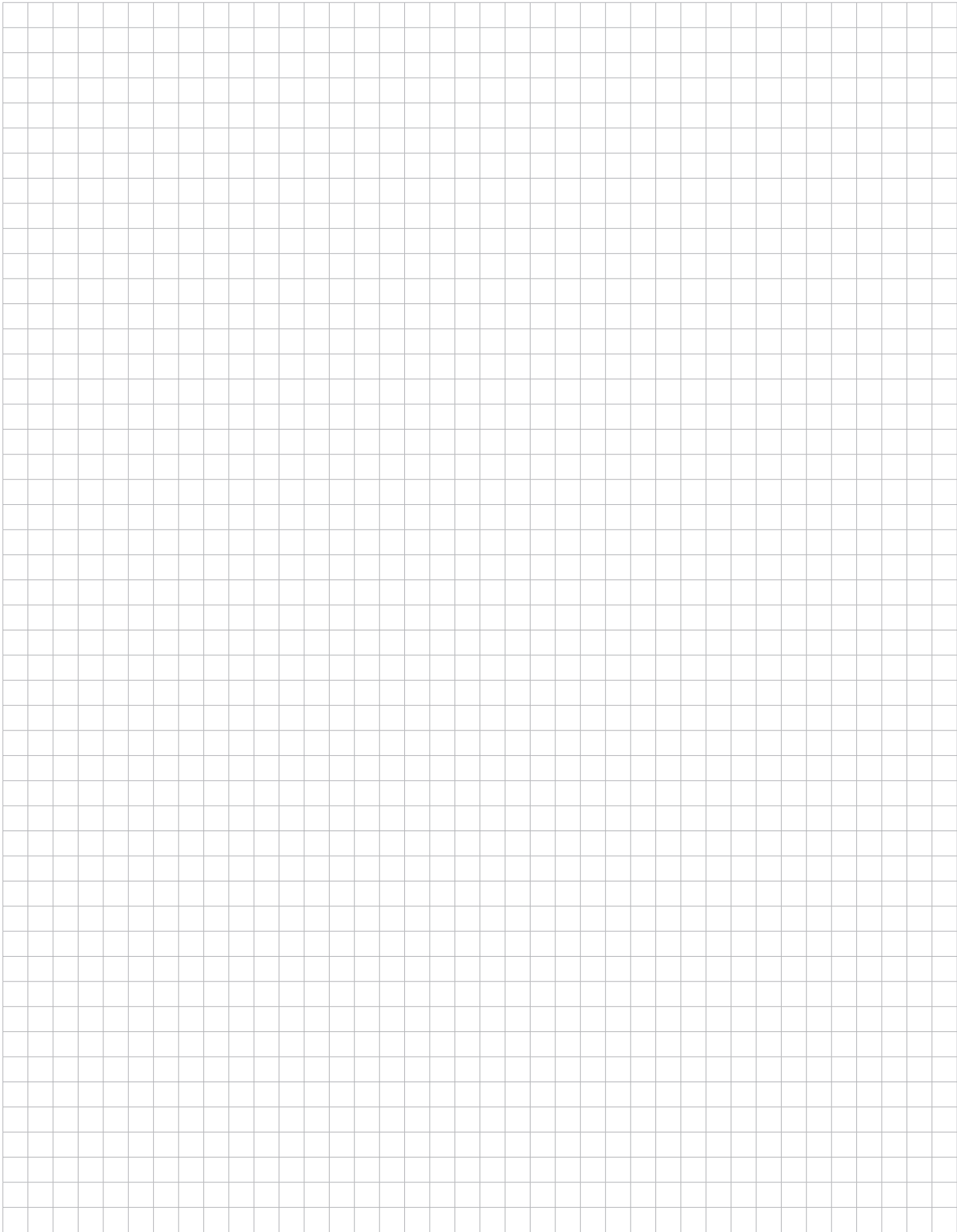
* - 0.4' [120] / + 0.5' [155]



** Minimum turning radius · Rayon de braquage mini · Radio de viraje mínimo

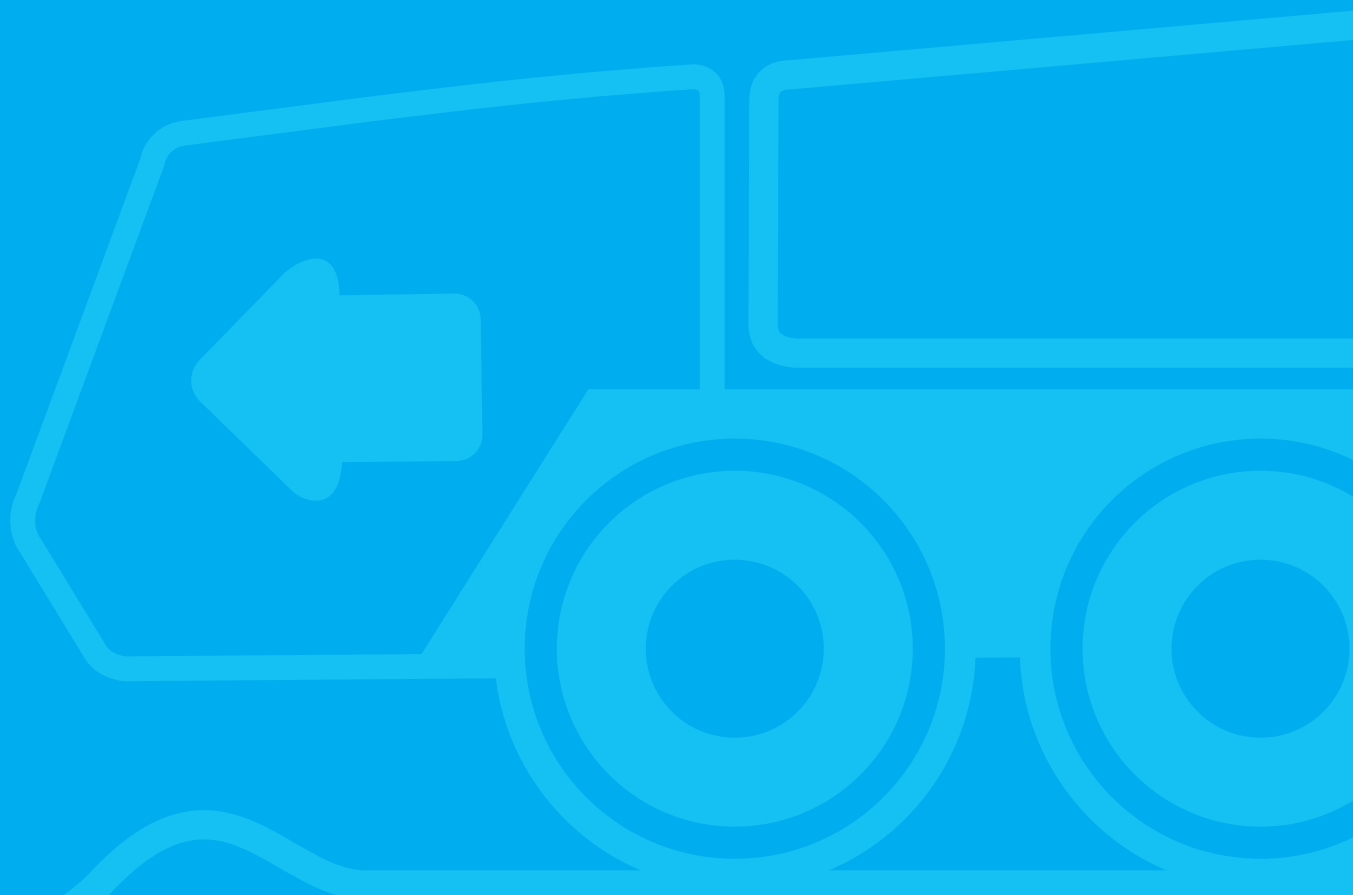
¹⁾ 445/95 R 25 (16.00 R 25)
²⁾ 525/80 R 25 (20.5 R 25)





TECHNICAL DATA FOR ON-ROAD AND OFF-ROAD DRIVING

CARACTÉRISTIQUES TECHNIQUES POUR MARCHÉ ROUTE ET TOUT TERRAIN
DATOS TÉCNICOS PARA SU TRASLADO POR CARRETERA Y TODO TERRENO



Axle loads

Boom to front		TOTAL					
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	1. Standard equipment + 2. Optional equipment + 3. Others	119,847/ 54362	24,719/ 11212	24,731/ 11218	23,404/ 10616	23,529/ 10673	23,464/ 10643
1. Standard Equipment	See page 46; no counterweight	105,461/ 47836	21,956/ 9959	22,586/ 10245	20,193/ 9159	20,407/ 9257	20,319/ 9217
2. Optional Equipment (selection)	Tyres 525/80R25 (20.50 R25) instead of 445/95R25 (16.00 R25)	1,500/ 681	299/ 135	299/ 135	301/ 137	301/ 136	301/ 137
	Drive 10x8 instead of Drive 10x6	883/ 400	744/ 337	137/ 62	1/ 0	1/ 0	1/ 0
	Towing hook at rear, including couplings for lights and brake	76/ 34	-29/ -13	-29/ -13	46/ 21	44/ 20	45/ 20
	Toolbox at rear (without wood storage)	198/ 90	-80/ -36	-79/ -36	121/ 55	117/ 53	118/ 54
	Auxiliary winch including rope	3,256/ 1477	-1,460/ -622	-1,449/ -657	2,095/ 950	2,026/ 919	2,044/ 927
	Hose drum for hydraulic jib (detachable)	393/ 178	327/ 148	324/ 147	-88/ -40	-85/ -38	-86/ -39
	Hydraulic jib fixed on main boom (transport position)	4,072/ 1847	2,610/ 1184	2,591/ 1175	-384/ -174	-371/ -168	-374/ -170
	Single top	141/ 64	151/ 68	150/ 68	-54/ -25	-52/ -24	-53/ -25
	Additional oil cooler	97/ 44	-7/ -3	-7/ -3	38/ 17	36/ 17	37/ 17
	Hook block 11.0 US t / 10 t (in storage on carrier)	655/ 297	60/ 27	60/ 27	182/ 83	176/ 80	177/ 80
3. Others	Driver	225/ 102	195/ 88	193/ 88	-56/ -25	-54/ -24	-54/ -25
	Fuel in carrier	1,138/ 516	-237/ -107	-235/ -107	547/ 248	529/ 240	534/ 242
	Fuel in superstructure	474/ 215	-65/ -29	-64/ -29	205/ 93	198/ 90	200/ 91
Additional weight information	Hook block 35.3 US t / 32 t (in transportation at front bumper)	977/ 443	944/ 428	937/ 425	-308/ -140	-297/ -135	-300/ -136
	Hook block 69.4 US t / 63 t (in transportation at front bumper)	1,323/ 600	1,322/ 599	1,312/ 595	-446/ -202	-431/ -195	-435/ -197
	Counterweight No. 1; 2,646 lbs / 1.2 t (on carrier)	2,624/ 1190	901/ 409	894/ 406	281/ 128	272/ 123	275/ 125
	Counterweight No. 2; 6,614 lbs / 3.0 t (on carrier)	6,546/ 2969	2,257/ 1024	2,240/ 1016	696/ 316	673/ 305	679/ 308
	Counterweight No. 2a; 3,087 lbs / 1.4 t (on carrier)	3,201/ 1452	1,103/ 500	1,095/ 497	341/ 155	330/ 149	332/ 151
	Counterweight No. 3; 5,071 lbs / 2.3 t (on carrier)	4,922/ 2233	1,696/ 469	1,683/ 764	524/ 238	507/ 230	512/ 232
	2 x Counterweight No. 4; 2 x 6,614 lbs / 2 x 3 t (on carrier)	12,833/ 5821	4,399/ 1996	4,367/ 1981	1,382/ 627	1,336/ 606	1,348/ 612
	Counterweight No. 5; 22,046 lbs / 10 t (on carrier)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035
	Counterweight No. 7; 3,087 lbs / 1.4 t (on superstructure)	3,231/ 1466	-1,117/ -507	-1,109/ -503	1,855/ 841	1,793/ 813	1,809/ 821
	Counterweight No. 8; 3,307 lbs / 1.5 t (on superstructure)	3,304/ 1499	-1,405/ -637	-1,394/ -633	2,074/ 941	2,006/ 910	2,023/ 918

Axle loads

Boom over rear, supported by dolly (32.7 ft / 9.97 m behind boom pivot point)		TOTAL						
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	1. Standard equipment + 2. Optional equipment + 3. Others	119,784/ 54333	20,206/ 9165	20,251/ 9186	17,891/ 8115	18,199/ 8255	18,086/ 8204	25,151/ 11408
1. Standard Equipment	See page 46; no counterweight	106,677/ 48388	17,677/ 8018	18,340/ 8319	16,583/ 7522	16,925/ 7677	16,803/ 7622	20,349/ 9230
2. Optional Equipment (selection)	Tyres 525/80R25 (20.50 R25) instead of 445/95R25 (16.00 R25)	1,500/ 681	299/ 135	299/ 135	301/ 137	301/ 136	301/ 137	0/ 0
	Drive 10x8 instead of Drive 10x6	883/ 400	744/ 337	137/ 62	1/ 0	1/ 0	1/ 0	0/ 0
	Towing hook at rear, including couplings for lights and brake	76/ 34	-29/ -13	-29/ -13	46/ 21	44/ 20	45/ 20	0/ 0
	Toolbox at rear (without wood storage)	198/ 90	-80/ -36	-79/ -36	121/ 55	117/ 53	118/ 54	0/ 0
	Auxiliary winch including rope	3,256/ 1477	1,455/ 660	1,444/ 655	121/ 55	117/ 53	118/ 54	0/ 0
	Hose drum for hydraulic jib (detachable)	393/ 178	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	393/ 178
	Hydraulic jib fixed on main boom (transport position)	4,072/ 1847	177/ 80	175/ 80	122/ 55	118/ 54	119/ 54	3,360/ 1524
	Single top	141/ 64	-10/ -4	-10/ -4	-7/ -3	-6/ -3	-6/ -3	180/ 82
	Additional oil cooler	97/ 44	7/ 3	7/ 3	28/ 13	27/ 12	28/ 13	0/ 0
	Hook block 11.0 US t / 10 t (in storage on carrier)	655/ 297	60/ 27	60/ 27	182/ 83	176/ 80	177/ 80	0/ 0
3. Others	Driver	225/ 102	195/ 88	193/ 88	-56/ -25	-54/ -24	-54/ -25	0/ 0
	Fuel in carrier	1,138/ 516	-237/ -107	-235/ -107	547/ 248	529/ 240	534/ 242	0/ 0
	Fuel in superstructure	474/ 215	63/ 29	63/ 28	118/ 54	114/ 52	116/ 52	0/ 0
Additional weight information	Hook block 35.3 US t / 32 t (hanging at main boom)	977/ 443	-73/ -33	-72/ -33	-50/ -23	-49/ -22	-49/ -22	1,269/ 576
	Hook block 69.4 US t / 63 t (hanging at main boom)	1,323/ 600	-98/ -45	-98/ -44	-68/ -31	-66/ -30	-66/ -30	1,719/ 780
	Counterweight No. 1; 2,646 lbs / 1.2 t (on carrier)	2,624/ 1190	901/ 409	894/ 406	281/ 128	272/ 123	275/ 125	0/ 0
	Counterweight No. 2; 6,614 lbs / 3.0 t (on carrier)	6,546/ 2969	2,257/ 1024	2,240/ 1016	696/ 316	673/ 305	679/ 308	0/ 0
	Counterweight No. 2a; 3,087 lbs / 1.4 t (on carrier)	3,201/ 1452	1,103/ 500	1,095/ 497	341/ 155	330/ 149	332/ 151	0/ 0
	Counterweight No. 3; 5,071 lbs / 2.3 t (on carrier)	4,922/ 2233	1,696/ 769	1,683/ 764	524/ 238	507/ 230	512/ 232	0/ 0
	2 x Counterweight No. 4; 2 x 6,614 lbs / 2 x 3 t (on carrier)	12,833/ 5821	4,399/ 1996	4,367/ 1981	1,382/ 627	1,336/ 606	1,348/ 612	0/ 0
	Counterweight No. 5; 22,046 lbs / 10 t (on carrier)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035	0/ 0
	Counterweight No. 7; 3,087 lbs / 1.4 t (on superstructure)	3,231/ 1466	1,106/ 502	1,098/ 498	349/ 158	337/ 153	340/ 154	0/ 0
	Counterweight No. 8; 3,307 lbs / 1.5 t (on superstructure)	3,304/ 1499	1,394/ 632	1,383/ 628	179/ 81	173/ 79	175/ 79	0/ 0

Charges par essieu

Flèche vers l'avant		TOTAL					
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	1. Équipement standard + 2. équipement spécial + 3. autres	119,847/ 54362	24,719/ 11212	24,731/ 11218	23,404/ 10616	23,529/ 10673	23,464/ 10643
1. Équipement standard	Voir page 47; sans contrepoids	105,461/ 47836	21,956/ 9959	22,586/ 10245	20,193/ 9159	20,407/ 9257	20,319/ 9217
2. Équipement spécial (sélection)	Pneus 525/80R25 (20.50 R25) au lieu de 445/95R25 (16.00 R25)	1,500/ 681	299/ 135	299/ 135	301/ 137	301/ 136	301/ 137
	Entraînement 10x8 au lieu de 10x6	883/ 400	744/ 337	137/ 62	1/ 0	1/ 0	1/ 0
	Crochet de remorquage pour chariot de transport, y compris accouplements pour éclairage et frein	76/ 34	-29/ -13	-29/ -13	46/ 21	44/ 20	45/ 20
	Boîte d'outillage à l'arrière de l'engin (sans boîte de rangement de bois)	198/ 90	-80/ -36	-79/ -36	121/ 55	117/ 53	118/ 54
	Treuil auxiliaire y compris câble métallique	3,256/ 1477	-1,460/ -622	-1,449/ -657	2,095/ 950	2,026/ 919	2,044/ 927
	Tambour de flexible pour rallonge de flèche hydraulique (détachable)	393/ 178	327/ 148	324/ 147	-88/ -40	-85/ -38	-86/ -39
	Rallonge de flèche hydraulique fixée sur flèche principale (position de transport)	4,072/ 1847	2,610/ 1184	2,591/ 1175	-384/ -174	-371/ -168	-374/ -170
	Poulie simple	141/ 64	151/ 68	150/ 68	-54/ -25	-52/ -24	-53/ -25
	Radiateur supplémentaire	97/ 44	-7/ -3	-7/ -3	38/ 17	36/ 17	37/ 17
	Moufle 11.0 US t / 10 t (déposée sur le châssis)	655/ 297	60/ 27	60/ 27	182/ 83	176/ 80	177/ 80
3. Autres	Conducteur	225/ 102	195/ 88	193/ 88	-56/ -25	-54/ -24	-54/ -25
	Carburant dans le châssis	1,138/ 516	-237/ -107	-235/ -107	547/ 248	529/ 240	534/ 242
	Carburant dans la superstructure	474/ 215	-65/ -29	-64/ -29	205/ 93	198/ 90	200/ 91
Poids supplémentaires	Moufle 35.3 US t / 32 t (lors du transport: déposée sur le châssis)	977/ 443	944/ 428	937/ 425	-308/ -140	-297/ -135	-300/ -136
	Moufle 69.4 US t / 63 t (lors du transport: déposée sur le châssis)	1,323/ 600	1,322/ 599	1,312/ 595	-446/ -202	-431/ -195	-435/ -197
	Contrepoids n° 1; 2,646 lbs / 1.2 t (sur châssis)	2,624/ 1190	901/ 409	894/ 406	281/ 128	272/ 123	275/ 125
	Contrepoids n° 2; 6,614 lbs / 3.0 t (sur châssis)	6,546/ 2969	2,257/ 1024	2,240/ 1016	696/ 316	673/ 305	679/ 308
	Contrepoids n° 2a; 3,087 lbs / 1.4 t (sur châssis)	3,201/ 1452	1,103/ 500	1,095/ 497	341/ 155	330/ 149	332/ 151
	Contrepoids n° 3; 5,071 lbs / 2.3 t (sur châssis)	4,922/ 2233	1,696/ 469	1,683/ 764	524/ 238	507/ 230	512/ 232
	2 x Contrepoids n° 4; 2 x 6,614 lbs / 2 x 3 t (sur châssis)	12,833/ 5821	4,399/ 1996	4,367/ 1981	1,382/ 627	1,336/ 606	1,348/ 612
	Contrepoids n° 5; 22,046 lbs / 10 t (sur châssis)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035
	Contrepoids n° 7; 3,087 lbs / 1.4 t (sur superstructure)	3,231/ 1466	-1,117/ -507	-1,109/ -503	1,855/ 841	1,793/ 813	1,809/ 821
	Contrepoids n° 8; 3,307 lbs / 1.5 t (sur superstructure)	3,304/ 1499	-1,405/ -637	-1,394/ -633	2,074/ 941	2,006/ 910	2,023/ 918

Charges par essieu

Flèche vers l'arrière, soutenue par chariot de transport "Dolly" (32.7 ft / 9.97 m derrière le point d'articulation de la flèche)		TOTAL						
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	1. Équipement standard + 2. équipement spécial + 3. autres	119,784/ 54333	20,206/ 9165	20,251/ 9186	17,891/ 8115	18,199/ 8255	18,086/ 8204	25,151/ 11408
1. Équipement standard	Voir page 47; sans contrepoids	106,677/ 48388	17,677/ 8018	18,340/ 8319	16,583/ 7522	16,925/ 7677	16,803/ 7622	20,349/ 9230
2. Équipement spécial (sélection)	Pneus 525/80R25 (20.50 R25) au lieu de 445/95R25 (16.00 R25)	1,500/ 681	299/ 135	299/ 135	301/ 137	301/ 136	301/ 137	0/ 0
	Entraînement 10x8 au lieu de 10x6	883/ 400	744/ 337	137/ 62	1/ 0	1/ 0	1/ 0	0/ 0
	Crochet de remorquage pour chariot de transport, y compris accouplements pour éclairage et frein	76/ 34	-29/ -13	-29/ -13	46/ 21	44/ 20	45/ 20	0/ 0
	Boîte d'outillage à l'arrière de l'engin (sans boîte de rangement de bois)	198/ 90	-80/ -36	-79/ -36	121/ 55	117/ 53	118/ 54	0/ 0
	Treuil auxiliaire y compris câble métallique	3,256/ 1477	1,455/ 660	1,444/ 655	121/ 55	117/ 53	118/ 54	0/ 0
	Tambour de flexible pour rallonge de flèche hydraulique (détachable)	393/ 178	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	393/ 178
	Rallonge de flèche hydraulique fixée sur flèche principale (position de transport)	4,072/ 1847	177/ 80	175/ 80	122/ 55	118/ 54	119/ 54	3,360/ 1524
	Poulie simple	141/ 64	-10/ -4	-10/ -4	-7/ -3	-6/ -3	-6/ -3	180/ 82
	Radiateur supplémentaire	97/ 44	7/ 3	7/ 3	28/ 13	27/ 12	28/ 13	0/ 0
	Moufle 11.0 US t / 10 t (déposée sur le châssis)	655/ 297	60/ 27	60/ 27	182/ 83	176/ 80	177/ 80	0/ 0
3. Autres	Conducteur	225/ 102	195/ 88	193/ 88	-56/ -25	-54/ -24	-54/ -25	0/ 0
	Carburant dans le châssis	1,138/ 516	-237/ -107	-235/ -107	547/ 248	529/ 240	534/ 242	0/ 0
	Carburant dans la superstructure	474/ 215	63/ 29	63/ 28	118/ 54	114/ 52	116/ 52	0/ 0
Poids supplémentaires	Moufle 35.3 US t / 32 t (suspendue sur la flèche principale)	977/ 443	-73/ -33	-72/ -33	-50/ -23	-49/ -22	-49/ -22	1,269/ 576
	Moufle 69.4 US t / 63 t (suspendue sur la flèche principale)	1,323/ 600	-98/ -45	-98/ -44	-68/ -31	-66/ -30	-66/ -30	1,719/ 780
	Contrepoids n° 1; 2,646 lbs / 1.2 t (sur châssis)	2,624/ 1190	901/ 409	894/ 406	281/ 128	272/ 123	275/ 125	0/ 0
	Contrepoids n° 2; 6,614 lbs / 3.0 t (sur châssis)	6,546/ 2969	2,257/ 1024	2,240/ 1016	696/ 316	673/ 305	679/ 308	0/ 0
	Contrepoids n° 2a; 3,087 lbs / 1.4 t (sur châssis)	3,201/ 1452	1,103/ 500	1,095/ 497	341/ 155	330/ 149	332/ 151	0/ 0
	Contrepoids n° 3; 5,071 lbs / 2.3 t (sur châssis)	4,922/ 2233	1,696/ 769	1,683/ 764	524/ 238	507/ 230	512/ 232	0/ 0
	2 x Contrepoids n° 4; 2 x 6,614 lbs / 2 x 3 t (sur châssis)	12,833/ 5821	4,399/ 1996	4,367/ 1981	1,382/ 627	1,336/ 606	1,348/ 612	0/ 0
	Contrepoids n° 5; 22,046 lbs / 10 t (sur châssis)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035	0/ 0
	Contrepoids n° 7; 3,087 lbs / 1.4 t (sur superstructure)	3,231/ 1466	1,106/ 502	1,098/ 498	349/ 158	337/ 153	340/ 154	0/ 0
	Contrepoids n° 8; 3,307 lbs / 1.5 t (sur superstructure)	3,304/ 1499	1,394/ 632	1,383/ 628	179/ 81	173/ 79	175/ 79	0/ 0

Cargas por eje

Pluma dirigida hacia delante		TOTAL					
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	1. Equipamiento estándar + 2. Equipamiento especial + 3. Otros	119,847/ 54362	24,719/ 11212	24,731/ 11218	23,404/ 10616	23,529/ 10673	23,464/ 10643
1. Equipamiento estándar	Ver páginas 48; sin contrapeso	105,461/ 47836	21,956/ 9959	22,586/ 10245	20,193/ 9159	20,407/ 9257	20,319/ 9217
2. Equipamiento especial (selección)	Neumáticos 525/80R25 (20.50 R25) en lugar de 445/95R25 (16.00 R25)	1,500/ 681	299/ 135	299/ 135	301/ 137	301/ 136	301/ 137
	Tracción 10x8 en lugar de 10x6	883/ 400	744/ 337	137/ 62	1/ 0	1/ 0	1/ 0
	Dispositivo de enganche para remolque, incluyendo los acoplamientos para iluminación y frenos	76/ 34	-29/ -13	-29/ -13	46/ 21	44/ 20	45/ 20
	Caja de herramientas en la parte trasera (sin caja para maderos)	198/ 90	-80/ -36	-79/ -36	121/ 55	117/ 53	118/ 54
	Torno auxiliar incluyendo el cable	3,256/ 1477	-1,460/ -622	-1,449/ -657	2,095/ 950	2,026/ 919	2,044/ 927
	Tambor de manguera para alargamiento de pluma hidráulico (desmontable)	393/ 178	327/ 148	324/ 147	-88/ -40	-85/ -38	-86/ -39
	Alargamiento de pluma hidráulica fijado sobre pluma principal (posición de transporte)	4,072/ 1847	2,610/ 1184	2,591/ 1175	-384/ -174	-371/ -168	-374/ -170
	Rodillo antepuesto	141/ 64	151/ 68	150/ 68	-54/ -25	-52/ -24	-53/ -25
	Radiator de aceite adicional	97/ 44	-7/ -3	-7/ -3	38/ 17	36/ 17	37/ 17
	Motón 11.0 US t / 10 t (depositado en el chasis)	655/ 297	60/ 27	60/ 27	182/ 83	176/ 80	177/ 80
3. Otros	Conductor	225/ 102	195/ 88	193/ 88	-56/ -25	-54/ -24	-54/ -25
	Combustible en el chasis	1,138/ 516	-237/ -107	-235/ -107	547/ 248	529/ 240	534/ 242
	Combustible en la superestructura	474/ 215	-65/ -29	-64/ -29	205/ 93	198/ 90	200/ 91
Pesos adicionales	Motón 35.3 US t / 32 t (para el transporte: en el soporte transversal delantero)	977/ 443	944/ 428	937/ 425	-308/ -140	-297/ -135	-300/ -136
	Motón 69.4 US t / 63 t (para el transporte: en el soporte transversal delantero)	1,323/ 600	1,322/ 599	1,312/ 595	-446/ -202	-431/ -195	-435/ -197
	Contrapeso N° 1; 2,646 lbs / 1.2 t (encima del chasis)	2,624/ 1190	901/ 409	894/ 406	281/ 128	272/ 123	275/ 125
	Contrapeso N° 2; 6,614 lbs / 3.0 t (encima del chasis)	6,546/ 2969	2,257/ 1024	2,240/ 1016	696/ 316	673/ 305	679/ 308
	Contrapeso N° 2a; 3,087 lbs / 1.4 t (encima del chasis)	3,201/ 1452	1,103/ 500	1,095/ 497	341/ 155	330/ 149	332/ 151
	Contrapeso N° 3; 5,071 lbs / 2.3 t (encima del chasis)	4,922/ 2233	1,696/ 469	1,683/ 764	524/ 238	507/ 230	512/ 232
	2 x Contrapeso N° 4; 2 x 6,614 lbs / 2 x 3 t (encima del chasis)	12,833/ 5821	4,399/ 1996	4,367/ 1981	1,382/ 627	1,336/ 606	1,348/ 612
	Contrapeso N° 5; 22,046 lbs / 10 t (encima del chasis)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035
	Contrapeso N° 7; 3,087 lbs / 1.4 t (encima del superestructura)	3,231/ 1466	-1,117/ -507	-1,109/ -503	1,855/ 841	1,793/ 813	1,809/ 821
	Contrapeso N° 8; 3,307 lbs / 1.5 t (encima del superestructura)	3,304/ 1499	-1,405/ -637	-1,394/ -633	2,074/ 941	2,006/ 910	2,023/ 918

Pluma hacia atrás, apoyada por carro tipo dolly (32.7 ft / 9.97 m detrás punto de articulación de la pluma)		TOTAL						
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	1. Equipamiento estándar + 2. Equipamiento especial + 3. Otros	119,784/ 54333	20,206/ 9165	20,251/ 9186	17,891/ 8115	18,199/ 8255	18,086/ 8204	25,151/ 11408
1. Equipamiento estándar	Ver páginas 48; sin contrapeso	106,677/ 48388	17,677/ 8018	18,340/ 8319	16,583/ 7522	16,925/ 7677	16,803/ 7622	20,349/ 9230
2. Equipamiento especial (selección)	Neumáticos 525/80R25 (20.50 R25) en lugar de 445/95R25 (16.00 R25)	1,500/ 681	299/ 135	299/ 135	301/ 137	301/ 136	301/ 137	0/ 0
	Tracción 10x8 en lugar de 10x6	883/ 400	744/ 337	137/ 62	1/ 0	1/ 0	1/ 0	0/ 0
	Dispositivo de enganche para remolque, incluyendo los acoplamientos para iluminación y frenos	76/ 34	-29/ -13	-29/ -13	46/ 21	44/ 20	45/ 20	0/ 0
	Caja de herramientas en la parte trasera (sin caja para maderos)	198/ 90	-80/ -36	-79/ -36	121/ 55	117/ 53	118/ 54	0/ 0
	Torno auxiliar incluyendo el cable	3,256/ 1477	1,455/ 660	1,444/ 655	121/ 55	117/ 53	118/ 54	0/ 0
	Tambor de manguera para alargamiento de pluma hidráulico (desmontable)	393/ 178	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	393/ 178
	Alargamiento de pluma hidráulica fijado sobre pluma principal (posición de transporte)	4,072/ 1847	177/ 80	175/ 80	122/ 55	118/ 54	119/ 54	3,360/ 1524
	Rodillo antepuesto	141/ 64	-10/ -4	-10/ -4	-7/ -3	-6/ -3	-6/ -3	180/ 82
	Radiator de aceite adicional	97/ 44	7/ 3	7/ 3	28/ 13	27/ 12	28/ 13	0/ 0
	Motón 11.0 US t / 10 t (depositado en el chasis)	655/ 297	60/ 27	60/ 27	182/ 83	176/ 80	177/ 80	0/ 0
3. Otros	Conductor	225/ 102	195/ 88	193/ 88	-56/ -25	-54/ -24	-54/ -25	0/ 0
	Combustible en el chasis	1,138/ 516	-237/ -107	-235/ -107	547/ 248	529/ 240	534/ 242	0/ 0
	Combustible en la superestructura	474/ 215	63/ 29	63/ 28	118/ 54	114/ 52	116/ 52	0/ 0
Pesos adicionales	Motón 35.3 US t / 32 t (suspendido desde la pluma principal)	977/ 443	-73/ -33	-72/ -33	-50/ -23	-49/ -22	-49/ -22	1,269/ 576
	Motón 69.4 US t / 63 t (suspendido desde la pluma principal)	1,323/ 600	-98/ -45	-98/ -44	-68/ -31	-66/ -30	-66/ -30	1,719/ 780
	Contrapeso N° 1; 2,646 lbs / 1.2 t (encima del chasis)	2,624/ 1190	901/ 409	894/ 406	281/ 128	272/ 123	275/ 125	0/ 0
	Contrapeso N° 2; 6,614 lbs / 3.0 t (encima del chasis)	6,546/ 2969	2,257/ 1024	2,240/ 1016	696/ 316	673/ 305	679/ 308	0/ 0
	Contrapeso N° 2a; 3,087 lbs / 1.4 t (encima del chasis)	3,201/ 1452	1,103/ 500	1,095/ 497	341/ 155	330/ 149	332/ 151	0/ 0
	Contrapeso N° 3; 5,071 lbs / 2.3 t (encima del chasis)	4,922/ 2233	1,696/ 769	1,683/ 764	524/ 238	507/ 230	512/ 232	0/ 0
	2 x Contrapeso N° 4; 2 x 6,614 lbs / 2 x 3 t (encima del chasis)	12,833/ 5821	4,399/ 1996	4,367/ 1981	1,382/ 627	1,336/ 606	1,348/ 612	0/ 0
	Contrapeso N° 5; 22,046 lbs / 10 t (encima del chasis)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035	0/ 0
	Contrapeso N° 7; 3,087 lbs / 1.4 t (encima del superestructura)	3,231/ 1466	1,106/ 502	1,098/ 498	349/ 158	337/ 153	340/ 154	0/ 0
	Contrapeso N° 8; 3,307 lbs / 1.5 t (encima del superestructura)	3,304/ 1499	1,394/ 632	1,383/ 628	179/ 81	173/ 79	175/ 79	0/ 0

Speeds and gradeability · Vitesses de conduite et gravisement de pente · Velocidades y pendientes superables

				
445/95 R 25 525/80 R 25	52.8 mph max. 85 km/h max.	25.5 mph max. 41 km/h max.	48 %	63 %

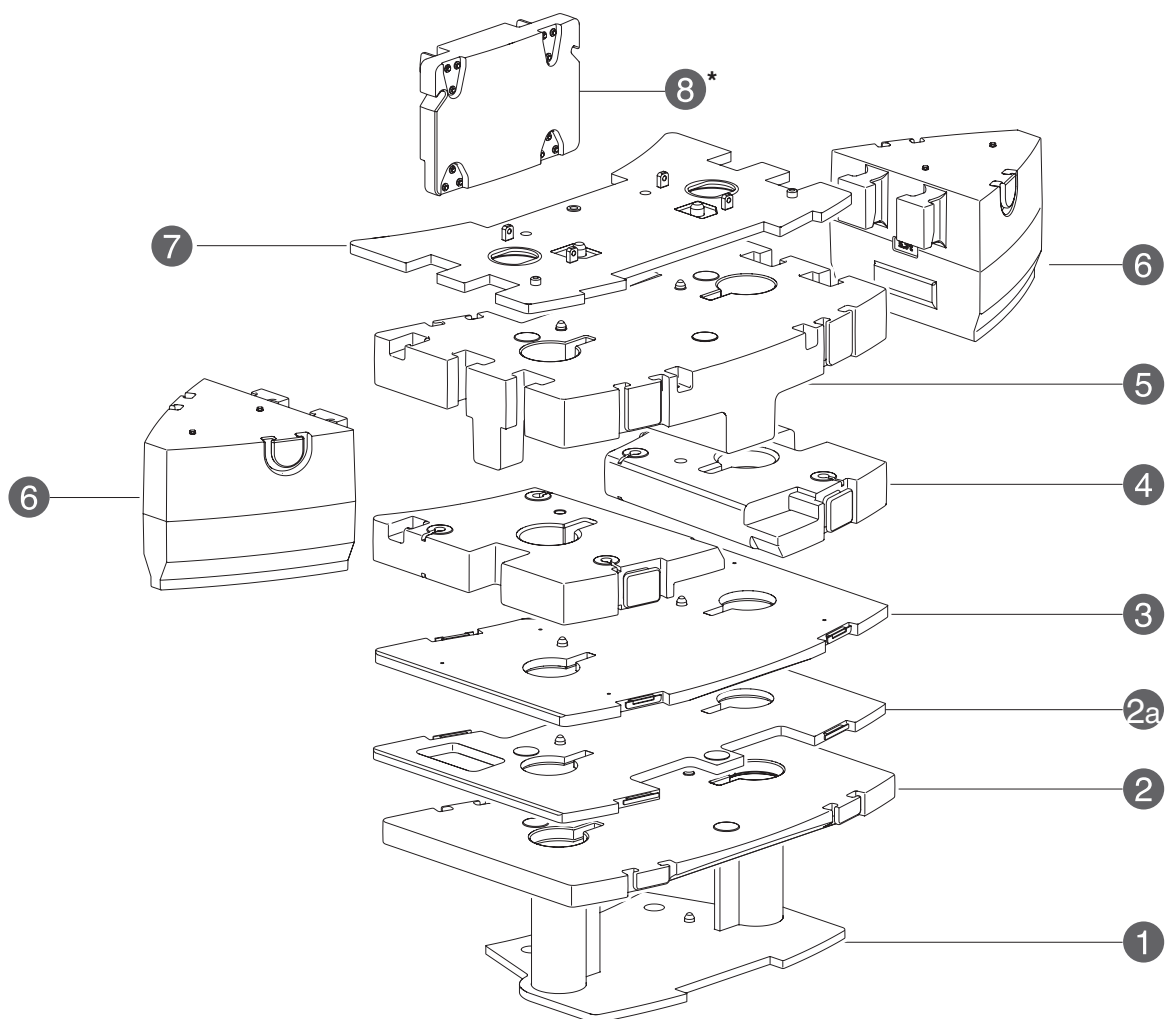
Steering · Direction · Dirección

		$v < 15.5 \text{ mph}$ $v < 25 \text{ km/h}$
		$15.5 \text{ mph} \leq v \leq 31.1 \text{ mph}$ $25 \text{ km/h} \leq v \leq 50 \text{ km/h}$
		$v > 31.1 \text{ mph}$ $v > 50 \text{ km/h}$
		Manual steering · Direction manuelle · Dirección manual
		Smallest turning circle · Rayon de braquage mini · Mínimo radio
		Diagonal steering · Marche en crabe · Marcha cangrejo
		Rear veering suppression · Suppression de déboîtement AR Supresión de movimiento transversal de parte posterior

TECHNICAL DATA FOR TRANSPORT

CARACTÉRISTIQUES TECHNIQUES POUR LE TRANSPORT
DATOS TÉCNICOS PARA EL TRANSPORTE

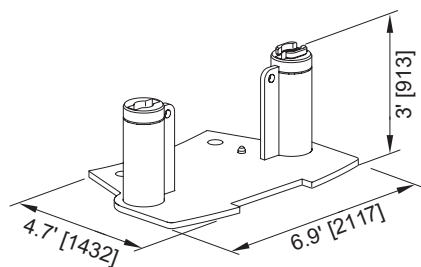




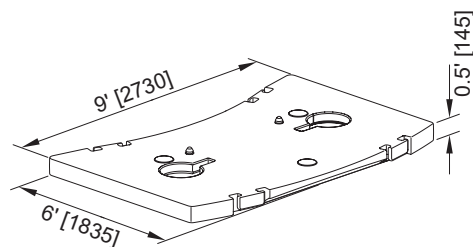
		3,307 lbs	6,393 lbs	18,739 lbs	23,810 lbs	37,038 lbs	40,786 lbs	45,856 lbs	54,013 lbs	59,084 lbs	82,453 lbs
		1.5 t	2.9 t	8.5 t	10.8 t	16.8 t	18.5 t	20.8 t	24.5 t	26.8 t	37.4 t
1	2,646 lbs 1.2 t	-	-	1	1	1	1	1	1	1	1
2	6,614 lbs 3.0 t	-	-	1	1	1	1	1	1	1	1
2a	3,087 lbs 1.4 t	-	-	1	1	1	1	1	1	1	1
3	5,070 lbs 2.3 t	-	-	-	1	1	-	1	-	1	1
4	6,614 lbs 3.0 t	-	-	-	-	2	-	-	2	2	2
5	22,046 lbs 10.0 t	-	-	-	-	-	1	1	1	1	1
6	11,684 lbs 5.3 t	-	-	-	-	-	-	-	-	-	2
7	3,087 lbs 1.4 t	-	1	1	1	1	1	1	1	1	1
8*	3,307 lbs 1.5 t	1	1	1	1	1	1	1	1	1	1

* Can be replaced by 2nd winch · Peut être remplacé par un 2e treuil · Sustituible por 2° cabrestante

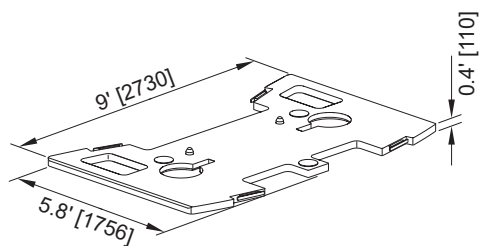
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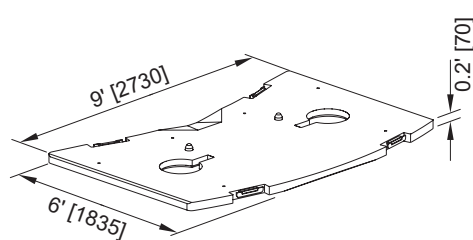
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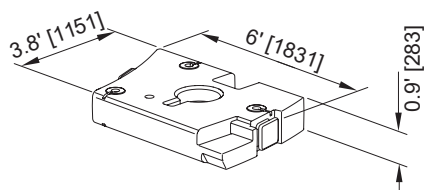
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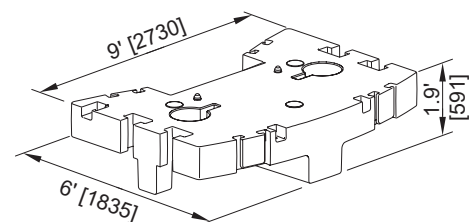
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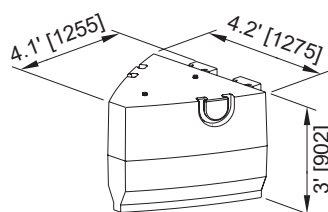
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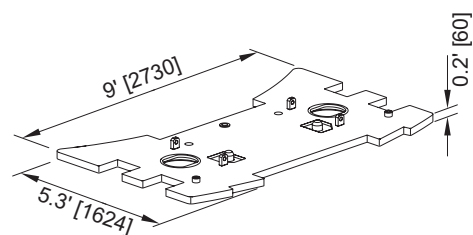
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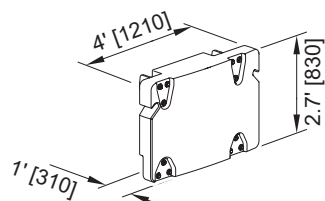
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7

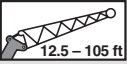
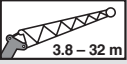
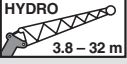


8*



* Can be replaced by 2nd winch · Peut être remplacé par un 2e treuil · Sustituible por 2° cabrestante

Jibs · Fléchettes · Plumines

	ft	m	
 12.5 – 105 ft  HYDRO 12.5 – 105 ft  3.8 – 32 m  HYDRO 3.8 – 32 m	3.3 ft + 9.2 ft	1 m + 2.8 m	1
	3.3 ft + 30.2 ft	1 m + 9.2 m	1 + 3
	3.3 ft + 55.8 ft	1 m + 17 m	1 + 3 + 4
	3.3 ft + 78.7 ft	1 m + 24 m	1 + 2 + 3 + 4
	3.3 ft + 101.7 ft	1 m + 31 m	1 + 2 + 2 + 3 + 4

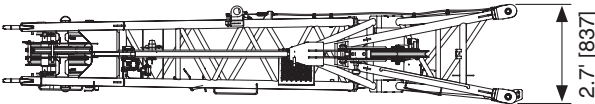
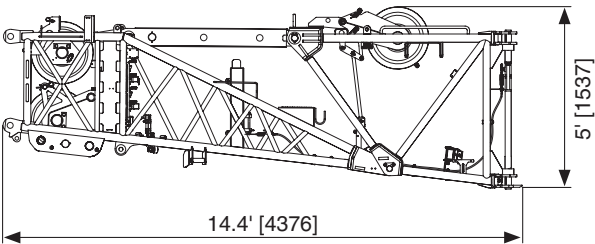
1



1,896



860



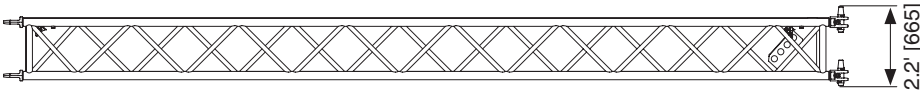
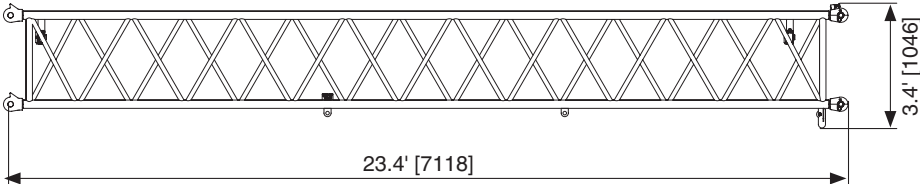
2



1,058



480



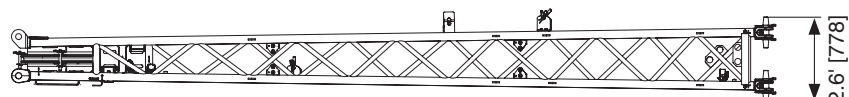
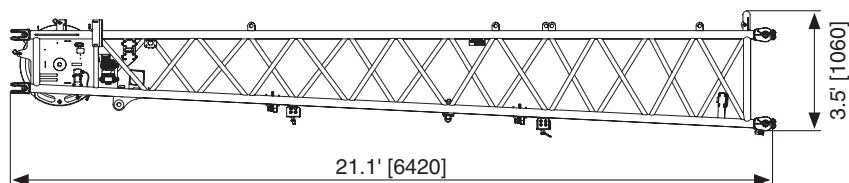
3



1,036



470



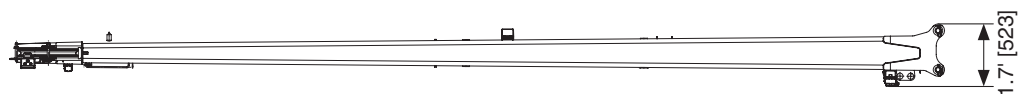
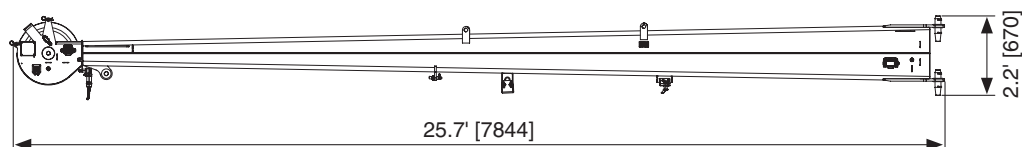
4



917



416



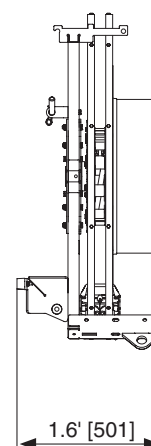
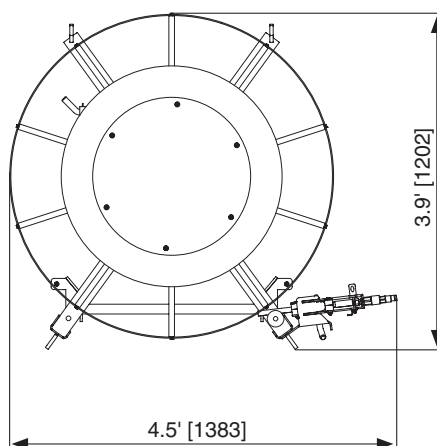
Hose drum for hydraulic jib · Tambour de flexible pour fléchette hydraulique · Devanadera para plumín hidráulico



386

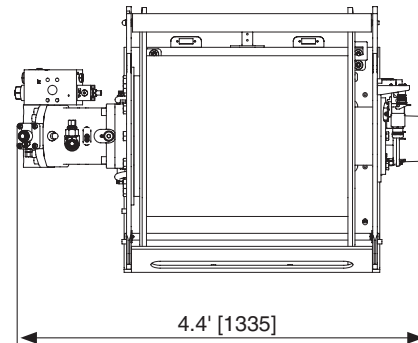
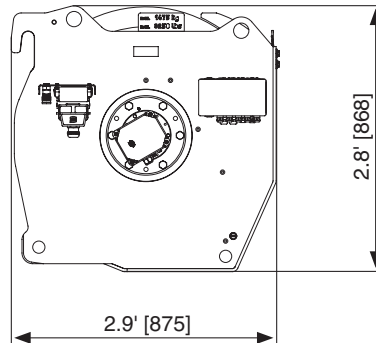


175





2,050/ 930/
3,252* 1475*



* with rope · avec câble · con cable

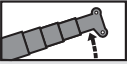
TECHNICAL DATA FOR OPERATION

CARACTÉRISTIQUES TECHNIQUES POUR L'UTILISATION
DATOS TÉCNICOS PARA EL USO



Operation · Utilisation · Uso

Main boom · Flèche principale · Pluma principal

	-2° – 82°	~ 45 s
	42.7 ft – 170.6 ft 13 m – 52 m	~ 390 s

Swing mechanism · Groupe de rotation · Mecanismo de giro

	0 – 1.7 min ⁻¹		0° / 180°
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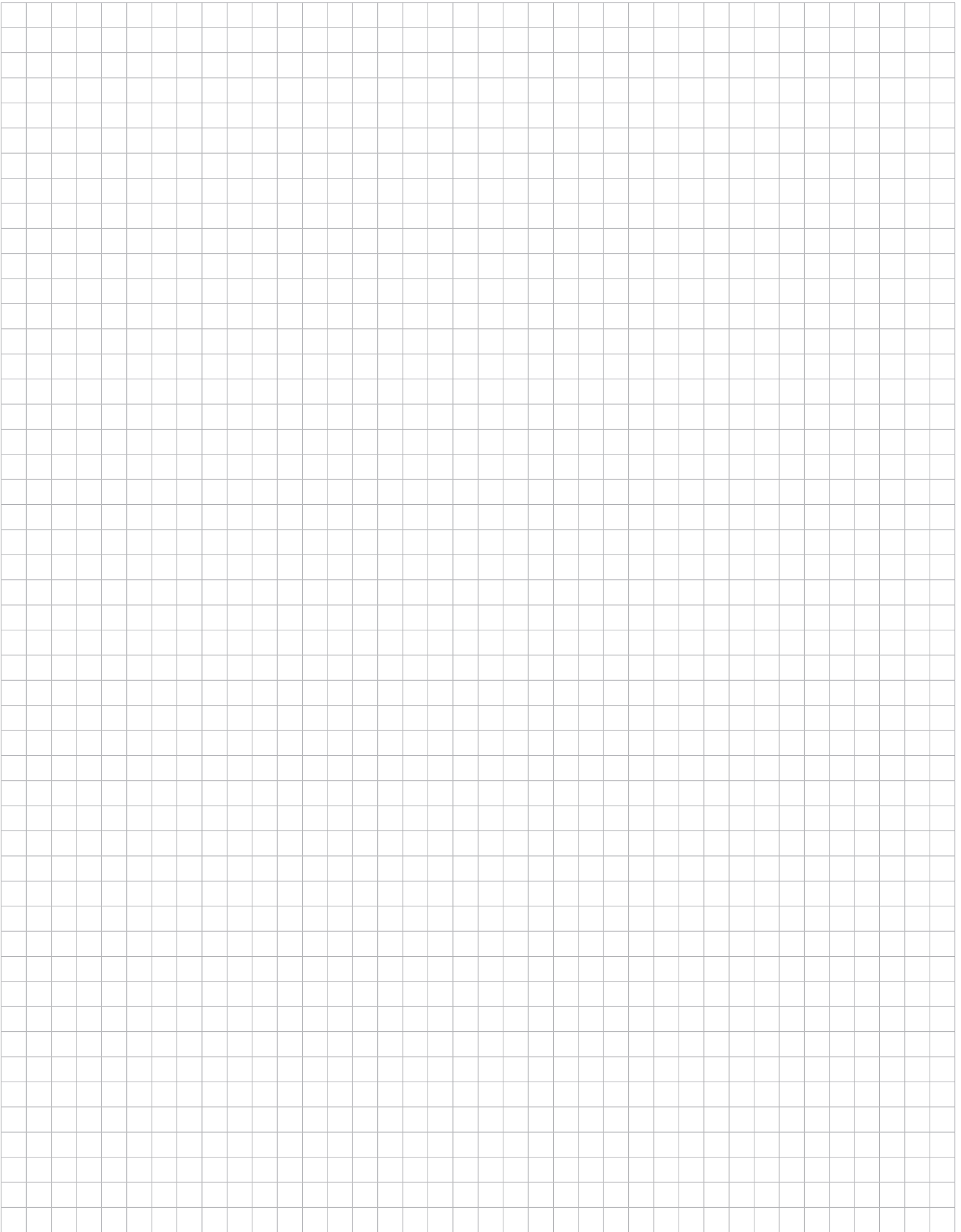
Winches · Treuils · Cabrestantes

			
	0 – 427 ft/min 0 – 130 m/min	0.83 in / 820.2 ft 21 mm / 250 m	19,109 lbs / 85 kN
	0 – 427 ft/min 0 – 130 m/min	0.83 in / 820.2 ft 21 mm / 250 m	19,109 lbs / 85 kN

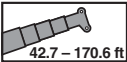
Hook blocks · Moufles · Pastecas de carga

				
176.4 US t* / 160 t*	242,508 / 110	7	15	2,866 / 1300
110.2 US t* / 100 t*	202,163 / 91.7	5	11	1,764 / 800
69.4 US t* / 63 t*	130,072 / 59	3	7	1,323 / 600
69.4 US t / 63 t	130,072 / 59	3	7	1,323 / 600
35.3 US t / 32 t	56,438 / 25.6	1	3	992 / 450
11.0 US t / 10 t	19,180 / 8.7	-	1	661 / 300

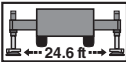
* Twin hook · Moufle avec crochet marin · Gancho doble



Working range · Rayon de travail · Zona de trabajo



42.7 – 170.6 ft



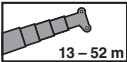
24.6 ft



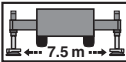
360°

82,453 lbs

ASME



13 – 52 m



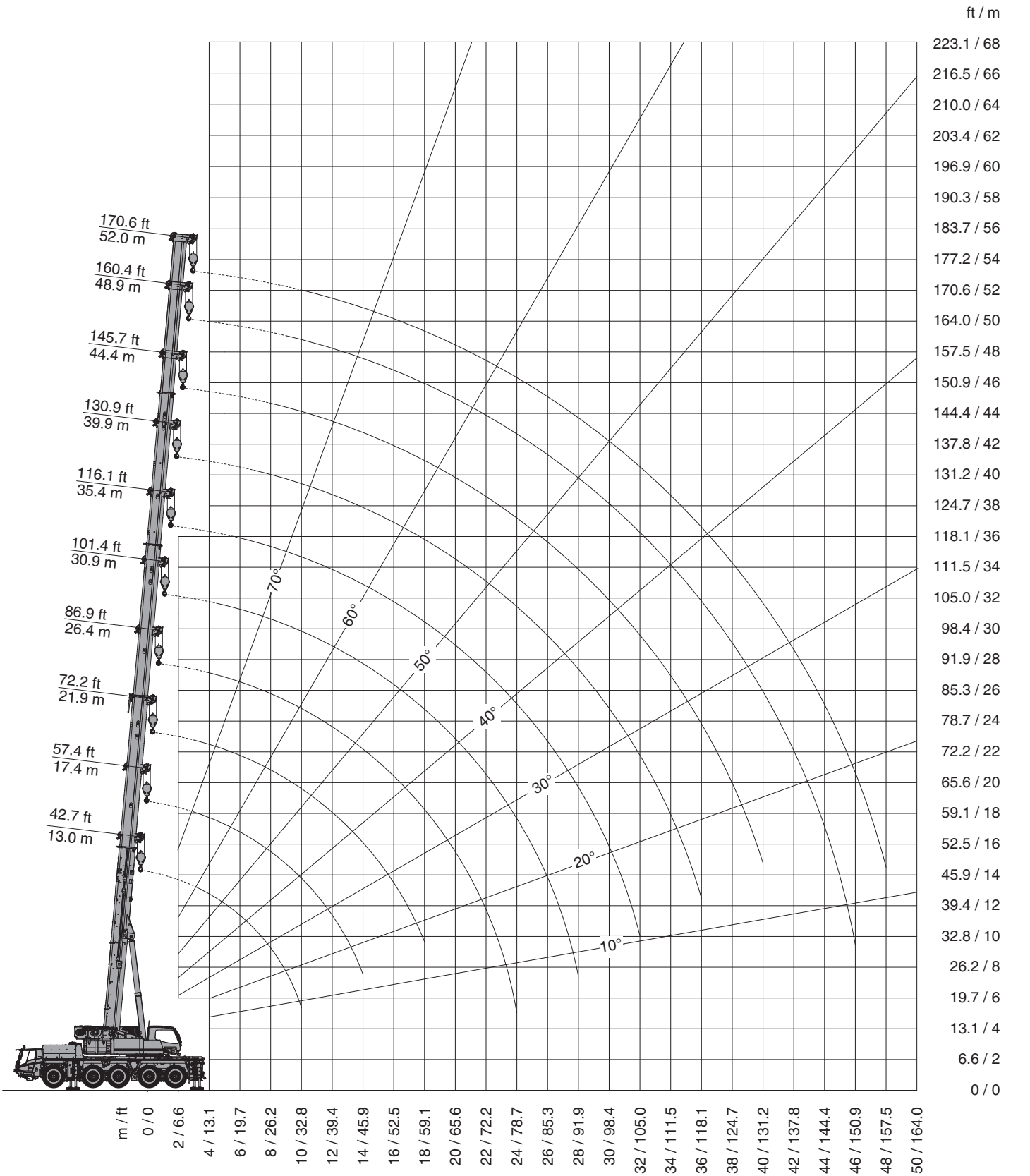
7.5 m



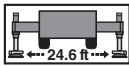
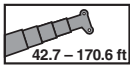
360°

37.4 t

ASME

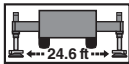
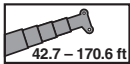


Lifting capacities · Charges de levage · Cargas

**82,453 lbs****ASME**

lbs x 1,000

 ft	42.7 ft*	42.7 ft	57.4 ft	72.2 ft	86.9 ft	101.4 ft	116.1 ft	130.9 ft	145.7 ft	160.4 ft	170.6 ft
9.8	264.6**	242.5**	194.0	162.5							
11.5	233.7**	222.9**	194.0	162.5	121.3						
13.1	216.5	204.4	194.0	161.8	121.3						
14.8	201.7	188.1	186.7	149.9	121.3	87.3					
16.4	188.7	173.9	172.6	139.6	121.3	87.3					
19.7	166.4	150.8	149.3	122.4	114.2	87.3	67.9				
23.0	147.5	131.6	129.9	114.0	114.0	87.3	67.9	53.4			
26.2	130.5	115.5	115.7	114.0	112.7	86.9	67.9	53.4	43.7		
29.5	113.1	102.5	104.1	104.1	102.1	84.9	67.9	53.4	43.7	34.0	
32.8	91.3	91.3	93.3	93.3	95.0	84.9	67.9	53.4	43.7	34.0	27.8
36.1			84.2	84.4	86.0	83.8	62.8	53.4	43.7	34.0	27.8
39.4			76.5	78.5	78.5	77.2	57.8	53.4	43.7	34.0	27.8
45.9			63.1	64.2	63.9	62.6	53.1	48.3	43.7	34.0	27.8
52.5				52.5	52.2	50.9	48.1	42.1	40.1	34.0	27.8
59.1				44.1	43.9	42.5	43.7	36.8	35.7	34.0	27.8
65.6					37.3	36.2	37.5	33.3	32.0	31.1	26.2
72.2					32.2	32.8	32.4	30.4	29.5	28.0	24.0
78.7					26.9	29.3	28.2	28.0	26.9	25.4	22.0
85.3						25.8	24.7	25.1	24.7	23.1	20.3
91.9						22.9	21.8	22.3	22.3	21.2	18.7
98.4							19.8	19.8	19.6	18.7	17.2
105.0							18.7	17.9	17.6	16.5	15.9
111.5								16.3	15.7	14.8	14.8
118.1								14.8	14.1	13.2	13.2
124.7									12.8	11.7	11.9
131.2									11.5	10.6	10.6
137.8									10.4	9.5	9.5
144.4										8.4	8.4
150.9										7.5	7.5
157.5											6.6

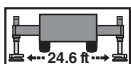
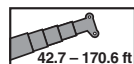
**59,084 lbs****ASME**

lbs x 1,000

 ft	42.7 ft*	42.7 ft	57.4 ft	72.2 ft	86.9 ft	101.4 ft	116.1 ft	130.9 ft	145.7 ft	160.4 ft	170.6 ft
9.8	242.5**	241.0**	194.0	162.5							
11.5	233.7**	218.9	194.0	162.5	121.3						
13.1	216.5	200.4	194.0	161.8	121.3						
14.8	201.7	184.1	182.8	149.9	121.3	87.3					
16.4	188.7	170.0	168.7	139.6	121.3	87.3					
19.7	166.4	145.1	143.3	122.4	114.2	87.3	67.9				
23.0	147.5	125.0	123.5	114.0	114.0	87.3	67.9	53.4			
26.2	126.8	109.3	110.9	111.1	109.8	86.9	67.9	53.4	43.7		
29.5	102.5	96.8	98.3	98.3	98.1	84.9	67.9	53.4	43.7	34.0	
32.8	85.5	85.5	87.5	88.8	86.0	80.5	67.9	53.4	43.7	34.0	27.8
36.1			74.7	77.2	76.1	71.4	62.8	53.4	43.7	34.0	27.8
39.4			66.1	67.2	67.0	64.2	57.8	53.4	43.7	34.0	27.8
45.9			51.6	52.9	52.7	51.1	52.2	47.2	43.7	34.0	27.8
52.5				42.8	42.5	42.8	42.8	39.5	39.2	34.0	27.8
59.1				35.3	35.1	36.4	35.3	35.7	34.4	33.5	27.8
65.6					31.1	30.6	30.0	30.0	30.0	28.9	26.2
72.2					26.9	26.2	26.7	26.0	25.6	24.5	24.0
78.7					23.4	22.7	23.1	22.5	22.0	20.9	20.9
85.3						20.3	20.3	19.6	19.2	18.1	18.1
91.9						17.9	17.9	17.2	16.8	15.7	15.7
98.4							15.9	15.2	14.6	13.7	13.7
105.0							14.1	13.4	12.8	11.9	11.9
111.5								11.9	11.2	10.4	10.4
118.1								10.6	9.9	9.0	9.0
124.7									8.8	7.9	7.9
131.2									7.7	6.8	6.8
137.8									6.8	6.0	6.0
144.4										5.1	5.1
150.9										4.4	4.4
157.5											3.7

* Over rear · A l'arrière · Hacia atrás

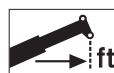
** With additional lifting equipment · Avec équipement de levage supplémentaire · Con equipamiento de elevación adicional

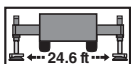
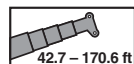


54,013 lbs

ASME

lbs x 1,000

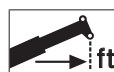
 ft	42.7 ft*	42.7 ft	57.4 ft	72.2 ft	86.9 ft	101.4 ft	116.1 ft	130.9 ft	145.7 ft	160.4 ft	170.6 ft
9.8	242.5**	240.1**	194.0	162.5							
11.5	233.7**	218.3	194.0	162.5	121.3						
13.1	216.5	199.5	194.0	161.8	121.3						
14.8	201.7	183.2	181.9	149.9	121.3	87.3					
16.4	188.7	169.1	167.6	139.6	121.3	87.3					
19.7	166.4	143.5	141.8	122.4	114.2	87.3	67.9				
23.0	147.5	123.7	121.9	114.0	114.0	87.3	67.9	53.4			
26.2	121.3	108.0	109.6	109.8	105.2	86.9	67.9	53.4	43.7		
29.5	98.1	95.5	97.0	96.6	94.1	84.9	67.9	53.4	43.7	34.0	
32.8	81.8	81.8	83.8	86.4	82.2	77.2	67.9	53.4	43.7	34.0	27.8
36.1			72.8	74.1	73.0	68.3	62.6	53.4	43.7	34.0	27.8
39.4			63.1	64.4	64.2	61.3	56.7	53.4	43.7	34.0	27.8
45.9			49.4	50.5	50.3	48.9	49.6	44.5	43.7	34.0	27.8
52.5				40.6	40.3	41.7	40.6	39.5	37.0	34.0	27.8
59.1				33.3	34.2	34.4	33.3	33.7	33.7	31.7	27.8
65.6					29.5	29.1	29.5	28.9	28.2	27.3	26.2
72.2					25.4	24.7	25.1	24.5	24.0	23.1	23.1
78.7					21.8	21.8	21.8	21.2	20.7	19.6	19.6
85.3						19.2	19.0	18.3	17.9	17.0	17.0
91.9						16.8	16.8	16.1	15.4	14.6	14.6
98.4							14.8	14.1	13.7	12.6	12.6
105.0							13.0	12.3	11.9	11.0	11.0
111.5								11.0	10.4	9.5	9.5
118.1								9.7	9.0	8.2	8.2
124.7									7.9	7.1	7.1
131.2									7.1	6.2	6.2
137.8									6.2	5.3	5.3
144.4										4.4	4.4
150.9										3.7	3.7
157.5											3.1



45,856 lbs

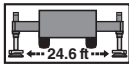
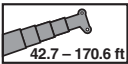
ASME

lbs x 1,000

 ft	42.7 ft*	42.7 ft	57.4 ft	72.2 ft	86.9 ft	101.4 ft	116.1 ft	130.9 ft	145.7 ft	160.4 ft	170.6 ft
9.8	242.5**	238.8**	194.0	162.5							
11.5	233.7**	216.7	194.0	162.5	121.3						
13.1	216.5	198.0	194.0	161.8	121.3						
14.8	201.7	181.9	180.3	149.9	121.3	87.3					
16.4	188.7	166.7	164.9	139.6	121.3	87.3					
19.7	166.4	140.9	139.3	122.4	114.2	87.3	67.9				
23.0	145.9	121.3	121.3	114.0	114.0	87.3	67.9	53.4			
26.2	112.9	105.8	107.4	105.4	101.9	86.9	67.9	53.4	43.7		
29.5	91.1	91.1	93.3	92.8	87.7	81.8	67.9	53.4	43.7	34.0	
32.8	75.6	75.6	78.7	80.5	76.5	71.7	65.3	53.4	43.7	34.0	27.8
36.1			67.5	68.8	67.7	63.1	58.2	53.4	43.7	34.0	27.8
39.4			58.4	59.7	59.5	56.0	55.6	49.8	43.7	34.0	27.8
45.9			45.0	46.1	45.9	47.4	45.2	43.0	40.3	34.0	27.8
52.5				36.8	37.7	38.1	36.8	37.0	35.9	33.7	27.8
59.1				30.6	31.7	31.3	31.7	31.1	30.6	28.7	27.8
65.6					26.7	26.7	26.7	26.0	25.6	24.5	24.3
72.2					22.9	22.9	22.7	22.0	21.6	20.5	20.7
78.7					19.8	19.6	19.6	19.0	18.5	17.4	17.4
85.3						17.2	17.0	16.3	15.9	14.8	15.0
91.9						15.0	14.8	14.3	13.7	12.8	12.8
98.4							13.0	12.3	11.9	10.8	11.0
105.0							11.5	10.8	10.4	9.3	9.3
111.5								9.5	9.0	7.9	7.9
118.1								8.4	7.7	6.8	6.8
124.7									6.6	5.7	5.7
131.2									5.7	4.9	4.9
137.8									5.1	4.0	4.0
144.4										3.3	3.3
150.9										2.6	2.6
157.5											2.0

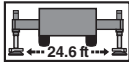
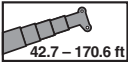
* Over rear · A l'arrière · Hacia atrás

** With additional lifting equipment · Avec équipement de levage supplémentaire · Con equipamiento de elevación adicional

**40,786 lbs****ASME**

lbs x 1,000

ft	42.7 ft*	42.7 ft	57.4 ft	72.2 ft	86.9 ft	101.4 ft	116.1 ft	130.9 ft	145.7 ft	160.4 ft	170.6 ft
9.8	242.5**	237.9**	194.0	162.5							
11.5	233.7**	215.8	194.0	162.5	121.3						
13.1	216.5	197.1	194.0	161.8	121.3						
14.8	201.7	180.8	179.2	149.9	121.3	87.3					
16.4	188.7	164.9	163.1	139.6	121.3	87.3					
19.7	166.4	139.3	137.6	122.4	114.2	87.3	67.9				
23.0	139.3	119.7	120.2	114.0	111.3	87.3	67.9	53.4			
26.2	107.4	104.3	106.0	100.5	97.4	86.4	67.9	53.4	43.7		
29.5	86.6	86.6	88.8	88.6	83.8	78.0	67.9	53.4	43.7	34.0	
32.8	71.9	71.9	75.4	76.7	73.0	67.9	61.5	53.4	43.7	34.0	27.8
36.1			64.2	65.5	63.9	59.7	58.2	52.9	43.7	34.0	27.8
39.4			55.3	56.7	56.4	53.8	52.5	47.0	43.7	34.0	27.8
45.9			42.3	43.4	43.2	44.8	42.8	41.9	38.8	34.0	27.8
52.5				34.6	36.4	35.7	36.4	35.5	33.7	31.5	27.8
59.1				28.7	30.0	29.5	30.0	29.3	28.7	26.7	26.2
65.6					25.1	25.1	25.1	24.5	23.8	22.9	22.5
72.2					21.4	21.4	21.2	20.7	20.1	19.2	19.2
78.7					18.3	18.3	18.3	17.6	17.2	16.1	16.1
85.3						15.9	15.7	15.2	14.6	13.7	13.7
91.9						13.9	13.7	13.0	12.6	11.7	11.7
98.4							11.9	11.2	10.8	9.9	9.9
105.0							10.6	9.9	9.3	8.4	8.4
111.5								8.6	7.9	7.1	7.1
118.1								7.5	6.8	6.0	6.0
124.7									6.0	4.9	5.1
131.2									5.1	4.2	4.2
137.8									4.4	3.3	3.3
144.4										2.6	2.6
150.9										2.0	2.0

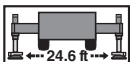
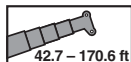
**37,038 lbs****ASME**

lbs x 1,000

ft	42.7 ft*	42.7 ft	57.4 ft	72.2 ft	86.9 ft	101.4 ft	116.1 ft	130.9 ft	145.7 ft	160.4 ft	170.6 ft
9.8	242.5**	236.3**	194.0	162.5							
11.5	233.7**	214.3	194.0	162.5	121.3						
13.1	216.5	195.6	194.0	161.8	121.3						
14.8	201.7	177.9	176.4	149.9	121.3	87.3					
16.4	188.7	162.0	160.5	139.6	121.3	87.3					
19.7	165.3	136.7	134.9	122.4	114.2	87.3	67.9				
23.0	129.0	117.3	117.7	112.0	103.0	87.3	67.9	53.4			
26.2	99.2	99.2	99.2	96.1	90.4	83.8	67.9	53.4	43.7		
29.5	79.8	79.8	83.6	82.0	77.2	71.2	64.2	53.4	43.7	34.0	
32.8	66.1	66.1	69.4	70.5	66.6	61.7	58.2	53.4	43.7	34.0	27.8
36.1			58.6	60.0	58.2	57.3	53.6	47.6	43.7	34.0	27.8
39.4			50.0	51.4	51.1	51.1	47.6	46.1	41.9	34.0	27.8
45.9			38.1	39.2	41.0	40.6	40.6	38.4	36.4	34.0	27.8
52.5				31.5	32.8	32.8	32.8	32.0	30.4	28.2	27.8
59.1				25.8	26.9	26.9	26.9	26.2	25.6	23.8	23.4
65.6					22.5	22.5	22.5	21.8	21.2	20.1	19.8
72.2					19.0	19.0	19.0	18.3	17.9	16.8	16.8
78.7					16.3	16.1	16.1	15.4	15.0	13.9	14.1
85.3						13.9	13.9	13.2	12.8	11.7	11.7
91.9						12.1	11.9	11.2	10.8	9.9	9.9
98.4							10.4	9.7	9.3	8.2	8.2
105.0							9.0	8.4	7.7	6.8	6.8
111.5								7.3	6.6	5.7	5.7
118.1								6.2	5.5	4.6	4.6
124.7									4.6	3.7	3.7
131.2									3.7	2.9	2.9
137.8									3.1	2.2	2.2

* Over rear · A l'arrière · Hacia atrás

** With additional lifting equipment · Avec équipement de levage supplémentaire · Con equipamiento de elevación adicional

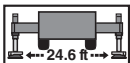
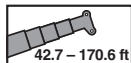


23,810 lbs

ASME

lbs x 1,000

ft	42.7 ft*	42.7 ft	57.4 ft	72.2 ft	86.9 ft	101.4 ft	116.1 ft	130.9 ft	145.7 ft	160.4 ft	170.6 ft
9.8	242.5**	234.4**	194.0	162.5							
11.5	233.7**	212.3	194.0	162.5	121.3						
13.1	216.5	192.7	191.1	161.8	121.3						
14.8	201.7	174.2	172.6	149.9	121.3	87.3					
16.4	188.7	158.5	157.0	139.6	121.3	87.3					
19.7	149.3	133.4	131.0	117.5	114.0	87.3	67.9				
23.0	115.7	114.0	108.7	104.1	97.0	84.9	67.9	53.4			
26.2	88.8	88.8	89.3	86.2	80.5	73.9	65.9	53.4	43.7		
29.5	71.2	71.0	75.0	72.3	67.9	63.7	58.2	53.4	43.7	34.0	
32.8	58.9	57.5	61.3	61.9	58.4	57.3	53.4	47.0	43.7	34.0	27.8
36.1			51.1	52.5	51.8	50.5	48.5	45.4	40.8	34.0	27.8
39.4			43.4	44.8	46.7	44.8	43.4	41.0	38.8	34.0	27.8
45.9			32.8	34.4	35.7	35.9	35.3	33.3	31.5	29.1	27.8
52.5				27.1	28.4	28.4	28.4	27.6	26.0	24.0	23.6
59.1				21.8	23.1	23.1	23.1	22.5	21.8	20.1	19.6
65.6					19.2	19.2	19.2	18.5	17.9	16.8	16.5
72.2					16.1	16.1	15.9	15.2	14.8	13.7	13.9
78.7					13.7	13.4	13.4	12.8	12.3	11.2	11.2
85.3						11.5	11.5	10.8	10.4	9.3	9.3
91.9						9.7	9.7	9.0	8.6	7.5	7.7
98.4							8.4	7.7	7.1	6.2	6.2
105.0							7.1	6.4	6.0	4.9	4.9
111.5								5.3	4.9	4.0	4.0
118.1								4.4	4.0	2.9	2.9
124.7									3.1	2.2	
131.2									2.4		



18,739 lbs

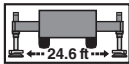
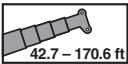
ASME

lbs x 1,000

ft	42.7 ft*	42.7 ft	57.4 ft	72.2 ft	86.9 ft	101.4 ft	116.1 ft	130.9 ft	145.7 ft	160.4 ft	170.6 ft
9.8	242.5**	233.5**	194.0	162.5							
11.5	233.7**	211.2	194.0	162.5	121.3						
13.1	216.5	190.7	188.9	161.8	121.3						
14.8	201.7	172.4	170.6	149.9	121.3	87.3					
16.4	188.7	156.7	155.0	139.6	121.3	87.3					
19.7	140.9	131.4	123.2	114.0	107.6	87.3	67.9				
23.0	109.1	109.1	102.3	98.3	91.1	82.9	67.9	53.4			
26.2	83.6	83.6	84.7	80.2	75.0	68.8	61.1	53.4	43.7		
29.5	66.8	65.7	69.7	67.2	63.3	61.7	57.1	50.3	43.7	34.0	
32.8	54.9	53.1	56.7	57.5	55.1	53.4	49.4	46.1	42.8	34.0	27.8
36.1			47.4	48.7	49.6	46.7	45.4	42.8	38.8	34.0	27.8
39.4			40.1	41.9	43.4	42.1	40.3	37.9	35.9	33.3	27.8
45.9			30.0	31.7	33.1	33.3	32.6	30.6	28.9	26.7	26.2
52.5				24.9	26.0	26.2	26.2	25.4	23.8	21.8	21.4
59.1				20.1	21.2	21.2	21.2	20.5	19.8	18.1	17.6
65.6					17.4	17.4	17.4	16.8	16.1	15.0	14.8
72.2					14.6	14.6	14.3	13.9	13.2	12.3	12.3
78.7					12.1	12.1	12.1	11.5	11.0	9.9	9.9
85.3						10.1	10.1	9.5	9.0	7.9	8.2
91.9						8.6	8.6	7.9	7.5	6.4	6.4
98.4							7.3	6.6	6.0	5.1	5.1
105.0							6.2	5.5	4.9	4.0	4.0
111.5								4.4	4.0	2.9	2.9
118.1								3.5	3.1		
124.7									2.2		

* Over rear · A l'arrière · Hacia atrás

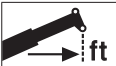
** With additional lifting equipment · Avec équipement de levage supplémentaire · Con equipamiento de elevación adicional

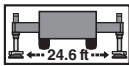
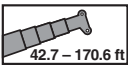


6,393 lbs

ASME

lbs x 1,000

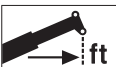
 ft	42.7 ft*	42.7 ft	57.4 ft	72.2 ft	86.9 ft	101.4 ft	116.1 ft	130.9 ft	145.7 ft	160.4 ft	170.6 ft
9.8	242.5**	230.6**	194.0	162.5							
11.5	233.7**	207.2	194.0	162.5	121.3						
13.1	216.5	185.4	183.6	161.8	121.3						
14.8	201.7	167.1	165.3	147.3	121.3	87.3					
16.4	166.0	151.7	141.5	124.1	114.0	87.3					
19.7	120.2	120.2	110.7	104.3	95.0	84.9	67.9				
23.0	92.2	91.1	86.6	81.4	75.0	67.9	59.3	53.4			
26.2	70.1	67.9	69.2	65.9	64.2	59.7	54.5	47.4	43.7		
29.5	55.8	52.5	56.4	54.9	54.0	51.1	48.5	45.2	39.5	34.0	
32.8	45.6	41.9	45.6	47.4	46.3	44.1	41.9	39.2	36.8	33.7	27.8
36.1			37.7	39.7	40.3	38.6	36.8	34.4	32.2	29.5	27.8
39.4			31.7	33.5	35.1	34.0	32.4	30.4	28.4	26.0	25.4
45.9			23.1	24.9	26.2	26.5	26.0	24.3	22.7	20.5	20.1
52.5				19.2	20.5	20.5	20.5	19.6	18.3	16.5	16.1
59.1				15.0	16.3	16.3	16.3	15.7	15.0	13.2	13.0
65.6					13.0	13.2	13.0	12.3	11.9	10.8	10.6
72.2					10.6	10.6	10.6	9.9	9.5	8.4	8.4
78.7					8.8	8.6	8.6	7.9	7.5	6.4	6.6
85.3						7.1	7.1	6.4	6.0	4.9	4.9
91.9						5.7	5.7	5.1	4.6	3.5	
98.4							4.6	4.0	3.3		
105.0							3.5	2.9	2.4		
111.5								2.2			



3,307 lbs

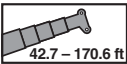
ASME

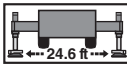
lbs x 1,000

 ft	42.7 ft*	42.7 ft	57.4 ft	72.2 ft	86.9 ft	101.4 ft	116.1 ft	130.9 ft	145.7 ft	160.4 ft	170.6 ft
9.8	242.5**	229.9**	194.0	162.5							
11.5	233.7**	205.7	194.0	162.5	121.3						
13.1	216.5	184.1	182.3	161.8	121.3						
14.8	194.7	165.8	162.9	140.4	121.3	87.3					
16.4	158.7	150.1	135.1	118.4	113.5	87.3					
19.7	114.6	114.6	104.9	98.8	89.7	80.2	67.9				
23.0	87.7	85.5	81.8	76.9	71.7	67.9	58.2	53.4			
26.2	66.6	63.7	65.3	62.2	60.6	57.1	51.4	46.1	43.4		
29.5	52.9	48.9	52.9	52.2	50.9	48.3	45.6	42.5	38.8	34.0	
32.8	43.0	39.0	42.8	44.5	43.7	41.4	39.5	36.8	34.4	31.5	27.8
36.1			35.3	37.0	37.9	36.2	34.6	32.2	30.2	27.6	26.9
39.4			29.5	31.3	32.8	31.7	30.4	28.4	26.5	24.3	23.6
45.9			21.4	23.1	24.5	24.7	24.3	22.5	20.9	19.0	18.5
52.5				17.6	19.0	19.0	19.0	18.3	16.8	15.0	14.8
59.1				13.9	15.0	15.0	15.0	14.3	13.7	12.1	11.7
65.6					11.9	12.1	11.9	11.2	10.8	9.5	9.5
72.2					9.7	9.7	9.7	9.0	8.4	7.5	7.5
78.7					7.9	7.7	7.7	7.1	6.6	5.5	5.5
85.3						6.2	6.2	5.5	5.1		
91.9						5.1	4.9	4.2	3.7		
98.4							3.7	3.1			
105.0							2.9	2.2			

* Over rear · A l'arrière · Hacia atrás

** With additional lifting equipment · Avec équipement de levage supplémentaire · Con equipamiento de elevación adicional

42.7 – 170.6 ft

24.6 ft

360°

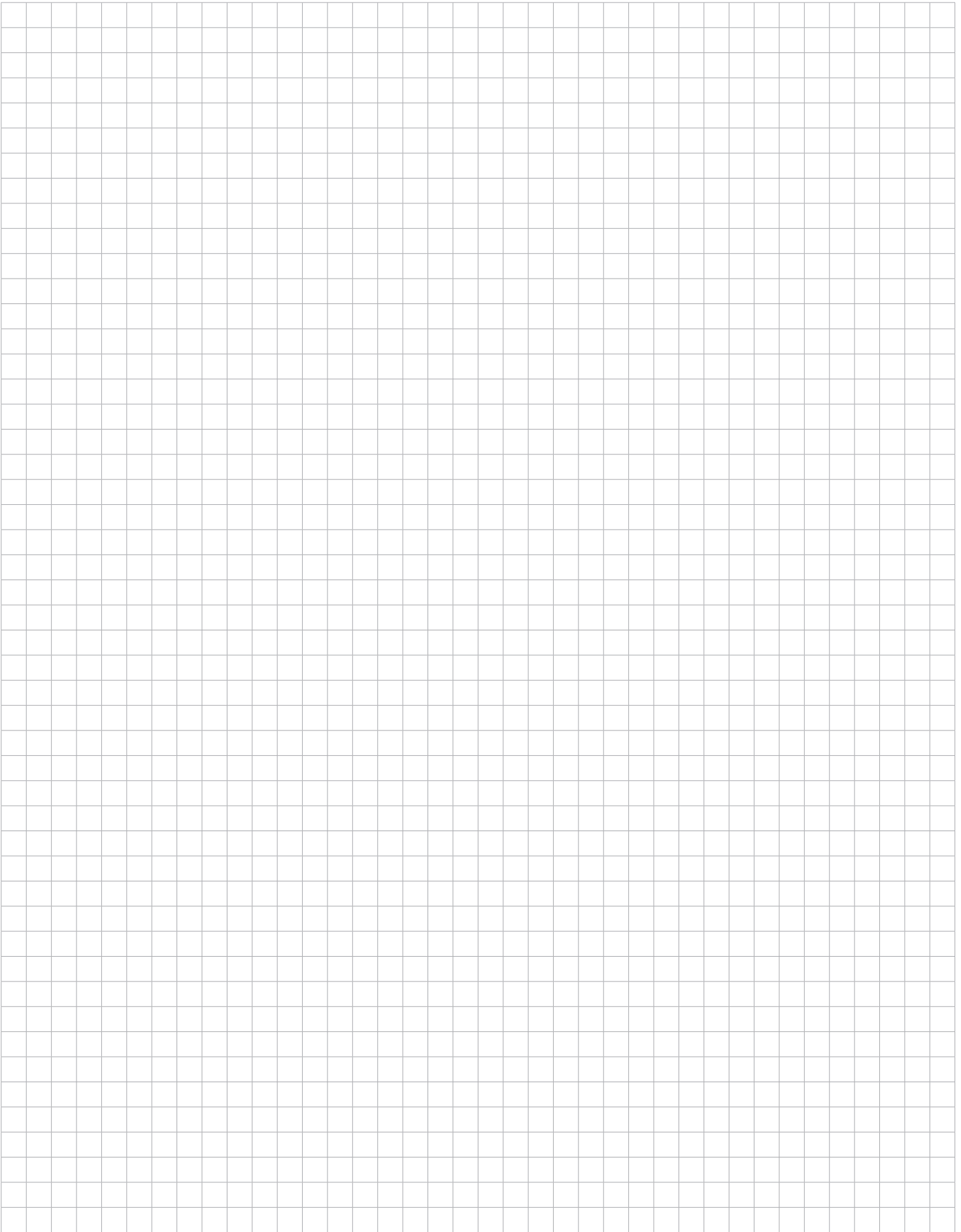
0 lbs

ASME

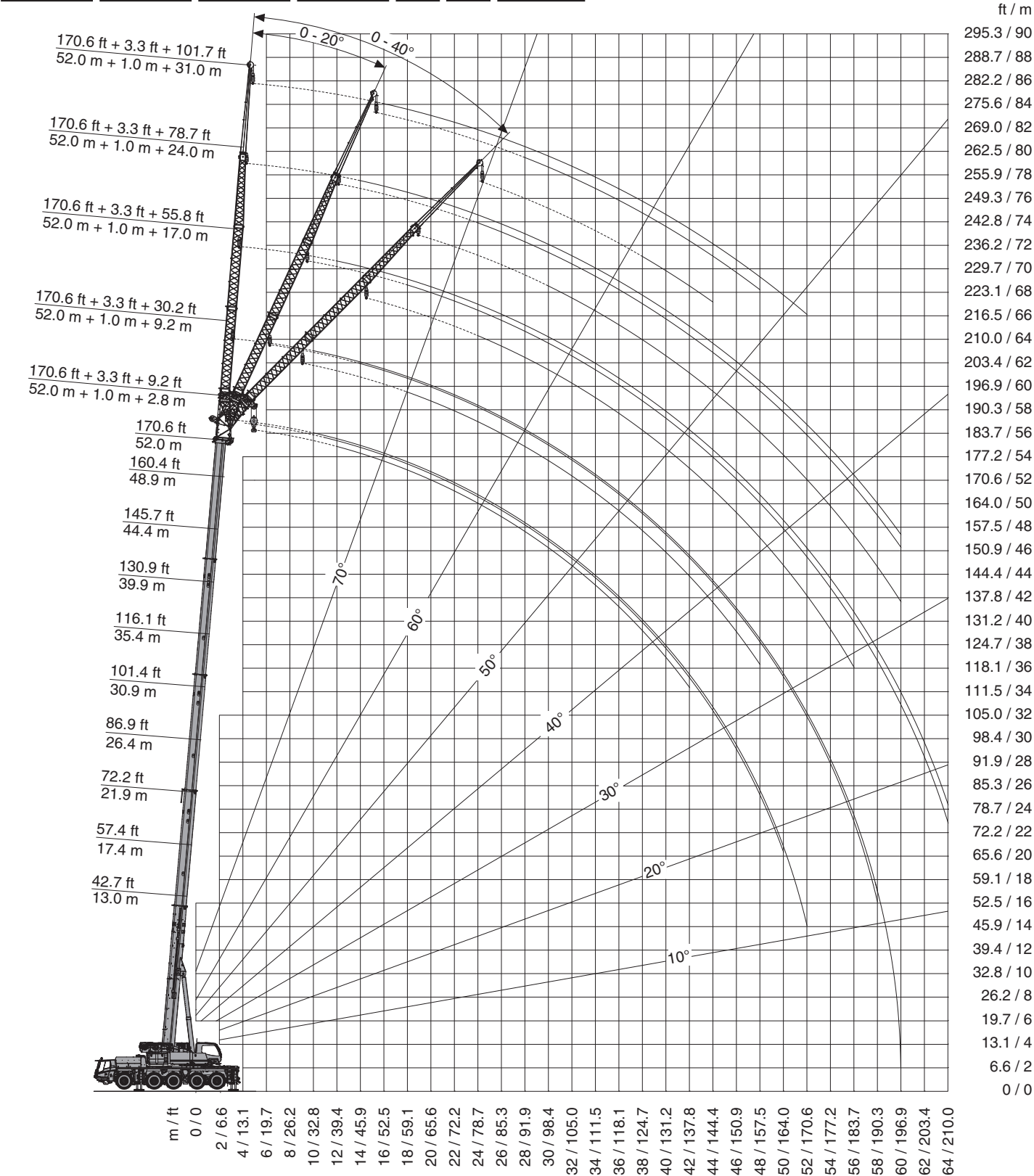
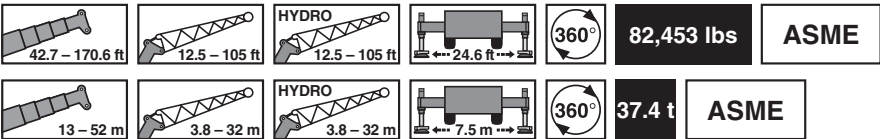
lbs x 1,000

	42.7 ft*	42.7 ft	57.4 ft	72.2 ft	86.9 ft	101.4 ft	116.1 ft	130.9 ft	145.7 ft	160.4 ft	170.6 ft
9.8	242.5**	228.6**	194.0	162.5							
11.5	233.7**	203.7	194.0	162.5	121.3						
13.1	216.5	182.1	180.3	161.8	121.3						
14.8	184.7	163.8	154.3	132.9	120.2	87.3					
16.4	150.6	148.4	128.1	114.0	106.3	87.3					
19.7	108.7	107.6	100.3	92.6	84.0	75.0	64.8				
23.0	82.9	79.6	76.3	71.9	69.0	63.7	57.8	49.6			
26.2	62.6	58.9	60.8	58.2	56.4	53.1	48.5	46.1	40.1		
29.5	49.6	45.0	49.2	48.7	47.4	45.0	42.5	39.7	36.8	33.7	
32.8	40.3	35.7	39.5	41.2	40.6	38.6	36.6	34.2	31.7	29.1	27.8
36.1			32.4	34.4	35.1	33.5	32.0	29.8	27.8	25.4	24.5
39.4			26.9	28.9	30.2	29.5	28.2	26.2	24.5	22.0	21.6
45.9			19.4	21.2	22.5	22.7	22.3	20.7	19.2	17.2	16.8
52.5				16.1	17.2	17.4	17.4	16.5	15.2	13.4	13.2
59.1				12.3	13.4	13.7	13.4	12.8	12.1	10.6	10.4
65.6					10.8	10.8	10.8	10.1	9.5	8.4	8.2
72.2					8.6	8.6	8.6	7.9	7.3	6.2	6.2
78.7					6.8	6.8	6.6	6.0	5.5		
85.3						5.3	5.1	4.6	4.0		
91.9						4.0	4.0	3.3			
98.4							2.9	2.2			
105.0							2.0				

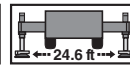
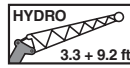
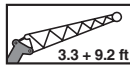
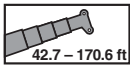
* Over rear · A l'arrière · Hacia atrás
** With additional lifting equipment · Avec équipement de levage supplémentaire · Con equipamiento de elevación adicional



Working range · Rayon de travail · Zona de trabajo



Lifting capacities · Charges de levage · Cargas

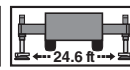
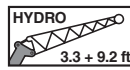
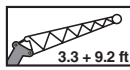
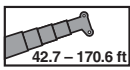


82,453 lbs

ASME

lbs x 1,000

ft	42.7 ft + 3.3 ft + 9.2 ft			86.9 ft + 3.3 ft + 9.2 ft			130.9 ft + 3.3 ft + 9.2 ft			160.4 ft + 3.3 ft + 9.2 ft			170.6 ft + 3.3 ft + 9.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	88.2	67.9													
11.5	88.2	65.0	53.1												
13.1	84.4	62.4	51.6	76.5											
14.8	79.8	60.0	50.3	76.5											
16.4	75.6	58.0	48.9	76.5	68.1										
19.7	68.6	54.0	46.7	76.5	65.0	52.5									
23.0	62.8	50.9	45.0	76.5	62.6	50.9	27.8								
26.2	58.0	48.3	43.4	76.5	60.2	49.6	27.8	27.8							
29.5	53.8	45.9	42.1	76.1	57.8	48.3	27.8	27.8	27.8	24.3					
32.8	50.5	43.9	41.2	69.2	55.6	47.2	27.8	27.8	27.8	24.3	24.3		19.2		
36.1	47.4	42.3	40.8	63.3	53.8	46.1	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	
39.4	45.0	41.2		58.0	52.0	45.2	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	19.2
45.9	41.7			49.6	48.7	43.4	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	19.2
52.5				43.0	43.2	42.1	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	19.2
59.1				38.8	37.9	38.1	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	19.2
65.6				34.4	34.6	34.6	26.2	26.0	25.8	24.3	24.3	24.3	19.2	19.2	19.2
72.2				31.1	30.4	30.0	23.8	23.6	23.4	24.3	24.3	24.3	19.2	18.7	18.3
78.7				27.3	27.3		21.6	21.4	21.2	22.5	22.5	22.5	17.6	17.2	16.8
85.3				24.0	24.3		19.6	19.4	19.4	20.3	20.3	20.3	16.3	15.9	15.4
91.9							18.1	17.9	17.9	18.5	18.5	18.5	15.0	14.6	14.3
98.4							16.5	16.5	16.5	17.0	17.0	17.0	13.9	13.4	13.2
105.0							15.2	15.2	15.2	15.4	15.4	15.4	12.8	12.6	12.3
111.5							14.1	14.1		14.1	14.1	14.1	11.9	11.7	11.5
118.1							13.0	13.0		12.3	12.6	12.8	11.0	10.8	10.8
124.7							12.1	12.1		11.0	11.2	11.2	10.4	10.1	10.1
131.2							11.5			9.7	9.9	9.9	9.5	9.5	9.5
137.8										8.6	8.8		8.6	8.6	8.8
144.4										7.7	7.7		7.5	7.7	
150.9										6.6	6.8		6.6	6.8	
157.5										6.0	6.0		5.7	6.0	
164.0										5.3			5.1	5.1	
170.6													4.4		

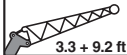


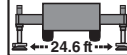
59,084 lbs

ASME

lbs x 1,000

ft	42.7 ft + 3.3 ft + 9.2 ft			86.9 ft + 3.3 ft + 9.2 ft			130.9 ft + 3.3 ft + 9.2 ft			160.4 ft + 3.3 ft + 9.2 ft			170.6 ft + 3.3 ft + 9.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	88.2	67.9													
11.5	88.2	65.0	53.1												
13.1	84.4	62.4	51.6	76.5											
14.8	79.8	60.0	50.3	76.5											
16.4	75.6	58.0	48.9	76.5	68.1										
19.7	68.6	54.0	46.7	76.5	65.0	52.5									
23.0	62.8	50.9	45.0	76.5	62.6	50.9	27.8								
26.2	58.0	48.3	43.4	76.5	60.2	49.6	27.8	27.8							
29.5	53.8	45.9	42.1	76.1	57.8	48.3	27.8	27.8	27.8	24.3					
32.8	50.5	43.9	41.2	69.2	55.6	47.2	27.8	27.8	27.8	24.3	24.3		19.2		
36.1	47.4	42.3	40.8	63.3	53.8	46.1	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	
39.4	45.0	41.2		58.0	52.0	45.2	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	19.2
45.9	41.7			47.6	46.5	43.4	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	19.2
52.5				39.7	39.7	40.3	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	19.2
59.1				34.2	34.2	33.3	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	19.2
65.6				29.1	29.3	29.5	26.2	26.0	25.8	24.3	24.3	24.3	19.2	19.2	19.2
72.2				24.9	25.1	25.4	23.8	23.6	23.4	23.8	24.3	24.3	19.2	18.7	18.3
78.7				21.6	21.8		21.6	21.4	21.2	20.3	20.7	20.9	17.6	17.2	16.8
85.3				19.2	19.2		19.2	19.4	19.4	17.4	17.9	18.1	16.3	15.9	15.4
91.9							16.8	17.0	17.0	15.0	15.2	15.4	15.0	14.6	14.3
98.4							14.6	14.8	14.8	13.0	13.2	13.4	13.0	13.2	13.2
105.0							12.8	13.0	13.0	11.2	11.5	11.5	11.0	11.5	11.5
111.5							11.2	11.5		9.7	9.9	9.9	9.7	9.9	9.9
118.1							9.9	9.9		8.4	8.4	8.6	8.2	8.4	8.6
124.7							8.8	8.8		7.1	7.3	7.3	7.1	7.3	7.3
131.2							7.7			6.2	6.2	6.2	6.0	6.2	6.2
137.8										5.1	5.3		5.1	5.3	5.3
144.4										4.2	4.4		4.2	4.4	
150.9										3.5	3.5		3.5	3.5	
157.5										2.9	2.9		2.9	2.9	
164.0										2.2			2.2	2.2	

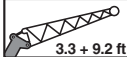


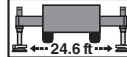

37,038 lbs

ASME

lbs x 1,000

	42.7 ft + 3.3 ft + 9.2 ft			86.9 ft + 3.3 ft + 9.2 ft			130.9 ft + 3.3 ft + 9.2 ft			160.4 ft + 3.3 ft + 9.2 ft			170.6 ft + 3.3 ft + 9.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	88.2	67.9													
11.5	88.2	65.0	53.1												
13.1	84.4	62.4	51.6	76.5											
14.8	79.8	60.0	50.3	76.5											
16.4	75.6	58.0	48.9	76.5	68.1										
19.7	68.6	54.0	46.7	76.5	65.0	52.5									
23.0	62.8	50.9	45.0	76.5	62.6	50.9	27.8								
26.2	58.0	48.3	43.4	76.5	60.2	49.6	27.8	27.8							
29.5	53.8	45.9	42.1	67.5	57.8	48.3	27.8	27.8	27.8	24.3					
32.8	50.5	43.9	41.2	61.7	55.6	47.2	27.8	27.8	27.8	24.3	24.3		19.2		
36.1	47.4	42.3	40.8	54.2	53.8	46.1	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	
39.4	45.0	41.2		48.1	48.5	45.2	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	19.2
45.9	37.7			38.8	39.2	38.1	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	19.2
52.5				31.3	31.7	32.2	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	19.2
59.1				25.8	26.2	26.5	26.0	26.5	26.7	22.5	22.9	23.6	19.2	19.2	19.2
65.6				22.5	22.0	21.8	21.4	21.8	22.0	19.0	19.4	19.8	18.5	19.0	19.2
72.2				19.0	19.0	19.2	17.9	18.3	18.5	16.1	16.5	16.8	15.7	16.1	16.5
78.7				16.1	16.1		15.0	15.4	15.4	13.2	13.7	13.9	13.2	13.7	13.9
85.3				13.7	13.9		12.8	13.0	13.2	11.0	11.5	11.7	11.0	11.2	11.5
91.9							10.8	11.0	11.2	9.0	9.5	9.7	9.0	9.5	9.5
98.4							9.3	9.3	9.5	7.5	7.7	7.9	7.5	7.7	7.9
105.0							7.7	7.9	7.9	6.2	6.4	6.4	6.2	6.4	6.4
111.5							6.6	6.6		4.9	5.1	5.3	4.9	5.1	5.3
118.1							5.5	5.5		4.0	4.0	4.2	3.7	4.0	4.2
124.7							4.6	4.6		2.9	3.1	3.1	2.9	3.1	3.1
131.2							3.7			2.2	2.2	2.2			

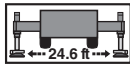
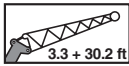
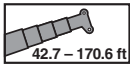



18,739 lbs

ASME

lbs x 1,000

	42.7 ft + 3.3 ft + 9.2 ft			86.9 ft + 3.3 ft + 9.2 ft			130.9 ft + 3.3 ft + 9.2 ft			160.4 ft + 3.3 ft + 9.2 ft			170.6 ft + 3.3 ft + 9.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	88.2	67.9													
11.5	88.2	65.0	53.1												
13.1	84.4	62.4	51.6	76.5											
14.8	79.8	60.0	50.3	76.5											
16.4	75.6	58.0	48.9	76.5	68.1										
19.7	68.6	54.0	46.7	76.5	65.0	52.5									
23.0	62.8	50.9	45.0	76.5	62.6	50.9	27.8								
26.2	58.0	48.3	43.4	65.0	60.2	49.6	27.8	27.8							
29.5	53.8	45.9	42.1	58.4	57.8	48.3	27.8	27.8	27.8	24.3					
32.8	50.5	43.9	41.2	52.7	51.4	47.2	27.8	27.8	27.8	24.3	24.3		19.2		
36.1	46.7	42.3	40.8	46.1	45.6	45.6	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	
39.4	40.3	41.0		40.6	41.4	41.0	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	19.2
45.9	30.2			32.2	32.8	32.8	27.8	27.8	27.8	24.3	24.3	24.3	19.2	19.2	19.2
52.5				26.2	26.2	26.0	24.3	24.7	25.1	20.5	21.2	21.8	19.2	19.2	19.2
59.1				21.2	21.6	21.8	20.1	20.5	20.9	17.0	17.4	17.9	16.5	17.0	17.4
65.6				17.4	17.6	17.9	16.3	16.8	17.0	13.9	14.3	14.8	13.7	14.1	14.6
72.2				14.3	14.6	14.6	13.4	13.7	13.9	11.5	11.9	12.1	11.2	11.7	11.9
78.7				11.9	12.1		11.0	11.2	11.5	9.3	9.7	9.9	9.3	9.5	9.9
85.3				10.1	10.1		9.0	9.3	9.5	7.3	7.7	7.9	7.3	7.7	7.9
91.9							7.5	7.7	7.7	5.7	6.0	6.2	5.7	6.0	6.2
98.4							6.0	6.2	6.4	4.4	4.6	4.9	4.4	4.6	4.9
105.0							4.9	5.1	5.1		3.5	3.5			
111.5							3.7	4.0							
118.1							2.9	3.1							
124.7							2.2	2.2							

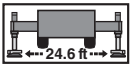
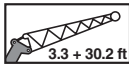
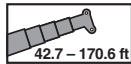


82,453 lbs

ASME

lbs x 1,000

 ft	42.7 ft + 3.3 ft + 30.2 ft			86.9 ft + 3.3 ft + 30.2 ft			130.9 ft + 3.3 ft + 30.2 ft			160.4 ft + 3.3 ft + 30.2 ft			170.6 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	37.7														
11.5	37.7														
13.1	37.7			37.7											
14.8	37.7			37.7											
16.4	37.7	32.0		37.7											
19.7	37.7	29.1		37.7											
23.0	37.7	26.9		37.7			17.0								
26.2	34.8	24.9		37.7	30.0		17.0								
29.5	31.3	23.1	19.6	37.7	28.4		17.0			15.2					
32.8	28.7	21.8	17.9	37.7	26.9		17.0			15.2			13.7		
36.1	26.2	20.5	17.2	37.7	25.8	19.2	17.0	17.0		15.2			13.7		
39.4	24.3	19.4	16.5	37.7	24.5	18.7	17.0	17.0		15.2			13.7		
45.9	20.9	17.4	15.4	33.5	22.5	17.6	17.0	17.0	17.0	15.2	15.2		13.7	13.7	
52.5	18.5	16.1	14.6	29.5	20.9	16.8	17.0	17.0	16.5	15.2	15.2	15.2	13.7	13.7	
59.1	16.5	14.8	14.1	26.5	19.4	15.9	17.0	17.0	15.7	15.2	15.2	15.0	13.7	13.7	12.3
65.6	14.8	14.1		24.0	18.3	15.4	17.0	16.1	14.8	15.2	15.2	14.1	13.7	13.0	11.7
72.2				21.8	17.2	14.8	17.0	15.2	14.1	15.2	14.8	13.4	13.7	12.1	10.8
78.7				20.1	16.3	14.3	16.1	14.3	13.2	15.2	13.9	12.8	12.6	11.2	10.1
85.3				18.5	15.7	13.9	15.2	13.7	12.8	14.8	13.2	12.3	11.7	10.6	9.7
91.9				17.2	15.0	13.7	14.3	13.0	12.1	14.1	12.8	11.9	10.6	9.9	9.0
98.4				16.1	14.3		13.7	12.6	11.7	13.4	12.1	11.5	9.9	9.3	8.6
105.0				15.0	14.1		13.0	11.9	11.2	12.8	11.7	11.0	9.3	8.6	8.2
111.5				13.9			12.3	11.5	11.0	12.1	11.2	10.6	8.6	8.2	7.9
118.1							11.5	11.0	10.6	11.2	10.8	10.4	7.9	7.5	7.3
124.7							10.6	10.6	10.4	10.4	10.4	9.9	7.5	7.1	6.8
131.2							9.9	9.9	9.9	9.5	9.7	9.7	6.8	6.6	6.4
137.8							9.3	9.3		8.8	9.0	9.0	6.4	6.2	6.2
144.4							8.8	8.8		8.2	8.4	8.4	6.2	6.0	5.7
150.9							8.4	8.4		7.3	7.7	7.7	5.7	5.5	5.5
157.5										6.4	6.8		5.3	5.3	5.1
164.0										5.7	6.0		5.1	4.9	
170.6										5.1	5.3		4.9	4.6	
177.2										4.4	4.6		4.2	4.4	
183.7										3.7			3.7	3.7	
190.3													3.1	3.3	
196.9													2.6		

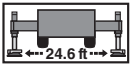
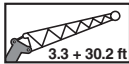
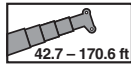


59,084 lbs

ASME

lbs x 1,000

	42.7 ft + 3.3 ft + 30.2 ft			86.9 ft + 3.3 ft + 30.2 ft			130.9 ft + 3.3 ft + 30.2 ft			160.4 ft + 3.3 ft + 30.2 ft			170.6 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	37.7														
11.5	37.7														
13.1	37.7			37.7											
14.8	37.7			37.7											
16.4	37.7	32.0		37.7											
19.7	37.7	29.1		37.7											
23.0	37.7	26.9		37.7			17.0								
26.2	34.8	24.9	19.6	37.7	30.0		17.0								
29.5	31.3	23.1	18.7	37.7	28.4		17.0			15.2					
32.8	28.7	21.8	17.9	37.7	26.9		17.0			15.2			13.7		
36.1	26.2	20.5	17.2	37.7	25.8	19.2	17.0	17.0		15.2			13.7		
39.4	24.3	19.4	16.5	37.7	24.5	18.7	17.0	17.0		15.2			13.7		
45.9	20.9	17.4	15.4	33.5	22.5	17.6	17.0	17.0	17.0	15.2	15.2		13.7	13.7	
52.5	18.5	16.1	14.6	29.5	20.9	16.8	17.0	17.0	16.5	15.2	15.2	15.2	13.7	13.7	
59.1	16.5	14.8	14.1	26.5	19.4	15.9	17.0	17.0	15.7	15.2	15.2	15.0	13.7	13.7	12.3
65.6	14.8	14.1		24.0	18.3	15.4	17.0	16.1	14.8	15.2	15.2	14.1	13.7	13.0	11.7
72.2				21.8	17.2	14.8	17.0	15.2	14.1	15.2	14.8	13.4	13.7	12.1	10.8
78.7				20.1	16.3	14.3	16.1	14.3	13.2	15.2	13.9	12.8	12.6	11.2	10.1
85.3				18.5	15.7	13.9	15.2	13.7	12.8	14.8	13.2	12.3	11.7	10.6	9.7
91.9				17.2	15.0	13.7	14.3	13.0	12.1	14.1	12.8	11.9	10.6	9.9	9.0
98.4				15.4	14.3		13.7	12.6	11.7	13.4	12.1	11.5	9.9	9.3	8.6
105.0				13.9	14.1		13.0	11.9	11.2	11.7	11.7	11.0	9.3	8.6	8.2
111.5				12.6			11.9	11.5	11.0	10.1	11.0	10.6	8.6	8.2	7.9
118.1							10.6	11.0	10.6	8.8	9.7	10.1	7.9	7.5	7.3
124.7							9.5	9.9	10.1	7.7	8.4	8.8	7.5	7.1	6.8
131.2							8.4	8.8	9.0	6.6	7.3	7.7	6.6	6.6	6.4
137.8							7.5	7.7		5.7	6.2	6.6	5.5	6.2	6.2
144.4							6.6	6.8		4.9	5.3	5.7	4.9	5.3	5.5
150.9							5.7	6.0		4.2	4.6	4.9	4.0	4.4	4.9
157.5										3.3	3.7		3.3	3.7	4.0
164.0										2.9	3.1		2.6	3.1	
170.6										2.2	2.4		2.2	2.4	
177.2											2.0				

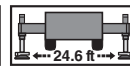
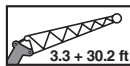
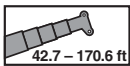


37,038 lbs

ASME

lbs x 1,000

	42.7 ft + 3.3 ft + 30.2 ft			86.9 ft + 3.3 ft + 30.2 ft			130.9 ft + 3.3 ft + 30.2 ft			160.4 ft + 3.3 ft + 30.2 ft			170.6 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	37.7														
11.5	37.7														
13.1	37.7			37.7											
14.8	37.7			37.7											
16.4	37.7	32.0		37.7											
19.7	37.7	29.1		37.7											
23.0	37.7	26.9		37.7			17.0								
26.2	34.8	24.9	19.6	37.7	30.0		17.0								
29.5	31.3	23.1	18.7	37.7	28.4		17.0			15.2					
32.8	28.7	21.8	17.9	37.7	26.9		17.0			15.2			13.7		
36.1	26.2	20.5	17.2	37.7	25.8	19.2	17.0	17.0		15.2			13.7		
39.4	24.3	19.4	16.5	37.7	24.5	18.7	17.0	17.0		15.2			13.7		
45.9	20.9	17.4	15.4	33.5	22.5	17.6	17.0	17.0	17.0	15.2	15.2		13.7	13.7	
52.5	18.5	16.1	14.6	29.5	20.9	16.8	17.0	17.0	16.5	15.2	15.2	15.2	13.7	13.7	
59.1	16.5	14.8	14.1	25.1	19.4	15.9	17.0	17.0	15.7	15.2	15.2	15.0	13.7	13.7	12.3
65.6	14.8	14.1		21.8	18.3	15.4	17.0	16.1	14.8	15.2	15.2	14.1	13.7	13.0	11.7
72.2				19.0	17.2	14.8	17.0	15.2	14.1	15.2	14.8	13.4	13.7	12.1	10.8
78.7				16.3	16.3	14.3	15.9	14.3	13.2	13.7	13.9	12.8	12.6	11.2	10.1
85.3				13.9	14.8	13.9	13.4	13.7	12.8	11.7	13.0	12.3	11.5	10.6	9.7
91.9				12.8	12.6	13.2	11.5	12.3	12.1	9.7	10.8	11.7	9.7	9.9	9.0
98.4				11.2	11.7		9.9	10.6	11.2	8.2	9.0	9.9	7.9	9.0	8.6
105.0				9.9	10.1		8.4	9.3	9.7	6.6	7.7	8.4	6.6	7.5	8.2
111.5				8.6			7.3	7.9	8.4	5.5	6.4	7.1	5.5	6.2	6.8
118.1							6.2	6.6	7.1	4.4	5.3	5.7	4.4	5.1	5.7
124.7							5.3	5.7	6.0	3.5	4.2	4.6	3.5	4.2	4.6
131.2							4.4	4.9	5.1	2.6	3.3	3.7		3.3	3.7
137.8							3.7	4.0			2.4	2.9			
144.4							3.1	3.3							
150.9							2.4	2.6							

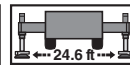
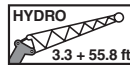
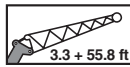
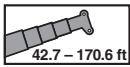


18,739 lbs

ASME

lbs x 1,000

ft	42.7 ft + 3.3 ft + 30.2 ft			86.9 ft + 3.3 ft + 30.2 ft			130.9 ft + 3.3 ft + 30.2 ft			160.4 ft + 3.3 ft + 30.2 ft			170.6 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	37.7														
11.5	37.7														
13.1	37.7			37.7											
14.8	37.7			37.7											
16.4	37.7	32.0		37.7											
19.7	37.7	29.1		37.7											
23.0	37.7	26.9		37.7			17.0								
26.2	34.8	24.9	19.6	37.7	30.0		17.0								
29.5	31.3	23.1	18.7	37.7	28.4		17.0			15.2					
32.8	28.7	21.8	17.9	37.7	26.9		17.0			15.2			13.7		
36.1	26.2	20.5	17.2	37.7	25.8	19.2	17.0	17.0		15.2			13.7		
39.4	24.3	19.4	16.5	34.4	24.5	18.7	17.0	17.0		15.2			13.7		
45.9	20.9	17.4	15.4	30.0	22.5	17.6	17.0	17.0	17.0	15.2	15.2		13.7	13.7	
52.5	18.5	16.1	14.6	25.8	20.9	16.8	17.0	17.0	16.5	15.2	15.2	15.2	13.7	13.7	
59.1	16.5	14.8	14.1	21.4	19.4	15.9	17.0	17.0	15.7	15.2	15.2	15.0	13.7	13.7	12.3
65.6	14.8	14.1		17.6	18.3	15.4	16.8	16.1	14.8	13.9	15.2	14.1	13.4	13.0	11.7
72.2				15.4	15.7	14.8	14.1	15.2	14.1	11.5	13.0	13.4	11.0	12.1	10.8
78.7				13.0	13.7	13.9	11.7	12.8	13.2	9.5	10.8	11.9	9.3	10.6	10.1
85.3				11.0	11.7	12.3	9.7	10.8	11.7	7.9	9.0	10.1	7.5	8.8	9.7
91.9				9.5	9.9	10.6	8.2	9.0	9.7	6.4	7.5	8.4	6.2	7.3	8.2
98.4				8.2	8.6		6.8	7.5	8.2	5.1	6.0	6.8	4.9	6.0	6.8
105.0				6.8	7.3		5.5	6.2	6.8	3.7	4.9	5.5		4.6	5.3
111.5				6.0			4.6	5.1	5.5		3.7	4.2			4.2
118.1							3.5	4.2	4.6						
124.7							2.9	3.3	3.5						
131.2							2.2	2.6	2.6						

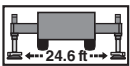
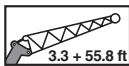
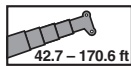


82,453 lbs

ASME

lbs x 1,000

ft	42.7 ft + 3.3 ft + 55.8 ft			86.9 ft + 3.3 ft + 55.8 ft			130.9 ft + 3.3 ft + 55.8 ft			160.4 ft + 3.3 ft + 55.8 ft			170.6 ft + 3.3 ft + 55.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	12.3														
11.5	12.3														
13.1	12.3														
14.8	12.3														
16.4	12.3														
19.7	12.3			12.3											
23.0	12.3			12.3											
26.2	12.3			12.3											
29.5	12.3	11.2		12.3			9.5								
32.8	12.3	10.6		12.3			9.5								
36.1	12.3	10.1		12.3			9.5			8.8					
39.4	11.7	9.7		12.3	10.4		9.5			8.8			8.2		
45.9	10.6	8.8	7.7	12.3	9.7		9.5			8.8			8.2		
52.5	9.5	8.2	7.3	11.9	9.0		9.5	8.8		8.8			8.2		
59.1	8.8	7.5	6.8	11.0	8.6	7.3	9.5	8.6		8.8	8.6		8.2	8.2	
65.6	8.2	7.1	6.6	10.4	8.2	7.1	9.5	8.2	6.8	8.8	8.2		8.2	8.2	
72.2	7.5	6.8	6.4	9.7	7.7	6.6	9.5	7.9	6.6	8.8	7.9		8.2	7.7	
78.7	7.1	6.4	6.2	9.0	7.3	6.4	9.5	7.5	6.4	8.8	7.7	6.4	8.2	7.5	6.4
85.3	6.6	6.2	6.2	8.6	7.1	6.4	9.3	7.3	6.4	8.8	7.3	6.4	8.2	7.3	6.4
91.9	6.4	6.2		8.2	6.8	6.2	8.8	7.1	6.2	8.8	7.1	6.2	8.2	7.1	6.2
98.4				7.7	6.6	6.0	8.4	6.8	6.0	8.8	6.8	6.0	8.2	6.8	6.0
105.0				7.3	6.4	6.0	8.2	6.6	6.0	8.4	6.6	6.0	7.7	6.6	6.0
111.5				7.1	6.2	6.0	7.7	6.4	5.7	8.2	6.6	5.7	7.3	6.2	5.5
118.1				6.8	6.0	6.0	7.5	6.2	5.7	7.9	6.4	5.7	6.6	6.0	5.3
124.7				6.6	6.0		7.3	6.2	5.5	7.7	6.2	5.5	6.2	5.5	5.1
131.2				6.4	6.0		7.1	6.0	5.5	7.3	6.0	5.5	5.7	5.3	4.9
137.8				6.4			6.8	5.7	5.5	7.1	6.0	5.5	5.3	5.1	4.6
144.4							6.6	5.7	5.5	7.1	5.7	5.3	4.9	4.6	4.4
150.9							6.4	5.7	5.5	6.8	5.7	5.3	4.6	4.4	4.2
157.5							6.4	5.5	5.5	6.6	5.5	5.3	4.4	4.2	4.0
164.0							6.2	5.5		6.2	5.5	5.3	4.0	4.0	3.7
170.6							6.0	5.5		5.7	5.5	5.3	3.7	3.7	3.5
177.2							5.7	5.5		5.1	5.3	5.3	3.5	3.3	3.3
183.7										4.4	4.9		3.3	3.3	3.1
190.3										3.7	4.2		3.1	3.1	
196.9										3.3	3.7		2.9	2.9	
210.0										2.4			2.2	2.4	

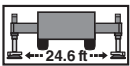
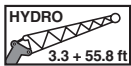
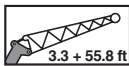
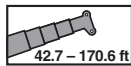


59,084 lbs

ASME

lbs x 1,000

 ft	42.7 ft + 3.3 ft + 55.8 ft			86.9 ft + 3.3 ft + 55.8 ft			130.9 ft + 3.3 ft + 55.8 ft			160.4 ft + 3.3 ft + 55.8 ft			170.6 ft + 3.3 ft + 55.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	12.3														
11.5	12.3														
13.1	12.3														
14.8	12.3														
16.4	12.3														
19.7	12.3			12.3											
23.0	12.3			12.3											
26.2	12.3			12.3											
29.5	12.3	11.2		12.3			9.5								
32.8	12.3	10.6		12.3			9.5								
36.1	12.3	10.1		12.3			9.5			8.8					
39.4	11.7	9.7		12.3	10.4		9.5			8.8			8.2		
45.9	10.6	8.8	7.7	12.3	9.7		9.5			8.8			8.2		
52.5	9.5	8.2	7.3	11.9	9.0		9.5	8.8		8.8			8.2		
59.1	8.8	7.5	6.8	11.0	8.6	7.3	9.5	8.6		8.8	8.6		8.2	8.2	
65.6	8.2	7.1	6.6	10.4	8.2	7.1	9.5	8.2	6.8	8.8	8.2		8.2	8.2	
72.2	7.5	6.8	6.4	9.7	7.7	6.6	9.5	7.9	6.6	8.8	7.9		8.2	7.7	
78.7	7.1	6.4	6.2	9.0	7.3	6.4	9.5	7.5	6.4	8.8	7.7	6.4	8.2	7.5	6.4
85.3	6.6	6.2	6.2	8.6	7.1	6.4	9.3	7.3	6.4	8.8	7.3	6.4	8.2	7.3	6.4
91.9	6.4	6.2		8.2	6.8	6.2	8.8	7.1	6.2	8.8	7.1	6.2	8.2	7.1	6.2
98.4				7.7	6.6	6.0	8.4	6.8	6.0	8.8	6.8	6.0	8.2	6.8	6.0
105.0				7.3	6.4	6.0	8.2	6.6	6.0	8.4	6.6	6.0	7.7	6.6	6.0
111.5				7.1	6.2	6.0	7.7	6.4	5.7	8.2	6.6	5.7	7.3	6.2	5.5
118.1				6.8	6.0	6.0	7.5	6.2	5.7	7.9	6.4	5.7	6.6	6.0	5.3
124.7				6.6	6.0		7.3	6.2	5.5	7.7	6.2	5.5	6.2	5.5	5.1
131.2				6.4	6.0		7.1	6.0	5.5	7.3	6.0	5.5	5.7	5.3	4.9
137.8				6.2			6.8	5.7	5.5	6.4	6.0	5.5	5.3	5.1	4.6
144.4							6.6	5.7	5.5	5.5	5.7	5.3	4.9	4.6	4.4
150.9							6.4	5.7	5.5	4.9	5.7	5.3	4.6	4.4	4.2
157.5							5.7	5.5	5.5	4.2	4.9	5.3	4.0	4.2	4.0
164.0							5.1	5.5		3.5	4.2	4.6	3.3	4.0	3.7
170.6							4.6	4.9		2.9	3.5	4.0	2.6	3.3	3.5
177.2							4.0	4.2		2.4	2.9	3.1	2.2	2.9	3.1
183.7											2.4			2.2	2.4

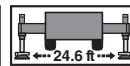
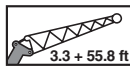
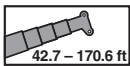


37,038 lbs

ASME

lbs x 1,000

 ft	42.7 ft + 3.3 ft + 55.8 ft			86.9 ft + 3.3 ft + 55.8 ft			130.9 ft + 3.3 ft + 55.8 ft			160.4 ft + 3.3 ft + 55.8 ft			170.6 ft + 3.3 ft + 55.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	12.3														
11.5	12.3														
13.1	12.3														
14.8	12.3														
16.4	12.3														
19.7	12.3			12.3											
23.0	12.3			12.3											
26.2	12.3			12.3											
29.5	12.3	11.2		12.3			9.5								
32.8	12.3	10.6		12.3			9.5								
36.1	12.3	10.1		12.3			9.5			8.8					
39.4	11.7	9.7		12.3	10.4		9.5			8.8			8.2		
45.9	10.6	8.8	7.7	12.3	9.7		9.5			8.8			8.2		
52.5	9.5	8.2	7.3	11.9	9.0		9.5	8.8		8.8			8.2		
59.1	8.8	7.5	6.8	11.0	8.6	7.3	9.5	8.6		8.8	8.6		8.2	8.2	
65.6	8.2	7.1	6.6	10.4	8.2	7.1	9.5	8.2	6.8	8.8	8.2		8.2	8.2	
72.2	7.5	6.8	6.4	9.7	7.7	6.6	9.5	7.9	6.6	8.8	7.9		8.2	7.7	
78.7	7.1	6.4	6.2	9.0	7.3	6.4	9.5	7.5	6.4	8.8	7.7	6.4	8.2	7.5	6.4
85.3	6.6	6.2	6.2	8.6	7.1	6.4	9.3	7.3	6.4	8.8	7.3	6.4	8.2	7.3	6.4
91.9	6.4	6.2		8.2	6.8	6.2	8.8	7.1	6.2	8.8	7.1	6.2	8.2	7.1	6.2
98.4				7.7	6.6	6.0	8.4	6.8	6.0	8.8	6.8	6.0	8.2	6.8	6.0
105.0				7.3	6.4	6.0	8.2	6.6	6.0	7.5	6.6	6.0	7.3	6.6	6.0
111.5				7.1	6.2	6.0	7.7	6.4	5.7	6.4	6.6	5.7	6.2	6.2	5.5
118.1				6.6	6.0	6.0	6.8	6.2	5.7	5.3	6.4	5.7	5.1	6.0	5.3
124.7				6.4	6.0		6.0	6.2	5.5	4.2	5.5	5.5	4.2	5.5	5.1
131.2				6.4	6.0		5.1	6.0	5.5	3.5	4.6	5.5		4.4	4.9
137.8				6.2			4.4	5.1	5.5		3.7	4.6		3.7	4.4
144.4							3.7	4.4	4.9		3.1	3.7			3.5
150.9							3.1	3.7	4.0						
157.5							2.6	3.1	3.3						
164.0							2.0	2.4							
170.6								2.0							
177.2															

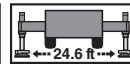
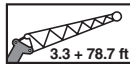
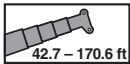


18,739 lbs

ASME

lbs x 1,000

ft	42.7 ft + 3.3 ft + 55.8 ft			86.9 ft + 3.3 ft + 55.8 ft			130.9 ft + 3.3 ft + 55.8 ft			160.4 ft + 3.3 ft + 55.8 ft			170.6 ft + 3.3 ft + 55.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	12.3														
11.5	12.3														
13.1	12.3														
14.8	12.3														
16.4	12.3														
19.7	12.3														
23.0	12.3			12.3											
26.2	12.3			12.3											
29.5	12.3	11.2		12.3			9.5								
32.8	12.3	10.6		12.3			9.5								
36.1	12.3	10.1		12.3			9.5								
39.4	11.7	9.7		12.3	10.4		9.5			8.8			8.2		
45.9	10.6	8.8	7.7	12.3	9.7		9.5			8.8			8.2		
52.5	9.5	8.2	7.3	11.9	9.0		9.5	8.8		8.8			8.2		
59.1	8.8	7.5	6.8	11.0	8.6	7.3	9.5	8.6		8.8	8.6		8.2	8.2	
65.6	8.2	7.1	6.6	10.4	8.2	7.1	9.5	8.2	6.8	8.8	8.2		8.2	8.2	
72.2	7.5	6.8	6.4	9.7	7.7	6.6	9.5	7.9	6.6	8.8	7.9		8.2	7.7	
78.7	7.1	6.4	6.2	9.0	7.3	6.4	9.5	7.5	6.4	8.8	7.7	6.4	8.2	7.5	6.4
85.3	6.6	6.2	6.2	8.6	7.1	6.4	9.3	7.3	6.4	8.4	7.3	6.4	7.9	7.3	6.4
91.9	6.4	6.2		8.2	6.8	6.2	8.8	7.1	6.2	7.1	7.1	6.2	6.6	7.1	6.2
98.4				7.7	6.6	6.0	7.5	6.8	6.0	5.7	6.8	6.0	5.5	6.8	6.0
105.0				7.3	6.4	6.0	6.4	6.6	6.0	4.6	6.2	6.0		6.0	6.0
111.5				7.1	6.2	6.0	5.3	6.4	5.7		5.1	5.7		5.1	5.5
118.1				6.2	6.0	5.7	4.4	5.5	5.7		4.0	5.1			5.1
124.7				5.3	5.7		3.5	4.6	5.3			4.2			
131.2				4.6	4.9		2.9	3.7	4.4						
137.8				4.0			2.2	3.1	3.5						
144.4								2.4	2.9						
150.9															



82,453 lbs

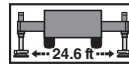
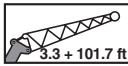
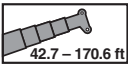
ASME

lbs x 1,000

ft	42.7 ft + 3.3 ft + 78.7 ft			86.9 ft + 3.3 ft + 78.7 ft			130.9 ft + 3.3 ft + 78.7 ft			160.4 ft + 3.3 ft + 78.7 ft			170.6 ft + 3.3 ft + 78.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
14.8	9.0														
16.4	9.0														
19.7	9.0														
23.0	9.0			8.8											
26.2	9.0			8.8											
29.5	9.0			8.8											
32.8	9.0			8.8			7.3								
36.1	9.0			8.8			7.3								
39.4	9.0			8.8			7.3			7.1					
45.9	9.0	9.0		8.8			7.3			7.1			6.2		
52.5	9.0	8.6		8.8	8.8		7.3			7.1			6.2		
59.1	9.0	7.7		8.8	8.8		7.3			7.1			6.2		
65.6	7.9	7.1	6.0	8.8	8.2		7.3	6.8		7.1			6.2		
72.2	7.1	6.4	5.5	8.8	7.7		7.3	6.8		7.1	6.4		6.2		
78.7	6.4	6.0	5.3	8.8	7.1	5.7	7.3	6.8		7.1	6.4		6.2	6.2	
85.3	5.7	5.5	4.9	8.4	6.6	5.5	7.3	6.8		7.1	6.4		6.2	6.2	
91.9	5.3	5.1	4.6	7.5	6.4	5.3	7.3	6.8	5.3	7.1	6.4		6.2	5.7	
98.4	4.9	4.9	4.4	7.1	6.0	5.1	7.3	6.6	5.3	7.1	6.4	5.3	6.2	5.5	4.6
105.0	4.4	4.4	4.2	6.4	5.7	4.9	7.3	6.4	5.1	7.1	6.4	5.1	6.2	5.1	4.4
111.5	4.0	4.4		6.0	5.3	4.6	7.3	6.0	4.9	7.1	6.4	5.1	5.7	4.6	4.2
118.1				5.5	5.1	4.4	6.8	5.7	4.9	7.1	6.2	4.9	5.3	4.4	4.0
124.7				5.3	4.9	4.4	6.6	5.5	4.6	7.1	6.0	4.9	4.9	4.2	3.7
131.2				4.9	4.6	4.2	6.2	5.3	4.6	6.8	5.7	4.6	4.6	3.7	3.5
137.8				4.6	4.4	4.2	5.7	5.1	4.4	6.6	5.5	4.6	4.2	3.5	3.3
144.4				4.4	4.4	4.2	5.5	5.1	4.4	6.2	5.3	4.4	4.0	3.3	3.1
150.9				4.0	4.2		5.3	4.9	4.2	6.0	5.1	4.4	3.5	3.1	2.9
157.5				4.0	4.2		4.9	4.6	4.2	5.5	5.1	4.4	3.3	3.1	2.6
164.0							4.6	4.6	4.2	5.3	4.9	4.2	3.1	2.9	2.6
170.6							4.4	4.4	4.2	5.1	4.6	4.2	2.9	2.6	2.4
177.2							4.2	4.2	4.0	4.9	4.4	4.2	2.6	2.4	2.2
183.7							4.0	4.0		4.4	4.2	4.0	2.4	2.2	2.2
190.3							3.7	3.7		4.0	4.0	3.7	2.2	2.2	2.0
196.9							3.5	3.3		3.5	3.7	3.5	2.0	2.0	2.0
210.0										2.6	3.1				
223.1											2.2				

					59,084 lbs	ASME	lbs x 1,000								
	42.7 ft + 3.3 ft + 78.7 ft			86.9 ft + 3.3 ft + 78.7 ft			130.9 ft + 3.3 ft + 78.7 ft			160.4 ft + 3.3 ft + 78.7 ft			170.6 ft + 3.3 ft + 78.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
14.8	9.0														
16.4	9.0														
19.7	9.0														
23.0	9.0			8.8											
26.2	9.0			8.8											
29.5	9.0			8.8											
32.8	9.0			8.8			7.3								
36.1	9.0			8.8			7.3								
39.4	9.0			8.8			7.3			7.1					
45.9	9.0	9.0		8.8			7.3			7.1			6.2		
52.5	9.0	8.6		8.8	8.8		7.3			7.1			6.2		
59.1	9.0	7.7		8.8	8.8		7.3			7.1			6.2		
65.6	7.9	7.1	6.0	8.8	8.2		7.3	6.8		7.1			6.2		
72.2	7.1	6.4	5.5	8.8	7.7		7.3	6.8		7.1	6.4		6.2		
78.7	6.4	6.0	5.3	8.8	7.1	5.7	7.3	6.8		7.1	6.4		6.2	6.2	
85.3	5.7	5.5	4.9	8.4	6.6	5.5	7.3	6.8		7.1	6.4		6.2	6.2	
91.9	5.3	5.1	4.6	7.5	6.4	5.3	7.3	6.8	5.3	7.1	6.4		6.2	5.7	
98.4	4.9	4.9	4.4	7.1	6.0	5.1	7.3	6.6	5.3	7.1	6.4	5.3	6.2	5.5	4.6
105.0	4.4	4.4	4.2	6.4	5.7	4.9	7.3	6.4	5.1	7.1	6.4	5.1	6.2	5.1	4.4
111.5	4.0	4.4		6.0	5.3	4.6	7.3	6.0	4.9	7.1	6.4	5.1	5.7	4.6	4.2
118.1				5.5	5.1	4.4	6.8	5.7	4.9	7.1	6.2	4.9	5.3	4.4	4.0
124.7				5.3	4.9	4.4	6.6	5.5	4.6	7.1	6.0	4.9	4.9	4.2	3.7
131.2				4.9	4.6	4.2	6.2	5.3	4.6	6.8	5.7	4.6	4.6	3.7	3.5
137.8				4.6	4.4	4.2	5.7	5.1	4.4	6.6	5.5	4.6	4.2	3.5	3.3
144.4				4.4	4.4	4.2	5.5	5.1	4.4	5.7	5.3	4.4	4.0	3.3	3.1
150.9				4.0	4.2		5.3	4.9	4.2	5.1	5.1	4.4	3.5	3.1	2.9
157.5				4.0	4.2		4.9	4.6	4.2	4.4	5.1	4.4	3.3	3.1	2.6
164.0							4.6	4.6	4.2	3.7	4.9	4.2	3.1	2.9	2.6
170.6							4.4	4.4	4.2	3.1	4.2	4.2	2.9	2.6	2.4
177.2							4.2	4.2	4.0	2.4	3.5	4.2		2.4	2.2
183.7							3.7	4.0		2.0	2.9	3.5		2.2	2.2
190.3							3.3	3.5			2.4	2.9			2.0
196.9							2.9	3.1							

					82,453 lbs	ASME	lbs x 1,000								
	42.7 ft + 3.3 ft + 101.7 ft			86.9 ft + 3.3 ft + 101.7 ft			130.9 ft + 3.3 ft + 101.7 ft			160.4 ft + 3.3 ft + 101.7 ft			170.6 ft + 3.3 ft + 101.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
19.7	6.6														
23.0	6.6														
26.2	6.6			6.4											
29.5	6.6			6.6											
32.8	6.6			6.6											
36.1	6.6			6.6											
39.4	6.6			6.6			5.1								
45.9	6.6			6.6			5.1			4.9					
52.5	6.6			6.6			5.1			4.9			4.6		
59.1	6.6	6.4		6.6			5.1			4.9			4.6		
65.6	6.4	5.7		6.6	6.4		5.1			4.9			4.6		
72.2	5.7	5.3		6.6	6.0		5.1			4.9			4.6		
78.7	5.1	4.9		6.6	5.5		5.1	5.1		4.9			4.6		
85.3	4.4	4.4	3.7	6.4	5.1		5.1	5.1		4.9			4.6		
91.9	4.0	4.0	3.5	5.7	4.9		5.1	5.1		4.9	4.9		4.6	4.6	
98.4	3.5	3.7	3.3	5.3	4.4	3.5	5.1	4.9		4.9	4.9		4.6	4.2	
105.0	3.3	3.5	3.1	4.9	4.2	3.3	5.1	4.6		4.9	4.6		4.6	3.7	
111.5	2.9	3.3	2.9	4.4	4.0	3.3	5.1	4.4	3.3	4.9	4.6		4.4	3.5	
118.1	2.6	3.1	2.6	4.0	3.7	3.1	5.1	4.2	3.3	4.9	4.4	3.3	4.0	3.3	
124.7	2.4	2.9	2.6	3.7	3.5	2.9	4.6	4.0	3.1	4.9	4.2	3.1	3.7	3.1	
131.2	2.2	2.6	2.4	3.3	3.3	2.9	4.4	3.7	3.1	4.9	4.0	3.1	3.3	2.6	
137.8	2.0	2.4		3.1	3.1	2.6	4.0	3.5	2.9	4.6	3.7	3.1	3.1	2.4	
144.4				2.9	3.1	2.6	3.7	3.5	2.9	4.2	3.7	2.9	2.9	2.2	
150.9				2.6	2.9	2.6	3.5	3.3	2.6	4.0	3.5	2.9	2.6	2.2	
157.5				2.4	2.6	2.4	3.3	3.1	2.6	3.7	3.3	2.6	2.4	2.0	
164.0				2.4	2.6	2.4	3.1	3.1	2.6	3.5	3.3	2.6	2.2		
170.6				2.2	2.6		2.9	2.9	2.4	3.3	3.1	2.6	2.0		
177.2				2.0	2.4		2.9	2.9	2.4	3.3	2.9	2.4			
183.7				2.0			2.6	2.6	2.4	3.1	2.6	2.4			
190.3							2.4	2.4	2.2	2.9	2.4	2.2			
196.9							2.2	2.2	2.0	2.6	2.2	2.0			
210.0										2.2	2.0				

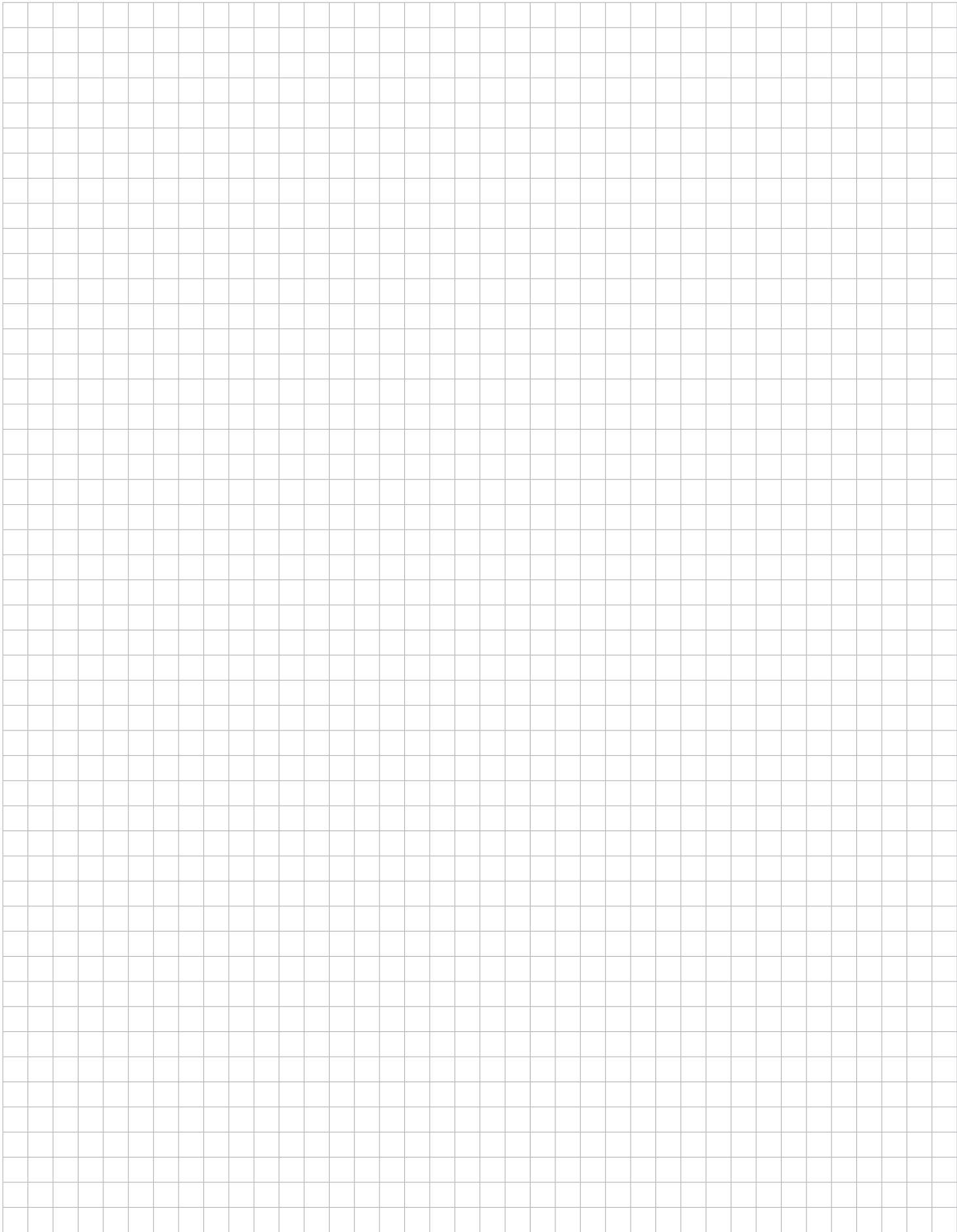


59,084 lbs

ASME

lbs x 1,000

 ft	42.7 ft + 3.3 ft + 101.7 ft			86.9 ft + 3.3 ft + 101.7 ft			130.9 ft + 3.3 ft + 101.7 ft			160.4 ft + 3.3 ft + 101.7 ft			170.6 ft + 3.3 ft + 101.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
19.7	6.6														
23.0	6.6														
26.2	6.6			6.4											
29.5	6.6			6.6											
32.8	6.6			6.6											
36.1	6.6			6.6											
39.4	6.6			6.6			5.1								
45.9	6.6			6.6			5.1			4.9					
52.5	6.6			6.6			5.1			4.9			4.6		
59.1	6.6	6.4		6.6			5.1			4.9			4.6		
65.6	6.4	5.7		6.6	6.4		5.1			4.9			4.6		
72.2	5.7	5.3		6.6	6.0		5.1			4.9			4.6		
78.7	5.1	4.9		6.6	5.5		5.1	5.1		4.9			4.6		
85.3	4.4	4.4	3.7	6.4	5.1		5.1	5.1		4.9			4.6		
91.9	4.0	4.0	3.5	5.7	4.9		5.1	5.1		4.9	4.9		4.6	4.6	
98.4	3.5	3.7	3.3	5.3	4.4	3.5	5.1	4.9		4.9	4.9		4.6	4.2	
105.0	3.3	3.5	3.1	4.9	4.2	3.3	5.1	4.6		4.9	4.6		4.6	3.7	
111.5	2.9	3.3	2.9	4.4	4.0	3.3	5.1	4.4	3.3	4.9	4.6		4.4	3.5	
118.1	2.6	3.1	2.6	4.0	3.7	3.1	5.1	4.2	3.3	4.9	4.4	3.3	4.0	3.3	
124.7	2.4	2.9	2.6	3.7	3.5	2.9	4.6	4.0	3.1	4.9	4.2	3.1	3.7	3.1	
131.2	2.2	2.6	2.4	3.3	3.3	2.9	4.4	3.7	3.1	4.9	4.0	3.1	3.3	2.6	
137.8	2.0	2.4		3.1	3.1	2.6	4.0	3.5	2.9	4.6	3.7	3.1	3.1	2.4	
144.4				2.9	3.1	2.6	3.7	3.5	2.9	4.2	3.7	2.9	2.9	2.2	
150.9				2.6	2.9	2.6	3.5	3.3	2.6	4.0	3.5	2.9	2.6	2.2	
157.5				2.4	2.6	2.4	3.3	3.1	2.6	3.7	3.3	2.6	2.4	2.0	
164.0				2.4	2.6	2.4	3.1	3.1	2.6	3.5	3.3	2.6	2.2		
170.6				2.2	2.6		2.9	2.9	2.4	3.1	3.1	2.6	2.0		
177.2				2.0	2.4		2.9	2.9	2.4	2.6	2.9	2.4			
183.7				2.0			2.6	2.6	2.4		2.6	2.4			
190.3							2.4	2.4	2.2		2.4	2.2			
196.9							2.2	2.2	2.0			2.0			



EQUIPMENT

ÉQUIPEMENT
EQUIPAMIENTO



Equipment

Carrier

Frame: Torsion-resistant, welded construction made from high-strength, fine-grained steel. Central lubricating system.

Outriggers: 4-point double telescopic hydraulic outriggers incl. asymmetric outrigger base and automatic length detection. Controls on both sides of carrier and in Superstructure cab. Outrigger base 24.6 ft/ 7.5 m (20.3 ft/ 6.2 m, 16.4 ft/ 5.0 m, 13.5 ft/ 4.1 m, 8.2 ft/ 2.5 m) x 26.3 ft/ 8.0 m.

Engine: Mercedes-Benz 6 cylinder model OM 471 LA (EU Stage IV / EPA Tier 4f), water-cooled diesel engine. Hydrostatically driven, electronically controlled fan, engine displacement 12.8 l, rated at 530 HP (390 kW) at 1700 min⁻¹. Torque 1,814 ft-lbs/ 2460 Nm at 1300 min⁻¹. Engine rating acc. to ECE R 120. Fuel tank: 159 gal/ 600 l. AdBlue tank: 11 gal/ 40 l.

Transmission: Main transmission: mechanical ZF AS-Tronic transmission, type 12 AS 2531, with integrated intarder, electro-pneumatically actuated dry clutch and fully automatic transmission control system. 12 forward gears and 2 reverse gears. If necessary, semi-automatic mode (Tip-Tronic) is possible with manual gear selection

Drive: 10 x 6

Axles:

- 1st axle: steered, not driven, with differential lock, transverse.
- 2nd axle: steered, driven, with differential lock, transverse.
- 3rd axle: steered, not driven.
- 4th axle: steered, driven, with differential lock, longitudinal and transverse.
- 5th axle: steered, driven, with differential lock, transverse.

Suspension: Hydro-pneumatic suspension with levelling adjustment; suspension cylinders can be locked electro-hydraulically.

Brake system: Air-operated dual-circuit disc brake system with electrical wear indicator and air drier.

Parking brake: spring loaded type acting on 2nd, 4th and 5th axles. Intarder and engine brake as continuous service brake.

Tyres: (10) 445/95 R 25 (16.00 R 25).

Steering system: ZF-Servocom, dual circuit hydraulic steering with emergency steering pump (mechanical, hydraulically assisted). Mechanical steering of 1st and 2nd axles and automatic electronic steering of the 3rd and 4th axles up to a travel speed of 15.5 mph/ 25km/h and of the 5th axle up to a speed of 52.8 mph/ 50 km/h.

Carrier cab: Two-man full-width cab of steel / plastic composite design, tempered glass, air-suspended seats (driver's seat with heater) and engine-fed warm water heating, air conditioning, radio / CD player, controls and instrumentation for road travel. Cruise Control and hill braking feature.

Electrical system: 24 V DC system, 2 batteries, CAN bus system with integral self-test CSS system, outrigger area lighting. Electrical system conforms with ECE regulations.

Optional equipment: (at extra charge)

Towing attachment, autonomous supplementary heating with engine-preheater, drive 10 x 8, ABS system, 525/80 R 25 (20.5 R 25) tyres, spare wheel, special paint and lettering. Further optional equipment available upon request.

Superstructure

Frame: Torsion-resistant all-welded structure. Connected to carrier by single-row, ball-bearing slewing ring with external gearing for 360° continuous rotation. Central lubricating system.

Engine: Mercedes-Benz 4 cylinder model OM 934 LA (EU Stage IV / EPA Tier 4f), water-cooled diesel engine. The engine speed can be varied progressively via a pedal. Engine displacement 5.1 l. Rated at 175 HP (129 kW) at 2200 min⁻¹. Torque 553 ft-lbs/ 750 Nm at 1200 - 1600 min⁻¹. Engine rating acc. to ECE R 120. Fuel tank: 66 gal/ 250 l. AdBlue tank: 5 gal/ 19 l.

Hydraulic system: Three-circuit diesel-hydraulic system, 1 power-controlled axial piston double pump (electro-hydraulically adjustable), and 1 axial piston pump for slewing system and 1 gear pump for control oil supply, oil cooler.

Controls: Electrically pre-controlled, 2 joy-stick levers.

Telescopic boom: Five sections, made of high tensile fine-grained steel, consisting of 1 base section and 4 telescoping sections, 1 telescopic cylinder, extendable hydraulically under partial load. 42.7 ft/ 13.0 m to 170.6 ft/ 52.0 m long. Boom head with 6 sheaves. Jib bracket

Boom elevation: One differential cylinder with attached lowering brake check valve.

Main winch: Axial piston motor, winch drum with integrated planetary reduction and hydraulically controlled spring-loaded multiple disc brake and integrated free rotation (no sagging of load when hoisting). Drum rotation indicator. Hoist cable with 'Super-Stop' easy reeving system.

Slewing system: Axial-piston constant motor, three-stage planetary reduction with foot-actuated or automatic service and parking brake. Open hydraulic circuit with swing mechanism lock-out. Swing speed steplessly variable from 0 to 1.7 min⁻¹.

Counterweight: Standard 20,723 lbs/ 9.4 t, divisible. Controlled from superstructure cab.

Superstructure cab: Spacious crane cab of composite steel / plastic design with tempered tinted glass windows, steplessly tiltable cockpit with mechanically cushioned adjustable driver's seat with heater, engine-fed warm water heater unit and autonomous supplementary heater with engine pre-heating. Air conditioning, radio / CD player, controls and instrumentation for crane operation. Actuation of outrigger and carrier engine functions possible from the superstructure cab.

Electrical system: 24 V DC system, 2 batteries, 2 working floodlights integrated in crane cab.

Safety devices: 'Lift Adjuster', electronic load moment limiter (LMB) TADANO AML F with pilot lamp in several colors, slewing area and working range limitation with 'Slow-Stop' feature, hoist limit switch, lower limit switch, safety valves protect against pipe and hose failures.

Dolly kit: Slewing gear unfixed & boom socket

Optional equipment: (at extra charge)

Jib 3.3 ft/ 1.0 m + 9.2 ft/ 2.8 m to 3.3 ft + 101.7 ft/ 31 m, offsets 0°, 20° and 40° or hydraulically 0°- 40°. Additional counterweight 58,643 lbs/ 26.6 t. 11 US t/ 10 t hook tackle, selection of hook blocks from 35.3 US t/ 32 t to 176.4 US t/ 160 t, 2nd winch, supplementary oil cooler. Special paint and lettering. Further optional equipment available upon request.

Châssis

Châssis: Construction mécano-soudée, en acier à grain fin très rigide, résistant aux flexions et aux torsions. Système de graissage centralisé.

Calage: Dispositif de calage horizontal et vertical double en 4 points, entièrement déployable hydrauliquement, y compris distance entre appuis asymétrique, détection de longueur automatique, commande des mouvements sur les deux côtés du porteur et depuis la cabine de la superstructure. Calage 24.6 ft/ 7.5 m (20.3 ft/ 6.2 m, 16.4 ft/ 5.0 m, 13.5 ft/ 4.1 m, 8.2 ft/ 2.5 m) x 26.3 ft/ 8.0 m.

Moteur: Mercedes Benz diesel 6 cylindres, modèle OM 471 LA (EU Stage IV / EPA Tier 4f), refroidi par eau. Soufflante à entraînement hydrostatique avec régulation électronique, cylindrée 12,8 l, puissance 530 CV (390 kW) à 1700 min⁻¹. Couple: 1,814 ft-lbs/ 2460 Nm à 1300 min⁻¹. Puissance moteur selon ECE R 120. Capacité du réservoir: 159 gal/ 600 l. Capacité du réservoir AdBlue: 11 gal/ 40 l.

Boîte de vitesse: Boîte principale ZF-AS-Tronic, modèle 12 AS 2531, boîte de vitesses mécanique avec intarder intégré, embrayage à sec électro-pneumatique et commande des vitesses complètement automatique avec 12 vitesses AV et 2 vitesses AR. Si nécessaire, mode partiellement automatique (Tip-Tronic) avec sélection de vitesses manuelle possible.

Entraînement: 10 x 6

Essieux:

- 1^{er} essieu: directeur, non entraîné, blocage de différentiel transversal.
- 2^{ème} essieu: directeur, entraîné, blocage de différentiel transversal.
- 3^{ème} essieu: directeur, non entraîné.
- 4^{ème} essieu: directeur, entraîné, blocage de différentiel longitudinal et transversal.
- 5^{ème} essieu: directeur, entraîné, blocage de différentiel transversal.

Suspension: Hydro-pneumatique avec réglage de niveau, vérins de suspension blocables électro-hydrauliquement.

Freins: Système de frein à disque, à air comprimé, à double circuit, avec indicateur d'usure électrique et sécheur d'air. Frein de stationnement: avec accumulateurs à ressort agissant sur les essieux 2, 4 et 5. Intarder et frein moteur comme frein continu.

Pneus: 10 x 445/95 R 25 (16:00 R 25).

Direction: Marque ZF Servocom hydraulique, à double circuit; (direction mécanique, à assistance hydraulique) avec pompe de secours pour direction. Direction mécanique des 1^{er} et 2^{ème} essieux et direction automatique électronique des 3^{ème} et 4^{ème} essieux jusqu'à une vitesse de 15.5 mph/ 25 km/h, et du 5^{ème} essieu jusqu'à une vitesse de 52.8 mph/ 50 km/h.

Cabine: Cabine bi-place frontale, construction en matière composite acier / synthétique, vitrage en verre de sécurité, sièges suspendus pneumatiquement (siège conducteur chauffant). Chauffage à eau chaude alimenté par le moteur, climatiseur, radio / CD-player, éléments de contrôle et de commande pour la conduite. Régulateur de vitesse/système automatique de freinage.

Système électrique: 24 V courant continu, 2 batteries, système de bus CAN avec système autodiagnostic CSS intégré, éclairage de la distance entre appuis. Conforme à la norme ECE.

Équipement supplémentaire: (avec supplément de prix) Attache-remorque, chauffage auxiliaire indépendant du moteur avec préchauffage du moteur, entraînement 10 x 8, système ABS, pneus 525/80 R 25 (20.5 R 25), roue de secours, peinture spéciale et inscription. Autres équipements supplémentaires sur demande.

Superstructure

Plate forme: Construction mécano-soudée résistante à la torsion, couronne d'orientation à billes à une rangée, à denture extérieure, permettant une rotation illimitée sur 360°. Graissage centralisé.

Moteur: Mercedes-Benz diesel 4 cylindres, modèle OM 934 LA (EU Stage IV / EPA Tier 4f), refroidi par eau. Réglage du nombre de tours en continu par pédale, cylindrée 5,1 l, puissance 175 CV (129 kW) à 2200 min⁻¹. Couple: 553 ft-lbs/ 750 Nm à 1200 - 1600 min⁻¹. Puissance moteur selon ECE R 120. Capacité du réservoir: 66 gal/ 250 l. Capacité du réservoir AdBlue: 5 gal/ 19 l.

Système hydraulique: Système diesel-hydraulique à trois circuits, 1 double pompe à piston axial réglée en fonction de la puissance (à réglage électro-hydraulique) 1 pompe à piston axial pour groupe de rotation, 1 pompe à engrenages pour alimentation en huile de commande, radiateur d'huile.

Commande: 2 manipulateurs à commande en croix (4 sens), assistés électriquement.

Flèche télescopique: Flèche télescopique à cinq éléments, en acier à texture fine et très résistant, se composant d'une flèche de base et de 4 éléments télescopiques, 1 vérin de télescopage, télescopable hydrauliquement sous charge partielle. Longueur 42.7 ft/ 13.0 m à 170.6 ft/ 52.0. Tête de flèche avec 6 poulies. Console de rallonge de flèche

Mécanisme de relevage: Un vérin différentiel pourvu d'un clapet ralentisseur d'arrêt de descente.

Mécanisme de levage: Moteur à piston axial, tambour de levage avec boîte planétaire incorporée et frein d'arrêt à disques multiples hydraulique à ressort, libéré lors du levage. Indicateur de rotation du treuil. Câble de levage avec dispositif 'Super-Stop'.

Groupe de rotation: Moteur à cylindrée constante à pistons axiaux, avec engrenage planétaire de trois étages avec frein de service et d'arrêt actionné à pied ou automatique. Circuit hydraulique ouvert avec déconnexion du groupe de rotation. Vitesse de rotation réglable progressivement de 0-1,7 min⁻¹.

Contrepoids: Poids total 20,723 lbs/ 9.4 t, divisible. Commande à partir de la cabine de grue.

Cabine du grutier: Cabine de grue spacieuse, construction en matière composite acier / synthétique, vitrage de sécurité en verre teinté, place de travail inclinable en continu avec siège du conducteur réglable, amorti mécaniquement, chauffant; chauffage à eau chaude alimenté par le moteur et chauffage auxiliaire autonome avec préchauffage du moteur, climatiseur, radio / CD-player, éléments de commande et de contrôle pour le service de grue. Actionnement des outriggers et des fonctions du moteur du châssis à partir de la cabine de la superstructure.

Système électrique: 24 V courant continu, 2 batteries, 2 phares de travail intégrés dans la cabine de grue.

Dispositifs de sécurité: 'Lift Adjuster', contrôleur de l'état de charge (CEC) électronique TADANO AML-F avec lampe de signalisation, limitation du rayon de rotation et du rayon de travail avec fonction 'Slow-Stop', interrupteur fin de course de levage, interrupteur fin de course de treuil, soupapes de sécurité contre les ruptures de tuyaux et flexibles

Jeu d'accessoires pour chariot de transport: Groupe de rotation non bloqué + support pour la flèche.

Équipement supplémentaire: (avec supplément de prix) Rallonge de flèche 3.3 ft/ 1.0 m + 9.2 ft/ 2.8 m à 3.3 ft + 101.7 ft/ 31 m, au choix inclinable 0°, 20° et 40° ou hydrauliquement 0° à 40°. Contrepoids additionnel de 58,643 lbs/ 26.6 t. Ensemble de crochet porte-charge de 11 US t/ 10 t, moufles de 35.3 US t/ 32 t à 176.4 US t/ 160 t, 2^{ème} treuil de levage, radiateur d'huile supplémentaire. Peinture spéciale et inscription. Autres équipements supplémentaires sur demande.

Equipamiento

Chasis

Bastidor: Construcción de acero de alta resistencia soldado, resistente a la torsión y a la flexión. Sistema de engrase central.

Estabilización: Estabilizadores telescópicos hidráulicos dobles de 4 puntos, incl. base de apoyo asimétrica y detección automática de longitud, posibilidad de manejo desde ambos lados del chasis portante y desde la cabina de la grúa. Extensión de los estabilizadores: 24.6 ft/ 7.5 m (20.3 ft/ 6.2 m, 16.4 ft/ 5.0 m, 13.5 ft/ 4.1 m, 8.2 ft/ 2.5 m) x 26.3 ft/ 8.0 m.

Motor: Mercedes Benz de 6 cilindros diesel, modelo OM 471 LA (EU Stage IV / EPA Tier 4f), refrigerado por agua, ventilador con propulsión hidrostática y regulación electrónica, cilindrada 12,8 l, potencia: 530 CV (390 kW) a 1700 min⁻¹. Par 1,814 ft-lbs/ 2460 Nm a 1300 min⁻¹. Potencia del motor según ECE R 120. Depósito de combustible: 159 gal/ 600 l. Depósito AdBlue: 11 gal/ 40 l.

Transmisión: Transmisión principal mecánica del tipo ZF-AS-Tronic 12 AS 2531 con interarder integrado, con embrague en seco con accionamiento electro-neumático y cambio automático con 12 marchas delanteras y 2 marchas traseras. Si fuera necesario, se puede operar la transmisión en forma parcialmente automática (Tip-Tronic), seleccionando las marchas manualmente.

Tracción: 10 x 6

Ejes:

- 1° eje: de dirección, no accionado, con bloqueo diferencial transversal.
- 2° eje: de dirección, accionado, con bloqueo diferencial transversal.
- 3° eje: de dirección, no accionado.
- 4° eje: de dirección, accionado, con bloqueo diferencial longitudinal y transversal.
- 5° eje: de dirección, accionado, con bloqueo diferencial transversal.

Suspensión de los ejes: Suspensión hidroneumática con regulación de nivel, posibilidad de bloqueo electro-hidráulico de los cilindros de suspensión.

Frenos: Sistema de frenos de disco neumático de doble circuito con indicador de desgaste eléctrico y secador de aire. Freno de estacionamiento del tipo freno de muelle, accionando en los ejes 2, 4 y 5. Intarder y freno de motor como freno continuo.

Neumáticos: 10 x 445/95 R 25 (16.00 R 25).

Dirección: Dirección hidráulica ZF Servocom de doble circuito (mecánica, con asistencia hidráulica) con bomba hidráulica de emergencia. Dirección mecánica al 1° y 2° eje y direccionable electrónicamente al 3° y 4° eje hasta una velocidad de 15.5 mph/ 25 km/h y al 5° eje hasta una velocidad de 31.1 mph/ 50 km/h.

Cabina del chasis: Cabina de conductor frontal para dos personas en construcción compuesta de acero y plástico, acristalamiento de seguridad, asientos con suspensión neumática (asiento del conductor calefactable) y calefacción por agua caliente dependiente del motor, climatizador, radio / reproductor de CD, elementos de control y mando para la conducción, regulador de velocidad / sistema automático de frenado.

Sistema eléctrico: 24 voltios de corriente continua, 2 baterías, sistema de bus CAN con sistema CSS de autodiagnóstico integrado, iluminación de la zona de apoyo. El sistema eléctrico cumple la normativa ECE.

Equipamiento adicional: (con suplemento de precio) Enganche para remolque, calefacción adicional independiente del motor con precalefacción del motor, tracción 10 x 8, sistema antibloqueo ABS, neumáticos 525/80 R 25 (20.5 R 25), rueda de repuesto, pintura especial y rotulación. Otros equipamientos adicionales sobre pedido.

Superestructura

Bastidor: Construida en acero soldado, resistente a la torsión, corona de giro con rodamiento de una fila de bolas con dientes externos con giro continuo de 360°. Sistema de engrase central.

Motor: Mercedes Benz de 4 cilindros diesel, modelo OM 934 LA (EU Stage IV / EPA Tier 4f), refrigerado por agua. Las revoluciones aumentan de forma gradual accionando el acelerador, cilindrada 5,1 l, potencia: 175 CV (129 kW) a 2200 min⁻¹. Par: 553 ft-lbs/ 750 Nm a 1200 - 1600 min⁻¹. Potencia del motor según ECE R 120. Depósito de combustible: 66 gal/ 250 l. Depósito AdBlue: 5 gal/ 19 l.

Sistema hidráulico: Sistema dieselhidráulico de 3 circuitos, 1 bomba doble de pistones axiales de caudal variable (regulable electro-hidráulicamente), 1 bomba de pistones axiales para mecanismo de giro y 1 bomba de engranajes para abastecimiento de aceite de mando, radiador de aceite.

Controles: 2 palancas de control de tipo joy-stick para movimientos simultáneos de la grúa (4 direcciones), asistidas eléctricamente.

Pluma telescópica: Pluma telescópica de cinco secciones de acero de alta resistencia soldado; se compone de un tramo base y 4 tramos telescópicos, 1 cilindro telescópico; los tramos pueden telescoparse hidráulicamente bajo carga parcial. Longitud de 42.7 ft/ 13.0 m a 170.6 ft/ 52.0 m. Cabeza de pluma con 6 poleas. Depósito de alargamiento de pluma.

Mecanismo de basculado: Mediante un cilindro diferencial con válvula de retención de bajada de bloqueo integrada.

Cabrestante principal: Motor de pistones axiales, tambor del cabrestante con reducción planetaria incorporada y freno hidráulico a discos múltiples cargado por resorte con sistema libre de elevación. Indicador de giros del cabrestante. Cable de elevación con sistema 'Super-Stop'.

Sistema de giro: Motor de cilindrada constante de pistones axiales, con reducción planetaria de tres etapas con freno de servicio y estacionamiento accionado por pedal o automáticamente. Circuito hidráulico abierto con desbloqueo del mecanismo giratorio. Velocidad de giro variable continuamente de 0 a 1,7 min⁻¹.

Contrapeso: Estándar: 20,723 lbs/ 9.4 t, divisible. El contrapeso se acciona desde la cabina de la superestructura.

Cabina de la grúa: Cabina de grúa espaciosa en construcción de acero y plástico, con cristales tintados de seguridad, puesto de trabajo inclinable sin escalonamiento con asiento de conductor regulable, amortiguado hidráulicamente y calefactado, calefacción por agua caliente dependiente del motor y calefacción adicional independiente del motor con precalefacción del motor, climatizador, radio / reproductor de CD, elementos de control y mando para el manejo de la grúa. El sistema de estabilización y las funciones del motor del chasis pueden activarse desde la cabina de la superestructura.

Sistema eléctrico: 24 voltios de corriente continua, 2 baterías, 2 faros de trabajo integrados en la cabina de la grúa.

Dispositivos de seguridad: 'Lift Adjuster', limitador electrónico del momento de carga (LMC) TADANO AML F con luz de señalización tipo semáforo, limitación de la zona de giro y del área de trabajo con función "Slow-Stop", interruptor de fin de carrera de elevación, interruptor de fin de carrera del cabrestante, válvulas de seguridad contra roturas de tubos y latiguillos.

Juego para carro tipo dolly: Sin fijar el mecanismo giratorio + soporte para pluma.

Equipamiento adicional: (con suplemento de precio) Plumin de 3.3 ft/ 1.0 m + 9.2 ft/ 2.8 m a 3.3 ft + 101.7 ft/ 31 m, regulable opcionalmente de 0°, 20° y 40° (o hidráulicamente 0° a 40°). Contrapeso adicional de 58,643 lbs/ 26.6 t. Accesorios de gancho de 11 US t/ 10 t, pastecas de carga de 35.3 US t/ 32 t a 176.4 US t/ 160 t, 2° cabrestante, radiador de aceite adicional. Pintura especial y rotulación. Otros equipamientos adicionales sobre pedido.

ADDITIONAL INFORMATION

INFORMATIONS SUPPLÉMENTAIRES
INFORMACIÓN ADICIONAL



Remarks relating to the capacity charts · Remarques relatives aux tableaux des charges Notas relativas a los graficos de carga

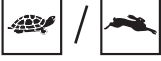
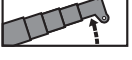
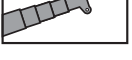
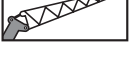
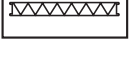
1. The rated lifting capacities conform to ASME B30.5-1.1. Capacities shown are for reference only. Please refer to the original lifting capacity charts for operations.
 2. For operation in wind, as these limits change with configuration changes, please refer to the cranes lifting capacity charts to determine safe operating limits.
 3. The lifting capacities are indicated in 1,000 lbs.
 4. The weight of load handling devices such as hook blocks, slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
 5. The lifting capacities for the telescopic boom apply to a crane with no jib being stowed or mounted on the crane.
 6. The working radius is the horizontal distance from the centre of rotation to the centre of the freely suspended non-oscillating load.
-
1. Les charges de levage nominales sont en conformité avec ASME B30.5-1.1. Les charges de levage indiquées sont uniquement des valeurs indicatives. Pour les travaux réels, voir les tableaux de charges originaux.
 2. En fonction de la longueur de la flèche, des vitesses du vent jusqu'à 49 fps/ 15 m/s maxi. sont admissibles avec les tableaux des charges. A cause des séquences d'extension différentes des télescopes individuels, les longueurs de flèche peuvent varier légèrement par rapport aux valeurs indiquées dans les tableaux de charge.
 3. Les forces de levage sont indiquées en 1,000 lbs.
 4. Le poids du crochet-moufle et de tous les accessoires d'élingage font partie de la charge et sont à déduire des charges indiquées.
 5. Les forces de levage indiquées pour la flèche télescopique s'entendent rallonge de flèche déposée.
 6. Comme portée, on entend la distance horizontale du centre de la couronne de rotation au centre de la charge librement suspendue et non oscillante.
-
1. Las cargas nominales son en conformidad con ASME B30.5-1.1. Las cargas indicadas son únicamente valores indicativos. Para los trabajos, consúltense las tablas de carga originales.
 2. En función de la longitud de la pluma, las tablas de carga permiten velocidades del viento hasta un máximo de 49 fps/ 15 m/s. Debido a las diferentes secuencias de extensión de los telescopios, puede haber algunas variaciones insignificantes con respecto a las longitudes de pluma indicadas en las tablas de carga.
 3. Las capacidades de carga indicadas en las tablas se indican en 1,000 lbs.
 4. Hay que deducir los pesos del gancho, eslingas y de otros dispositivos para fijación de cargas de los valores indicados en las tablas.
 5. Las capacidades de carga referentes a la pluma telescópica valen solamente si el alargamiento de pluma está desmontado.
 6. Como alcance se entiende la distancia horizontal desde el centro de la corona de giro hasta el centro de la carga suspendida libremente y no oscilante.

General remarks · Remarques générales · Notas adicionales

Illustrations and measurements in this brochure are approximations and are presented for informational and descriptive purposes only. For all lift planning and operating requirements, consult the equipment's load charts and operations manuals. Read and follow all safety precautions in these manuals and load charts for safe operation of the crane. Improper use of the equipment may cause serious or fatal bodily injury and significant property damage. Some specifications are subject to change without notice.

Les illustrations et indications de mesure doivent être considérées comme approximatives dans cette brochure et ne servent que d'information et à la compréhension. Des informations sur la prévision de course et les impératifs de fonctionnement sont données dans les tableaux de charges et les manuels d'utilisation de l'équipement. Lire et respecter toutes les mesures de sécurité indiquées dans ces manuels et les tableaux de charges afin de sécuriser le fonctionnement de la grue. Une utilisation non conforme de l'équipement peut être à l'origine de graves blessures et même de la mort et causer des dommages matériels considérables. Sous réserve de modification de quelques caractéristiques techniques sans préavis.

Las ilustraciones y las dimensiones presentadas en este folleto son aproximaciones y sólo tienen fines informativos y descriptivos. Para planificar cualquier elevación y para los requisitos operativos, consultar las tablas de carga y los manuales de operación del equipo. Leer y observar todas las precauciones de seguridad indicadas en estos manuales y estas tablas de carga para una operación segura de la grúa. El uso indebido del equipo puede causar lesiones graves o mortales y daños materiales importantes. Algunas especificaciones están sujetas a cambios sin previo aviso.

	Gross weight · Poids total · Peso total		Dolly · Chariot de transport dolly · Carro tipo dolly
	Axle load · Charge à l'essieu · Carga por eje		Swing area · Rayon de rotation · Zona de giro
	Drive · Entraînement · Tracción		Hydraulically lockable · Verrouillable hydrauliquement Con embulonamiento hidráulico
	Tyres · Pneus · Neumáticos		Main winch · Mécanisme de levage Cabrestante principal
	Gradeability · Capacité de gravissement de pente Superación de pendientes		Auxiliary winch · Treuil supplémentaire Cabrestante auxiliar
	Off road / On road · Tout-terrain / Mode "Route" Todo terreno / En carretera		Hook block / Swivel hook · Moufle / Élingues Gancho / Gancho de bola
	Speed · Vitesse · Velocidad		Rated capacity Capacité nominale Capacidad nominal
	Outriggers · Calage · Estabilizadores		Lifting capacity · Charge de levage · Carga Portata
	Counterweight · Contrepoids · Contrapeso		Rope sheaves · Poulies de câbles · Poleas de cable
	Counterweight element · Élément de contrepoids Parte del contrapeso		Parts of line · Brins de câble · Ramales de cable
	Length · Longueur · Longitud		Dead-weight · Poids total · Tara
	Boom elevation · Mécanisme de relevage Elevación de pluma		Wire rope length · Longueur du câble de levage Longitud del cable
	Boom telescoping · Télescopage de flèche Telescopaje de pluma		Wire rope diameter · Diamètre du câble de levage Diámetro del cable de elevación
	Telescopic boom · Flèche télescopique Pluma telescópica		Maximum wire rope pulling force Force de traction maxi. du câble de levage Fuerza de tracción maxima del cable de elevación
	Radius · Portée · Radio		Weight · Poids · Peso
	Tilttable jib · Fléchette inclinable · Plumín regulable	US t t	= short tons · tonnes américaines · toneladas cortas = metric tons · tonnes métriques · toneladas métricas
	Hydraulically tilttable jib Fléchette inclinable hydrauliquement Plumín regulable hidráulicamente		Standard by The American Society of Mechanical Engineers Norme délivrée par The American Society of Mechanical Engineers Norma emitida por The American Society of Mechanical Engineers
	Fly jib section · Élément de fléchette · Plumín		



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