TADANO

Technical Data · North America

ATF 130G-5

160 US t / 130 t MAX. CAPACITY

TIER 4f

ALL TERRAIN CRANE



2 ENGINES

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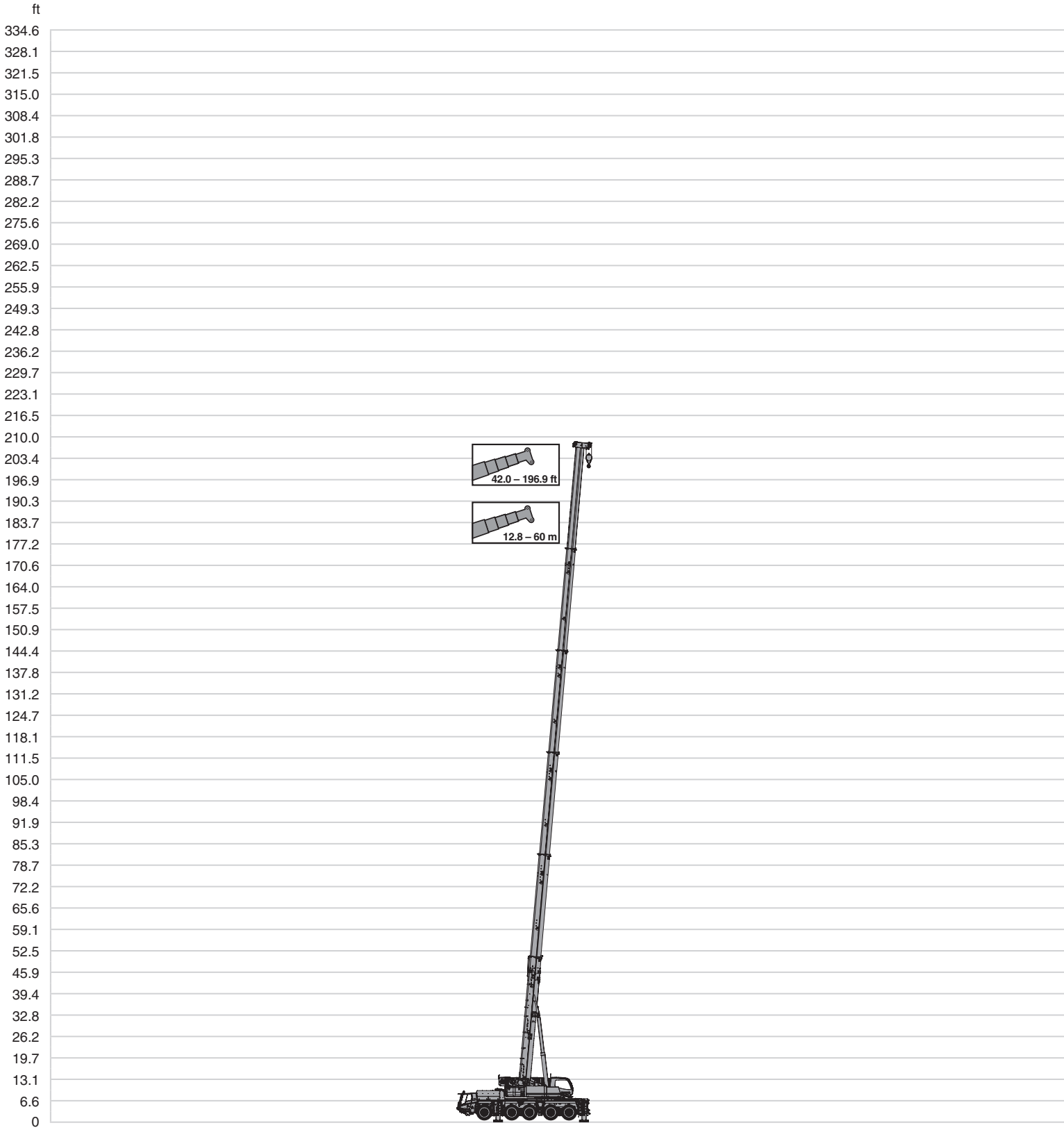
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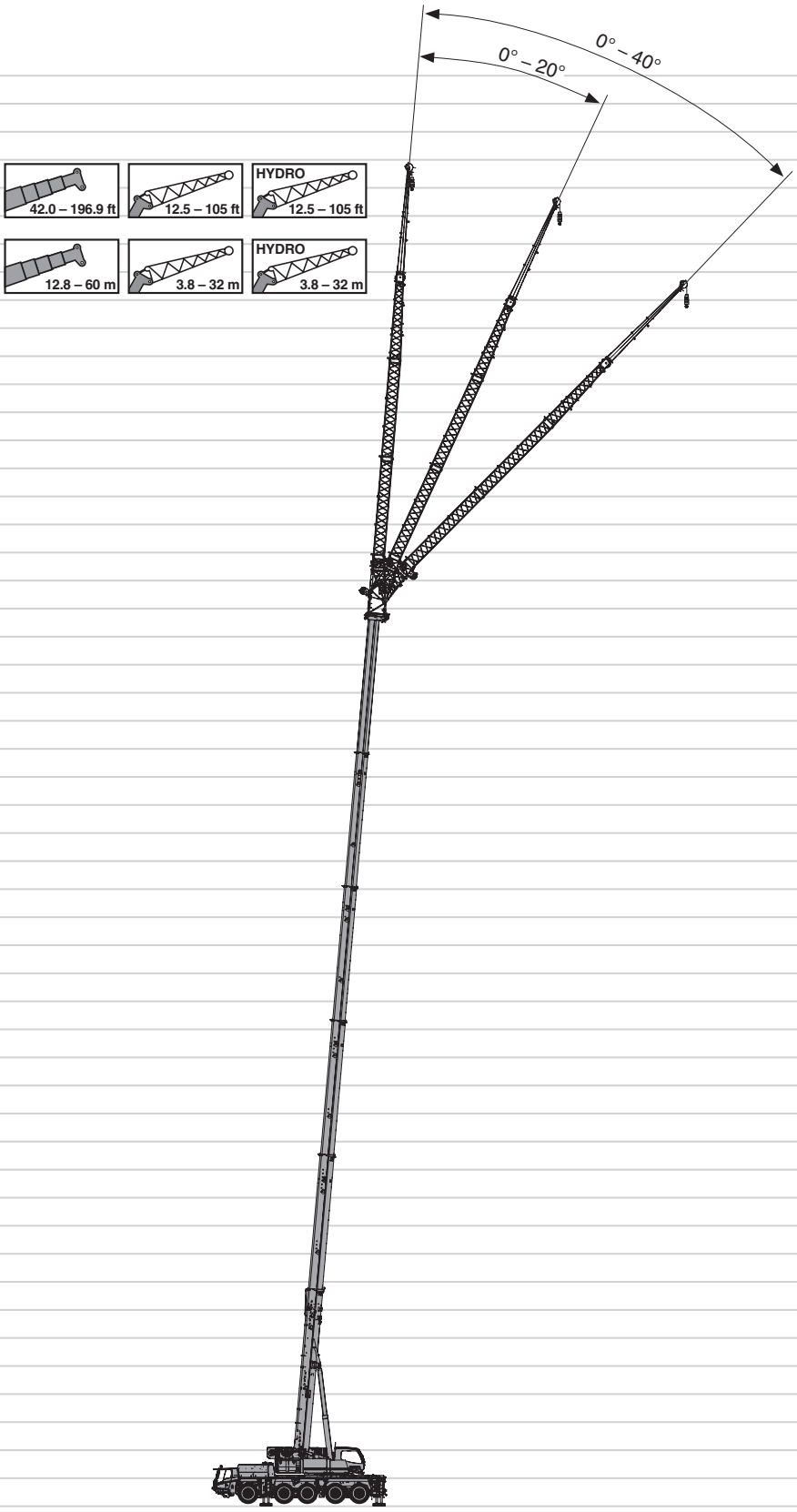
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GENERAL TECHNICAL DATA

CARACTÉRISTIQUES TECHNIQUES GÉNÉRALES
DATOS TÉCNICOS GENERALES

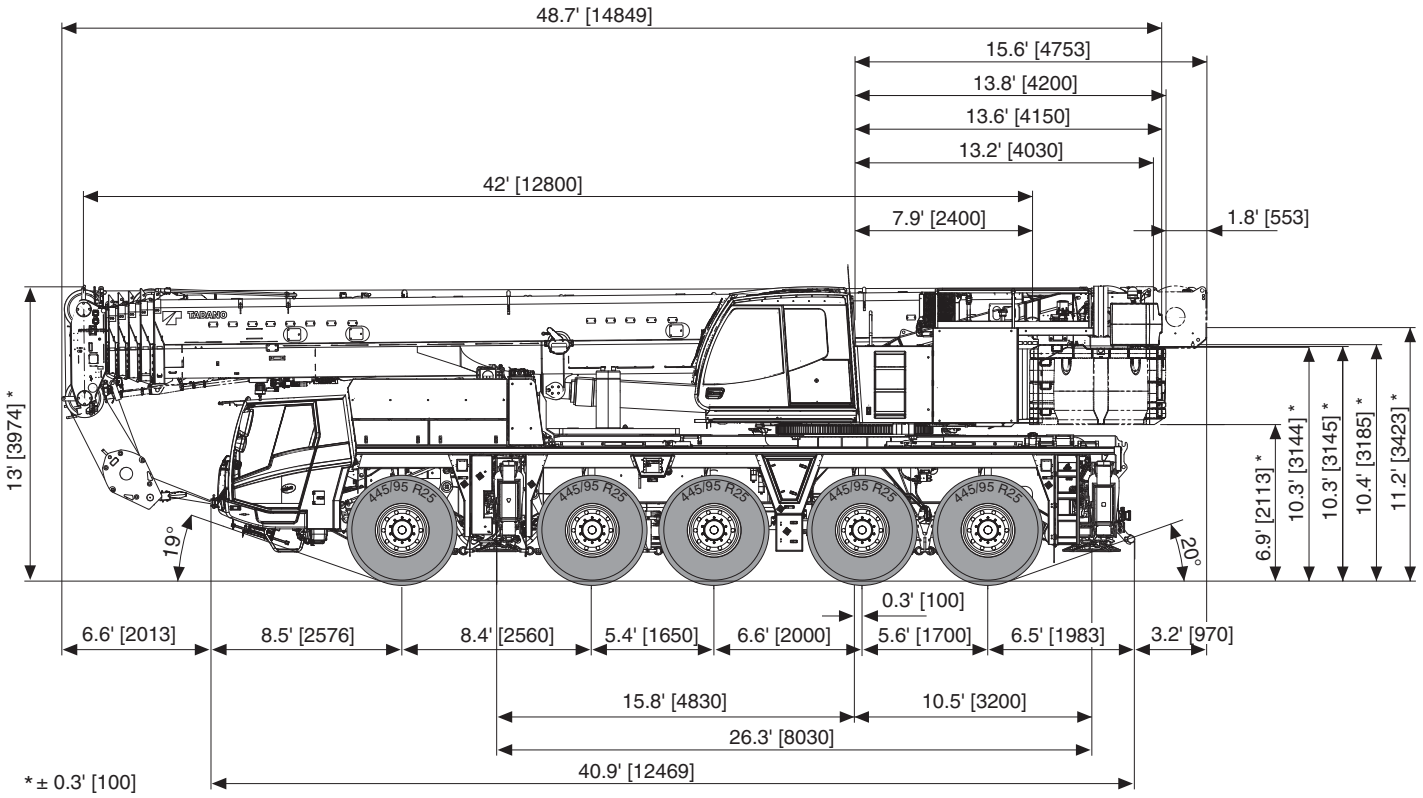
Boom systems · Systèmes de flèche · Sistema de pluma

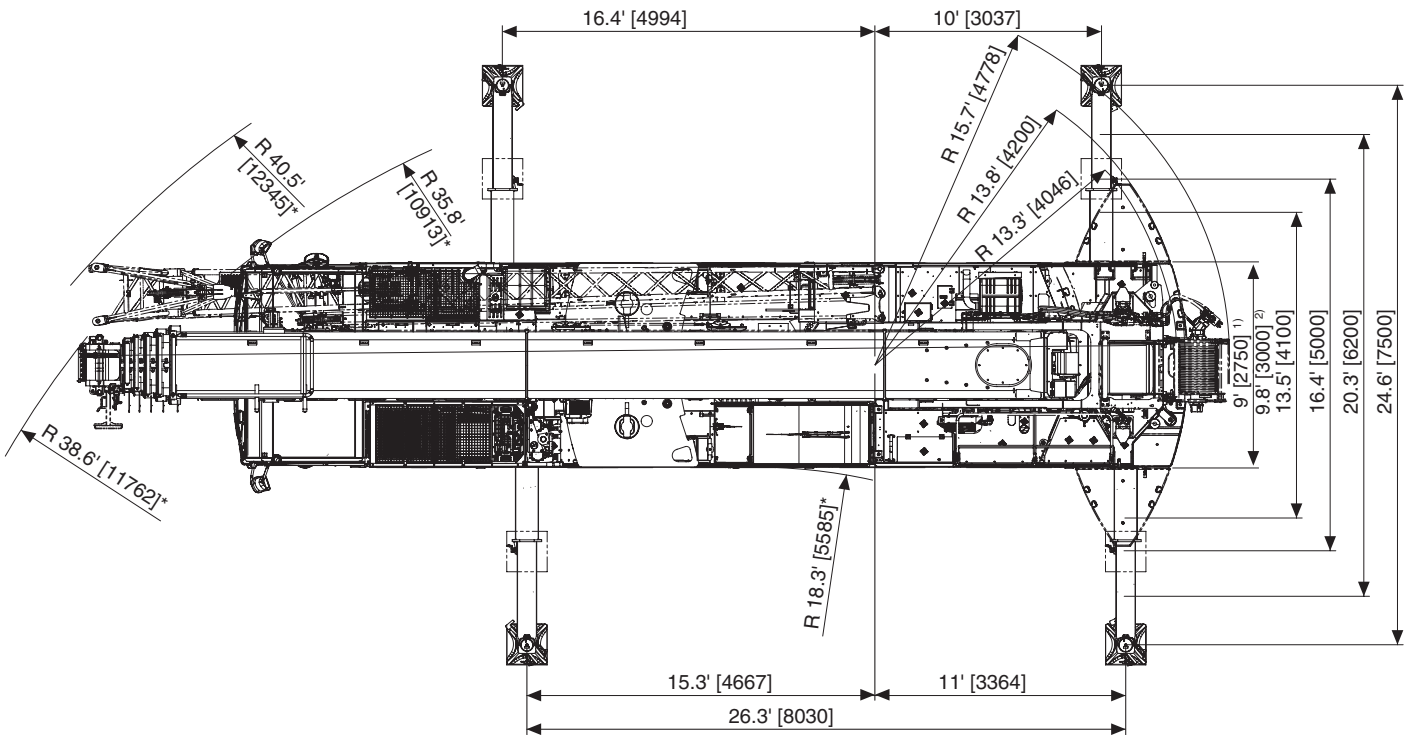




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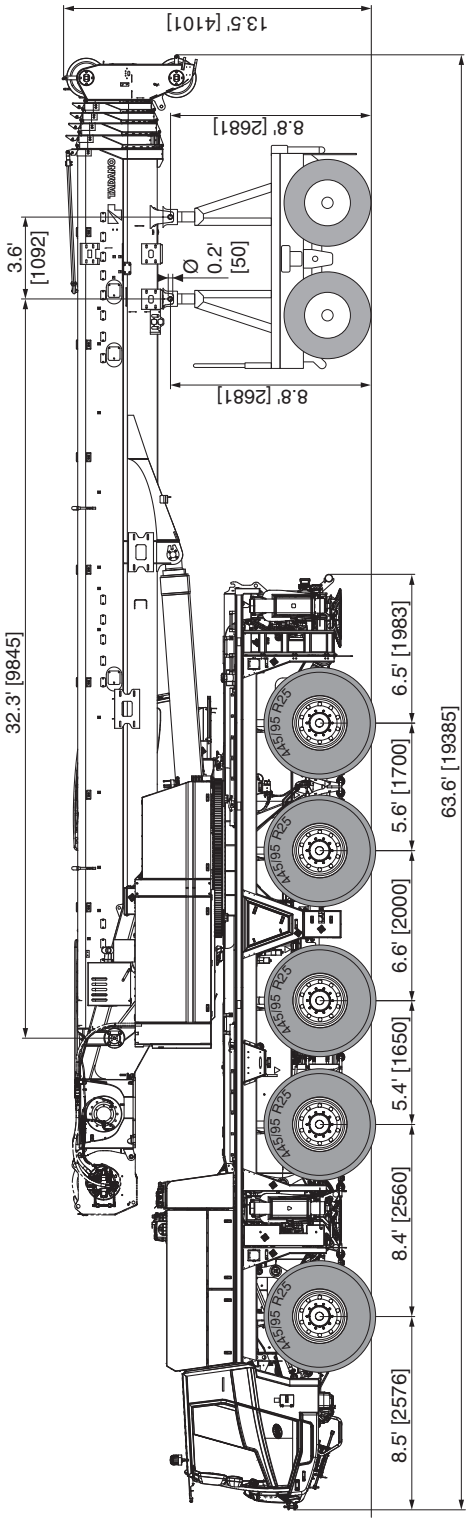
Vehicle dimensions · Dimensions du véhicule · Dimensiones del vehículo





* 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)


13.5' [4101]
8.8' [2681]
3.6' [1092]
Ø 0.2' [50]
8.8' [2681]
32.3' [9845]
63.6' [19385]
6.5' [1983]
5.6' [1700]
6.6' [2000]
5.4' [1650]
8.4' [2560]
8.5' [2576]
445/95 R25

TECHNICAL DATA FOR ON-ROAD AND OFF-ROAD DRIVING

CARACTÉRISTIQUES TECHNIQUES POUR MARCHE ROUTE ET TOUT TERRAIN

DATOS TÉCNICOS PARA SU TRASLADO POR CARRETERA Y TODO TERRENO



Axle loads

Boom to front		TOTAL	1	2	3	4	5
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	**1. Standard equipment + 2. Optional equipment + 3. Others**	**122,642/ 55630**	**26,076/ 11828**	**26,078/ 11829**	**23,435/ 10630**	**23,559/ 10686**	**23,494/ 10657**
1. Standard Equipment	See page 48; no counterweight	110,444/ 50097	23,771/ 10782	23,788/ 10790	20,856/ 9460	21,057/ 9551	20,972/ 9513
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
	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/ -662	-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	149/ 67	148/ 67	-53/ -24	-51/ -23	-51/ -23
	Additional oil cooler	97/ 44	-7/ -3	-7/ -3	38/ 17	36/ 17	37/ 17
	Hook block 11.0 US t / 10 t (hanging at main boom)	655/ 297	628/ 285	623/ 283	-202/ -92	-196/ -89	-197/ -89
3. Others	Driver	198/ 90	172/ 78	170/ 77	-49/ -22	-47/ -21	-48/ -22
	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 (hanging at main boom)	977/ 443	944/ 428	937/ 425	-308/ -140	-297/ -135	-300/ -136
	Hook block 69.4 US t / 63 t	1,323/ 600	1,322/ 599	1,312/ 595	-446/ -202	-431/ -195	-435/ -197
	Counterweight No. 1; 6,834 lbs/3.1 t (on carrier)	6,835/ 3101	2,356/ 1068	2,338/ 1061	728/ 330	704/ 319	710/ 322
	Counterweight No. 2; 8,818 lbs/4.0 t (on carrier)	8,821/ 4001	3,040/ 1379	3,018/ 1369	939/ 426	908/ 412	916/ 415
	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
	2 x Counterweight No. 4; 2 x 6,614 lbs/ 2 x 3.0 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/10.0 t (on carrier)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035
	Counterweight No. 6; 7,716 lbs/3.5 t (on carrier)	7,722/ 3502	2,662/ 1207	2,642/ 1199	822/ 373	794/ 360	801/ 364
	Counterweight No. 7; 3,086 lbs/1.4 t (on superstructure)	2,871/ 1302	1,127/ 511	1,119/ 507	212/ 96	205/ 93	207/ 94

Axle loads

Boom over rear, supported by dolly (34.1 ft / 10.39 m behind boom pivot point)		TOTAL	1	2	3	4	5	
		lb/kg	**lb/kg**	**lb/kg**	**lb/kg**	**lb/kg**	**lb/kg**	**lb/kg**
Total	**1. Standard equipment + 2. Optional equipment + 3. Others**	**122,642/ 55630**	**20,720/ 9398**	**20,762/ 9418**	**18,343/ 8320**	**18,636/ 8453**	**18,527/ 8404**	**25,654/ 11637**
1. Standard Equipment	See page 48; no counterweight	110,444/ 50097	18,944/ 8593	18,996/ 8617	17,019/ 7720	17,347/ 7868	17,229/ 7815	20,908/ 9484
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
	Towing hook for dolly, 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	-7/ -3	-7/ -3	-5/ -2	-5/ -2	-5/ -2	170/ 77
	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 (hanging at main boom)	655/ 297	-42/ -19	-41/ -19	-29/ -13	-28/ -13	-28/ -13	823/ 373
3. Others	Driver	198/ 90	172/ 78	170/ 77	-49/ -22	-47/ -21	-48/ -22	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	-56/ -25	-56/ -25	-39/ -18	-37/ -17	-38/ -17	1,202/ 545
	Hook block 69.4 US t / 63 t	1,323/ 600	-76/ -34	-75 -34	-52/ -24	-51 -23	-51/ -23	1,628/ 738
	Counterweight No. 1; 6,834 lbs/3.1 t (on carrier)	6,835/ 3101	2,356/ 1068	2,338/ 1061	728/ 330	704/ 319	710/ 322	0/ 0
	Counterweight No. 2; 8,818 lbs/4.0 t (on carrier)	8,821/ 4001	3,040/ 1379	3,018/ 1369	939/ 426	908/ 412	916/ 415	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 3.0 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/10.0 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. 6; 7,716 lbs/3.5 t (on carrier)	7,722/ 3502	2,662 1207	2,642/ 1199	822/ 373	794/ 360	801/ 364	0/ 0
	Counterweight No. 7; 3,086 lbs/1.4 t (on superstructure)	2,871/ 1302	1,127/ 511	1,119/ 507	212/ 96	205/ 93	207/ 94	0/ 0

Charges par essieu

Flèche vers l'avant		TOTAL	1	2	3	4	5
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	**1. Équipement standard + 2. équipement spécial + 3. autres**	**122,642/ 55630**	**26,076/ 11828**	**26,078/ 11829**	**23,435/ 10630**	**23,559/ 10686**	**23,494/ 10657**
1. Équipement standard	Voir page 49; sans contrepoids	110,444/ 50097	23,771/ 10782	23,788/ 10790	20,856/ 9460	21,057/ 9551	20,972/ 9513
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
	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/ -662	-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	149/ 67	148/ 67	-53/ -24	-51/ -23	-51/ -23
	Radiateur supplémentaire	97/ 44	-7/ -3	-7/ -3	38/ 17	36/ 17	37/ 17
	Moufle 11.0 US t / 10 t (suspendue sur la flèche principale)	655/ 297	628/ 285	623/ 283	-202/ -92	-196/ -89	-197/ -89
3. Autres	Conducteur	198/ 90	172/ 78	170/ 77	-49/ -22	-47/ -21	-48/ -22
	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 (suspendue sur la flèche principale)	977/ 443	944/ 428	937/ 425	-308/ -140	-297/ -135	-300/ -136
	Moufle 69.4 US t / 63 t	1,323/ 600	1,322/ 599	1,312/ 595	-446/ -202	-431/ -195	-435/ -197
	Contrepoids n° 1; 6,834 lbs/3.1 t (sur châssis)	6,835/ 3101	2,356/ 1068	2,338/ 1061	728/ 330	704/ 319	710/ 322
	Contrepoids n° 2; 8,818 lbs/4.0 t (sur châssis)	8,821/ 4001	3,040/ 1379	3,018/ 1369	939/ 426	908/ 412	916/ 415
	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
	2 x Contrepoids n° 4; 2 x 6,614 lbs/ 2 x 3.0 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/10.0 t (sur châssis)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035
	Contrepoids n° 6; 7,716 lbs/3.5 t (sur châssis)	7,722/ 3502	2,662/ 1207	2,642/ 1199	822/ 373	794/ 360	801/ 364
	Contrepoids n° 7; 3,086 lbs/1.4 t (sur superstructure)	2,871/ 1302	1,127/ 511	1,119/ 507	212/ 96	205/ 93	207/ 94

Charges par essieu

Flèche vers l'arrière, soutenue par chariot de transport "Dolly" (34.1 ft / 10.39 m derrière le point d'articulation de la flèche)		TOTAL	1	2	3	4	5	
		lb/kg	**lb/kg**	**lb/kg**	**lb/kg**	**lb/kg**	**lb/kg**	**lb/kg**
Total	**1. Équipement standard + 2. équipement spécial + 3. autres**	**122,642/ 55630**	**20,720/ 9398**	**20,762/ 9418**	**18,343/ 8320**	**18,636/ 8453**	**18,527/ 8404**	**25,654/ 11637**
1. Équipement standard	Voir page 49; sans contrepoids	110,444/ 50097	18,944/ 8593	18,996/ 8617	17,019/ 7720	17,347/ 7868	17,229/ 7815	20,908/ 9484
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
	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	-7/ -3	-7/ -3	-5/ -2	-5/ -2	-5/ -2	170/ 77
	Radiateur supplémentaire	97/ 44	7/ 3	7/ 3	28/ 13	27/ 12	28/ 13	0/ 0
	Moufle 11.0 US t / 10 t (suspendue sur la flèche principale)	655/ 297	-42/ -19	-41/ -19	-29/ -13	-28/ -13	-28/ -13	823/ 373
3. Autres	Conducteur	198/ 90	172/ 78	170/ 77	-49/ -22	-47/ -21	-48/ -22	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	-56/ -25	-56/ -25	-39/ -18	-37/ -17	-38/ -17	1,202/ 545
	Moufle 69.4 US t / 63 t	1,323/ 600	-76/ -34	-75 -34	-52/ -24	-51 -23	-51/ -23	1,628/ 738
	Contrepoids n° 1; 6,834 lbs/3.1 t (sur châssis)	6,835/ 3101	2,356/ 1068	2,338/ 1061	728/ 330	704/ 319	710/ 322	0/ 0
	Contrepoids n° 2; 8,818 lbs/4.0 t (sur châssis)	8,821/ 4001	3,040/ 1379	3,018/ 1369	939/ 426	908/ 412	916/ 415	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 3.0 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/10.0 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° 6; 7,716 lbs/3.5 t (sur châssis)	7,722/ 3502	2,662 1207	2,642/ 1199	822/ 373	794/ 360	801/ 364	0/ 0
	Contrepoids n° 7; 3,086 lbs/1.4 t (sur superstructure)	2,871/ 1302	1,127/ 511	1,119/ 507	212/ 96	205/ 93	207/ 94	0/ 0

Cargas por eje

Pluma dirigida hacia delante		TOTAL	1	2	3	4	5
		lb/kg	**lb/kg**	**lb/kg**	**lb/kg**	**lb/kg**	**lb/kg**
Total	**1. Equipamiento estándar + 2. Equipamiento especial + 3. Otros**	**122,642/ 55630**	**26,076/ 11828**	**26,078/ 11829**	**23,435/ 10630**	**23,559/ 10686**	**23,494/ 10657**
1. Equipamiento estándar	Ver páginas 50; sin contrapeso	110,444/ 50097	23,771/ 10782	23,788/ 10790	20,856/ 9460	21,057/ 9551	20,972/ 9513
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
	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/ -662	-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	149/ 67	148/ 67	-53/ -24	-51/ -23	-51/ -23
	Radiator de aceite adicional	97/ 44	-7/ -3	-7/ -3	38/ 17	36/ 17	37/ 17
	Motón 11.0 US t / 10 t (suspendido desde la pluma principal)	655/ 297	628/ 285	623/ 283	-202/ -92	-196/ -89	-197/ -89
3. Otros	Conductor	198/ 90	172/ 78	170/ 77	-49/ -22	-47/ -21	-48/ -22
	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 (suspendido desde la pluma principal)	977/ 443	944/ 428	937/ 425	-308/ -140	-297/ -135	-300/ -136
	Motón 69.4 US t / 63 t	1,323/ 600	1,322/ 599	1,312/ 595	-446/ -202	-431/ -195	-435/ -197
	Contrapeso N° 1; 6,834 lbs/3.1 t (encima del chasis)	6,835/ 3101	2,356/ 1068	2,338/ 1061	728/ 330	704/ 319	710/ 322
	Contrapeso N° 2; 8,818 lbs/4.0 t (encima del chasis)	8,821/ 4001	3,040/ 1379	3,018/ 1369	939/ 426	908/ 412	916/ 415
	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
	2 x Contrapeso N° 4; 2 x 6,614 lbs/ 2 x 3.0 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/10.0 t (encima del chasis)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035
	Contrapeso N° 6; 7,716 lbs/3.5 t (encima del chasis)	7,722/ 3502	2,662/ 1207	2,642/ 1199	822/ 373	794/ 360	801/ 364
	Contrapeso N° 7; 3,086 lbs/1.4 t (encima del superestructura)	2,871/ 1302	1,127/ 511	1,119/ 507	212/ 96	205/ 93	207/ 94

Cargas por eje

Pluma hacia atrás, apoyada por carro tipo dolly (34.1 ft / 10.39 m detrás punto de articulación de la pluma)		TOTAL	1	2	3	4	5	
		lb/kg	**lb/kg**	**lb/kg**	**lb/kg**	**lb/kg**	**lb/kg**	**lb/kg**
Total	**1. Equipamiento estándar + 2. Equipamiento especial + 3. Otros**	**122,642/ 55630**	**20,720/ 9398**	**20,762/ 9418**	**18,343/ 8320**	**18,636/ 8453**	**18,527/ 8404**	**25,654/ 11637**
1. Equipamiento estándar	Ver páginas 50; sin contrapeso	110,444/ 50097	18,944/ 8593	18,996/ 8617	17,019/ 7720	17,347/ 7868	17,229/ 7815	20,908/ 9484
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
	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	-7/ -3	-7/ -3	-5/ -2	-5/ -2	-5/ -2	170/ 77
	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 (suspendido desde la pluma principal)	655/ 297	-42/ -19	-41/ -19	-29/ -13	-28/ -13	-28/ -13	823/ 373
3. Otros	Conductor	198/ 90	172/ 78	170/ 77	-49/ -22	-47/ -21	-48/ -22	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	-56/ -25	-56/ -25	-39/ -18	-37/ -17	-38/ -17	1,202/ 545
	Motón 69.4 US t / 63 t	1,323/ 600	-76/ -34	-75 -34	-52/ -24	-51 -23	-51/ -23	1,628/ 738
	Contrapeso N° 1; 6,834 lbs/3.1 t (encima del chasis)	6,835/ 3101	2,356/ 1068	2,338/ 1061	728/ 330	704/ 319	710/ 322	0/ 0
	Contrapeso N° 2; 8,818 lbs/4.0 t (encima del chasis)	8,821/ 4001	3,040/ 1379	3,018/ 1369	939/ 426	908/ 412	916/ 415	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 3.0 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/10.0 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° 6; 7,716 lbs/3.5 t (encima del chasis)	7,722/ 3502	2,662 1207	2,642/ 1199	822/ 373	794/ 360	801/ 364	0/ 0
	Contrapeso N° 7; 3,086 lbs/1.4 t (encima del superestructura)	2,871/ 1302	1,127/ 511	1,119/ 507	212/ 96	205/ 93	207/ 94	0/ 0

On-road and off-road driving · Marche route et tout terrain · Traslado por carretera y todoterreno

Speeds and gradeability · Vitesses de conduite et gravissement 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.	63 % / 48 %

** Depending on axle loads · En fonction des charges par essieu · Según los cargas por ejes*

Steering · Direction · Dirección

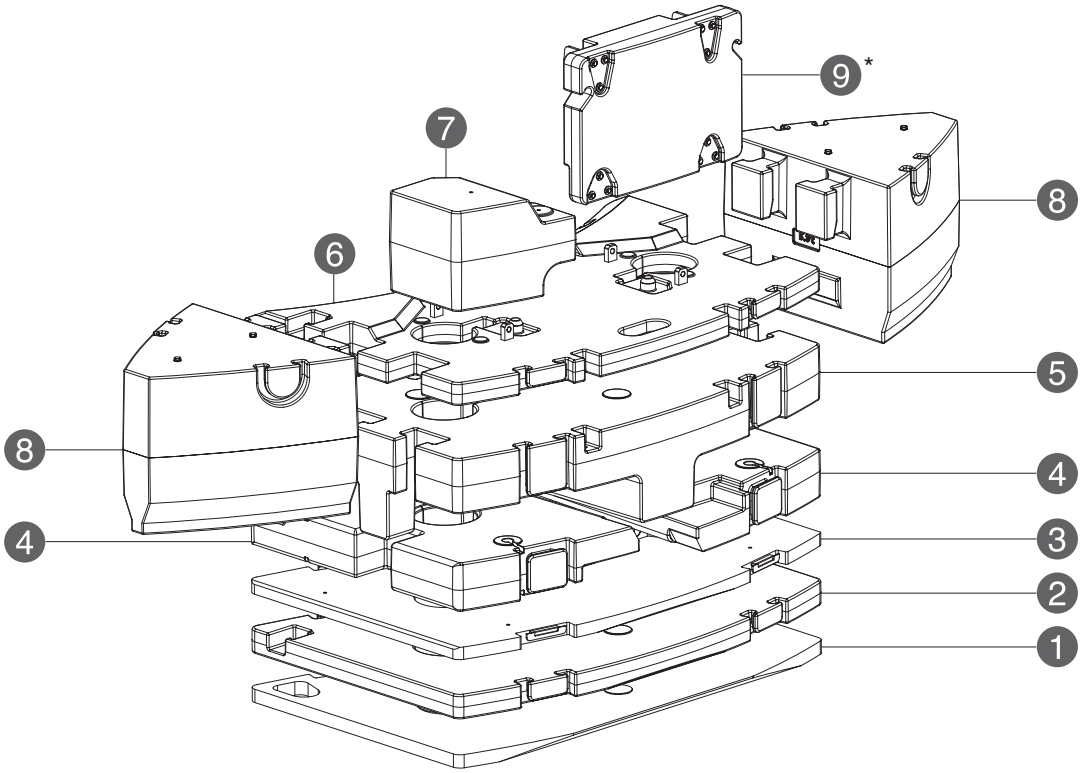
		v < 15.5 mph v < 25 km/h
		v ≥ 15.5 mph v ≥ 25 km/h
		v > 31.1 mph v > 50 km/h
		Manual steering · Direction manuelle · Dirección manual
		Smallest turning circle · Rayon de braquage mini · Mínimo radio
		Diagonal steering · Marche en crabe · Marcha cangrejo
		Rear veering suppression · Suppression de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

TECHNICAL DATA FOR TRANSPORT

CARACTÉRISTIQUES TECHNIQUES POUR LE TRANSPORT
DATOS TÉCNICOS PARA EL TRANSPORTE



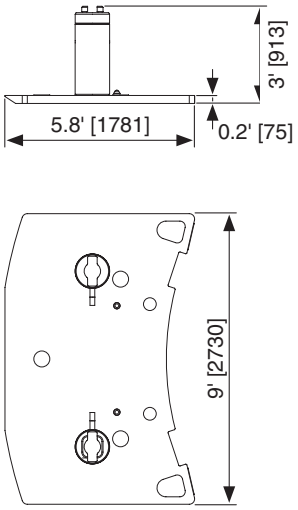
Counterweight · Contrepoids · Contrapeso



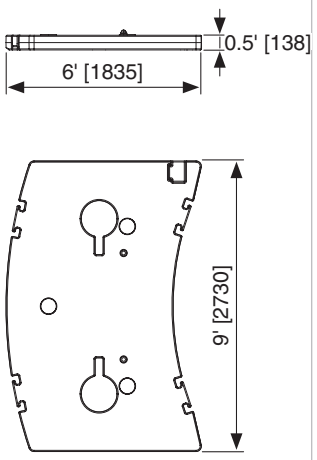
		6,393 lbs	13,228 lbs	18,298 lbs	22,046 lbs	27,117 lbs	34,833 lbs	48,061 lbs	53,572 lbs	56,879 lbs	70,107 lbs	93,476 lbs
		2.9 t	6.0 t	8.3 t	10.0 t	12.3 t	15.8 t	21.8 t	24.3 t	25.8 t	31.8 t	42.4 t
1	6,834 lbs 3.1 t	-	1	1	1	1	1	1	1	1	1	1
2	8,818 lbs 4.0 t	-	-	-	1	1	1	1	-	1	1	1
3	5,071 lbs 2.3 t	-	-	1	-	1	1	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
6	7,716 lbs 3.5 t	-	-	-	-	-	1	1	-	1	1	1
7	3,086 lbs 1.4 t	1	1	1	1	1	1	1	1	1	1	1
8	11,685 lbs 5.3 t	-	-	-	-	-	-	-	-	-	-	2
9*	3,307 lbs 1.5 t	1	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*

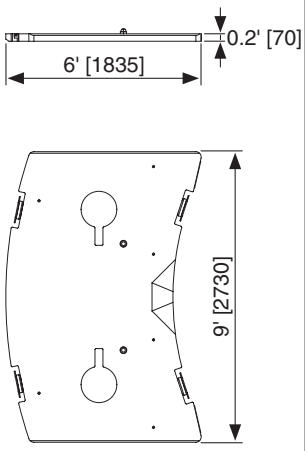
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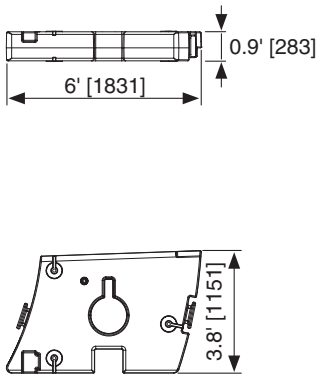
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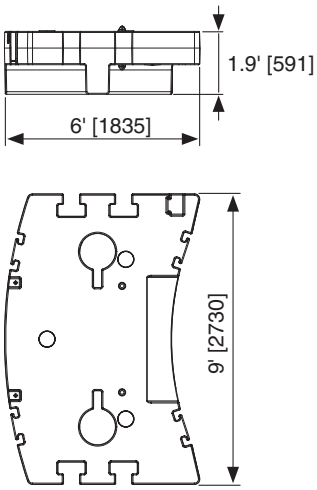
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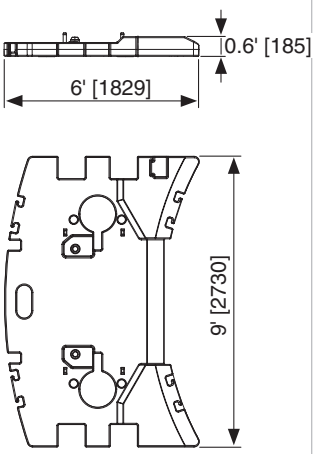
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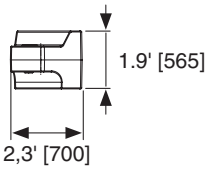
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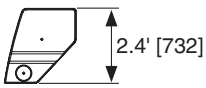


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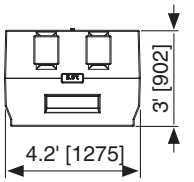


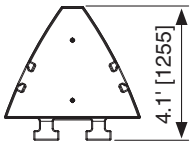
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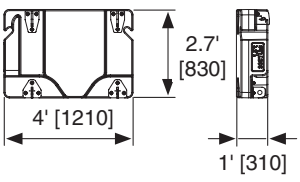


8





9*



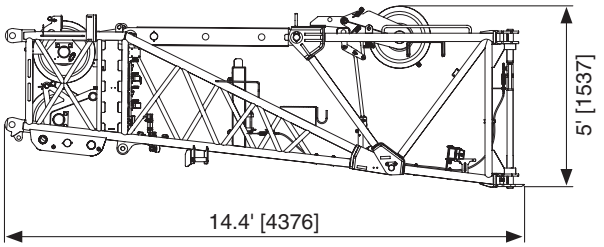
** Can be replaced by 2nd winch · Peut être remplacé par un 2e treuil · Sustituible por 2° cabrestante*

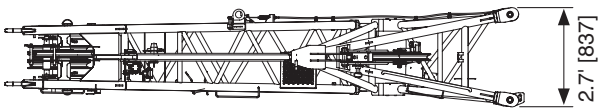
Jibs · Fléchettes · Plumines

	ft	m	
12.5 – 105 ft HYDRO 12.5 – 105 ft	3.3 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
3.8 – 32 m HYDRO 3.8 – 32 m	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

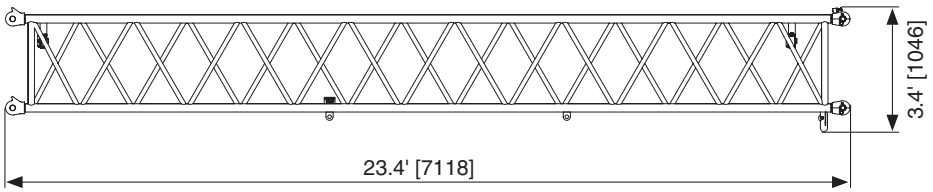
lbs	kg
1,896	860

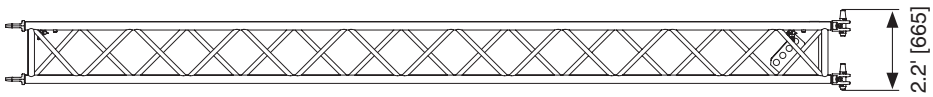




2

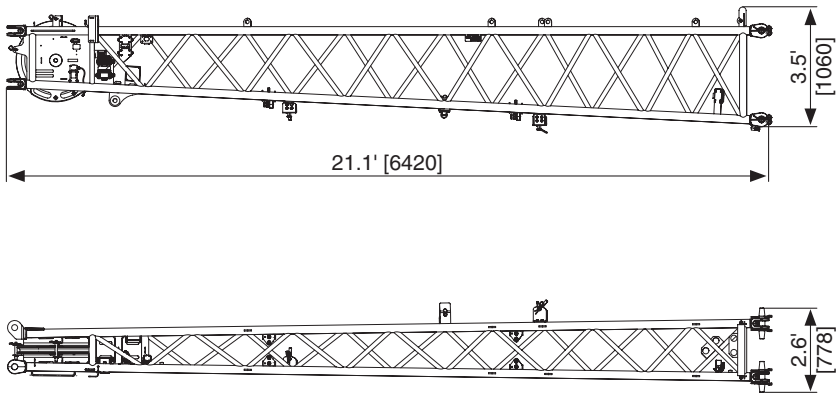
lbs	kg
1,058	480





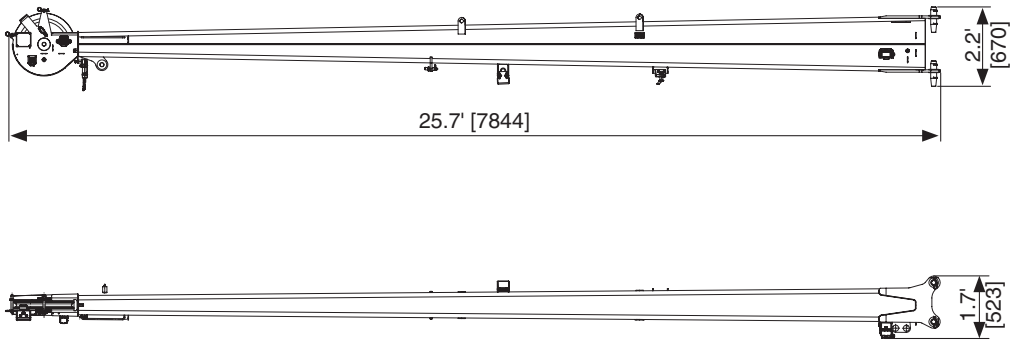
3

lbs	kg
1,036	470



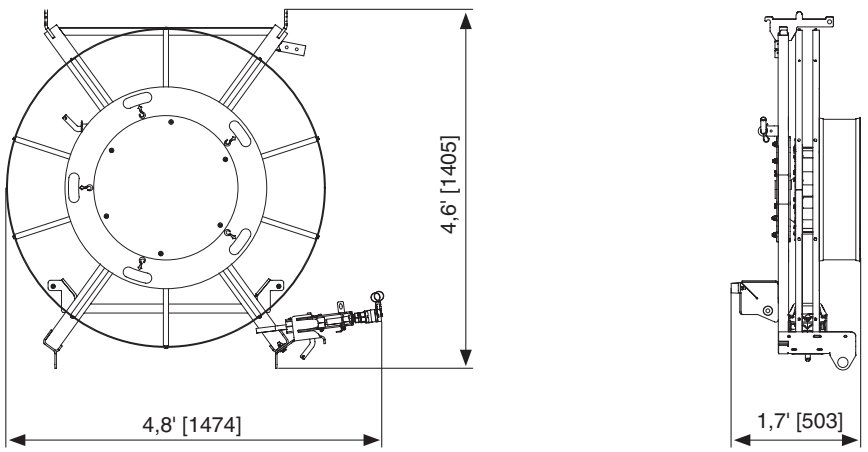
4

lbs	kg
917	416



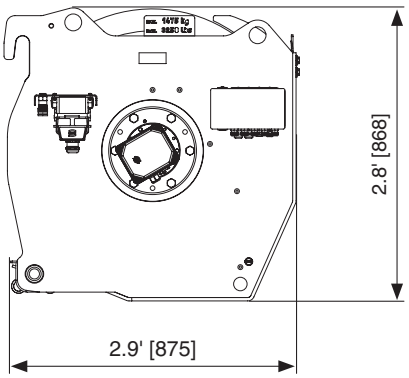
Hose drum for hydraulic jib · Tambour de flexible pour fléchette hydraulique · Devanadera para plumín hidráulico

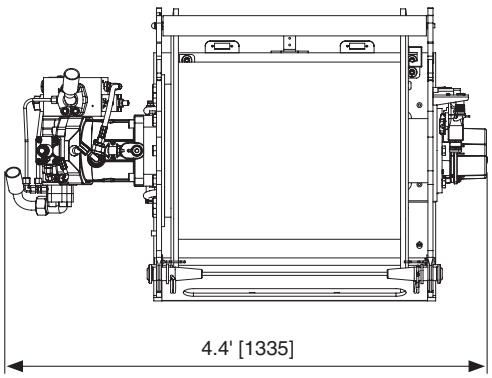
lbs	kg
474	215



Auxiliary winch · Treuil supplémentaire · Cabrestante auxiliar

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





** with rope · avec câble · con cable*

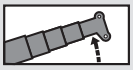
TECHNICAL DATA FOR OPERATION

CARACTÉRISTIQUES TECHNIQUES POUR L'UTILISATION
DATOS TÉCNICOS PARA EL USO



Operation · Utilisation · Uso

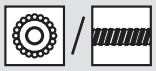
Main boom · Flèche principale · Pluma principal

	-1° – 85.4°	~ 42 s
	42.0 ft – 196.9 ft 12.8 m – 60 m	~ 380 s

Swing mechanism · Groupe de rotation · Mecanismo de giro

	0 – 1.6 min $^{-1}$		0° / 180°

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

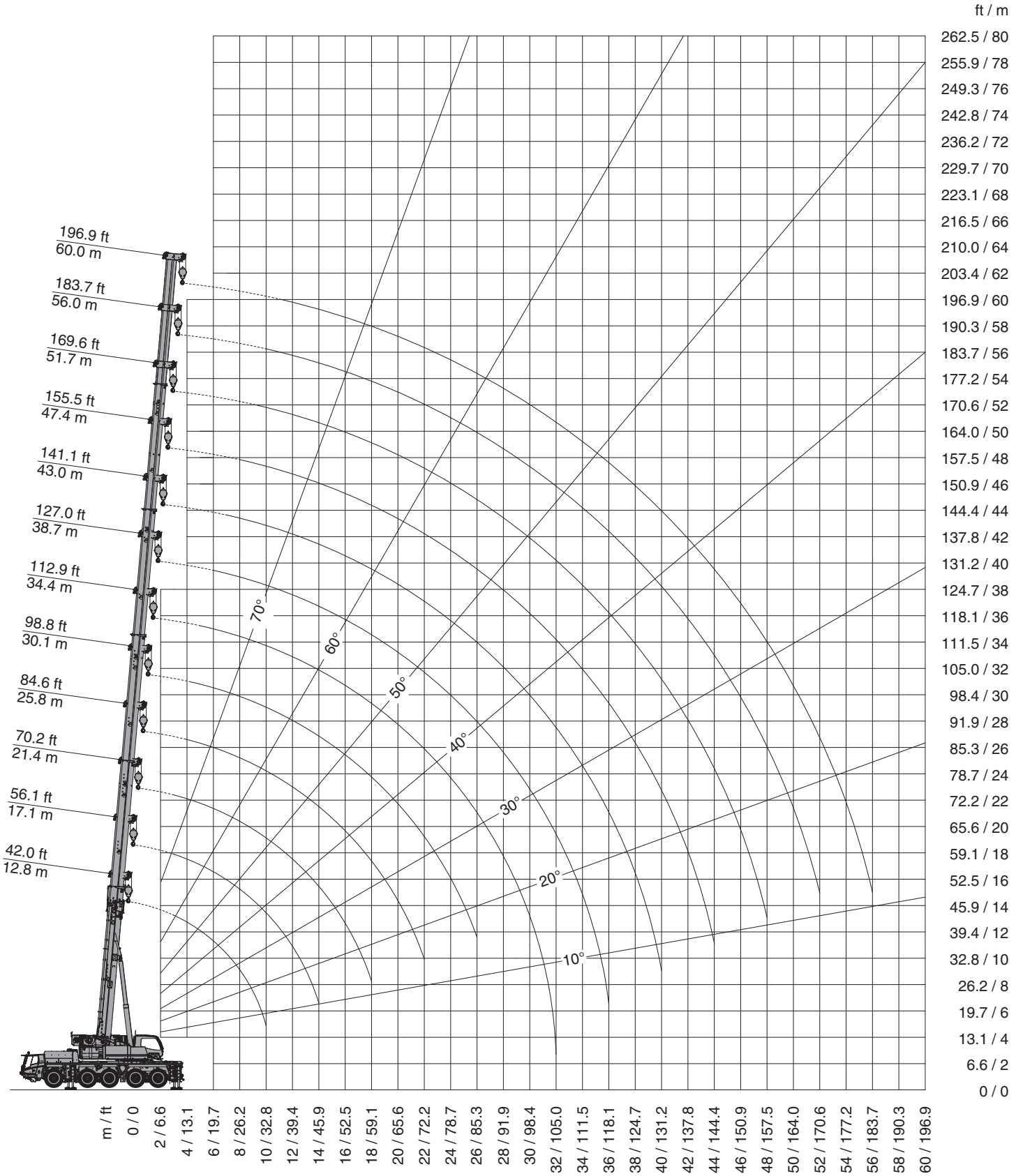
				
176.4 US t* / 160 t*	272,491 / 123.6	7	15	2,866 / 1300
110.2 US t* / 100 t*	202,164 / 91.7	5	11	1,764 / 800
69.4 US t* / 63 t*	130,073 / 59	3	7	1,323 / 600
69.4 US t / 63 t	130,073 / 59	3	7	1,323 / 600
35.3 US t / 32 t	56,438 / 25.6	1	3	992 / 450
11.0 US t / 10 t	19,180 / 8.7	0	1	661 / 300

** Twin hook · Moufle avec crochet marin · Gancho doble*

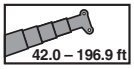
Working range · Rayon de travail · Zona de trabajo

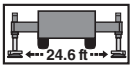
42.0 – 196.9 ft | 24.6 ft | 360° | 93,476 lbs | ASME

12.8 – 60 m | 7.5 m | 360° | 42.4 t | ASME



Lifting capacities · Charges de levage · Cargas





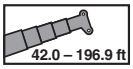


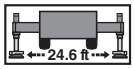
93,476 lbs **ASME**

lbs x 1,000

ft	42.0 ft*	42.0 ft	56.1 ft	70.2 ft	84.6 ft	98.8 ft	112.9 ft	127.0 ft	141.1 ft	155.5 ft	169.6 ft	183.7 ft	196.9 ft
8.9	286.6**												
9.8	245.8**	231.5**	198.4	198.4									
11.5	222.4**	211.6	198.4	198.4	154.3								
13.1	203.0	194.9	194.4	193.6	154.3								
14.8	186.7	180.3	179.9	179.2	154.3	119.7							
16.4	172.6	167.6	167.3	166.4	154.3	113.1	97.0						
19.7	149.5	146.4	145.9	144.8	145.5	110.2	93.3	72.3					
23.0	131.6	128.5	128.5	127.0	128.1	108.7	84.7	72.3	59.7				
26.2	117.1	113.3	114.0	113.3	112.9	101.4	83.8	72.3	59.7	47.2			
29.5	105.4	100.5	101.2	101.0	100.1	95.0	78.9	66.8	59.7	47.2	36.6		
32.8	92.8	89.5	90.6	90.4	89.5	89.5	74.3	61.9	58.4	47.2	36.6	29.1	
36.1			81.8	81.6	80.7	82.2	70.1	57.8	54.5	47.2	36.6	29.1	23.4
39.4			75.0	74.1	73.9	74.7	66.4	54.0	50.9	47.0	36.6	29.1	23.4
45.9			63.5	62.2	63.7	62.6	60.0	47.6	45.0	42.3	36.6	29.1	23.4
52.5				53.8	54.5	53.4	54.9	42.5	40.1	38.4	34.8	29.1	23.4
59.1				46.1	45.6	46.5	46.1	38.4	36.8	34.6	32.0	28.2	23.4
65.6					39.0	40.6	39.2	34.8	33.5	31.1	29.8	26.5	23.1
72.2					35.7	35.1	33.7	32.0	30.6	28.0	26.9	24.7	21.4
78.7						30.6	29.3	28.4	28.0	25.4	24.3	22.9	19.8
85.3						27.1	25.8	26.7	25.8	23.1	22.0	21.6	18.1
91.9							23.4	23.8	22.7	21.2	20.3	19.8	16.5
98.4							22.3	21.2	20.1	19.2	18.5	18.3	15.2
105.0							17.9	19.0	17.9	17.4	17.2	16.8	13.9
111.5								17.0	16.5	16.3	15.7	15.7	12.8
118.1								15.4	15.7	14.8	14.3	14.6	11.9
124.7									14.3	13.2	13.4	13.2	11.0
131.2									13.0	11.9	12.6	11.9	10.1
137.8										10.8	11.5	10.6	9.5
144.4										9.9	10.4	9.5	8.8
150.9											9.5	8.6	8.4
157.5											8.6	7.7	7.7
164.0												6.8	6.8
170.6												6.2	6.0
177.2													5.3
183.7													4.9

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



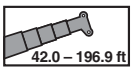


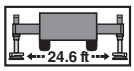


70,107 lbs **ASME**

lbs x 1,000

ft	42.0 ft*	42.0 ft	56.1 ft	70.2 ft	84.6 ft	98.8 ft	112.9 ft	127.0 ft	141.1 ft	155.5 ft	169.6 ft	183.7 ft	196.9 ft
8.9	286.6**												
9.8	241.2**	229.3**	198.4	198.4									
11.5	218.3	209.7	198.4	198.4	154.3								
13.1	199.3	192.9	192.7	191.8	154.3								
14.8	183.2	178.6	178.4	177.5	154.3	119.7							
16.4	169.3	165.3	164.9	164.0	154.3	113.1	97.0						
19.7	146.6	142.6	142.2	140.9	142.2	110.2	93.3	72.3					
23.0	129.0	123.2	123.9	123.0	122.6	108.7	84.7	72.3	59.7				
26.2	114.9	107.8	108.5	108.2	107.1	101.4	83.8	72.3	59.7	47.2			
29.5	103.2	95.2	95.9	95.7	94.8	95.0	78.9	66.8	59.7	47.2	36.6		
32.8	92.8	85.1	85.8	85.5	84.4	86.2	74.3	61.9	58.4	47.2	36.6	29.1	
36.1			78.3	76.9	78.0	77.6	70.1	57.8	54.5	47.2	36.6	29.1	23.4
39.4			70.1	68.6	70.8	69.2	66.4	54.0	50.9	47.0	36.6	29.1	23.4
45.9			55.3	56.2	55.8	56.0	56.0	47.6	45.0	42.3	36.6	29.1	23.4
52.5				45.9	45.9	47.0	45.6	42.5	40.1	38.4	34.8	29.1	23.4
59.1				39.7	39.9	39.2	37.9	36.6	36.8	34.6	32.0	28.2	23.4
65.6					33.7	33.3	31.7	32.4	32.0	31.1	29.8	26.5	23.1
72.2					28.9	28.4	27.8	28.2	27.3	26.2	26.9	24.7	21.4
78.7						24.5	25.6	24.5	23.4	24.0	23.1	22.9	19.8
85.3						22.7	22.5	21.2	21.6	20.7	20.7	20.7	18.1
91.9							19.8	18.5	19.2	18.1	19.0	18.1	16.5
98.4							17.4	17.2	16.8	16.1	16.8	15.7	15.2
105.0							15.7	16.1	15.0	14.8	14.8	13.9	13.9
111.5								14.3	13.7	13.7	13.0	12.1	12.1
118.1								13.0	12.8	12.1	11.7	10.6	10.6
124.7									11.5	10.8	10.4	9.3	9.3
131.2									10.4	9.7	9.0	8.2	8.2
137.8										8.8	8.2	7.1	7.1
144.4										7.7	7.1	6.2	6.2
150.9											6.4	5.3	5.3
157.5											5.5	4.6	4.6
164.0												4.0	4.0
170.6												3.3	3.3
177.2													2.6
183.7													2.2





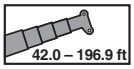


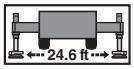
56,879 lbs **ASME**

lbs x 1,000

ft	42.0 ft*	42.0 ft	56.1 ft	70.2 ft	84.6 ft	98.8 ft	112.9 ft	127.0 ft	141.1 ft	155.5 ft	169.6 ft	183.7 ft	196.9 ft
8.9	264.6**												
9.8	238.8**	228.2**	198.4	198.4									
11.5	216.1	208.6	198.4	198.4	154.3								
13.1	197.1	192.0	191.8	190.9	154.3								
14.8	181.2	176.8	176.4	175.5	154.3	119.7							
16.4	167.3	163.4	162.9	161.8	154.3	113.1	97.0						
19.7	145.1	138.9	139.6	137.1	138.5	110.2	93.3	72.3					
23.0	127.6	119.5	120.2	120.2	119.0	108.7	84.7	72.3	59.7				
26.2	113.5	104.3	104.9	104.9	103.8	101.4	83.8	72.3	59.7	47.2			
29.5	100.5	92.2	92.8	92.6	91.5	90.2	78.9	66.8	59.7	47.2	36.6		
32.8	83.6	81.8	84.0	82.2	83.1	78.7	74.3	61.9	58.4	47.2	36.6	29.1	
36.1			72.1	70.5	72.5	69.7	69.0	57.8	54.5	47.2	36.6	29.1	23.4
39.4			62.8	63.7	63.3	62.4	61.9	54.0	50.9	47.0	36.6	29.1	23.4
45.9			49.6	50.0	50.7	51.4	50.0	47.4	45.0	42.3	36.6	29.1	23.4
52.5				42.1	42.3	41.7	40.1	40.1	39.7	37.5	34.8	29.1	23.4
59.1				34.6	34.8	34.2	33.3	34.2	33.1	31.5	31.7	28.2	23.4
65.6					29.1	28.7	30.0	28.7	27.6	28.2	27.1	26.5	23.1
72.2					24.9	25.6	25.6	24.3	24.9	23.8	23.8	23.8	21.4
78.7						22.7	22.0	21.4	21.4	20.7	21.2	20.3	19.8
85.3						19.8	19.2	19.6	18.5	19.0	18.3	17.4	17.4
91.9							16.8	17.2	16.8	16.5	15.9	15.0	15.0
98.4							15.0	15.2	15.2	14.6	13.9	12.8	13.0
105.0							14.1	13.4	13.4	12.8	12.1	11.2	11.2
111.5								11.9	11.9	11.2	10.6	9.7	9.7
118.1								10.8	10.6	9.9	9.3	8.4	8.4
124.7									9.5	8.8	8.2	7.1	7.1
131.2									8.4	7.7	7.1	6.2	6.2
137.8										6.8	6.2	5.1	5.1
144.4										6.0	5.3	4.4	4.4
150.9											4.6	3.5	3.5
157.5											4.0	2.9	2.9
164.0												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*



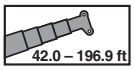


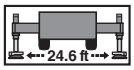


53,572 lbs **ASME**

lbs x 1,000

ft	42.0 ft*	42.0 ft	56.1 ft	70.2 ft	84.6 ft	98.8 ft	112.9 ft	127.0 ft	141.1 ft	155.5 ft	169.6 ft	183.7 ft	196.9 ft
8.9	264.6**												
9.8	238.1**	228.0**	198.4	198.4									
11.5	215.4	208.3	198.4	198.4	154.3								
13.1	196.7	191.8	191.4	190.5	154.3								
14.8	180.8	176.4	175.9	174.8	154.3	119.7							
16.4	166.9	162.7	162.3	161.2	154.3	113.1	97.0						
19.7	144.6	137.8	138.5	136.2	137.3	110.2	93.3	72.3					
23.0	127.2	118.6	119.3	119.0	118.2	108.7	84.7	72.3	59.7				
26.2	113.3	103.4	104.3	104.1	103.0	100.8	83.8	72.3	59.7	47.2			
29.5	97.4	91.3	91.9	91.7	88.6	86.6	78.9	66.8	59.7	47.2	36.6		
32.8	80.9	79.4	81.8	80.0	80.9	75.6	74.3	61.9	58.4	47.2	36.6	29.1	
36.1			70.1	70.5	70.5	66.8	66.4	57.8	54.5	47.2	36.6	29.1	23.4
39.4			61.1	61.9	61.5	62.4	59.3	54.0	50.9	47.0	36.6	29.1	23.4
45.9			48.5	48.5	50.3	49.8	48.1	45.0	43.4	42.3	36.6	29.1	23.4
52.5				40.6	40.8	40.1	38.8	38.6	37.5	35.5	34.8	29.1	23.4
59.1				33.3	33.5	32.8	32.4	32.8	31.7	30.6	30.0	28.2	23.4
65.6					28.0	27.6	28.7	27.3	26.9	27.1	25.6	26.0	23.1
72.2					23.8	25.1	24.5	23.1	23.8	22.7	23.8	22.5	21.4
78.7						21.8	20.9	21.2	20.5	20.7	20.3	19.4	19.2
85.3						19.0	18.3	18.7	18.3	18.1	17.6	16.5	16.5
91.9							16.1	16.5	16.3	15.9	15.2	14.1	14.1
98.4							15.0	14.6	14.3	13.9	13.2	12.1	12.1
105.0							13.4	12.8	12.8	12.1	11.5	10.6	10.6
111.5								11.5	11.2	10.6	9.9	9.0	9.0
118.1								10.4	9.9	9.3	8.6	7.7	7.7
124.7									8.8	8.2	7.5	6.6	6.6
131.2									7.9	7.3	6.6	5.5	5.5
137.8										6.2	5.7	4.6	4.6
144.4										5.5	4.9	4.0	4.0
150.9											4.2	3.1	3.1
157.5											3.5	2.4	2.4





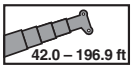


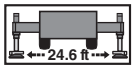
48,061 lbs **ASME**

lbs x 1,000

ft	42.0 ft*	42.0 ft	56.1 ft	70.2 ft	84.6 ft	98.8 ft	112.9 ft	127.0 ft	141.1 ft	155.5 ft	169.6 ft	183.7 ft	196.9 ft
8.9	264.6**												
9.8	236.8**	227.3**	198.4	198.4									
11.5	214.5	207.9	198.4	198.4	154.3								
13.1	195.8	190.9	190.5	189.6	154.3								
14.8	179.9	175.3	174.8	173.7	154.3	119.7							
16.4	166.2	160.9	160.5	159.4	154.3	113.1	97.0						
19.7	144.0	136.0	136.7	134.9	135.6	110.2	93.3	72.3					
23.0	127.2	117.1	117.7	117.5	116.4	108.7	84.7	72.3	59.7				
26.2	112.7	101.9	102.5	102.5	99.6	96.8	83.8	72.3	59.7	47.2			
29.5	92.6	89.7	90.4	90.4	88.6	83.1	78.9	66.8	59.7	47.2	36.6		
32.8	76.7	75.4	76.1	75.8	77.6	72.5	71.7	61.9	58.4	47.2	36.6	29.1	
36.1			65.0	64.8	67.0	66.1	63.5	57.8	54.5	47.2	36.6	29.1	23.4
39.4			56.4	56.2	58.2	60.2	56.4	52.7	50.7	47.0	36.6	29.1	23.4
45.9			45.6	47.4	47.8	47.2	45.6	42.5	42.8	40.3	36.6	29.1	23.4
52.5				37.9	38.1	37.5	36.2	37.5	35.5	33.5	33.3	29.1	23.4
59.1				31.1	31.3	30.6	32.0	30.6	29.5	30.2	28.2	28.2	23.4
65.6					26.0	25.6	26.9	25.6	26.2	25.1	25.6	24.5	23.1
72.2					22.9	21.6	22.7	21.4	22.3	22.7	22.0	20.9	20.7
78.7						18.3	19.4	18.3	19.6	19.4	18.7	17.9	17.9
85.3						15.7	17.4	16.1	17.4	16.8	16.1	15.0	15.0
91.9							15.9	15.0	15.2	14.6	13.9	12.8	12.8
98.4							13.9	13.4	13.2	12.6	11.9	11.0	11.0
105.0							12.3	11.9	11.7	11.0	10.4	9.3	9.5
111.5								10.6	10.1	9.5	9.0	7.9	7.9
118.1								9.3	9.0	8.4	7.7	6.8	6.8
124.7									7.9	7.3	6.6	5.7	5.7
131.2									7.1	6.4	5.7	4.6	4.6
137.8										5.5	4.9	3.7	3.7
144.4										4.6	4.0	3.1	3.1
150.9											3.3	2.4	2.4
157.5											2.9		

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



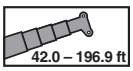


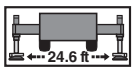


34,833 lbs **ASME**

lbs x 1,000

ft	42.0 ft*	42.0 ft	56.1 ft	70.2 ft	84.6 ft	98.8 ft	112.9 ft	127.0 ft	141.1 ft	155.5 ft	169.6 ft	183.7 ft	196.9 ft
8.9	264.6**												
9.8	234.4**	226.2**	198.4	198.4									
11.5	212.1	206.8	198.4	198.4	154.3								
13.1	193.6	188.5	188.1	187.2	154.3								
14.8	177.9	172.0	171.3	170.2	154.3	119.7							
16.4	164.2	156.5	156.1	154.8	154.3	113.1	97.0						
19.7	142.4	131.8	132.5	132.5	129.9	110.2	93.3	72.3					
23.0	125.2	113.1	113.8	113.5	104.9	101.2	84.7	72.3	59.7				
26.2	100.5	97.4	98.5	94.4	91.5	84.9	82.9	72.3	59.7	47.2			
29.5	80.7	78.9	81.8	80.9	78.3	75.4	71.2	66.1	59.7	47.2	36.6		
32.8	66.6	65.9	68.3	69.2	67.2	66.4	61.7	57.3	54.7	47.2	36.6	29.1	
36.1			58.2	59.1	60.8	58.2	54.2	51.8	49.2	47.0	36.6	29.1	23.4
39.4			50.7	52.7	52.9	51.6	48.1	45.9	44.8	41.7	36.6	29.1	23.4
45.9			38.4	40.1	40.6	39.9	39.0	38.8	36.2	35.7	33.5	29.1	23.4
52.5				31.7	32.0	32.8	32.8	31.5	31.7	29.8	30.0	27.8	23.4
59.1				25.8	26.7	27.6	26.9	27.3	26.2	26.7	25.4	23.4	22.9
65.6					22.9	22.9	22.5	22.9	22.9	22.3	21.6	19.8	19.4
72.2					19.4	19.4	20.1	19.4	19.2	18.7	18.1	17.0	16.5
78.7						16.5	17.0	16.5	16.3	15.9	15.2	14.1	14.1
85.3						14.3	14.8	14.3	13.9	13.4	12.8	11.7	11.7
91.9							12.8	12.3	12.1	11.5	10.8	9.7	9.7
98.4							11.0	10.6	10.4	9.7	9.0	8.2	8.2
105.0							9.7	9.3	9.0	8.4	7.7	6.6	6.8
111.5								7.9	7.7	7.1	6.4	5.5	5.5
118.1								7.1	6.6	6.0	5.3	4.4	4.4
124.7									5.7	5.1	4.4	3.5	3.5
131.2									4.9	4.2	3.5	2.6	2.6
137.8										3.5	2.9		
144.4										2.9	2.2		





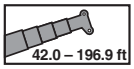


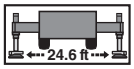
27,117 lbs **ASME**

lbs x 1,000

ft	42.0 ft*	42.0 ft	56.1 ft	70.2 ft	84.6 ft	98.8 ft	112.9 ft	127.0 ft	141.1 ft	155.5 ft	169.6 ft	183.7 ft	196.9 ft
8.9	264.6**												
9.8	232.8**	225.5**	198.4	198.4									
11.5	210.8	205.3	198.4	198.4	154.3								
13.1	192.5	187.0	186.5	185.2	154.3								
14.8	176.8	169.1	168.4	167.3	154.3	119.7							
16.4	163.4	153.7	154.5	152.1	153.4	113.1	97.0						
19.7	142.4	129.2	130.1	129.9	119.7	110.2	93.3	72.3					
23.0	120.2	110.5	111.3	104.9	101.0	93.0	84.7	72.3	59.7				
26.2	92.2	89.7	90.6	86.6	84.2	80.9	75.6	69.7	59.7	47.2			
29.5	73.6	72.5	73.4	72.3	70.8	69.7	64.4	59.5	56.7	47.2	36.6		
32.8	60.6	60.0	60.8	61.3	63.9	60.2	55.6	51.4	50.9	47.2	36.6	29.1	
36.1			53.6	55.6	55.8	52.7	48.7	48.3	45.0	41.9	36.6	29.1	23.4
39.4			45.4	47.4	47.6	46.5	43.0	43.0	39.9	39.5	36.6	29.1	23.4
45.9			34.2	35.9	36.2	35.7	37.0	34.6	34.4	32.4	31.5	29.1	23.4
52.5				28.2	29.3	28.0	29.3	28.0	28.4	28.2	26.7	24.7	23.4
59.1				22.9	24.5	22.5	24.7	23.4	24.5	23.8	22.3	20.5	20.1
65.6					20.3	19.2	20.9	20.5	20.1	19.6	19.0	17.2	17.0
72.2					17.0	17.2	17.6	17.2	16.8	16.3	15.7	14.6	14.3
78.7						14.6	15.0	14.6	14.1	13.7	13.0	11.9	11.9
85.3						12.3	12.8	12.3	12.1	11.5	10.8	9.7	9.7
91.9							11.0	10.6	10.1	9.7	9.0	7.9	7.9
98.4							9.5	9.0	8.6	8.2	7.5	6.4	6.4
105.0							8.2	7.7	7.5	6.8	6.2	5.1	5.3
111.5								6.6	6.2	5.7	5.1	4.0	4.0
118.1								5.7	5.3	4.6	4.0	3.1	3.1
124.7									4.4	3.7	3.1	2.2	2.2
131.2									3.7	3.1	2.4		
137.8										2.4			

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



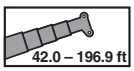


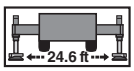


22,046 lbs **ASME**

lbs x 1,000

ft	42.0 ft*	42.0 ft	56.1 ft	70.2 ft	84.6 ft	98.8 ft	112.9 ft	127.0 ft	141.1 ft	155.5 ft	169.6 ft	183.7 ft	196.9 ft
8.9	264.6**												
9.8	231.9**	225.1**	198.4	198.4									
11.5	209.9	204.1	198.4	198.4	154.3								
13.1	191.6	185.0	184.5	183.4	154.3								
14.8	175.9	167.1	166.7	165.3	154.3	119.7							
16.4	162.7	151.9	152.8	150.1	146.6	113.1	97.0						
19.7	140.9	127.4	128.3	124.3	113.1	107.8	93.3	72.3					
23.0	113.5	108.9	107.1	99.2	95.7	87.7	83.8	72.3	59.7				
26.2	86.9	84.7	85.8	81.1	78.7	76.7	70.5	65.0	59.7	47.2			
29.5	69.2	68.3	69.2	67.2	69.4	65.0	60.0	55.3	52.5	47.2	36.6		
32.8	56.9	55.6	59.3	61.3	59.7	56.2	51.8	51.1	47.4	44.3	36.6	29.1	
36.1			49.6	51.6	52.0	48.9	45.4	45.0	41.7	41.0	36.6	29.1	23.4
39.4			42.1	44.1	44.3	43.2	43.0	39.9	37.7	36.6	34.0	29.1	23.4
45.9			31.5	33.3	33.5	32.8	34.4	32.0	31.7	31.3	29.5	27.3	23.4
52.5				26.0	27.8	25.6	27.6	26.0	27.6	26.0	24.5	22.5	21.8
59.1				20.9	22.5	21.4	23.1	22.7	22.5	21.8	20.5	18.7	18.3
65.6					18.5	18.7	19.2	18.7	18.5	17.9	17.2	15.7	15.2
72.2					15.4	15.7	16.1	15.7	15.4	14.8	14.1	13.0	12.8
78.7						13.2	13.4	13.0	12.8	12.3	11.7	10.6	10.6
85.3						11.0	11.5	11.0	10.8	10.1	9.5	8.6	8.6
91.9							9.7	9.3	9.0	8.6	7.9	6.8	6.8
98.4							8.4	7.9	7.7	7.1	6.4	5.5	5.5
105.0							7.3	6.6	6.4	5.7	5.1	4.2	4.2
111.5								5.7	5.3	4.9	4.2	3.1	3.1
118.1								4.9	4.4	3.7	3.1	2.2	2.2
124.7									3.7	3.1	2.4		
131.2									2.9	2.2			





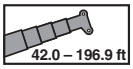


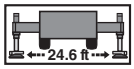
18,298 lbs **ASME**

lbs x 1,000

ft	42.0 ft*	42.0 ft	56.1 ft	70.2 ft	84.6 ft	98.8 ft	112.9 ft	127.0 ft	141.1 ft	155.5 ft	169.6 ft	183.7 ft	196.9 ft
8.9	264.6**												
9.8	231.3**	224.9**	198.4	198.4									
11.5	209.2	203.3	198.4	198.4	154.3								
13.1	190.9	183.4	183.0	181.9	154.3								
14.8	175.5	165.6	165.1	164.0	154.3	119.7							
16.4	162.0	150.6	151.2	149.0	140.2	113.1	97.0						
19.7	140.2	126.1	126.8	118.8	110.2	103.0	93.3	72.3					
23.0	108.2	104.3	104.5	95.2	91.1	87.3	80.2	72.3	59.7				
26.2	82.5	80.7	83.8	80.0	75.6	72.8	66.6	62.8	57.8	47.2			
29.5	65.7	64.6	67.9	66.8	65.7	61.5	57.3	54.0	50.9	47.2	36.6		
32.8	54.0	52.0	56.2	58.2	56.4	52.9	49.4	48.3	44.8	41.4	36.6	29.1	
36.1			46.7	48.7	48.9	46.1	45.4	42.3	41.0	38.6	35.9	29.1	23.4
39.4			39.5	41.4	41.7	40.8	40.8	37.9	37.0	34.6	31.7	29.1	23.4
45.9			29.3	31.1	32.6	33.1	32.2	32.2	31.1	29.3	27.8	25.6	23.4
52.5				24.3	26.0	26.0	26.7	26.0	25.8	24.3	22.7	20.9	20.3
59.1				19.4	20.9	21.2	21.6	21.2	20.9	20.3	19.0	17.2	16.8
65.6					17.2	17.4	17.9	17.4	17.2	16.5	15.9	14.3	13.9
72.2					14.3	14.3	14.8	14.3	14.1	13.4	12.8	11.9	11.5
78.7						12.1	12.3	11.9	11.7	11.2	10.6	9.5	9.5
85.3						10.1	10.6	10.1	9.7	9.3	8.6	7.5	7.5
91.9							8.8	8.4	8.2	7.5	6.8	6.0	6.0
98.4							7.5	7.1	6.8	6.2	5.5	4.6	4.6
105.0							6.4	6.0	5.7	5.1	4.4	3.3	3.5
111.5								4.9	4.6	4.0	3.3	2.4	2.4
118.1								4.2	3.7	3.1	2.4		
124.7									3.1	2.4			
131.2									2.4				

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



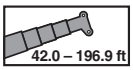


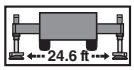


13,228 lbs **ASME**

lbs x 1,000

ft	42.0 ft*	42.0 ft	56.1 ft	70.2 ft	84.6 ft	98.8 ft	112.9 ft	127.0 ft	141.1 ft	155.5 ft	169.6 ft	183.7 ft	196.9 ft
8.9	264.6**												
9.8	230.2**	223.8**	198.4	198.4									
11.5	208.3	202.4	198.4	198.4	154.3								
13.1	190.3	181.4	181.0	179.9	154.3								
14.8	174.6	163.8	164.2	162.0	154.1	119.7							
16.4	161.4	148.6	149.3	147.7	131.8	113.1	97.0						
19.7	132.3	124.3	122.4	111.8	106.5	96.6	86.9	72.3					
23.0	101.4	98.1	95.9	87.7	84.4	81.6	74.5	67.9	59.7				
26.2	77.2	75.8	76.3	71.2	72.5	67.5	61.7	56.7	53.4	47.2			
29.5	61.3	59.3	62.8	64.2	60.8	56.9	52.2	51.6	47.4	43.9	36.6		
32.8	50.3	47.4	51.6	53.8	52.2	48.9	48.3	44.5	41.2	40.3	36.6	29.1	
36.1			42.8	44.8	45.2	42.5	42.3	39.0	38.4	35.5	32.8	29.1	23.4
39.4			36.2	37.9	38.4	37.5	37.5	34.4	34.8	33.3	31.3	28.9	23.4
45.9			26.7	28.7	30.2	28.0	30.9	29.1	28.7	26.9	25.1	23.1	22.5
52.5				22.0	23.6	24.0	24.5	24.0	23.6	22.0	20.7	18.7	18.3
59.1				17.4	19.0	19.2	19.6	19.2	19.0	18.3	17.0	15.4	15.0
65.6					15.4	15.7	16.1	15.7	15.4	14.8	14.1	12.6	12.3
72.2					12.8	12.8	13.2	12.8	12.6	12.1	11.2	10.4	10.1
78.7						10.6	11.0	10.6	10.4	9.7	9.0	8.2	8.2
85.3						8.8	9.3	8.8	8.6	7.9	7.3	6.4	6.4
91.9							7.7	7.3	7.1	6.4	5.7	4.9	4.9
98.4							6.4	6.0	5.7	5.1	4.4	3.5	3.5
105.0							5.5	4.9	4.6	4.0	3.3	2.4	
111.5								4.0	3.7	3.1	2.4		
118.1								3.3	2.9	2.2			
124.7									2.2				





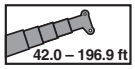


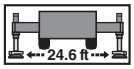
6,393 lbs **ASME**

lbs x 1,000

ft	42.0 ft*	42.0 ft	56.1 ft	70.2 ft	84.6 ft	98.8 ft	112.9 ft	127.0 ft	141.1 ft	155.5 ft	169.6 ft	183.7 ft	196.9 ft
8.9	243.6**												
9.8	228.4**	221.6**	198.4	198.4									
11.5	206.8	199.1	198.4	197.3	154.3								
13.1	188.5	177.9	177.5	176.4	154.3								
14.8	173.3	160.3	160.9	157.4	139.8	119.7							
16.4	160.1	145.3	145.9	134.3	119.5	110.2	97.0						
19.7	119.7	121.3	110.9	100.5	95.5	90.8	81.8	72.3					
23.0	91.3	88.8	84.7	77.4	78.5	72.5	65.7	59.7	56.0				
26.2	69.2	67.0	67.2	68.1	64.2	59.5	54.9	53.1	48.7	44.8			
29.5	54.7	51.4	56.0	56.7	53.8	50.0	49.4	45.2	43.2	40.6	36.6		
32.8	44.5	40.8	45.0	47.2	45.9	43.0	42.5	39.0	39.5	35.1	32.4	29.1	
36.1			37.0	39.0	39.5	37.3	37.3	35.3	35.1	32.8	30.6	28.2	23.4
39.4			31.1	33.3	35.1	32.4	34.4	32.6	31.1	29.1	27.1	24.9	23.4
45.9			22.5	24.5	26.2	26.5	27.1	26.0	24.9	23.1	21.6	19.6	19.0
52.5				18.7	20.3	20.5	21.2	20.7	20.3	18.7	17.4	15.7	15.2
59.1				14.6	16.1	16.3	16.8	16.3	16.1	15.4	14.1	12.6	12.1
65.6					13.0	13.0	13.4	13.2	12.8	12.3	11.5	10.1	9.7
72.2					10.4	10.6	11.0	10.6	10.4	9.7	9.0	7.9	7.7
78.7						8.6	9.0	8.6	8.4	7.7	7.1	6.0	6.0
85.3						7.1	7.3	7.1	6.6	6.2	5.5	4.4	4.4
91.9							6.0	5.5	5.3	4.6	4.2	3.1	
98.4							4.9	4.4	4.2	3.5	2.9		
105.0							4.0	3.5	3.1	2.6			
111.5								2.6	2.4				

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





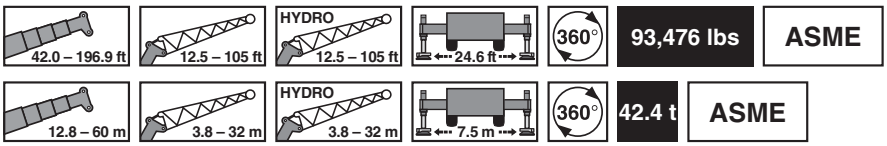


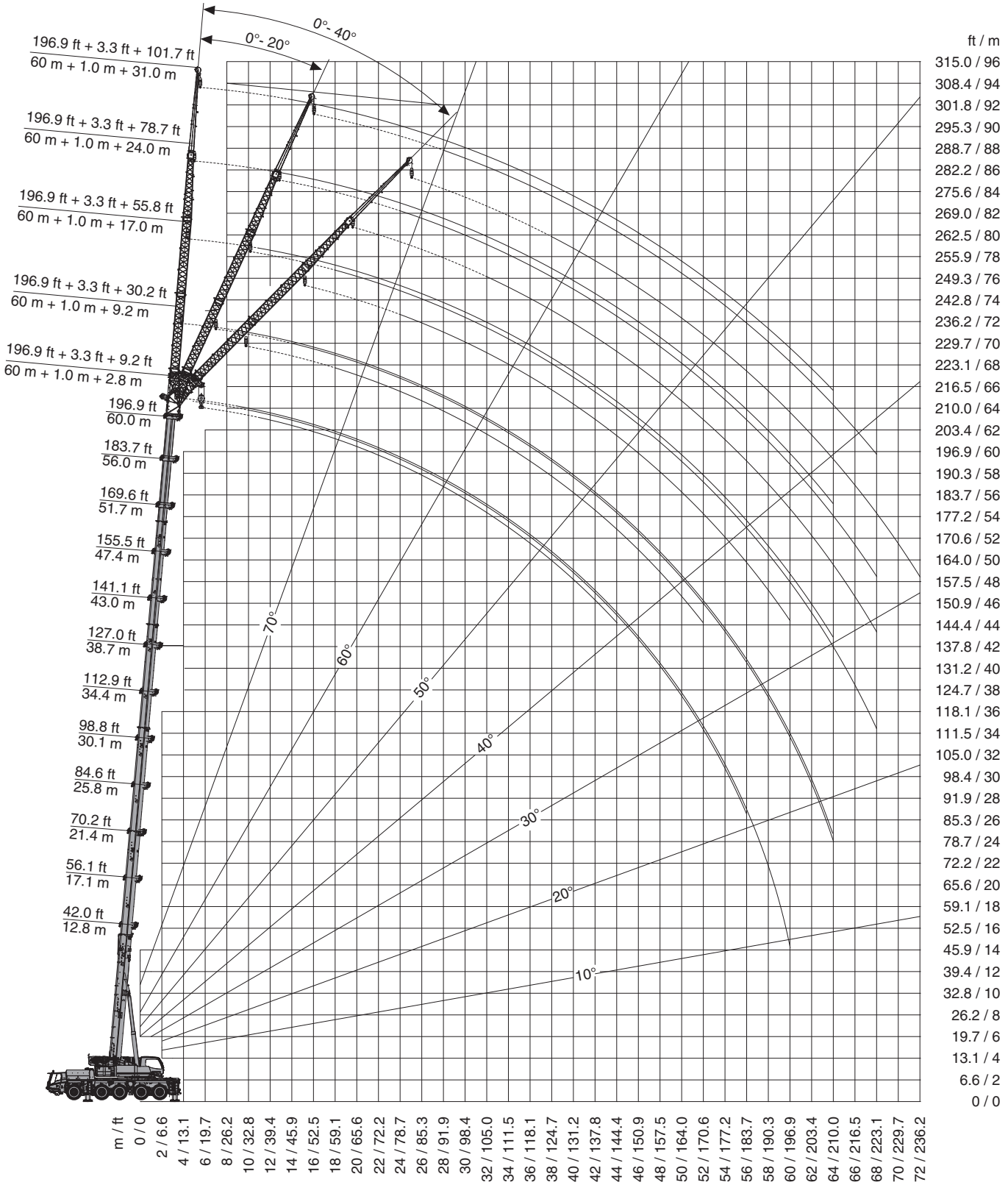
0 lbs **ASME**

lbs x 1,000

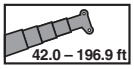
ft	42.0 ft*	42.0 ft	56.1 ft	70.2 ft	84.6 ft	98.8 ft	112.9 ft	127.0 ft	141.1 ft	155.5 ft	169.6 ft	183.7 ft	196.9 ft
8.9	242.3**												
9.8	227.3**	220.2**	198.4	198.4									
11.5	205.7	196.2	195.8	194.7	154.3								
13.1	187.6	175.3	174.8	172.0	153.7								
14.8	172.4	157.6	158.5	145.9	128.3	113.5							
16.4	149.7	142.6	137.8	123.2	110.2	101.6	89.5						
19.7	107.8	111.3	99.9	89.9	89.7	81.6	73.2	65.9					
23.0	81.8	81.1	75.4	75.6	70.5	64.8	59.1	56.9	50.9				
26.2	61.7	58.9	63.1	60.8	57.5	53.1	52.0	47.4	45.4	41.0			
29.5	48.5	44.8	49.4	50.5	47.8	44.5	44.1	40.8	40.8	35.7	32.8		
32.8	39.2	35.3	39.5	41.7	41.9	37.9	39.2	37.3	35.3	33.1	30.6	28.0	
36.1			32.4	34.6	36.6	33.7	34.6	32.6	31.1	28.9	26.9	24.5	23.4
39.4			26.9	29.1	30.9	31.1	30.4	28.9	27.3	25.6	23.6	21.4	20.7
45.9			19.2	21.2	22.9	23.1	23.6	22.9	21.8	20.1	18.5	16.8	16.1
52.5				15.9	17.4	17.9	18.3	17.9	17.4	16.1	14.8	13.0	12.6
59.1				12.1	13.7	13.9	14.3	13.9	13.7	13.0	11.9	10.1	9.9
65.6					10.8	11.0	11.5	11.0	10.8	10.1	9.5	7.9	7.7
72.2					8.6	8.8	9.0	8.8	8.4	7.9	7.3	6.2	6.0
78.7						6.8	7.3	6.8	6.6	6.0	5.3	4.2	
85.3						5.5	5.7	5.3	5.1	4.4	3.7		
91.9							4.6	4.2	3.7	3.3			
98.4							3.5	3.1	2.6	2.2			
105.0							2.6	2.2					

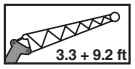
Working range · Rayon de travail · Zona de trabajo



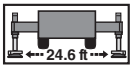


Lifting capacities · Charges de levage · Cargas







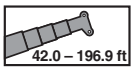


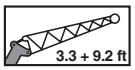


93,476 lbs **ASME**

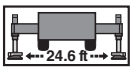
lbs x 1,000

ft	42.0 ft + 3.3 ft + 9.2 ft			84.6 ft + 3.3 ft + 9.2 ft			127.0 ft + 3.3 ft + 9.2 ft			169.6 ft + 3.3 ft + 9.2 ft			196.9 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	72.1													
11.5	88.2	69.0	55.6	77.2											
13.1	88.2	66.1	54.0	77.2											
14.8	85.8	63.7	52.5	77.2	75.8										
16.4	81.1	61.3	51.1	77.2	73.9	56.9	45.2								
19.7	73.4	57.3	48.9	77.2	70.3	55.1	44.3	37.7							
23.0	67.0	53.8	47.0	77.2	67.0	53.4	41.7	37.7	34.8	21.6					
26.2	61.7	50.9	45.2	77.2	64.2	51.8	39.5	36.2	33.5	21.6	21.6				
29.5	57.3	48.5	43.9	77.2	61.5	50.5	37.5	34.6	32.2	21.6	21.6	21.6	17.2		
32.8	53.6	46.3	43.0	77.2	59.1	49.2	35.7	33.1	30.9	21.6	21.6	21.6	17.2	17.2	
36.1	50.5	44.5	42.3	73.9	57.1	48.1	34.2	32.0	29.8	21.6	21.6	21.2	17.2	17.2	17.2
39.4	47.6	43.2		70.1	55.1	47.0	32.8	30.6	28.9	21.6	21.4	20.5	17.2	17.2	17.2
45.9	44.1			61.7	51.6	45.2	30.4	28.7	27.1	20.7	20.1	19.4	17.2	17.2	17.2
52.5				50.9	48.9	43.9	28.7	26.9	25.6	19.4	19.0	18.3	17.2	16.8	16.3
59.1				42.3	42.8	42.8	26.9	25.6	24.5	18.3	17.9	17.2	16.5	15.9	15.4
65.6				35.7	36.2	36.4	25.1	24.3	23.4	17.2	16.8	16.3	15.7	15.2	14.8
72.2				30.6	30.9		23.4	23.1	22.5	16.1	15.7	15.4	14.8	14.3	14.1
78.7				26.5	26.7		21.8	21.6	21.4	15.0	14.8	14.6	14.1	13.7	13.4
85.3				24.9			20.5	20.3	20.3	14.1	13.9	13.7	13.4	13.0	13.0
91.9							19.4	19.2	19.2	13.4	13.2	13.0	12.8	12.6	12.3
98.4							18.3	18.3	18.1	12.6	12.6	12.3	12.1	11.9	11.7
105.0							17.2	17.4	17.2	12.1	11.9	11.7	11.5	11.2	11.2
111.5							15.2	15.4		11.5	11.2	11.2	11.0	10.8	10.8
118.1							13.7	13.9		11.0	10.8	10.8	10.4	10.4	10.1
124.7							12.1	12.3		10.4	10.4	10.4	9.9	9.9	9.9
131.2							9.3			10.1	9.9	9.9	9.7	9.5	9.5
144.4										9.3	9.3		8.2	8.4	8.4
157.5										7.7	7.7		6.6	6.8	
170.6										6.2			5.1	5.3	
183.7													3.7	3.7	
196.9													2.6		







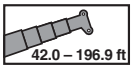


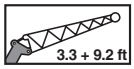


70,107 lbs **ASME**

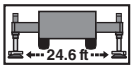
lbs x 1,000

ft	42.0 ft + 3.3 ft + 9.2 ft			84.6 ft + 3.3 ft + 9.2 ft			127.0 ft + 3.3 ft + 9.2 ft			169.6 ft + 3.3 ft + 9.2 ft			196.9 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	70.1													
11.5	88.2	67.2	55.1												
13.1	87.1	64.6	53.6												
14.8	82.2	62.2	52.2	77.2											
16.4	78.0	60.0	50.9	77.2											
19.7	70.8	56.0	48.7	77.2	67.0	53.8									
23.0	64.8	52.9	46.7	77.2	64.2	52.2									
26.2	60.0	50.0	45.2	77.2	61.5	50.9	39.5								
29.5	55.8	47.6	43.9	77.2	59.1	49.6	37.5	34.6	32.2						
32.8	52.2	45.6	43.0	76.1	57.1	48.5	35.7	33.1	30.9						
36.1	49.2	44.1	42.5	72.1	55.1	47.4	34.2	32.0	29.8	24.5					
39.4	46.7	43.0		66.4	53.4	46.3	32.8	30.6	28.9	24.5	24.5				
45.9	43.4			51.8	50.3	44.8	30.4	28.7	27.1	23.8	22.9	22.3	17.2	17.2	
52.5				43.9	43.2	43.0	28.7	26.9	25.6	22.0	21.4	20.9	17.0	16.5	16.1
59.1				36.6	36.8	37.3	26.9	25.6	24.5	20.5	19.8	19.4	16.1	15.7	15.2
65.6				30.9	31.1	31.3	25.1	24.3	23.4	19.0	18.5	18.3	15.2	14.8	14.6
72.2				26.5	26.7		23.4	23.1	22.5	17.9	17.4	17.2	14.3	14.1	13.9
78.7				24.7	24.5		21.8	21.6	21.4	16.8	16.5	16.1	13.7	13.4	13.2
85.3				21.6			19.4	19.8	20.1	15.9	15.4	15.2	13.0	12.8	12.6
91.9							16.8	17.2	17.4	15.0	14.8	14.6	12.6	12.3	12.1
98.4							15.4	15.4	15.2	14.3	14.1	13.9	11.9	11.7	11.5
105.0							13.4	13.7	13.7	12.3	12.6	12.8	11.2	11.0	11.0
111.5							12.3	12.1		11.5	11.2	11.2	10.8	10.6	10.6
118.1							11.5	11.7		10.8	10.8	10.8	9.7	9.9	9.9
124.7							10.4	10.4		9.5	9.7	9.7	8.4	8.6	8.8
131.2							9.3			8.4	8.4	8.4	7.3	7.5	7.5
144.4										6.4	6.4		5.3	5.5	5.5
157.5										4.6	4.9		3.7	3.7	3.7
170.6										3.3			2.4	2.4	







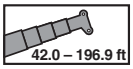


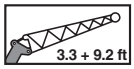


48,061 lbs **ASME**

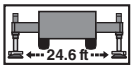
lbs x 1,000

ft	42.0 ft + 3.3 ft + 9.2 ft			84.6 ft + 3.3 ft + 9.2 ft			127.0 ft + 3.3 ft + 9.2 ft			169.6 ft + 3.3 ft + 9.2 ft			196.9 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	72.1													
11.5	88.2	69.0	55.6	77.2											
13.1	88.2	66.1	54.0	77.2											
14.8	85.8	63.7	52.5	77.2	75.8										
16.4	81.1	61.3	51.1	77.2	73.9	56.9	45.2								
19.7	73.4	57.3	48.9	77.2	70.3	55.1	44.3	37.7							
23.0	67.0	53.8	47.0	77.2	67.0	53.4	41.7	37.7	34.8	21.6					
26.2	61.7	50.9	45.2	77.2	64.2	51.8	39.5	36.2	33.5	21.6	21.6				
29.5	57.3	48.5	43.9	77.2	61.5	50.5	37.5	34.6	32.2	21.6	21.6	21.6	17.2		
32.8	53.6	46.3	43.0	72.5	59.1	49.2	35.7	33.1	30.9	21.6	21.6	21.6	17.2	17.2	
36.1	50.5	44.5	42.3	62.4	57.1	48.1	34.2	32.0	29.8	21.6	21.6	21.2	17.2	17.2	17.2
39.4	47.6	43.2		54.0	54.9	47.0	32.8	30.6	28.9	21.6	21.4	20.5	17.2	17.2	17.2
45.9	44.1			41.7	42.5	43.2	30.4	28.7	27.1	20.7	20.1	19.4	17.2	17.2	17.2
52.5				33.3	33.7	34.4	28.7	26.9	25.6	19.4	19.0	18.3	17.2	16.8	16.3
59.1				28.9	27.6	27.8	26.9	25.6	24.5	18.3	17.9	17.2	16.5	15.9	15.4
65.6				26.2	26.0	25.4	24.0	24.3	23.4	17.2	16.8	16.3	15.7	15.2	14.8
72.2				22.3	22.7		19.8	20.5	20.7	16.1	15.7	15.4	14.8	14.3	14.1
78.7				19.0	19.2		16.5	17.2	17.4	15.0	14.8	14.6	14.1	13.7	13.4
85.3				16.3			13.9	14.3	14.6	14.1	13.9	13.7	13.4	13.0	13.0
91.9							12.3	12.3	12.3	13.0	13.2	13.0	12.1	12.3	12.3
98.4							11.7	11.7	11.5	11.2	11.5	11.7	10.1	10.4	10.6
105.0							11.0	10.8	10.8	9.5	9.7	9.9	8.6	8.8	9.0
111.5							9.9	9.9		8.2	8.4	8.4	7.1	7.3	7.5
118.1							8.6	8.6		6.8	7.1	7.3	6.0	6.2	6.2
124.7							7.5	7.5		5.7	6.0	6.0	4.9	5.1	5.1
131.2							6.6			4.9	5.1	5.1	3.7	4.0	4.2
144.4										3.1	3.3		2.2	2.4	2.4
157.5											2.0				







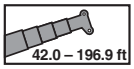


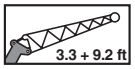


22,046 lbs **ASME**

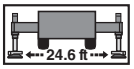
lbs x 1,000

ft	42.0 ft + 3.3 ft + 9.2 ft			84.6 ft + 3.3 ft + 9.2 ft			127.0 ft + 3.3 ft + 9.2 ft			169.6 ft + 3.3 ft + 9.2 ft			196.9 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	72.1													
11.5	88.2	69.0	55.6	77.2											
13.1	88.2	66.1	54.0	77.2											
14.8	85.8	63.7	52.5	77.2	75.8										
16.4	81.1	61.3	51.1	77.2	73.9	56.9	45.2								
19.7	73.4	57.3	48.9	77.2	70.3	55.1	44.3	37.7							
23.0	67.0	53.8	47.0	77.2	67.0	53.4	41.7	37.7	34.8	21.6					
26.2	61.7	50.9	45.2	72.5	64.2	51.8	39.5	36.2	33.5	21.6	21.6				
29.5	57.3	48.5	43.9	60.8	61.5	50.5	37.5	34.6	32.2	21.6	21.6	21.6	17.2		
32.8	53.6	46.3	43.0	51.8	53.4	49.2	35.7	33.1	30.9	21.6	21.6	21.6	17.2	17.2	
36.1	48.7	44.5	42.3	44.8	46.1	47.4	34.2	32.0	29.8	21.6	21.6	21.2	17.2	17.2	17.2
39.4	42.1	42.5		39.0	40.3	41.2	32.8	30.6	28.9	21.6	21.4	20.5	17.2	17.2	17.2
45.9	31.7			33.1	30.9	30.9	29.3	28.7	27.1	20.7	20.1	19.4	17.2	17.2	17.2
52.5				26.7	27.3	27.8	23.6	24.5	24.9	19.4	19.0	18.3	17.2	16.8	16.3
59.1				21.4	22.0	22.3	19.0	19.6	20.1	18.3	17.9	17.2	16.5	15.9	15.4
65.6				18.7	19.0	18.7	16.8	16.5	16.3	16.1	16.5	16.3	13.9	14.6	14.8
72.2				15.4	15.7		15.2	15.2	15.0	13.4	13.9	14.1	11.5	11.9	12.3
78.7				13.0	13.0		12.6	13.0	13.2	10.8	11.2	11.5	9.5	9.9	10.1
85.3				11.0			10.6	10.8	11.0	8.8	9.0	9.3	7.7	8.2	8.4
91.9							8.8	9.0	9.3	7.1	7.3	7.5	6.0	6.4	6.6
98.4							7.3	7.5	7.7	5.5	6.0	6.0	4.6	4.9	5.1
105.0							6.2	6.2	6.4	4.4	4.6	4.9	3.3	3.5	3.7
111.5							5.1	5.1		3.3	3.5	3.5			
118.1							4.2	4.2		2.4	2.6	2.6			
124.7							3.3	3.3							
131.2							2.6								







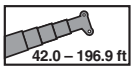


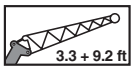


13,228 lbs **ASME**

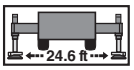
lbs x 1,000

ft	42.0 ft + 3.3 ft + 9.2 ft			84.6 ft + 3.3 ft + 9.2 ft			127.0 ft + 3.3 ft + 9.2 ft			169.6 ft + 3.3 ft + 9.2 ft			196.9 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	72.1													
11.5	88.2	69.0	55.6	77.2											
13.1	88.2	66.1	54.0	77.2											
14.8	85.8	63.7	52.5	77.2	75.8										
16.4	81.1	61.3	51.1	77.2	73.9	56.9	45.2								
19.7	73.4	57.3	48.9	77.2	70.3	55.1	44.3	37.7							
23.0	67.0	53.8	47.0	77.2	67.0	53.4	41.7	37.7	34.8	21.6					
26.2	61.7	50.9	45.2	63.1	64.2	51.8	39.5	36.2	33.5	21.6	21.6				
29.5	57.3	48.5	43.9	52.7	54.5	50.5	37.5	34.6	32.2	21.6	21.6	21.6	17.2		
32.8	51.1	46.3	43.0	44.8	46.1	47.4	35.7	33.1	30.9	21.6	21.6	21.6	17.2	17.2	
36.1	43.2	43.9	42.3	38.4	39.7	40.8	34.2	32.0	29.8	21.6	21.6	21.2	17.2	17.2	17.2
39.4	36.6	37.3		35.9	34.4	35.3	31.5	30.6	28.9	21.6	21.4	20.5	17.2	17.2	17.2
45.9	26.9			29.3	30.2	29.5	24.7	25.6	26.2	20.7	20.1	19.4	17.2	17.2	17.2
52.5				22.7	23.4	23.6	19.8	20.5	20.9	19.4	19.0	18.3	17.0	16.8	16.3
59.1				19.2	19.6	19.8	18.1	17.9	17.6	15.9	16.3	16.8	13.7	14.3	14.8
65.6				15.7	15.9	16.1	15.2	15.7	16.1	13.0	13.4	13.9	11.0	11.5	11.9
72.2				12.8	13.0		12.6	12.8	13.0	10.6	11.0	11.5	8.8	9.3	9.7
78.7				10.6	10.6		10.1	10.6	10.6	8.4	8.8	9.0	7.1	7.5	7.7
85.3				8.6			8.4	8.6	8.8	6.6	6.8	7.1	5.5	6.0	6.2
91.9							6.8	7.1	7.1	5.1	5.3	5.5		4.4	4.6
98.4							5.5	5.7	5.7	3.7	4.0	4.2			
105.0							4.4	4.4	4.6	2.6	2.9	3.1			
111.5							3.3	3.5				2.0			
118.1							2.6	2.6							







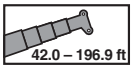


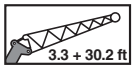


6,393 lbs **ASME**

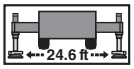
lbs x 1,000

ft	42.0 ft + 3.3 ft + 9.2 ft			84.6 ft + 3.3 ft + 9.2 ft			127.0 ft + 3.3 ft + 9.2 ft			169.6 ft + 3.3 ft + 9.2 ft			196.9 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	72.1													
11.5	88.2	69.0	55.6	77.2											
13.1	88.2	66.1	54.0	77.2											
14.8	85.8	63.7	52.5	77.2	75.8										
16.4	81.1	61.3	51.1	77.2	73.9	56.9	45.2								
19.7	73.4	57.3	48.9	77.2	70.3	55.1	44.3	37.7							
23.0	67.0	53.8	47.0	68.1	67.0	53.4	41.7	37.7	34.8	21.6					
26.2	61.7	50.9	45.2	55.3	57.3	51.8	39.5	36.2	33.5	21.6	21.6				
29.5	55.3	48.5	43.9	45.9	47.6	49.2	37.5	34.6	32.2	21.6	21.6	21.6	17.2		
32.8	45.6	46.3	43.0	39.5	40.1	41.4	35.7	33.1	30.9	21.6	21.6	21.6	17.2	17.2	
36.1	37.7	38.6	39.0	37.7	34.8	35.3	30.9	32.0	29.8	21.6	21.6	21.2	17.2	17.2	17.2
39.4	31.5	32.2		34.2	33.3	31.5	26.9	28.0	28.9	21.6	21.4	20.5	17.2	17.2	17.2
45.9	22.9			25.4	26.0	26.5	22.0	21.8	22.5	20.3	20.1	19.4	17.2	17.2	17.2
52.5				20.7	21.2	21.4	19.8	19.6	19.4	16.1	16.8	17.4	13.9	14.6	15.2
59.1				16.3	16.8	17.0	16.1	16.5	17.0	13.0	13.7	13.9	11.0	11.5	11.9
65.6				13.0	13.2	13.4	12.8	13.2	13.4	10.4	11.0	11.2	8.6	9.0	9.5
72.2				10.6	10.8		10.1	10.6	10.8	8.4	8.8	9.0	6.6	7.1	7.5
78.7				8.4	8.6		8.2	8.4	8.6	6.4	6.8	7.1	5.1	5.3	5.7
85.3				6.8			6.4	6.8	6.8	4.6	5.1	5.3			
91.9							5.1	5.3	5.3	3.3	3.5	3.7			
98.4							4.0	4.0	4.2						
105.0							2.9	3.1	3.1						
111.5							2.0	2.2							







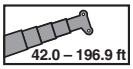


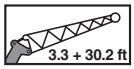


93,476 lbs **ASME**

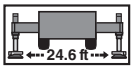
lbs x 1,000

ft	42.0 ft + 3.3 ft + 30.2 ft			84.6 ft + 3.3 ft + 30.2 ft			127.0 ft + 3.3 ft + 30.2 ft			169.6 ft + 3.3 ft + 30.2 ft			196.9 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	33.1														
11.5	33.1			33.1											
13.1	33.1			33.1											
14.8	33.1			33.1			26.2								
16.4	33.1	31.1		33.1			26.2								
19.7	33.1	28.7		33.1			26.2								
23.0	33.1	26.7		33.1	32.4		26.2			14.1					
26.2	33.1	24.9	20.1	33.1	30.6		26.2	26.2		14.1					
29.5	30.4	23.4	19.2	33.1	29.1	21.2	26.2	25.6		14.1					
32.8	27.8	22.0	18.5	33.1	27.8	20.5	26.2	24.7		14.1			12.6		
36.1	25.1	20.7	17.6	33.1	26.5	20.1	26.2	23.6	19.2	14.1	14.1		12.6		
39.4	22.9	19.8	17.2	33.1	25.4	19.4	26.2	22.7	19.2	14.1	14.1		12.6		
45.9	19.6	18.1	16.1	33.1	23.4	18.3	25.6	21.2	19.0	14.1	14.1	14.1	12.6	12.6	
52.5	17.2	16.8	15.4	30.2	21.6	17.4	24.0	19.8	17.9	14.1	14.1	13.4	12.6	12.6	
59.1	15.2	15.7		27.1	20.3	16.8	22.3	18.7	17.0	14.1	13.9	12.8	12.6	12.3	11.7
65.6	13.4			24.5	19.0	16.1	20.7	17.6	16.1	14.1	13.0	12.1	12.6	11.9	11.0
72.2				21.8	17.9	15.7	19.6	16.8	15.4	13.9	12.6	11.7	12.6	11.2	10.6
78.7				19.8	17.2	15.2	18.5	15.9	14.8	13.2	11.9	11.2	11.9	10.8	10.1
85.3				18.1	16.3	15.0	17.4	15.2	14.3	12.6	11.5	10.8	11.5	10.4	9.9
91.9				16.5	15.7	14.1	16.8	14.8	13.9	11.9	11.0	10.4	11.0	9.9	9.5
98.4				15.4	15.2		15.9	14.1	13.4	11.2	10.6	9.9	10.4	9.7	9.3
105.0				14.8	15.0		15.4	13.7	13.0	10.8	10.1	9.7	9.9	9.3	8.8
111.5							14.8	13.2	12.8	10.4	9.9	9.5	9.7	9.0	8.6
118.1							14.3	13.0	12.6	9.9	9.5	9.3	9.3	8.8	8.4
124.7							13.0	12.6	12.3	9.5	9.0	8.8	8.8	8.4	8.2
131.2							11.7	12.1		9.0	8.8	8.6	8.6	8.2	7.9
144.4							9.5	9.7		8.4	8.2	7.9	7.9	7.5	7.3
157.5										7.7	7.5	7.5	6.8	6.6	6.6
170.6										6.6	6.8		5.5	6.0	6.0
183.7										5.3	5.5		4.2	4.6	
196.9													3.1	3.3	
210.0													2.0	2.2	







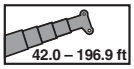


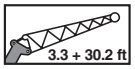


70,107 lbs **ASME**

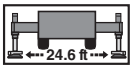
lbs x 1,000

ft	42.0 ft + 3.3 ft + 30.2 ft			84.6 ft + 3.3 ft + 30.2 ft			127.0 ft + 3.3 ft + 30.2 ft			169.6 ft + 3.3 ft + 30.2 ft			196.9 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	33.1														
11.5	33.1														
13.1	33.1			33.1											
14.8	33.1			33.1											
16.4	33.1	33.1		33.1											
19.7	33.1	30.4		33.1											
23.0	33.1	28.0		33.1			26.2								
26.2	33.1	26.0	20.5	33.1	31.1		26.2								
29.5	32.6	24.3	19.6	33.1	29.5		26.2								
32.8	29.8	22.7	18.7	33.1	28.0	20.7	26.2			15.4					
36.1	27.3	21.4	17.9	33.1	26.7	20.1	26.2	23.6		15.4					
39.4	25.1	20.3	17.2	33.1	25.6	19.4	26.2	22.7		15.4			12.6		
45.9	21.6	18.3	16.1	33.1	23.4	18.3	25.6	21.2	19.0	15.4	15.4		12.6		
52.5	18.7	16.8	15.2	30.6	21.6	17.4	24.0	19.8	17.9	15.4	15.4		12.6		
59.1	16.5	15.4		27.3	20.3	16.8	22.3	18.7	17.0	15.4	15.4	14.6	12.6	12.1	
65.6	14.8	14.8		24.5	19.0	16.1	20.7	17.6	16.1	15.4	15.2	13.9	12.6	11.7	10.8
72.2				22.0	17.9	15.4	19.6	16.8	15.4	15.4	14.6	13.4	12.1	11.0	10.4
78.7				20.1	17.0	15.0	18.5	15.9	14.8	15.0	13.9	12.8	11.7	10.6	9.9
85.3				18.5	16.1	14.8	17.4	15.2	14.3	14.3	13.2	12.3	11.0	10.1	9.7
91.9				17.0	15.4	14.6	16.8	14.8	13.9	13.7	12.8	12.1	10.6	9.7	9.3
98.4				15.9	15.0		15.4	14.1	13.4	13.0	12.1	11.7	10.1	9.5	9.0
105.0				14.8	14.8		13.7	13.7	13.0	12.3	11.7	11.2	9.7	9.0	8.6
111.5							12.6	12.6	12.8	11.2	11.2	10.8	9.3	8.8	8.4
118.1							11.0	11.7	11.7	9.9	10.8	10.4	8.8	8.4	8.2
124.7							9.9	10.4	10.6	9.5	9.3	9.9	8.6	8.2	7.9
131.2							9.5	9.3		8.8	8.8	8.6	7.7	7.9	7.7
144.4							7.7	7.9		6.8	7.3	7.7	5.7	6.4	6.8
157.5										5.1	5.5	5.7	4.2	4.6	5.1
170.6										3.7	4.2		2.6	3.3	3.5
183.7										2.6	2.9			2.0	







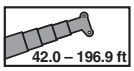


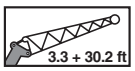


48,061 lbs **ASME**

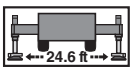
lbs x 1,000

ft	42.0 ft + 3.3 ft + 30.2 ft			84.6 ft + 3.3 ft + 30.2 ft			127.0 ft + 3.3 ft + 30.2 ft			169.6 ft + 3.3 ft + 30.2 ft			196.9 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	33.1														
11.5	33.1			33.1											
13.1	33.1			33.1											
14.8	33.1			33.1			26.2								
16.4	33.1	31.1		33.1			26.2								
19.7	33.1	28.7		33.1			26.2								
23.0	33.1	26.7		33.1	32.4		26.2			14.1					
26.2	33.1	24.9	20.1	33.1	30.6		26.2	26.2		14.1					
29.5	30.4	23.4	19.2	33.1	29.1	21.2	26.2	25.6		14.1					
32.8	27.8	22.0	18.5	33.1	27.8	20.5	26.2	24.7		14.1			12.6		
36.1	25.1	20.7	17.6	33.1	26.5	20.1	26.2	23.6	19.2	14.1	14.1		12.6		
39.4	22.9	19.8	17.2	33.1	25.4	19.4	26.2	22.7	19.2	14.1	14.1		12.6		
45.9	19.6	18.1	16.1	33.1	23.4	18.3	25.6	21.2	19.0	14.1	14.1	14.1	12.6	12.6	
52.5	17.2	16.8	15.4	30.2	21.6	17.4	24.0	19.8	17.9	14.1	14.1	13.4	12.6	12.6	
59.1	15.2	15.7		27.1	20.3	16.8	22.3	18.7	17.0	14.1	13.9	12.8	12.6	12.3	11.7
65.6	13.4			24.3	19.0	16.1	20.7	17.6	16.1	14.1	13.0	12.1	12.6	11.9	11.0
72.2				20.1	17.9	15.7	19.6	16.8	15.4	13.9	12.6	11.7	12.6	11.2	10.6
78.7				17.9	17.2	15.2	17.4	15.9	14.8	13.2	11.9	11.2	11.9	10.8	10.1
85.3				17.0	15.2	15.0	14.8	15.2	14.3	12.6	11.5	10.8	11.5	10.4	9.9
91.9				15.4	14.8	14.1	12.6	13.7	13.9	11.9	11.0	10.4	11.0	9.9	9.5
98.4				13.7	14.1		11.0	11.7	12.8	11.2	10.6	9.9	10.4	9.7	9.3
105.0				11.9	12.3		10.4	10.1	10.8	10.1	10.1	9.7	9.0	9.3	8.8
111.5							9.7	9.5	9.5	8.6	9.5	9.5	7.5	8.6	8.6
118.1							9.0	9.0	9.0	7.5	8.2	8.8	6.4	7.3	7.9
124.7							8.2	8.6	8.4	6.4	7.1	7.5	5.3	6.0	6.6
131.2							7.3	7.5		5.3	6.0	6.4	4.2	5.1	5.5
144.4							5.5	5.7		3.7	4.2	4.6	2.6	3.3	3.7
157.5										2.4	2.6	2.9			2.2







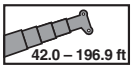


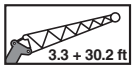


22,046 lbs **ASME**

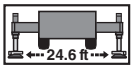
lbs x 1,000

ft	42.0 ft + 3.3 ft + 30.2 ft			84.6 ft + 3.3 ft + 30.2 ft			127.0 ft + 3.3 ft + 30.2 ft			169.6 ft + 3.3 ft + 30.2 ft			196.9 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	33.1														
11.5	33.1			33.1											
13.1	33.1			33.1											
14.8	33.1			33.1			26.2								
16.4	33.1	31.1		33.1			26.2								
19.7	33.1	28.7		33.1			26.2								
23.0	33.1	26.7		33.1	32.4		26.2			14.1					
26.2	33.1	24.9	20.1	33.1	30.6		26.2	26.2		14.1					
29.5	30.4	23.4	19.2	33.1	29.1	21.2	26.2	25.6		14.1					
32.8	27.8	22.0	18.5	33.1	27.8	20.5	26.2	24.7		14.1			12.6		
36.1	25.1	20.7	17.6	33.1	26.5	20.1	26.2	23.6	19.2	14.1	14.1		12.6		
39.4	22.9	19.8	17.2	33.1	25.4	19.4	26.2	22.7	19.2	14.1	14.1		12.6		
45.9	19.6	18.1	16.1	31.1	23.4	18.3	25.6	21.2	19.0	14.1	14.1	14.1	12.6	12.6	
52.5	17.2	16.8	15.4	24.3	21.6	17.4	23.4	19.8	17.9	14.1	14.1	13.4	12.6	12.6	
59.1	15.2	15.7		22.0	20.3	16.8	19.4	18.7	17.0	14.1	13.9	12.8	12.6	12.3	11.7
65.6	13.4			19.0	17.9	16.1	15.9	17.6	16.1	14.1	13.0	12.1	12.6	11.9	11.0
72.2				15.7	16.8	15.4	14.8	14.3	15.4	13.2	12.6	11.7	11.2	11.2	10.6
78.7				13.7	14.1	14.8	13.4	13.0	13.2	11.2	11.9	11.2	9.3	10.8	10.1
85.3				12.1	12.1	12.3	11.2	12.3	11.7	9.3	10.6	10.8	7.7	9.0	9.9
91.9				10.4	10.8	11.0	9.5	10.4	11.0	7.7	8.8	9.7	6.2	7.5	8.4
98.4				8.8	9.3		8.2	8.8	9.5	6.2	7.3	7.9	5.1	6.2	7.1
105.0				7.7	7.9		6.8	7.5	7.9	4.9	6.0	6.6	3.7	4.9	5.7
111.5							5.7	6.4	6.6	3.7	4.6	5.3		3.7	4.4
118.1							4.9	5.3	5.5	2.9	3.7	4.2			3.3
124.7							4.0	4.4	4.6	2.0	2.6	3.3			
131.2							3.1	3.5			2.0	2.4			
144.4							2.0	2.2							







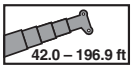


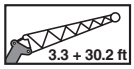


13,228 lbs **ASME**

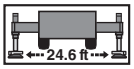
lbs x 1,000

ft	42.0 ft + 3.3 ft + 30.2 ft			84.6 ft + 3.3 ft + 30.2 ft			127.0 ft + 3.3 ft + 30.2 ft			169.6 ft + 3.3 ft + 30.2 ft			196.9 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	33.1														
11.5	33.1			33.1											
13.1	33.1			33.1											
14.8	33.1			33.1			26.2								
16.4	33.1	31.1		33.1			26.2								
19.7	33.1	28.7		33.1			26.2								
23.0	33.1	26.7		33.1	32.4		26.2			14.1					
26.2	33.1	24.9	20.1	33.1	30.6		26.2	26.2		14.1					
29.5	30.4	23.4	19.2	33.1	29.1	21.2	26.2	25.6		14.1					
32.8	27.8	22.0	18.5	33.1	27.8	20.5	26.2	24.7		14.1			12.6		
36.1	25.1	20.7	17.6	33.1	26.5	20.1	26.2	23.6	19.2	14.1	14.1		12.6		
39.4	22.9	19.8	17.2	33.1	25.4	19.4	26.2	22.7	19.2	14.1	14.1		12.6		
45.9	19.6	18.1	16.1	26.5	23.4	18.3	24.3	21.2	19.0	14.1	14.1	14.1	12.6	12.6	
52.5	17.2	16.8	15.4	24.0	21.6	17.4	19.6	19.8	17.9	14.1	14.1	13.4	12.6	12.6	
59.1	15.2	15.7		19.4	19.0	16.8	17.0	17.9	17.0	14.1	13.9	12.8	12.6	12.3	11.7
65.6	13.4			15.9	17.2	16.1	15.7	14.6	16.1	12.8	13.0	12.1	10.8	11.9	11.0
72.2				13.9	14.1	15.0	13.2	13.9	13.2	10.6	12.1	11.7	8.6	10.4	10.6
78.7				11.7	12.6	12.3	11.0	12.1	12.1	8.8	10.1	11.2	6.8	8.4	9.7
85.3				9.9	10.6	11.0	9.0	10.1	10.8	7.1	8.4	9.3	5.5	6.8	7.9
91.9				8.4	8.8	9.0	7.5	8.4	9.0	5.5	6.6	7.7	4.2	5.3	6.4
98.4				7.1	7.5		6.2	7.1	7.5	4.2	5.3	6.2		4.2	5.1
105.0				6.0	6.2		5.1	5.7	6.2	3.1	4.2	4.9			4.0
111.5							4.0	4.6	5.1		3.1	3.7			
118.1							3.3	3.7	4.0			2.6			
124.7							2.4	2.9	3.1						
131.2								2.2							







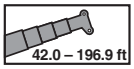


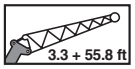


6,393 lbs **ASME**

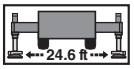
lbs x 1,000

ft	42.0 ft + 3.3 ft + 30.2 ft			84.6 ft + 3.3 ft + 30.2 ft			127.0 ft + 3.3 ft + 30.2 ft			169.6 ft + 3.3 ft + 30.2 ft			196.9 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	33.1														
11.5	33.1			33.1											
13.1	33.1			33.1											
14.8	33.1			33.1			26.2								
16.4	33.1	31.1		33.1			26.2								
19.7	33.1	28.7		33.1			26.2								
23.0	33.1	26.7		33.1	32.4		26.2			14.1					
26.2	33.1	24.9	20.1	33.1	30.6		26.2	26.2		14.1					
29.5	30.4	23.4	19.2	33.1	29.1	21.2	26.2	25.6		14.1					
32.8	27.8	22.0	18.5	33.1	27.8	20.5	26.2	24.7		14.1			12.6		
36.1	25.1	20.7	17.6	33.1	26.5	20.1	26.2	23.6	19.2	14.1	14.1		12.6		
39.4	22.9	19.8	17.2	29.3	25.4	19.4	26.2	22.7	19.2	14.1	14.1		12.6		
45.9	19.6	18.1	16.1	26.5	23.4	18.3	20.5	21.2	19.0	14.1	14.1	14.1	12.6	12.6	
52.5	17.2	16.8	15.4	20.7	20.3	17.4	17.2	18.5	17.9	14.1	14.1	13.4	12.6	12.6	
59.1	15.2	15.7		17.4	18.1	16.8	16.5	15.4	17.0	12.8	13.9	12.8	10.6	12.3	11.7
65.6	13.4			14.3	14.6	15.7	13.4	14.6	13.9	10.4	11.9	12.1	8.4	10.1	11.0
72.2				11.7	12.8	12.8	11.0	12.3	12.8	8.4	9.9	11.0	6.4	8.2	9.5
78.7				9.7	10.4	11.0	8.8	9.9	11.0	6.6	7.9	9.0	4.9	6.4	7.5
85.3				7.9	8.6	9.0	7.3	8.2	9.0	5.3	6.4	7.5		4.9	6.0
91.9				6.6	7.1	7.5	5.7	6.6	7.3	3.7	5.1	6.0			4.6
98.4				5.5	5.7		4.6	5.3	6.0		3.7	4.4			
105.0				4.4	4.6		3.5	4.2	4.6			3.3			
111.5							2.6	3.3	3.7						
118.1							2.0	2.4	2.9						
124.7									2.0						







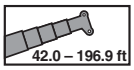


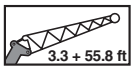


93,476 lbs **ASME**

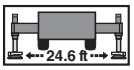
lbs x 1,000

ft	42.0 ft + 3.3 ft + 55.8 ft			84.6 ft + 3.3 ft + 55.8 ft			127.0 ft + 3.3 ft + 55.8 ft			169.6 ft + 3.3 ft + 55.8 ft			196.9 ft + 3.3 ft + 55.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	17.2														
11.5	17.2														
13.1	17.2														
14.8	17.2			16.3											
16.4	17.2			16.3											
19.7	17.2			16.3			12.1								
23.0	16.5			16.3			12.1								
26.2	15.7			16.3			12.1			8.6					
29.5	14.8	11.5		16.3			12.1			8.6					
32.8	13.9	11.0		15.7	10.8		12.1			8.6					
36.1	13.2	10.4		15.2	10.8		12.1			8.6			7.9		
39.4	12.6	9.9		14.6	10.6		12.1	10.1		8.6			7.9		
45.9	11.2	9.0	7.7	13.4	9.7		12.1	9.5		8.6			7.9		
52.5	10.1	8.4	7.3	12.6	9.3	7.5	12.1	9.0		8.6	8.6		7.9		
59.1	9.3	7.7	6.8	11.7	8.6	7.1	11.5	8.6	7.1	8.6	8.2		7.9	7.7	
65.6	8.6	7.3	6.6	10.8	8.2	6.8	11.0	8.2	6.8	8.6	7.9		7.9	7.5	
72.2	7.9	6.8	6.4	10.1	7.7	6.6	10.4	7.9	6.6	8.6	7.7	6.4	7.9	7.3	
78.7	7.3	6.6	6.2	9.5	7.3	6.4	9.9	7.5	6.6	8.6	7.5	6.4	7.9	7.1	5.7
85.3	6.8	6.4		8.8	7.1	6.2	9.3	7.3	6.4	8.6	7.1	6.2	7.9	6.8	5.7
91.9	6.6			8.4	6.8	6.0	9.0	7.1	6.2	8.6	7.1	6.0	7.9	6.6	5.5
98.4				7.9	6.6	6.0	8.6	6.8	6.0	8.4	6.8	6.0	7.9	6.4	5.3
105.0				7.5	6.4	6.0	8.2	6.6	6.0	8.2	6.6	5.7	7.9	6.2	5.3
111.5				7.3	6.2	5.7	7.9	6.4	5.7	7.9	6.4	5.7	7.5	6.0	5.1
118.1				7.1	6.2	5.7	7.5	6.2	5.7	7.7	6.2	5.5	7.3	6.0	5.1
124.7				6.6	6.0		7.3	6.2	5.7	7.5	6.0	5.5	7.1	5.7	4.9
131.2				6.6	6.0		7.1	6.0	5.5	7.3	6.0	5.5	6.8	5.7	4.9
144.4							6.6	5.7	5.5	6.8	5.7	5.3	6.4	5.3	4.6
157.5							6.2	5.5		6.4	5.5	5.1	5.7	5.1	4.6
170.6							6.2	5.5		6.2	5.3	5.1	5.1	4.9	4.6
183.7										5.7	5.1	5.1	4.6	4.4	4.4
196.9										4.6	5.1		3.5	4.0	4.0
210.0										3.7	4.0		2.6	3.1	
223.1														2.0	







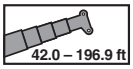


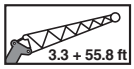


70,107 lbs **ASME**

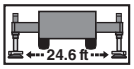
lbs x 1,000

ft	42.0 ft + 3.3 ft + 55.8 ft			84.6 ft + 3.3 ft + 55.8 ft			127.0 ft + 3.3 ft + 55.8 ft			169.6 ft + 3.3 ft + 55.8 ft			196.9 ft + 3.3 ft + 55.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	17.2														
11.5	17.2														
13.1	17.2														
14.8	17.2			16.3											
16.4	17.2			16.3											
19.7	16.8			16.3			12.1								
23.0	15.9			16.3			12.1								
26.2	14.8			16.3			12.1			9.0					
29.5	13.9	11.2		15.7			12.1			9.0					
32.8	13.2	10.6		15.2	11.0		12.1			9.0			7.9		
36.1	12.3	10.1		14.6	10.6		12.1			9.0			7.9		
39.4	11.7	9.7		13.9	10.4		12.1	10.1		9.0			7.9		
45.9	10.6	8.8	7.7	12.8	9.7		12.1	9.5		9.0			7.9		
52.5	9.5	8.2	7.3	11.9	9.0	7.5	12.1	9.0		9.0	8.8		7.9		
59.1	8.8	7.5	6.8	11.0	8.6	7.3	11.5	8.6	7.1	9.0	8.4		7.9	7.9	
65.6	8.2	7.1	6.6	10.4	8.2	6.8	11.0	8.2	6.8	9.0	8.2	6.8	7.9	7.7	
72.2	7.5	6.8	6.4	9.7	7.7	6.6	10.4	7.9	6.6	9.0	7.7	6.6	7.9	7.5	
78.7	7.1	6.4	6.2	9.0	7.3	6.4	9.9	7.5	6.6	9.0	7.5	6.4	7.9	7.3	6.2
85.3	6.6	6.2	6.2	8.6	7.1	6.4	9.3	7.3	6.4	9.0	7.3	6.2	7.9	7.1	6.2
91.9	6.4	6.2		8.2	6.8	6.2	9.0	7.1	6.2	9.0	7.1	6.2	7.9	6.8	6.0
98.4				7.7	6.6	6.0	8.6	6.8	6.0	8.8	6.8	6.0	7.9	6.6	6.0
105.0				7.3	6.4	6.0	8.2	6.6	6.0	8.4	6.6	6.0	7.7	6.4	5.7
111.5				7.1	6.2	6.0	7.9	6.4	5.7	8.2	6.4	5.7	7.5	6.4	5.5
118.1				6.6	6.0	6.0	7.5	6.2	5.7	7.9	6.4	5.7	7.1	6.2	5.5
124.7				6.4	6.0		7.3	6.2	5.7	7.5	6.2	5.5	6.8	6.0	5.5
131.2				6.4	6.0		7.1	6.0	5.5	7.3	6.0	5.5	6.6	6.0	5.3
144.4							6.6	5.7	5.5	6.8	5.7	5.3	6.2	5.7	5.1
157.5							6.2	5.5		5.7	5.5	5.3	4.6	5.3	5.1
170.6							5.7	5.5		4.4	5.1	5.1	3.3	4.2	4.9
183.7										3.3	3.7	4.2	2.2	2.9	3.3
196.9										2.2	2.6				2.2







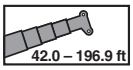


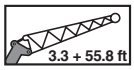


48,061 lbs **ASME**

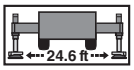
lbs x 1,000

ft	42.0 ft + 3.3 ft + 55.8 ft			84.6 ft + 3.3 ft + 55.8 ft			127.0 ft + 3.3 ft + 55.8 ft			169.6 ft + 3.3 ft + 55.8 ft			196.9 ft + 3.3 ft + 55.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	17.2														
11.5	17.2														
13.1	17.2														
14.8	17.2			16.3											
16.4	17.2			16.3											
19.7	17.2			16.3			12.1								
23.0	16.5			16.3			12.1								
26.2	15.7			16.3			12.1			8.6					
29.5	14.8	11.5		16.3			12.1			8.6					
32.8	13.9	11.0		15.7	10.8		12.1			8.6					
36.1	13.2	10.4		15.2	10.8		12.1			8.6			7.9		
39.4	12.6	9.9		14.6	10.6		12.1	10.1		8.6			7.9		
45.9	11.2	9.0	7.7	13.4	9.7		12.1	9.5		8.6			7.9		
52.5	10.1	8.4	7.3	12.6	9.3	7.5	12.1	9.0		8.6	8.6		7.9		
59.1	9.3	7.7	6.8	11.7	8.6	7.1	11.5	8.6	7.1	8.6	8.2		7.9	7.7	
65.6	8.6	7.3	6.6	10.8	8.2	6.8	11.0	8.2	6.8	8.6	7.9		7.9	7.5	
72.2	7.9	6.8	6.4	10.1	7.7	6.6	10.4	7.9	6.6	8.6	7.7	6.4	7.9	7.3	
78.7	7.3	6.6	6.2	9.5	7.3	6.4	9.9	7.5	6.6	8.6	7.5	6.4	7.9	7.1	5.7
85.3	6.8	6.4		8.8	7.1	6.2	9.3	7.3	6.4	8.6	7.1	6.2	7.9	6.8	5.7
91.9	6.6			8.4	6.8	6.0	9.0	7.1	6.2	8.6	7.1	6.0	7.9	6.6	5.5
98.4				7.9	6.6	6.0	8.6	6.8	6.0	8.4	6.8	6.0	7.9	6.4	5.3
105.0				7.5	6.4	6.0	8.2	6.6	6.0	8.2	6.6	5.7	7.9	6.2	5.3
111.5				7.3	6.2	5.7	7.9	6.4	5.7	7.9	6.4	5.7	7.5	6.0	5.1
118.1				7.1	6.2	5.7	7.5	6.2	5.7	7.7	6.2	5.5	7.1	6.0	5.1
124.7				6.6	6.0		7.1	6.2	5.7	7.1	6.0	5.5	6.0	5.7	4.9
131.2				6.2	6.0		6.8	6.0	5.5	6.0	6.0	5.5	4.9	5.7	4.9
144.4							6.2	5.5	5.3	4.4	5.3	5.3	3.3	4.4	4.6
157.5							4.9	5.3		2.9	3.7	4.4		2.9	3.5
170.6							3.7	4.0			2.4	2.9			2.2







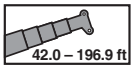


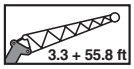


22,046 lbs **ASME**

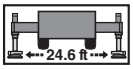
lbs x 1,000

ft	42.0 ft + 3.3 ft + 55.8 ft			84.6 ft + 3.3 ft + 55.8 ft			127.0 ft + 3.3 ft + 55.8 ft			169.6 ft + 3.3 ft + 55.8 ft			196.9 ft + 3.3 ft + 55.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	17.2														
11.5	17.2														
13.1	17.2														
14.8	17.2			16.3											
16.4	17.2			16.3											
19.7	17.2			16.3			12.1								
23.0	16.5			16.3			12.1								
26.2	15.7			16.3			12.1			8.6					
29.5	14.8	11.5		16.3			12.1			8.6					
32.8	13.9	11.0		15.7	10.8		12.1			8.6					
36.1	13.2	10.4		15.2	10.8		12.1			8.6			7.9		
39.4	12.6	9.9		14.6	10.6		12.1	10.1		8.6			7.9		
45.9	11.2	9.0	7.7	13.4	9.7		12.1	9.5		8.6			7.9		
52.5	10.1	8.4	7.3	12.6	9.3	7.5	12.1	9.0		8.6	8.6		7.9		
59.1	9.3	7.7	6.8	11.7	8.6	7.1	11.5	8.6	7.1	8.6	8.2		7.9	7.7	
65.6	8.6	7.3	6.6	10.8	8.2	6.8	11.0	8.2	6.8	8.6	7.9		7.9	7.5	
72.2	7.9	6.8	6.4	10.1	7.7	6.6	10.4	7.9	6.6	8.6	7.7	6.4	7.9	7.3	
78.7	7.3	6.6	6.2	9.5	7.3	6.4	9.9	7.5	6.6	8.6	7.5	6.4	7.9	7.1	5.7
85.3	6.8	6.4		8.8	7.1	6.2	9.3	7.3	6.4	8.6	7.1	6.2	7.9	6.8	5.7
91.9	6.6			8.2	6.8	6.0	8.6	7.1	6.2	8.4	7.1	6.0	6.6	6.6	5.5
98.4				7.5	6.6	6.0	8.2	6.8	6.0	6.8	6.8	6.0	5.3	6.4	5.3
105.0				7.3	6.4	6.0	7.7	6.6	6.0	5.7	6.6	5.7	4.4	6.2	5.3
111.5				6.8	6.2	5.7	6.6	6.2	5.7	4.6	6.2	5.7		5.1	5.1
118.1				6.6	6.0	5.7	5.5	6.2	5.5	3.5	5.1	5.5		4.0	5.1
124.7				6.0	5.7		4.6	5.5	5.5	2.6	4.0	5.1			4.2
131.2				5.3	5.5		4.0	4.9	5.3		3.1	4.0			
144.4							2.6	3.3	3.7			2.4			
157.5								2.0							







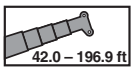


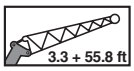


13,228 lbs **ASME**

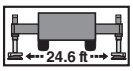
lbs x 1,000

ft	42.0 ft + 3.3 ft + 55.8 ft			84.6 ft + 3.3 ft + 55.8 ft			127.0 ft + 3.3 ft + 55.8 ft			169.6 ft + 3.3 ft + 55.8 ft			196.9 ft + 3.3 ft + 55.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	17.2														
11.5	17.2														
13.1	17.2														
14.8	17.2			16.3											
16.4	17.2			16.3											
19.7	17.2			16.3			12.1								
23.0	16.5			16.3			12.1								
26.2	15.7			16.3			12.1			8.6					
29.5	14.8	11.5		16.3			12.1			8.6					
32.8	13.9	11.0		15.7	10.8		12.1			8.6					
36.1	13.2	10.4		15.2	10.8		12.1			8.6			7.9		
39.4	12.6	9.9		14.6	10.6		12.1	10.1		8.6			7.9		
45.9	11.2	9.0	7.7	13.4	9.7		12.1	9.5		8.6			7.9		
52.5	10.1	8.4	7.3	12.6	9.3	7.5	12.1	9.0		8.6	8.6		7.9		
59.1	9.3	7.7	6.8	11.7	8.6	7.1	11.5	8.6	7.1	8.6	8.2		7.9	7.7	
65.6	8.6	7.3	6.6	10.8	8.2	6.8	11.0	8.2	6.8	8.6	7.9		7.9	7.5	
72.2	7.9	6.8	6.4	10.1	7.7	6.6	10.4	7.9	6.6	8.6	7.7	6.4	7.9	7.3	
78.7	7.3	6.6	6.2	9.5	7.3	6.4	9.5	7.5	6.6	8.6	7.5	6.4	7.3	7.1	5.7
85.3	6.8	6.4		8.4	7.1	6.2	9.0	7.3	6.4	7.5	7.1	6.2	5.7	6.8	5.7
91.9	6.6			7.9	6.8	6.0	8.4	7.1	6.2	6.2	7.1	6.0	4.6	6.6	5.5
98.4				7.5	6.4	6.0	7.1	6.6	6.0	5.1	6.8	6.0		5.5	5.3
105.0				7.1	6.2	6.0	6.0	6.4	6.0	4.0	5.5	5.7		4.4	5.3
111.5				6.2	6.2	5.7	4.9	6.0	5.7	2.9	4.4	5.7			4.6
118.1				5.3	6.0	5.7	4.0	5.1	5.5		3.5	4.6			
124.7				4.4	4.9		3.3	4.2	4.9			3.5			
131.2				3.7	4.2		2.6	3.3	4.0			2.6			
144.4								2.0	2.4						







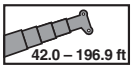


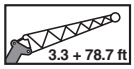


6,393 lbs **ASME**

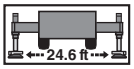
lbs x 1,000

ft	42.0 ft + 3.3 ft + 55.8 ft			84.6 ft + 3.3 ft + 55.8 ft			127.0 ft + 3.3 ft + 55.8 ft			169.6 ft + 3.3 ft + 55.8 ft			196.9 ft + 3.3 ft + 55.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	17.2														
11.5	17.2														
13.1	17.2														
14.8	17.2			16.3											
16.4	17.2			16.3											
19.7	17.2			16.3			12.1								
23.0	16.5			16.3			12.1								
26.2	15.7			16.3			12.1			8.6					
29.5	14.8	11.5		16.3			12.1			8.6					
32.8	13.9	11.0		15.7	10.8		12.1			8.6					
36.1	13.2	10.4		15.2	10.8		12.1			8.6			7.9		
39.4	12.6	9.9		14.6	10.6		12.1	10.1		8.6			7.9		
45.9	11.2	9.0	7.7	13.4	9.7		12.1	9.5		8.6			7.9		
52.5	10.1	8.4	7.3	12.6	9.3	7.5	12.1	9.0		8.6	8.6		7.9		
59.1	9.3	7.7	6.8	11.7	8.6	7.1	11.5	8.6	7.1	8.6	8.2		7.9	7.7	
65.6	8.6	7.3	6.6	10.8	8.2	6.8	11.0	8.2	6.8	8.6	7.9		7.9	7.5	
72.2	7.9	6.8	6.4	9.5	7.7	6.6	9.5	7.9	6.6	8.6	7.7	6.4	6.8	7.3	
78.7	7.3	6.6	6.2	8.8	7.3	6.4	9.3	7.5	6.6	7.1	7.5	6.4	5.3	7.1	5.7
85.3	6.8	6.4		8.4	7.1	6.2	8.2	7.3	6.4	5.7	7.1	6.2		6.4	5.7
91.9	6.6			7.7	6.6	6.0	6.6	6.8	6.2	4.4	6.4	6.0		5.1	5.5
98.4				6.6	6.4	6.0	5.5	6.6	6.0		5.3	6.0			5.3
105.0				5.7	6.2	6.0	4.4	5.7	5.7		4.0	5.5			
111.5				4.9	5.5	5.7	3.5	4.6	5.5			4.4			
118.1				4.0	4.6	4.9	2.6	3.7	4.6			3.3			
124.7				3.3	3.7		2.0	2.9	3.5						
131.2				2.6	2.9			2.2	2.9						







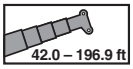


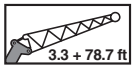


93,476 lbs **ASME**

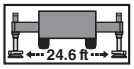
lbs x 1,000

ft	42.0 ft + 3.3 ft + 78.7 ft			84.6 ft + 3.3 ft + 78.7 ft			127.0 ft + 3.3 ft + 78.7 ft			169.6 ft + 3.3 ft + 78.7 ft			196.9 ft + 3.3 ft + 78.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
14.8	11.2														
16.4	11.2														
19.7	11.2			10.8											
23.0	11.2			10.8			8.4								
26.2	11.2			10.8			8.4								
29.5	11.2			10.8			8.4			6.4					
32.8	11.2			10.8			8.4			6.4					
36.1	11.2			10.8			8.4			6.4					
39.4	11.2	10.8		10.8			8.4			6.4			6.0		
45.9	10.8	9.9		10.8	9.9		8.4			6.4			6.0		
52.5	10.4	8.8		10.6	9.5		8.4	8.4		6.4			6.0		
59.1	9.7	7.9		10.4	9.0		8.4	8.4		6.4			6.0		
65.6	8.4	7.3	6.2	9.9	8.6		8.4	8.2		6.4	6.4		6.0		
72.2	7.5	6.6	5.7	9.7	7.9	6.2	8.4	7.7		6.4	6.4		6.0		
78.7	6.6	6.2	5.5	9.3	7.5	6.0	8.4	7.5	6.2	6.4	6.4		6.0	6.0	
85.3	6.0	5.7	5.1	8.8	7.1	5.7	8.4	7.3	6.0	6.4	6.4		6.0	6.0	
91.9	5.3	5.3	4.9	8.2	6.6	5.5	8.4	7.1	5.7	6.4	6.4	5.7	6.0	6.0	
98.4	4.9	5.1	4.6	7.3	6.2	5.3	8.2	6.8	5.5	6.4	6.2	5.5	6.0	5.7	
105.0	4.4	4.6		6.8	6.0	5.1	7.9	6.6	5.3	6.4	6.0	5.5	6.0	5.5	5.1
111.5	4.0			6.2	5.5	4.9	7.5	6.4	5.1	6.4	5.7	5.3	6.0	5.3	5.1
118.1				5.7	5.3	4.6	6.8	6.0	5.1	6.4	5.5	5.1	5.7	5.1	4.9
124.7				5.3	5.1	4.6	6.6	5.7	4.9	6.2	5.3	5.1	5.5	5.1	4.6
131.2				4.9	4.9	4.4	6.2	5.5	4.9	5.7	5.1	4.9	5.3	4.9	4.4
144.4				4.2	4.6	4.4	5.5	5.3	4.6	5.5	4.9	4.6	5.1	4.4	4.2
157.5				4.0			4.9	4.9	4.4	5.1	4.6	4.2	4.6	4.2	4.0
170.6							4.4	4.6	4.4	4.9	4.2	4.0	4.2	3.7	3.7
183.7							4.2	4.4		4.4	4.0	3.7	3.7	3.5	3.3
196.9							3.7	4.4		4.2	4.0	3.7	3.3	3.1	3.1
210.0										3.7	3.5	3.5	2.6	2.9	2.9
223.1										2.9	3.3			2.4	2.6
236.2										2.2	2.4				







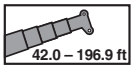


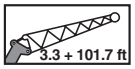


70,107 lbs **ASME**

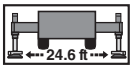
lbs x 1,000

ft	42.0 ft + 3.3 ft + 78.7 ft			84.6 ft + 3.3 ft + 78.7 ft			127.0 ft + 3.3 ft + 78.7 ft			169.6 ft + 3.3 ft + 78.7 ft			196.9 ft + 3.3 ft + 78.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
13.1	11.2														
14.8	11.2														
16.4	11.2														
19.7	11.2			10.8											
23.0	11.2			10.8			8.4								
26.2	11.2			10.8			8.4								
29.5	11.2			10.8			8.4			6.6					
32.8	11.2			10.8			8.4			6.6					
36.1	11.2			10.8			8.4			6.6			6.0		
39.4	11.2	10.4		10.8			8.4			6.6			6.0		
45.9	11.0	9.7		10.8	9.7		8.4			6.6			6.0		
52.5	10.1	8.8		10.8	9.3		8.4	8.4		6.6			6.0		
59.1	9.0	8.2		10.6	8.8		8.4	8.4		6.6			6.0		
65.6	7.9	7.3	6.4	10.1	8.4		8.4	8.2		6.6	6.6		6.0		
72.2	7.1	6.8	6.0	9.7	7.9	6.4	8.4	7.7		6.6	6.6		6.0	6.0	
78.7	6.4	6.2	5.5	9.0	7.5	6.0	8.4	7.5	6.2	6.6	6.6		6.0	6.0	
85.3	5.7	5.7	5.1	8.2	7.1	5.7	8.4	7.3	6.0	6.6	6.6		6.0	6.0	
91.9	5.3	5.3	4.9	7.5	6.6	5.5	8.4	7.1	5.7	6.6	6.6	5.7	6.0	6.0	
98.4	4.9	5.1	4.6	6.8	6.2	5.3	8.2	6.8	5.5	6.6	6.6	5.5	6.0	5.7	5.3
105.0	4.4	4.9	4.4	6.4	6.0	5.1	7.9	6.6	5.3	6.6	6.4	5.5	6.0	5.5	5.1
111.5	4.2	4.6		6.0	5.5	4.9	7.5	6.4	5.1	6.6	6.4	5.3	6.0	5.3	4.9
118.1				5.5	5.3	4.6	6.8	6.0	5.1	6.6	6.2	5.1	5.7	5.1	4.6
124.7				5.3	5.1	4.6	6.6	5.7	4.9	6.6	6.0	5.1	5.5	4.9	4.6
131.2				4.9	4.9	4.4	6.2	5.5	4.9	6.6	6.0	4.9	5.3	4.6	4.4
144.4				4.4	4.6	4.4	5.5	5.3	4.6	6.4	5.5	4.6	4.9	4.4	4.2
157.5				4.0			4.9	4.9	4.4	5.1	5.3	4.4	4.6	4.0	3.7
170.6							4.4	4.6	4.4	4.6	4.6	4.4	3.5	3.7	3.5
183.7							4.2	4.4		3.3	4.0	4.0	2.2	3.3	3.3
196.9							3.7	4.0		2.4	3.1	3.5		2.2	2.9
210.0											2.2	2.4			







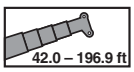


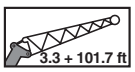


93,476 lbs **ASME**

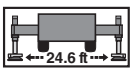
lbs x 1,000

ft	42.0 ft + 3.3 ft + 101.7 ft			84.6 ft + 3.3 ft + 101.7 ft			127.0 ft + 3.3 ft + 101.7 ft			169.6 ft + 3.3 ft + 101.7 ft			196.9 ft + 3.3 ft + 101.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
19.7	7.7														
23.0	7.7			7.3											
26.2	7.7			7.3			6.0								
29.5	7.7			7.3			6.0								
32.8	7.7			7.3			6.0								
36.1	7.7			7.3			6.0			4.6					
39.4	7.7			7.3			6.0			4.6					
45.9	7.7			7.3			6.0			4.6			4.4		
52.5	7.7	7.5		7.3			6.0			4.6			4.4		
59.1	7.7	6.8		7.3	7.3		6.0			4.6			4.4		
65.6	7.1	6.2		7.3	6.8		6.0	6.0		4.6			4.4		
72.2	6.2	5.7		7.3	6.4		6.0	6.0		4.6			4.4		
78.7	5.5	5.1		7.3	6.0		6.0	6.0		4.6	4.6		4.4		
85.3	4.9	4.9	4.2	6.8	5.5		6.0	5.7		4.6	4.6		4.4		
91.9	4.4	4.4	4.0	6.2	5.1	4.2	6.0	5.3		4.6	4.6		4.4	4.2	
98.4	4.0	4.2	3.5	5.5	4.9	4.0	6.0	5.1	3.7	4.6	4.6		4.4	4.2	
105.0	3.5	3.7	3.5	5.1	4.6	3.7	5.7	4.9	3.7	4.6	4.6		4.4	4.2	
111.5	3.1	3.5	3.3	4.6	4.4	3.5	5.5	4.6	3.5	4.6	4.6	3.5	4.4	4.0	
118.1	2.9	3.3	3.1	4.2	4.2	3.3	5.1	4.4	3.3	4.6	4.4	3.5	4.4	4.0	
124.7	2.6	3.1	3.1	4.0	4.0	3.3	4.6	4.2	3.3	4.6	4.2	3.3	4.4	4.0	3.5
131.2	2.4	3.1		3.5	3.7	3.1	4.4	4.0	3.1	4.6	4.0	3.1	4.2	3.7	3.5
144.4				3.1	3.3	3.1	3.7	3.5	2.9	4.2	3.7	2.9	4.0	3.5	3.3
157.5				2.6	3.1	2.9	3.3	3.3	2.9	4.0	3.5	2.9	3.7	3.3	3.1
170.6				2.4	2.9		3.1	3.1	2.6	3.5	3.1	2.6	3.5	3.1	2.9
183.7							2.6	2.9	2.4	3.1	2.9	2.4	3.1	2.9	2.6
196.9							2.4	2.6	2.4	2.9	2.6	2.4	2.9	2.6	2.4
210.0							2.2	2.6		2.6	2.4	2.2	2.4	2.4	2.2
223.1							2.0			2.4	2.2	2.2		2.0	2.2
236.2										2.2	2.2				2.0











70,107 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 101.7 ft			84.6 ft + 3.3 ft + 101.7 ft			127.0 ft + 3.3 ft + 101.7 ft			169.6 ft + 3.3 ft + 101.7 ft			196.9 ft + 3.3 ft + 101.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4	7.7														
19.7	7.7														
23.0	7.7			7.3											
26.2	7.7			7.3			6.0								
29.5	7.7			7.3			6.0								
32.8	7.7			7.3			6.0			4.9					
36.1	7.7			7.3			6.0			4.9					
39.4	7.7			7.3			6.0			4.9					
45.9	7.7			7.3			6.0			4.9			4.4		
52.5	7.7	7.5		7.3			6.0			4.9			4.4		
59.1	7.5	6.6		7.3	7.3		6.0			4.9			4.4		
65.6	6.6	6.0		7.3	6.6		6.0	6.0		4.9			4.4		
72.2	5.7	5.5		7.3	6.2		6.0	6.0		4.9			4.4		
78.7	5.1	5.1	4.2	7.1	5.7		6.0	6.0		4.9	4.9		4.4		
85.3	4.6	4.6	4.0	6.4	5.3		6.0	5.7		4.9	4.9		4.4		
91.9	4.2	4.2	3.7	5.7	5.1	4.0	6.0	5.3		4.9	4.9		4.4	4.4	
98.4	3.7	4.0	3.5	5.3	4.6	3.7	6.0	5.1	3.7	4.9	4.9		4.4	4.4	
105.0	3.3	3.5	3.3	4.9	4.4	3.5	5.7	4.9	3.7	4.9	4.9		4.4	4.2	
111.5	3.1	3.3	3.1	4.4	4.2	3.3	5.5	4.6	3.5	4.9	4.9	3.5	4.4	4.2	
118.1	2.9	3.1	2.9	4.0	4.0	3.3	5.1	4.4	3.3	4.9	4.6	3.5	4.4	4.0	
124.7	2.4	2.9	2.6	3.7	3.7	3.1	4.6	4.2	3.3	4.9	4.4	3.3	4.2	3.7	3.3
131.2	2.2	2.9	2.6	3.5	3.5	2.9	4.4	4.0	3.1	4.9	4.2	3.3	4.2	3.5	3.1
144.4				3.1	3.1	2.9	3.7	3.5	2.9	4.4	4.0	3.1	3.7	3.3	2.9
157.5				2.6	2.9	2.6	3.3	3.3	2.9	4.0	3.5	2.9	3.5	3.1	2.9
170.6				2.2	2.6		3.1	3.1	2.6	3.5	3.3	2.6	3.3	2.9	2.6
183.7							2.6	2.9	2.4	3.1	3.1	2.4	2.4	2.6	2.4
196.9							2.4	2.6	2.4	2.4	2.6	2.4		2.4	2.2
210.0							2.2	2.6			2.4	2.2			2.0
223.1							2.0					2.0			

EQUIPMENT

ÉQUIPEMENT
EQUIPAMIENTO



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/ 8.03 m.

Carrier engine: Mercedes-Benz 6 cylinder model OM 471 LA (Euromot IV / EPA Tier 4f), water-cooled diesel engine. Rated at 530 HP (390 kW) at 1700 min^{-1}. Torque 1,814 ft-lbs/ 2460 Nm (251 kpm) at 1300 min^{-1}. Engine rating according to ECE R 120. Fuel tank 159 gal/ 600 l. AdBlue tank 11 gal/ 40 l.

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.

Transfer case: Two stage.

Drive: 10 x 6

Axles:
1st axle: steered, 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 with levelling adjustment.

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 steering of 1st and 2nd axles and automatic steering of the 3rd and 4th axle up to a travel speed of 15.5 mph/ 25km/h and of the 5th axle up to 31.1 mph/ 50 km/h.

Carrier cab: Two man full width cab of composite (steel sheet metal and fibre-glass) structure, with safety glass, central locking system, air-cushioned seats, driver's seat offering various adjustment options, with memory function and heater, engine dependent water heater, air conditioning, Bluetooth hands-free equipment, multifunction display, rear view camera, radio/CD player with USB port, control and operating elements for driving operation, 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, acoustic back-up alarm, lighting system with Bi halogen headlights; LED daytime running light; LED foglights, 4 rotating beacon warning lights.

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 painting and lettering.

Further optional equipment available upon request.

Superstructure

Frame: Torsion-resistant, all-welded structure with single-race ball-bearing slewing ring with external gearing, rotating through 360°. Central lubricating system.

Superstructure engine: Mercedes-Benz 4 cylinder diesel engine, type OM 934 LA (Euromot IV / EPA Tier 4f), water cooled. The engine speed can be varied via a foot pedal. Rated at 175 HP (129 kW) at 2200 min^{-1}. Torque 553 ft-lbs/ 750 Nm (76 kpm) at 1200 - 1600 min^{-1}. Engine rating according to ECE R 120. Fuel tank 58 gal/ 220 l. AdBlue tank 2.6 gal/ 10 l.

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

Controls: Electrical, 2 joy-stick levers for simultaneous operation of crane motions.

Telescopic boom: 6 sections, made of high tensile, fine-grained steel, consisting of 1 base section and 5 telescoping sections extended by means of a single telescopic cylinder. All telescope sections extendable hydraulically under partial load. 42.0 ft/ 12.8 m to 196.9 ft/ 60.0 m long. Boom head with 6 sheaves. Jib bracket.

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

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

Slewing system: Axial piston constant-rate motor, three-stage planetary gear with parking brake. Open hydraulic circuit with swing mechanism lock-out. Swing speed steplessly variable from 0 to 1.6 rpm.

Counterweight: Total 93,476 lbs/ 42.4 t divisible. Installation and removal controlled from superstructure cab.

Superstructure cab: Spacious crane cab of composite steel / plastic design with tempered tinted glass windows, tiltable cockpit with mechanically cushioned adjustable driver's seat with heater, autonomous supplementary heater with engine pre-heating. Air conditioning, radio / CD player, controls and instrumentation for crane operation, outrigger actuation and carrier engine features.

Electrical system: 24 V DC system, 2 batteries.

Safety devices: `Lift Adjuster´, electronic load moment limiter (LMB) with LCD color display, anemometer, slewing area and working range limitation with 'Slow-Stop' feature, hoist limit switch, lower limit switch, safety valves protect against pipe and hose ruptures. Fall protection system.

Dolly kit: Slewing gear unfixed & boom socket

Optional equipment: (at extra charge)
Jib 3.3 ft/ 1 m + 9.2 ft/ 2.8 m to 3.3ft/ 1 m + 101.7 ft/ 31 m, offsets at choice 0°, 20° and 40° or hydraulically 0° - 40°, 11.0 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, supported forces display.

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 et 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/ 8.03 m.

Moteur: Mercedes Benz diesel 6 cylindres, modèle OM 471 LA (Euromot IV / EPA Tier 4f), refroidi par eau, de 530 CV (390 kW) à 1700 min^{-1}. Couple: 1,814 ft-lbs/ 2460 Nm (251 kpm) à 1300 min^{-1}. Puissance selon ECE R 120. Capacité du réservoir 159 gal/ 600 l. Capacité du réservoir AdBlue: 11 gal/ 40l.

Boîte de vitesse: 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.

Boîte de transfert: à 2 gammes.

Entraînement: 10 x 6

Essieux:
1er essieu: directeur, entraîné, blocage de différentiel transversal.
2ème essieu: directeur, entraîné, blocage de différentiel transversal.
3ème essieu: directeur, non entraîné.
4ème essieu: directeur, entraîné, blocage de différentiel longitudinal et transversal.
5ème essieu: directeur, entraîné, blocage de differential transversal.

Suspension: Hydro-pneumatique, avec réglage de niveau.

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

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

Direction: Servocom à double circuit, marque ZF avec pompe de secours pour direction. Direction mécanique du 1er et 2ème essieu, direction à assistance hydraulique du 3ème et 4ème essieu jusqu'à une vitesse de 15.5 mph/ 25 km/h, et du 5ème essieu jusqu'à une vitesse de 31.1 mph/ 50 km/h.

Cabine: Cabine bi-place, construction en matière combinée (acier/matière plastique), vitres en verre de sécurité, système de verrouillage central, sièges à suspension pneumatique, siège du conducteur à plusieurs réglages, avec fonction de mémoire et chauffant, chauffage d'eau alimenté par le moteur, climatiseur, dispositif mains libres Bluetooth, affichage multi-fonctions, caméra de recul, radio / CD-player avec connecteur USB, éléments de contrôle et de commande pour la conduite, régulateur de vitesse, système automatique de freinage.

Système électrique: 24 V CC, 2 batteries, système du bus CAN avec système autodiagnostic CSS intégré, allumage de la zone d'appui, alarme de recul acoustique, système d'éclairage avec des projecteurs halogène Bi ; feu de circulation diurne DEL ; feux-brouillard DEL, 4 gyrophares.

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°. Système de graissage centralisé.

Moteur: Mercedes Benz diesel 4 cylindres, modèle OM 934 LA (Euromot IV / EPA Tier 4f), refroidi par eau, réglage en continu du nombre de tours par pédale, de 175 CV (129 kW) à 2200 min^{-1}. Couple: 553 ft-lbs/ 750 Nm (76 kpm) à 1200 - 1600 min^{-1}. Puissance selon ECE R 120. Capacité du réservoir 58 gal/ 220 l. Capacité du réservoir AdBlue: 2.6 gal/ 10l.

Système hydraulique: Diesel-hydraulique à 3 circuits, 1 double pompe à piston axial réglée en fonction de la puissance (à réglage électro-hydraulique) 1 pompe à piston axial et 1 pompe à engrenages, radiateur d'huile.

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

Flèche télescopique: Flèche télescopique à 6 éléments en acier à texture fine et très résistant, se composant de 1 flèche de base et 5 éléments télescopiques, 1 vérin telescopique, hydrauliquement télescopable avec charge partielle. Longueur de 42.0 ft/ 12,8 m à 196.9 ft/ 60,0 m. Tête de flèche avec 6 poulies. Console de rallonge de flèche

Mécanisme de relevage: Un vérin différentiel pourvu d'une valve d'équilibrage limitant la vitesse de descente.

Mécanisme de levage: Moteur à cylindrée variable à piston axial, tambour de levage avec boîte planétaire incorporé 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 d'arrêt. Circuit hydraulique ouvert avec déconnexion du groupe de rotation. Vitesse de rotation réglable progressivement de 0 à 1,6 min^{-1} en continu.

Contrepoids: Poids total 93,476 lbs/ 42,4 t divisible. Pose et dépose commandés depuis la cabine du grutier.

Cabine du grutier: Cabine de grue spacieuse, construction en acier/plastique avec tôle marche-pied extensible latéralement, vitrage de sécurité en verre teinté, place de travail inclinable avec siège du conducteur réglable, amorti mécaniquement, chauffant ; chauffage à eau chaude alimenté par le moteur et autonome (avec préchauffage du moteur), climatiseur, radio / CD-player avec connecteur pour carte MP3/USB/SD et dispositif mains libres Bluetooth, éléments de commande et de contrôle pour le service de grue, actionnement des outriggers et fonctions du moteur dans le châssis.

Système électrique: 24 V courant continu, 2 batteries.

Dispositifs de sécurité: 'Lift Adjuster', Contrôleur de l'état de charge (CEC) électronique, avec affichage couleur à cristaux liquides, anémomètre, 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. Système de protection antichute.

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 m + 9.2 ft/ 2.8 m to 3.3ft/ 1 m + 101.7 ft/ 31 m, au choix inclinables 0°, 20° et 40° ou hydrauliquement de 0° à 40°, ensemble des crochets porte-charge de 11.0 US t/ 10 t, moufles de 35.3 US t/ 32 t à 176.4 US t/ 160 t, 2ème treuil de levage radiateur d'huile supplémentaire, peinture spéciale et inscription, affichage des forces d'appui.

Autres équipements supplémentaires sur demande.

Equipamiento

Chasis

Chasis portante: Construcción de acero de alta resistencia soldado, resistente a la torsión y a la flexión en acero de grano fino altamente resistente. Sistema de engrase central.

Estabilizadores: 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/ 8.03 m.

Motor: Mercedes Benz modelo OM 471 LA (Euromot IV / EPA Tier 4f), 6 cilindros, diesel, refrigerado por agua. Nominal 530 CV (390 kW) a 1700 min^{-1}. Par 1,814 ft-lbs/ 2460 Nm (251 kpm) a 1300 min^{-1}. Potencia del motor según ECE R 120. Depósito de combustible de 159 gal/ 600 l. Depósito AdBlue 11 gal/ 40 l.

Transmisión: Transmisión mecánica del tipo ZF-AS-Tronic 12 AS 2531 con intarder integrado, con embrague en seco con accionamiento electro-neumático y cambio automático con 12 marchas delanteras y 2 marchas traseras.

Caja transfer: Caja de distribución (transfer) con 2 relaciones de velocidad.

Tracción: 10 x 6

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

Suspensión: Suspensión hidroneumática con regulación de nivel.

Sistemas de 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 con bomba hidráulica de emergencia. Dirección mecánica al 1° y 2° eje y direccionable al 3° y 4° eje hasta una velocidad de 15.5 mph/ 25 km/h y al 5º eje hasta 31.1 mph/ 50 km/h.

Cabina: Cabina de conductor frontal para dos personas construida en material compuesto de chapa de acero y plástico, acristalamiento de seguridad, bloqueo central, asientos neumáticos, asiento del conductor regulable en múltiples posiciones con función memoria y calefactable, calefacción por agua dependiente del motor, climatizador, dispositivo manos libres con Bluetooth, display multifunción, cámara de marcha atrás, radio/reproductor CD con toma USB, elementos de control y mando para el modo de 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 autodiagnosis integrado, iluminación de la zona de apoyo, alarma acústica para indicar la marcha atrás, sistema de luces con faros bihalógenos, luz LED de marcha diurna, faro LED antiniebla, 4 luces de aviso omnidireccionales.

Equipo 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

Superestructura: Construida en aceros soldados, resistente a la torsión. Corona de giro con rodamiento de una fila de bolas con dientes externos con giro continuo a 360°. Sistema de engrase central.

Motor: Mercedes Benz modelo OM 934 LA (Euromot IV / EPA Tier 4f), 4 cilindros, diesel, refrigerado por agua. Las revoluciones aumentan de forma gradual accionando el pedal acelerador. Nominal 175 CV (129 kW) a 2200 min^{-1}. Par 553 ft-lbs/ 750 Nm (76 kpm) a 1200 - 1600 min^{-1}. Potencia del motor según ECE R 120. Depósito de combustible de 58 gal/ 220 l. Depósito AdBlue 2.6 gal/ 10 l.

Sistema hidráulico: Sistema dieselhidráulico de 3 circuitos, 1 bomba doble de pistones axiales con regulación de caudal (regulable electro-hidráulicamente), 1 bomba de pistones axiales y 1 bomba de engranajes, radiador de aceite.

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

Pluma telescópica: Pluma telescópica de seis secciones de acero de alta resistencia soldado; se compone de un tramo base y 5 tramos telescópicos, 1 cilindro telescópico; los tramos pueden telescoparse hidráulicamente bajo carga parcial. Longitud de 42.0 ft/ 12,8 m à 196.9 ft/ 60,0 m. Cabeza de pluma con 6 poleas. Depósito de alargamiento de pluma.

Elevación de pluma: Mediante un cilindro diferencial con válvula de retención de bajada de bloqueo integrada.

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

Mecanismo de giro: Motor de cilindrada constante de pistones axiales, reducción planetaria de tres etapas con freno de estacionamiento. Circuito hidráulico abierto con desbloqueo del mecanismo giratorio. Velocidad de giro variable continuamente de 0 a 1,6 min^{-1}.

Contrapeso: Peso total 93,476 lbs/ 42,4 t divisible. Montaje y desmontaje se accionan desde la cabina de la grúa.

Cabina de la grúa: Cabina de grúa espaciosa en construcción de acero y plástico, cristales tintados de seguridad, puesto de trabajo inclinable con asiento de conductor regulable, amortiguado mecanicamente y calefactable, 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. Accionamiento de estabilizadores y funciones chasis-motor.

Sistema eléctrico: 24 voltios de corriente continua, 2 baterías.

Medidas de seguridad: "Lift Adjuster", limitador electrónico del momento de carga (LMC) con pantalla de color LCD, anemómetro, 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. Sistema de protección contra caídas.

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

Equipo adicional: (con suplemento de precio) Alargamiento de pluma 3.3 ft/ 1 m + 9.2 ft/ 2.8 m to 3.3ft/ 1 m + 101.7 ft/ 31 m, regulable alternativamente entre 0°, 20° y 40° o hidráulicamente de 0° a 40°, accesorios de gancho de 11.0 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, indicador de la fuerza de apoyo.

Otros equipamientos sobre pedido.

ADDITIONAL INFORMATION

INFORMATIONS SUPPLÉMENTAIRES
INFORMACIÓN ADICIONAL



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. *Depending on the boom length, with the lifting capacity charts, wind speeds up to max. 49 fps/ 15 m/s are admissible. Due to the different extension sequences of the various telescopes, the boom lengths may differ slightly from those indicated in the lifting capacity charts.*
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.*

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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.*

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1. *Las cargas nominales son en conformidad con ASME B30.5-1.1. Las cargas indicadas son únicamente valores indicativos. Para los trabajos, consúltese 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.*

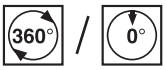
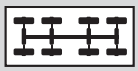
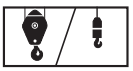
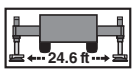
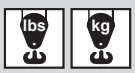
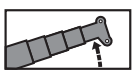
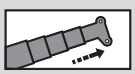
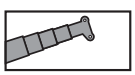
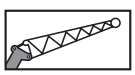
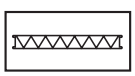
General remarks · Remarques générales · Notas adicionales

Unless otherwise specified, all the information given in this brochure refers to the standard equipment of the crane and only is intended as general information. For correct crane operation, the original operating manual and lifting capacity charts are mandatory. No liability is accepted for the accuracy of this information. We reserve the right to change information at our discretion. Illustrations are for representation only. All dimensions are indicated in feet [millimeters] - unless otherwise specified.

Sauf indication contraire, toutes les informations dans cette brochure se rapportent à l'équipement standard de la grue et constituent uniquement des informations générales. Pour le fonctionnement correct de la grue, le manuel d'instructions original et les tableaux des charges de levage sont déterminants. Toutes les informations sont fournies sans garantie. Nous nous réservons le droit de modifier les informations à notre discrétion. Les illustrations sont présentées à des fins d'illustration uniquement. Toutes les cotes - sauf indication différente - en feet [millimeters].

A no ser que se indique lo contrario, todos los datos incluidos en este folleto hacen referencia al equipamiento estándar de la grúa y sólo tienen un carácter informativo general. El manual de instrucciones original y las tablas de capacidades de carga son determinantes para lograr un correcto funcionamiento de la grúa. Todos los datos se facilitan sin garantía. Queda reservado el derecho de introducir modificaciones según nuestra única discreción. Las ilustraciones se incluyen únicamente con fines ilustrativos. Todas las dimensiones - salvo indicación en contrario - en feet [millimeters].

Symbols · Glossaire des symboles · Glosario de simbolos

	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 · Capacilé 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
	Tiltable jib · Fléchette inclinable · Plumín regulable	**US t** **t**	= short tons · tonnes américaines · toneladas cortas = metric tons · tonnes métriques · toneladas métricas
	Hydraulically tiltable jib Fléchette inclinable hydrauliquement Plumín regulable hidráulicamente	**ASME**	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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