

ATF 220G-5

250 US t / 220 t MAX. CAPACITY

TIER 4f

**ALL
TERRAIN
CRANE**



2 ENGINES

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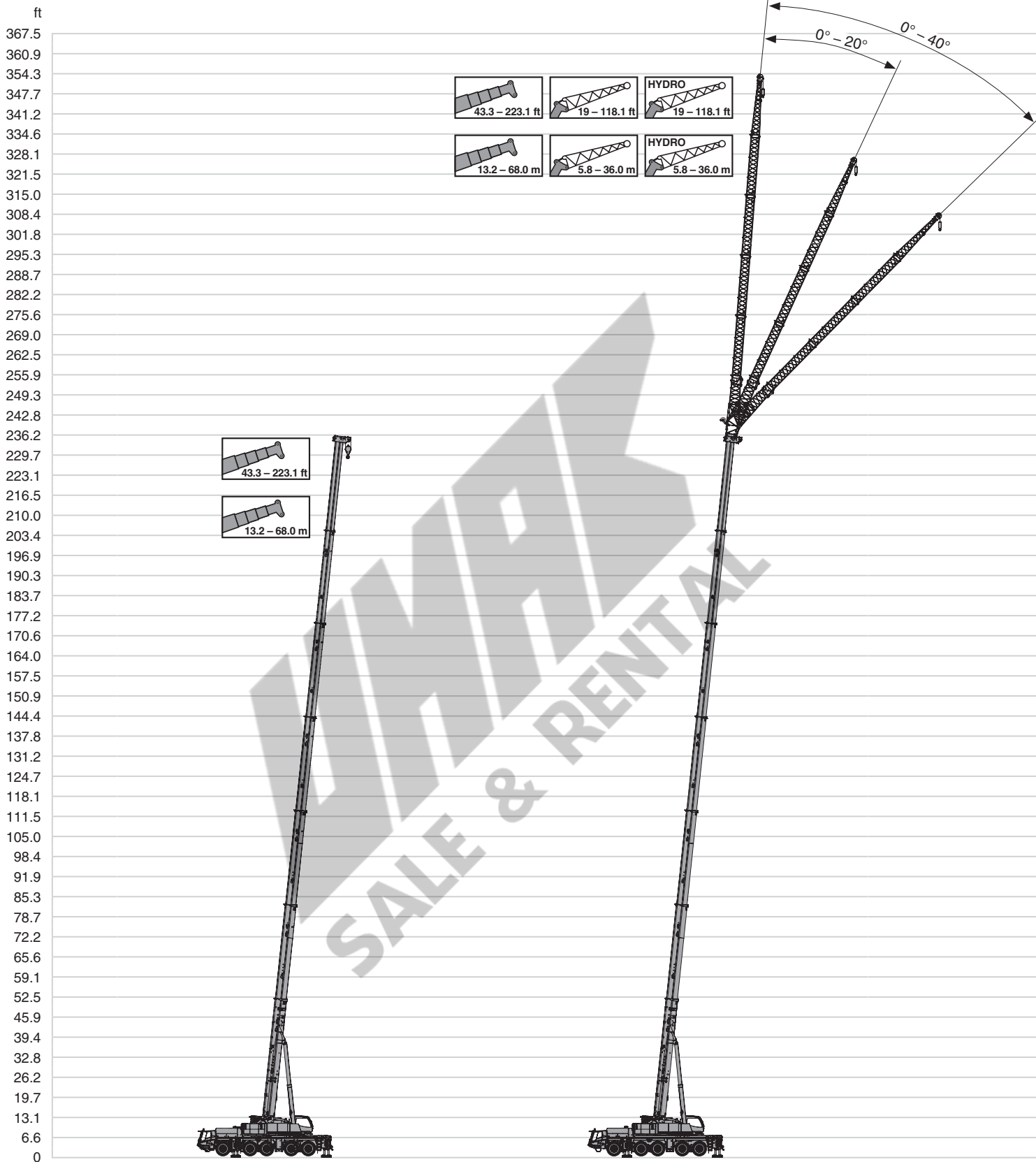
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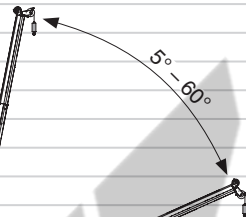
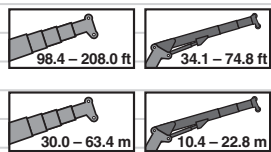
Symbols · Glossaire des symboles · Glosario de símbolos 59

GENERAL TECHNICAL DATA

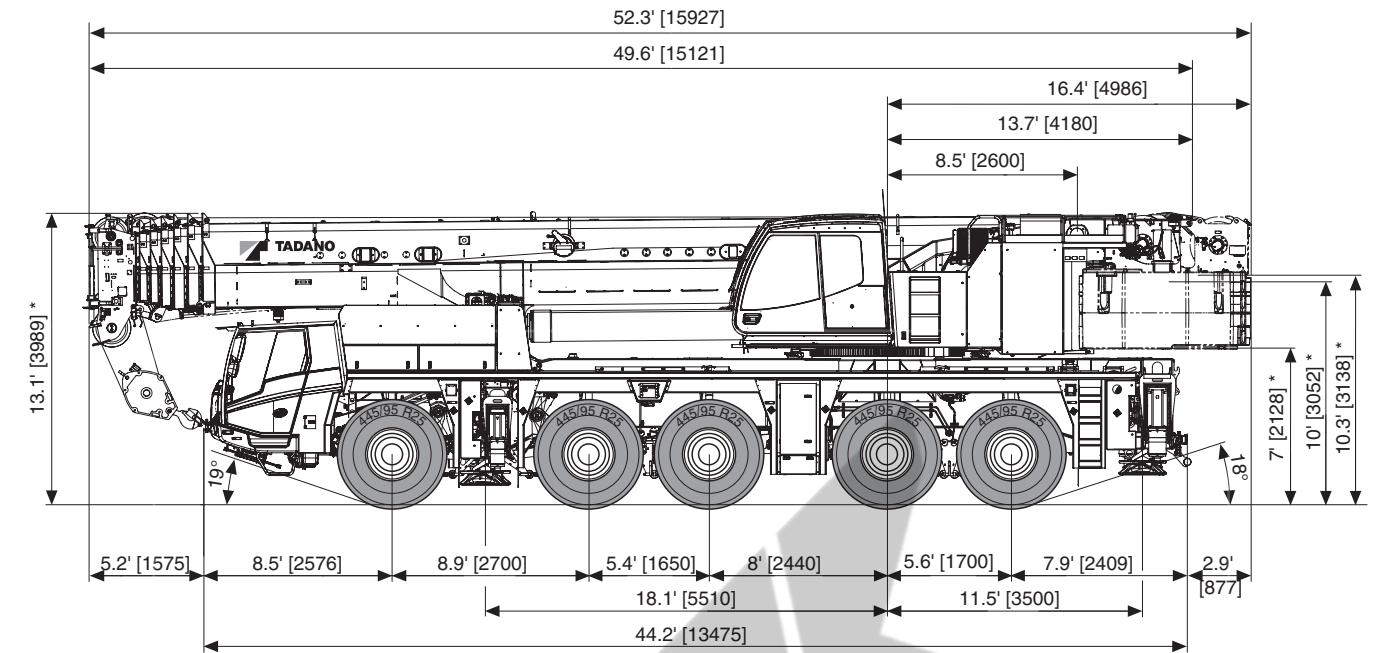
CARACTÉRISTIQUES TECHNIQUES GÉNÉRALES
DATOS TÉCNICOS GENERALES



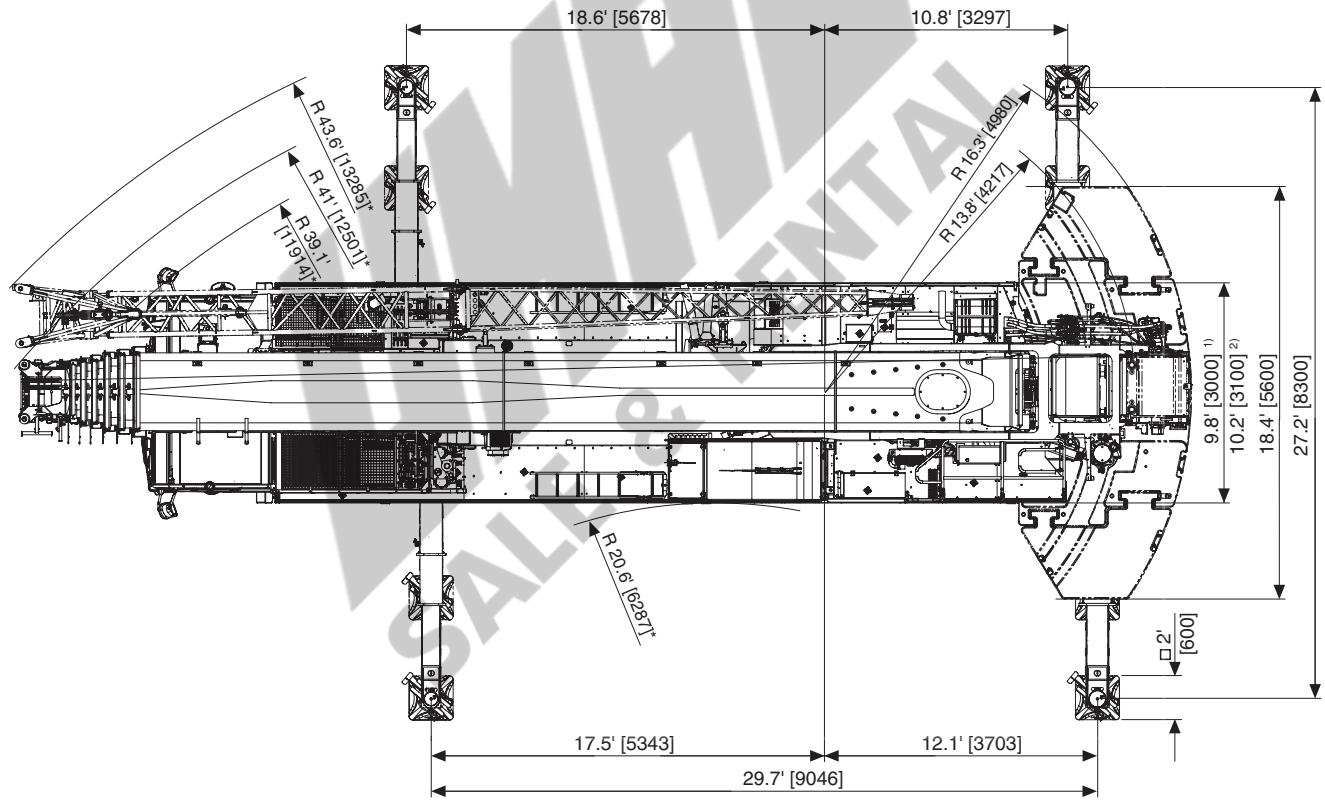




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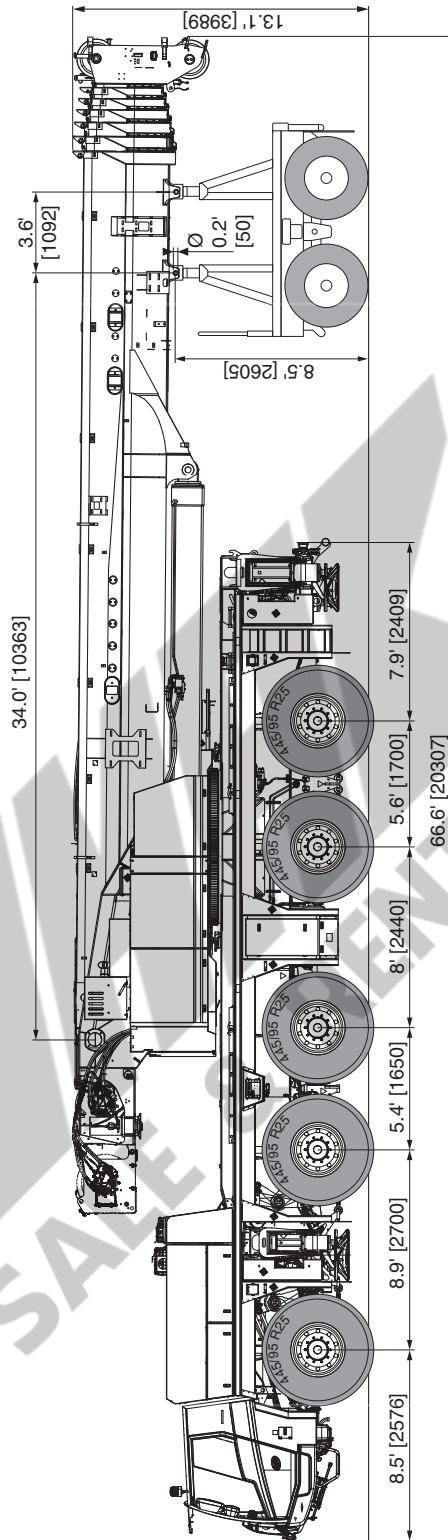
* - 0.4' [118] / +0.5' [158]



* 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)








UNIVERSITY
SALE & RENTAL







TECHNICAL DATA FOR ON-ROAD AND OFF-ROAD DRIVING

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



Axle loads

Boom to front		TOTAL					
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	1. Standard equipment + 2. Optional equipment + 3. Others	141,441/ 64157	25,811/ 11707	26,354/ 11954	29,829/ 13530	29,713/ 13477	29,735/ 13488
1. Standard Equipment	See page 54; no counterweight	129,338/ 58667	24,266/ 11007	24,817/ 11257	26,770/ 12143	26,740/ 12129	26,745/ 12131
2. Optional Equipment (selection)	Tyres 525/80R25 (20.50 R25) instead of 445/95R25 (16.00 R25)	1,442/ 654	288/ 131	288/ 131	289/ 131	289/ 131	289/ 131
	Towing hook at rear, including couplings for lights and brake	140/ 63	-57/ -26	-57/ -26	86/ 39	84/ 38	84/ 38
	Toolbox at rear (without wood storage)	197/ 90	-86/ -39	-85/ -39	125/ 57	121/ 55	122/ 55
	Auxiliary winch including rope	3,647/ 1654	-1,681/ -763	-1,670/ -758	2,377/ 1078	2,303/ 1045	2,319/ 1052
	Hose drum for hydraulic jib (detachable)	575/ 261	452/ 205	449/ 204	-111/ -50	-107/ -49	-108/ -49
	Hydraulic jib fixed on main boom (transport position)	3,420/ 1551	2,069/ 938	2,055/ 932	-239/ -108	-232/ -105	-233/ -106
	Additional oil cooler	104/ 47	-10/ -4	-10/ -4	42/ 19	41/ 19	41/ 19
	Single top	139/ 63	139/ 63	138/ 62	-47/ -21	-45/ -21	-46/ -21
	Hook block 11.0 US t / 10 t (hanging at main boom)	655/ 297	614/ 278	610/ 277	-193/ -88	-187/ -85	-188/ -85
3. Others	Driver	176/ 80	149/ 68	148/ 67	-41/ -19	-40/ -18	-40/ -18
	Fuel in carrier	1,138/ 516	-259/ -117	-257/ -116	561/ 255	544/ 247	548/ 248
	Fuel in superstructure	468/ 212	-73/ -33	-73/ -33	209/ 95	202/ 92	204/ 92
Additional weight information	Hook block 35.3 US t / 32 t (hanging at main boom)	977/ 443	941/ 427	935/ 424	-306/ -139	-296/ -134	-298/ -135
	Hook block 88.2 US t / 80 t (hanging at main boom)	1,742/ 790	1,699/ 771	1,688/ 765	-559/ -253	-541/ -246	-545/ -247
	Counterweight No. 1; 4,409 lbs/2.0 t (on carrier)	4,407/ 1999	1,494/ 678	1,484/ 673	485/ 220	470/ 213	473/ 215
	Counterweight No. 2; 22,046 lbs/10.0 t (on carrier)	21,341/ 9680	7,293/ 3308	7,244/ 3286	2,311/ 1048	2,239/ 1016	2,254/ 1023
	Counterweight No. 3; 25,353 lbs/11.5 t (on carrier)	25,582/ 11604	8,639/ 3919	8,581/ 3892	2,840/ 1288	2,752/ 1248	2,770/ 1257
	Counterweight No. 4; 25,353 lbs/11.5 t (on carrier)	25,467/ 11552	8,686/ 3940	8,627/ 3913	2,769/ 1256	2,683/ 1217	2,702/ 1225
	Counterweight No. 5; 26,455 lbs/12 t (on superstructure)	26,205/ 11886	-10,258/ -4653	-10,189/ -4622	15,844/ 7187	15,352/ 6964	15,455/ 7010
	Counterweight No. 6 + No. 7; 26,455 lbs + 26,455 lbs/ 12 t + 12 t (on superstructure)	52,802/ 23951	-20,555/ -9323	-20,417/ -9261	31,848/ 14446	30,859/ 13997	31,067/ 14092

Boom over rear, supported by dolly (35.8 ft / 10.91 m behind boom pivot point)		TOTAL						
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	1. Standard equipment + 2. Optional equipment + 3. Others	141,441/ 64157	20,060/ 9099	20,641/ 9363	22,772/ 10329	22,875/ 10376	22,852/ 10366	32,241/ 14624
1. Standard Equipment	See page 54; no counterweight	129,338/ 58667	18,388/ 8341	18,979/ 8609	21,304/ 9663	21,444/ 9727	21,413/ 9713	27,810/ 12614
2. Optional Equipment (selection)	Tyres 525/80R25 (20.50 R25) instead of 445/95R25 (16.00 R25)	1,442/ 654	288/ 131	288/ 131	289/ 131	289/ 131	289/ 131	0/ 0
	Towing hook for dolly, including couplings for lights and brake	140/ 63	-57/ -26	-57/ -26	86/ 39	84/ 38	84/ 38	0/ 0
	Toolbox at rear (without wood storage)	197/ 90	-86/ -39	-85/ -39	125/ 57	121/ 55	122/ 55	0/ 0
	Auxiliary winch including rope	3,647/ 1654	1,501/ 681	1,491/ 676	223/ 101	216/ 98	217/ 99	0/ 0
	Hose drum for hydraulic jib (detachable)	575/ 261	-1/ 0	-1/ 0	-1/ 0	-1/ 0	-1/ 0	579/ 263
	Hydraulic jib fixed on main boom (transport position)	3,420/ 1551	127/ 58	126/ 57	105/ 48	101/ 46	102/ 46	2,859/ 1297
	Additional oil cooler	104/ 47	5/ 2	5/ 2	32/ 15	31/ 14	32/ 14	0/ 0
	Single top	139/ 63	-7/ -3	-6/ -3	-5/ -2	-5/ -2	-5/ -2	168/ 76
	Hook block 11.0 US t / 10 t (hanging at main boom)	655/ 297	-37/ -17	-38/ -17	-32/ -15	-31/ -14	-31/ -14	826/ 375
3. Others	Driver	176/ 80	149/ 68	148/ 67	-41/ -19	-40/ -18	-40/ -18	0/ 0
	Fuel in carrier	1,138/ 516	-259/ -117	-257/ -116	561/ 255	544/ 247	548/ 248	0/ 0
	Fuel in superstructure	468/ 212	49/ 22	49/ 22	126/ 57	122/ 55	123/ 56	0/ 0
Additional weight information	Hook block 35.3 US t / 32 t (hanging at main boom)	977/ 443	-47/ -21	-47/ -21	-39/ -18	-38/ -17	-38/ -17	1,184/ 537
	Hook block 88.2 US t / 80 t (hanging at main boom)	1,742/ 790	-84/ -38	-83/ -38	-69/ -31	-67/ -30	-67/ -31	2,112/ 958
	Counterweight No. 1; 4,409 lbs/2.0 t (on carrier)	4,407/ 1999	1,494/ 678	1,484/ 673	485/ 220	470/ 213	473/ 215	0/ 0
	Counterweight No. 2; 22,046 lbs/10.0 t (on carrier)	21,341/ 9680	7,293/ 3308	7,244/ 3286	2,311/ 1048	2,239/ 1016	2,254/ 1023	0/ 0
	Counterweight No. 3; 25,353 lbs/11.5 t (on carrier)	25,582/ 11604	8,639/ 3919	8,581/ 3892	2,840/ 1288	2,752/ 1248	2,770/ 1257	0/ 0
	Counterweight No. 4; 25,353 lbs/11.5 t (on carrier)	25,467/ 11552	8,686/ 3940	8,627/ 3913	2,769/ 1256	2,683/ 1217	2,702/ 1225	0/ 0
	Counterweight No. 5; 26,455 lbs/12 t (on superstructure)	26,205/ 11886	8,910/ 4041	8,850/ 4014	2,868/ 1301	2,779/ 1261	2,798/ 1269	0/ 0
	Counterweight No. 6 + No. 7; 26,455 lbs + 26,455 lbs/ 12 t + 12 t (on superstructure)	52,802/ 23951	17,839/ 8092	17,719/ 8037	5,856/ 2656	5,675/ 2574	5,713/ 2591	0/ 0

Charges par essieu

Flèche vers l'avant		TOTAL					
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	1. Équipement standard + 2. équipement spécial + 3. autres	141,441/ 64157	25,811/ 11707	26,354/ 11954	29,829/ 13530	29,713/ 13477	29,735/ 13488
1. Équipement standard	Voir page 55; sans contrepoids	129,338/ 58667	24,266/ 11007	24,817/ 11257	26,770/ 12143	26,740/ 12129	26,745/ 12131
2. Équipement spécial (sélection)	Pneus 525/80R25 (20.50 R25) au lieu de 445/95R25 (16.00 R25)	1,442/ 654	288/ 131	288/ 131	289/ 131	289/ 131	289/ 131
	Crochet de remorquage pour chariot de transport, y compris accouplements pour éclairage et frein	140/ 63	-57/ -26	-57/ -26	86/ 39	84/ 38	84/ 38
	Boîte d'outillage à l'arrière de l'engin (sans boîte de rangement de bois)	197/ 90	-86/ -39	-85/ -39	125/ 57	121/ 55	122/ 55
	Treuil auxiliaire y compris câble métallique	3,647/ 1654	-1,681/ -763	-1,670/ -758	2,377/ 1078	2,303/ 1045	2,319/ 1052
	Tambour de flexible pour rallonge de flèche hydraulique (détachable)	575/ 261	452/ 205	449/ 204	-111/ -50	-107/ -49	-108/ -49
	Rallonge de flèche hydraulique fixée sur flèche principale (position de transport)	3,420/ 1551	2,069/ 938	2,055/ 932	-239/ -108	-232/ -105	-233/ -106
	Radiateur supplémentaire	104/ 47	-10/ -4	-10/ -4	42/ 19	41/ 19	41/ 19
	Poulie simple	139/ 63	139/ 63	138/ 62	-47/ -21	-45/ -21	-46/ -21
	Moufle 11.0 US t / 10 t (suspendue sur la flèche principale)	655/ 297	614/ 278	610/ 277	-193/ -88	-187/ -85	-188/ -85
3. Autres	Conducteur	176/ 80	149/ 68	148/ 67	-41/ -19	-40/ -18	-40/ -18
	Carburant dans le châssis	1,138/ 516	-259/ -117	-257/ -116	561/ 255	544/ 247	548/ 248
	Carburant dans la superstructure	468/ 212	-73/ -33	-73/ -33	209/ 95	202/ 92	204/ 92
Poids supplémentaires	Moufle 35.3 US t / 32 t (suspendue sur la flèche principale)	977/ 443	941/ 427	935/ 424	-306/ -139	-296/ -134	-298/ -135
	Moufle 88.2 US t / 80 t (suspendue sur la flèche principale)	1,742/ 790	1,699/ 771	1,688/ 765	-559/ -253	-541/ -246	-545/ -247
	Contrepoids n° 1; 4,409 lbs/2.0 t (sur châssis)	4,407/ 1999	1,494/ 678	1,484/ 673	485/ 220	470/ 213	473/ 215
	Contrepoids n° 2; 22,046 lbs/10.0 t (sur châssis)	21,341/ 9680	7,293/ 3308	7,244/ 3286	2,311/ 1048	2,239/ 1016	2,254/ 1023
	Contrepoids n° 3; 25,353 lbs/11.5 t (sur châssis)	25,582/ 11604	8,639/ 3919	8,581/ 3892	2,840/ 1288	2,752/ 1248	2,770/ 1257
	Contrepoids n° 4; 25,353 lbs/11.5 t (sur châssis)	25,467/ 11552	8,686/ 3940	8,627/ 3913	2,769/ 1256	2,683/ 1217	2,702/ 1225
	Contrepoids n° 5; 26,455 lbs/12 t (sur superstructure)	26,205/ 11886	-10,258/ -4653	-10,189/ -4622	15,844/ 7187	15,352/ 6964	15,455/ 7010
	Contrepoids n° 6 + n° 7; 26,455 lbs + 26,455 lbs/ 12 t + 12 t (sur superstructure)	52,802/ 23951	-20,555/ -9323	-20,417/ -9261	31,848/ 14446	30,859/ 13997	31,067/ 14092

Flèche vers l'arrière, soutenue par chariot de transport "Dolly" (35.8 ft / 10.91 m derrière le point d'articulation de la flèche)		TOTAL						
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	1. Équipement standard + 2. équipement spécial + 3. autres	141,441/ 64157	20,060/ 9099	20,641/ 9363	22,772/ 10329	22,875/ 10376	22,852/ 10366	32,241/ 14624
1. Équipement standard	Voir page 55; sans contrepoids	129,338/ 58667	18,388/ 8341	18,979/ 8609	21,304/ 9663	21,444/ 9727	21,413/ 9713	27,810/ 12614
2. Équipement spécial (sélection)	Pneus 525/80R25 (20.50 R25) au lieu de 445/95R25 (16.00 R25)	1,442/ 654	288/ 131	288/ 131	289/ 131	289/ 131	289/ 131	0/ 0
	Crochet de remorquage pour chariot de transport, y compris accouplements pour éclairage et frein	140/ 63	-57/ -26	-57/ -26	86/ 39	84/ 38	84/ 38	0/ 0
	Boîte d'outillage à l'arrière de l'engin (sans boîte de rangement de bois)	197/ 90	-86/ -39	-85/ -39	125/ 57	121/ 55	122/ 55	0/ 0
	Treuil auxiliaire y compris câble métallique	3,647/ 1654	1,501/ 681	1,491/ 676	223/ 101	216/ 98	217/ 99	0/ 0
	Tambour de flexible pour rallonge de flèche hydraulique (détachable)	575/ 261	-1/ 0	-1/ 0	-1/ 0	-1/ 0	-1/ 0	579/ 263
	Rallonge de flèche hydraulique fixée sur flèche principale (position de transport)	3,420/ 1551	127/ 58	126/ 57	105/ 48	101/ 46	102/ 46	2,859/ 1297
	Radiateur supplémentaire	104/ 47	5/ 2	5/ 2	32/ 15	31/ 14	32/ 14	0/ 0
	Poulie simple	139/ 63	-7/ -3	-6/ -3	-5/ -2	-5/ -2	-5/ -2	168/ 76
	Moufle 11.0 US t / 10 t (suspendue sur la flèche principale)	655/ 297	-37/ -17	-38/ -17	-32/ -15	-31/ -14	-31/ -14	826/ 375
3. Autres	Conducteur	176/ 80	149/ 68	148/ 67	-41/ -19	-40/ -18	-40/ -18	0/ 0
	Carburant dans le châssis	1,138/ 516	-259/ -117	-257/ -116	561/ 255	544/ 247	548/ 248	0/ 0
	Carburant dans la superstructure	468/ 212	49/ 22	49/ 22	126/ 57	122/ 55	123/ 56	0/ 0
Poids supplémentaires	Moufle 35.3 US t / 32 t (suspendue sur la flèche principale)	977/ 443	-47/ -21	-47/ -21	-39/ -18	-38/ -17	-38/ -17	1,184/ 537
	Moufle 88.2 US t / 80 t (suspendue sur la flèche principale)	1,742/ 790	-84/ -38	-83/ -38	-69/ -31	-67/ -30	-67/ -31	2,112/ 958
	Contrepoids n° 1; 4,409 lbs/2.0 t (sur châssis)	4,407/ 1999	1,494/ 678	1,484/ 673	485/ 220	470/ 213	473/ 215	0/ 0
	Contrepoids n° 2; 22,046 lbs/10.0 t (sur châssis)	21,341/ 9680	7,293/ 3308	7,244/ 3286	2,311/ 1048	2,239/ 1016	2,254/ 1023	0/ 0
	Contrepoids n° 3; 25,353 lbs/11.5 t (sur châssis)	25,582/ 11604	8,639/ 3919	8,581/ 3892	2,840/ 1288	2,752/ 1248	2,770/ 1257	0/ 0
	Contrepoids n° 4; 25,353 lbs/11.5 t (sur châssis)	25,467/ 11552	8,686/ 3940	8,627/ 3913	2,769/ 1256	2,683/ 1217	2,702/ 1225	0/ 0
	Contrepoids n° 5; 26,455 lbs/12 t (sur superstructure)	26,205/ 11886	8,910/ 4041	8,850/ 4014	2,868/ 1301	2,779/ 1261	2,798/ 1269	0/ 0
	Contrepoids n° 6 + n° 7; 26,455 lbs + 26,455 lbs/ 12 t + 12 t (sur superstructure)	52,802/ 23951	17,839/ 8092	17,719/ 8037	5,856/ 2656	5,675/ 2574	5,713/ 2591	0/ 0

Cargas por eje

Pluma dirigida hacia adelante		TOTAL					
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	1. Equipamiento estándar + 2. Equipamiento especial + 3. Otros	141,441/ 64157	25,811/ 11707	26,354/ 11954	29,829/ 13530	29,713/ 13477	29,735/ 13488
1. Equipamiento estándar	Ver páginas 56; sin contrapeso	129,338/ 58667	24,266/ 11007	24,817/ 11257	26,770/ 12143	26,740/ 12129	26,745/ 12131
2. Equipamiento especial (selección)	Neumáticos 525/80R25 (20.50 R25) en lugar de 445/95R25 (16.00 R25)	1,442/ 654	288/ 131	288/ 131	289/ 131	289/ 131	289/ 131
	Dispositivo de enganche para remolque, incluyendo los acoplamientos para iluminación y frenos	140/ 63	-57/ -26	-57/ -26	86/ 39	84/ 38	84/ 38
	Caja de herramientas en la parte trasera (sin caja para maderos)	197/ 90	-86/ -39	-85/ -39	125/ 57	121/ 55	122/ 55
	Torno auxiliar incluyendo el cable	3,647/ 1654	-1,681/ -763	-1,670/ -758	2,377/ 1078	2,303/ 1045	2,319/ 1052
	Tambor de manguera para alargamiento de pluma hidráulica (desmontable)	575/ 261	452/ 205	449/ 204	-111/ -50	-107/ -49	-108/ -49
	Alargamiento de pluma hidráulica fijado sobre pluma principal (posición de transporte)	3,420/ 1551	2,069/ 938	2,055/ 932	-239/ -108	-232/ -105	-233/ -106
	Radiator de aceite adicional	104/ 47	-10/ -4	-10/ -4	42/ 19	41/ 19	41/ 19
	Rodillo antepuesto	139/ 63	139/ 63	138/ 62	-47/ -21	-45/ -21	-46/ -21
	Motón 11.0 US t / 10 t (suspendido desde la pluma principal)	655/ 297	614/ 278	610/ 277	-193/ -88	-187/ -85	-188/ -85
3. Otros	Conductor	176/ 80	149/ 68	148/ 67	-41/ -19	-40/ -18	-40/ -18
	Combustible en el chasis	1,138/ 516	-259/ -117	-257/ -116	561/ 255	544/ 247	548/ 248
	Combustible en la superestructura	468/ 212	-73/ -33	-73/ -33	209/ 95	202/ 92	204/ 92
Pesos adicionales	Motón 35.3 US t / 32 t (suspendido desde la pluma principal)	977/ 443	941/ 427	935/ 424	-306/ -139	-296/ -134	-298/ -135
	Motón 88.2 US t / 80 t (suspendido desde la pluma principal)	1,742/ 790	1,699/ 771	1,688/ 765	-559/ -253	-541/ -246	-545/ -247
	Contrapeso N° 1; 4,409 lbs/2.0 t (encima del chasis)	4,407/ 1999	1,494/ 678	1,484/ 673	485/ 220	470/ 213	473/ 215
	Contrapeso N° 2; 22,046 lbs/10.0 t (encima del chasis)	21,341/ 9680	7,293/ 3308	7,244/ 3286	2,311/ 1048	2,239/ 1016	2,254/ 1023
	Contrapeso N° 3; 25,353 lbs/11.5 t (encima del chasis)	25,582/ 11604	8,639/ 3919	8,581/ 3892	2,840/ 1288	2,752/ 1248	2,770/ 1257
	Contrapeso N° 4; 25,353 lbs/11.5 t (encima del chasis)	25,467/ 11552	8,686/ 3940	8,627/ 3913	2,769/ 1256	2,683/ 1217	2,702/ 1225
	Contrapeso N° 5; 26,455 lbs/12 t (encima del superestructura)	26,205/ 11886	-10,258/ -4653	-10,189/ -4622	15,844/ 7187	15,352/ 6964	15,455/ 7010
	Contrapeso N° 6 + N° 7; 26,455 lbs + 26,455 lbs/12 t + 12 t (encima del superestructura)	52,802/ 23951	-20,555/ -9323	-20,417/ -9261	31,848/ 14446	30,859/ 13997	31,067/ 14092

Pluma hacia atrás, apoyada por carro tipo dolly (35.8 ft / 10.91 m detrás punto de articulación de la pluma)		TOTAL						
		lb/kg	1 lb/kg	2 lb/kg	3 lb/kg	4 lb/kg	5 lb/kg	lb/kg
Total	1. Equipamiento estándar + 2. Equipamiento especial + 3. Otros	141,441/ 64157	20,060/ 9099	20,641/ 9363	22,772/ 10329	22,875/ 10376	22,852/ 10366	32,241/ 14624
1. Equipamiento estándar	Ver páginas 56; sin contrapeso	129,338/ 58667	18,388/ 8341	18,979/ 8609	21,304/ 9663	21,444/ 9727	21,413/ 9713	27,810/ 12614
2. Equipamiento especial (selección)	Neumáticos 525/80R25 (20.50 R25) en lugar de 445/95R25 (16.00 R25)	1,442/ 654	288/ 131	288/ 131	289/ 131	289/ 131	289/ 131	0/ 0
	Dispositivo de enganche para remolque, incluyendo los acoplamientos para iluminación y frenos	140/ 63	-57/ -26	-57/ -26	86/ 39	84/ 38	84/ 38	0/ 0
	Caja de herramientas en la parte trasera (sin caja para maderos)	197/ 90	-86/ -39	-85/ -39	125/ 57	121/ 55	122/ 55	0/ 0
	Torno auxiliar incluyendo el cable	3,647/ 1654	1,501/ 681	1,491/ 676	223/ 101	216/ 98	217/ 99	0/ 0
	Tambor de manguera para alargamiento de pluma hidráulico (desmontable)	575/ 261	-1/ 0	-1/ 0	-1/ 0	-1/ 0	-1/ 0	579/ 263
	Alargamiento de pluma hidráulica fijado sobre pluma principal (posición de transporte)	3,420/ 1551	127/ 58	126/ 57	105/ 48	101/ 46	102/ 46	2,859/ 1297
	Radiator de aceite adicional	104/ 47	5/ 2	5/ 2	32/ 15	31/ 14	32/ 14	0/ 0
	Rodillo antepuesto	139/ 63	-7/ -3	-6/ -3	-5/ -2	-5/ -2	-5/ -2	168/ 76
	Motón 11.0 US t / 10 t (suspendido desde la pluma principal)	655/ 297	-37/ -17	-38/ -17	-32/ -15	-31/ -14	-31/ -14	826/ 375
3. Otros	Conductor	176/ 80	149/ 68	148/ 67	-41/ -19	-40/ -18	-40/ -18	0/ 0
	Combustible en el chasis	1,138/ 516	-259/ -117	-257/ -116	561/ 255	544/ 247	548/ 248	0/ 0
	Combustible en la superestructura	468/ 212	49/ 22	49/ 22	126/ 57	122/ 55	123/ 56	0/ 0
Pesos adicionales	Motón 35.3 US t / 32 t (suspendido desde la pluma principal)	977/ 443	-47/ -21	-47/ -21	-39/ -18	-38/ -17	-38/ -17	1,184/ 537
	Motón 88.2 US t / 80 t (suspendido desde la pluma principal)	1,742/ 790	-84/ -38	-83/ -38	-69/ -31	-67/ -30	-67/ -31	2,112/ 958
	Contrapeso N° 1; 4,409 lbs/2.0 t (encima del chasis)	4,407/ 1999	1,494/ 678	1,484/ 673	485/ 220	470/ 213	473/ 215	0/ 0
	Contrapeso N° 2; 22,046 lbs/10.0 t (encima del chasis)	21,341/ 9680	7,293/ 3308	7,244/ 3286	2,311/ 1048	2,239/ 1016	2,254/ 1023	0/ 0
	Contrapeso N° 3; 25,353 lbs/11.5 t (encima del chasis)	25,582/ 11604	8,639/ 3919	8,581/ 3892	2,840/ 1288	2,752/ 1248	2,770/ 1257	0/ 0
	Contrapeso N° 4; 25,353 lbs/11.5 t (encima del chasis)	25,467/ 11552	8,686/ 3940	8,627/ 3913	2,769/ 1256	2,683/ 1217	2,702/ 1225	0/ 0
	Contrapeso N° 5; 26,455 lbs/12 t (encima del superestructura)	26,205/ 11886	8,910/ 4041	8,850/ 4014	2,868/ 1301	2,779/ 1261	2,798/ 1269	0/ 0
	Contrapeso N° 6 + N° 7; 26,455 lbs + 26,455 lbs/12 t + 12 t (encima del superestructura)	52,802/ 23951	17,839/ 8092	17,719/ 8037	5,856/ 2656	5,675/ 2574	5,713/ 2591	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 gravisement de pente · Velocidades y pendientes superables

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

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

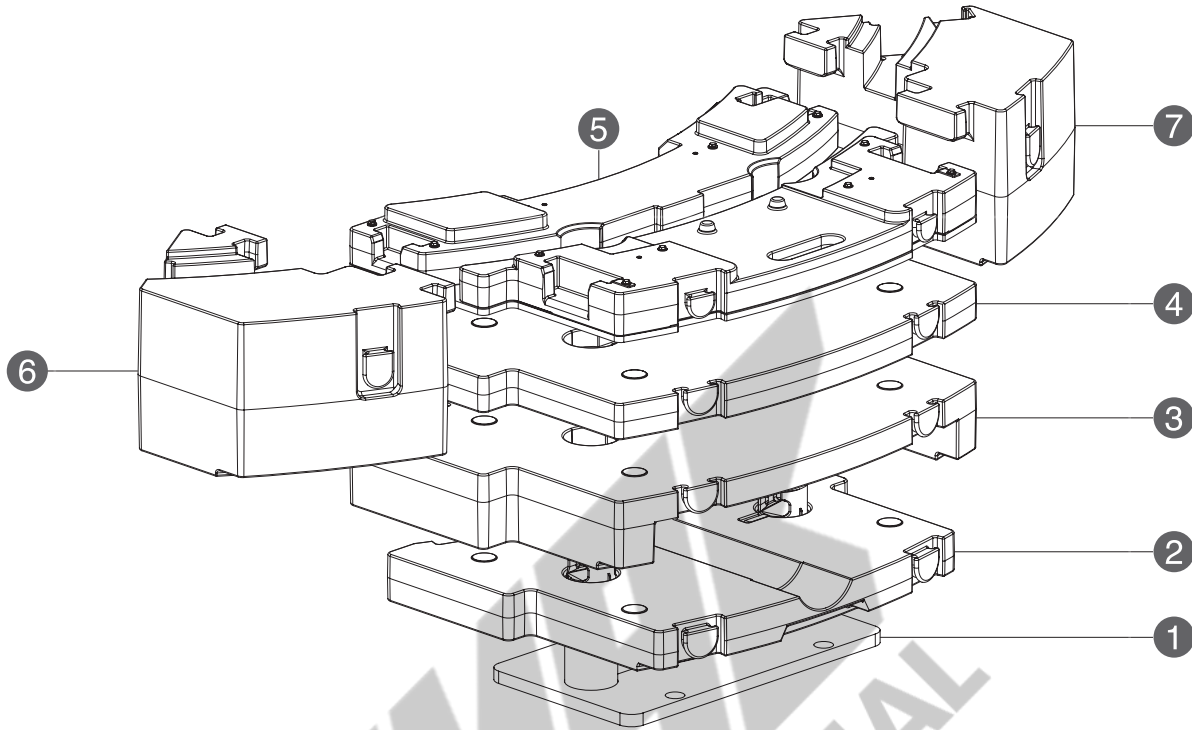
Steering · Direction · Dirección

		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

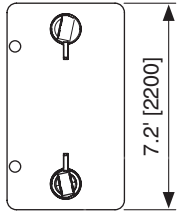
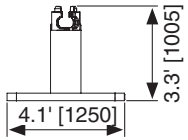
CARACTÉRISTIQUES TECHNIQUES POUR LE TRANSPORT
DATOS TÉCNICOS PARA EL TRANSPORTE



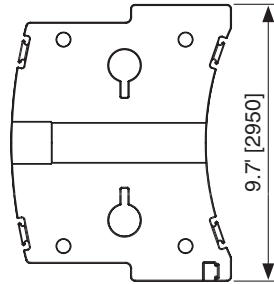
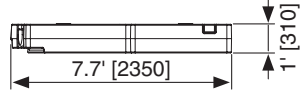


		26,455 lbs 12.0 t	51,809 lbs 23.5 t	77,162 lbs 35.0 t	103,617 lbs 47.0 t	131,175 lbs 59.5 t	156,528 lbs 71.0 t
①	4,409 lbs 2.0 t	1	1	1	1	1	1
②	22,046 lbs 10.0 t	1	1	1	1	1	1
③	25,353 lbs 11.5 t	-	1	1	1	1	1
④	25,353 lbs 11.5 t	-	-	1	1	-	1
⑤	26,455 lbs 12.0 t	-	-	-	1	1	1
⑥	26,455 lbs 12.0 t	-	-	-	-	1	1
⑦	26,455 lbs 12.0 t	-	-	-	-	1	1

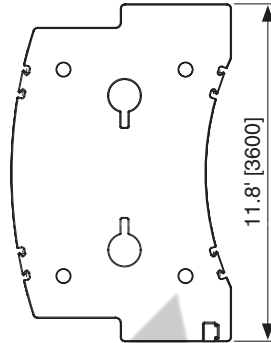
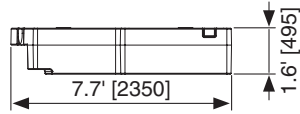
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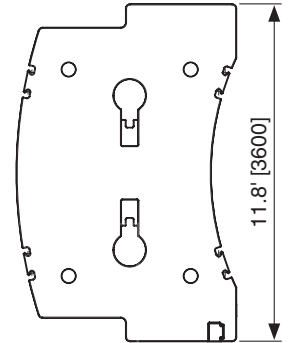
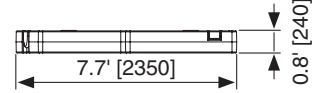
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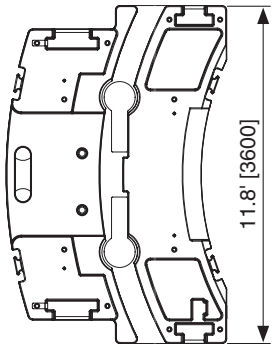
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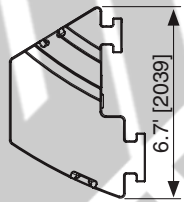
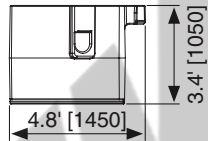
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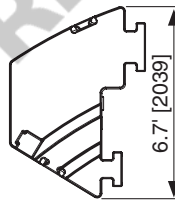
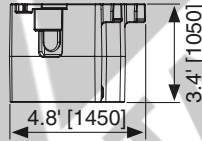
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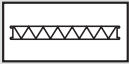
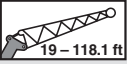

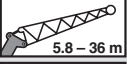



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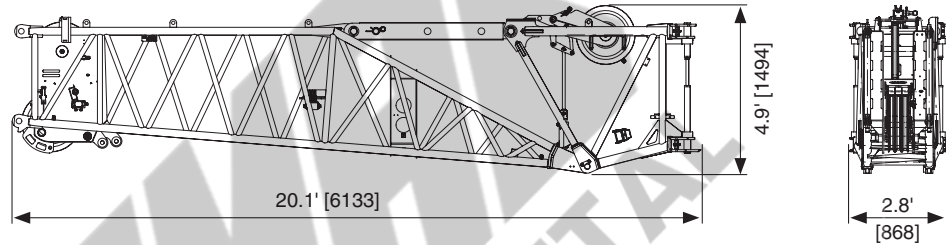
7





	ft	m	
 19 – 118.1 ft  HYDRO 19 – 118.1 ft  5.8 – 36 m  HYDRO 5.8 – 36 m	3.6 ft + 15.4 ft	1.1 m + 4.7 m	①
	3.6 ft + 35.8 ft	1.1 m + 10.9 m	① + ③
	3.6 ft + 55.4 ft	1.1 m + 16.9 m	① + ② + ③
	3.6 ft + 75.1 ft	1.1 m + 22.9 m	① + ② + ② + ③
	3.6 ft + 94.8 ft	1.1 m + 28.9 m	① + ② + ② + ② + ③
	3.6 ft + 114.5 ft	1.1 m + 34.9 m	① + ② + ② + ② + ② + ③

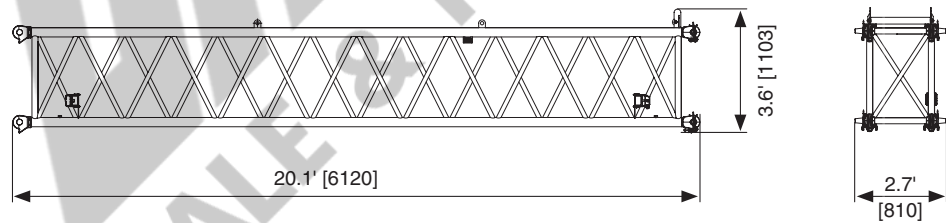
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 1020



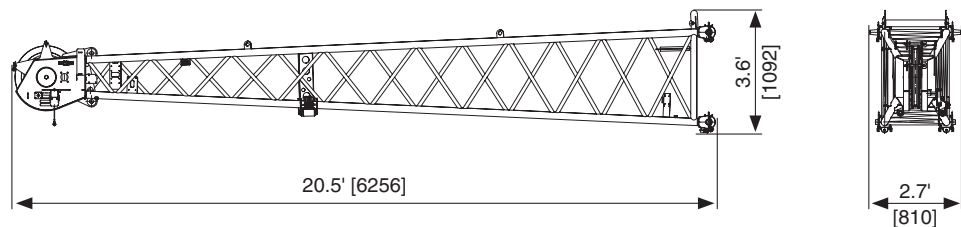
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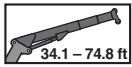
 966
 438



3

 853
 387

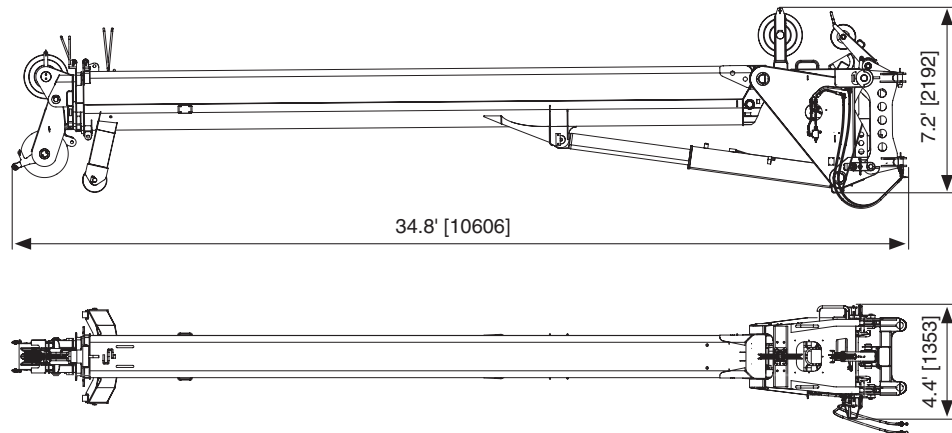




10,750



4876



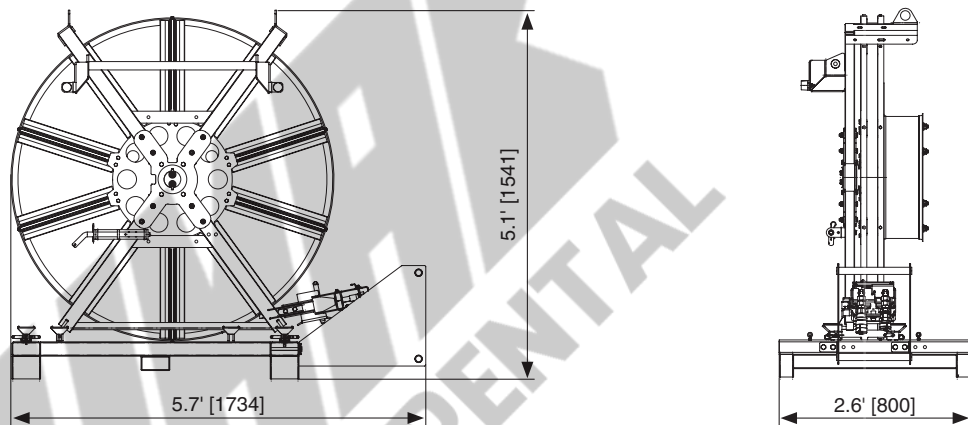
Hose drum for hydraulic jib · Tambour de flexible pour fléchette hydraulique · Devanadera para plumín hidráulico



551



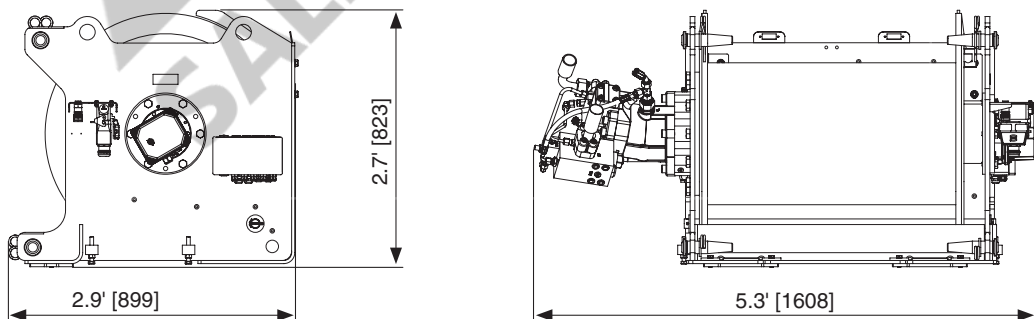
250



Auxiliary winch · Treuil supplémentaire · Cabrestante auxiliar



2,066/ 937/
3,605* 1635*



* with rope · avec câble · con cable

WMA
SALE & RENTAL

TECHNICAL DATA FOR OPERATION



CARACTÉRISTIQUES TECHNIQUES POUR L'UTILISATION
DATOS TÉCNICOS PARA EL USO

EMARK
SALE & RENTAL



Operation · Utilisation · Uso






Main boom · Flèche principale · Pluma principal

	-1.3° – 84°	~ 60 s
	43.3 ft – 223.1 ft 13.2 m – 68.0 m	~ 500 s






Swing mechanism · Groupe de rotation · Mecanismo de giro

	0 – 1.2 min ⁻¹		0° / 180°
---	---------------------------	---	-----------

Winches · Treuils · Cabrestantes

			
	0 – 420 ft/min 0 – 128 m/min	0.83 in / 1,049.9 ft 21 mm / 320 m	22,031 lbs / 98 kN
	0 – 420 ft/min 0 – 128 m/min	0.83 in / 1,049.9 ft 21 mm / 320 m	22,031 lbs / 98 kN

Hook blocks · Moufles · Pastecas de carga

				
275.6 US t* / 250 t*	469,144 / 212.8	11	23	4,409 / 2000
220.5 US t* / 200 t*	392,202 / 177.9	9	19	3,527 / 1600
176.4 US t* / 160 t*	313,277 / 142.1	7	15	2,976 / 1350
137.8 US t* / 125 t*	232,367 / 105.4	5	11	2,535 / 1150
88.2 US t* / 80 t*	149,694 / 67.9	3	7	1,874 / 850
88.2 US t / 80 t	149,694 / 67.9	3	7	1,874 / 850
35.3 US t / 32 t	64,816 / 29.4	1	3	992 / 450
11.0 US t / 10 t	22,046 / 10	0	1	661 / 300

* Twin hook · Moufle avec crochet marin · Gancho doble

UNIVERSITY
SALE & RENTAL

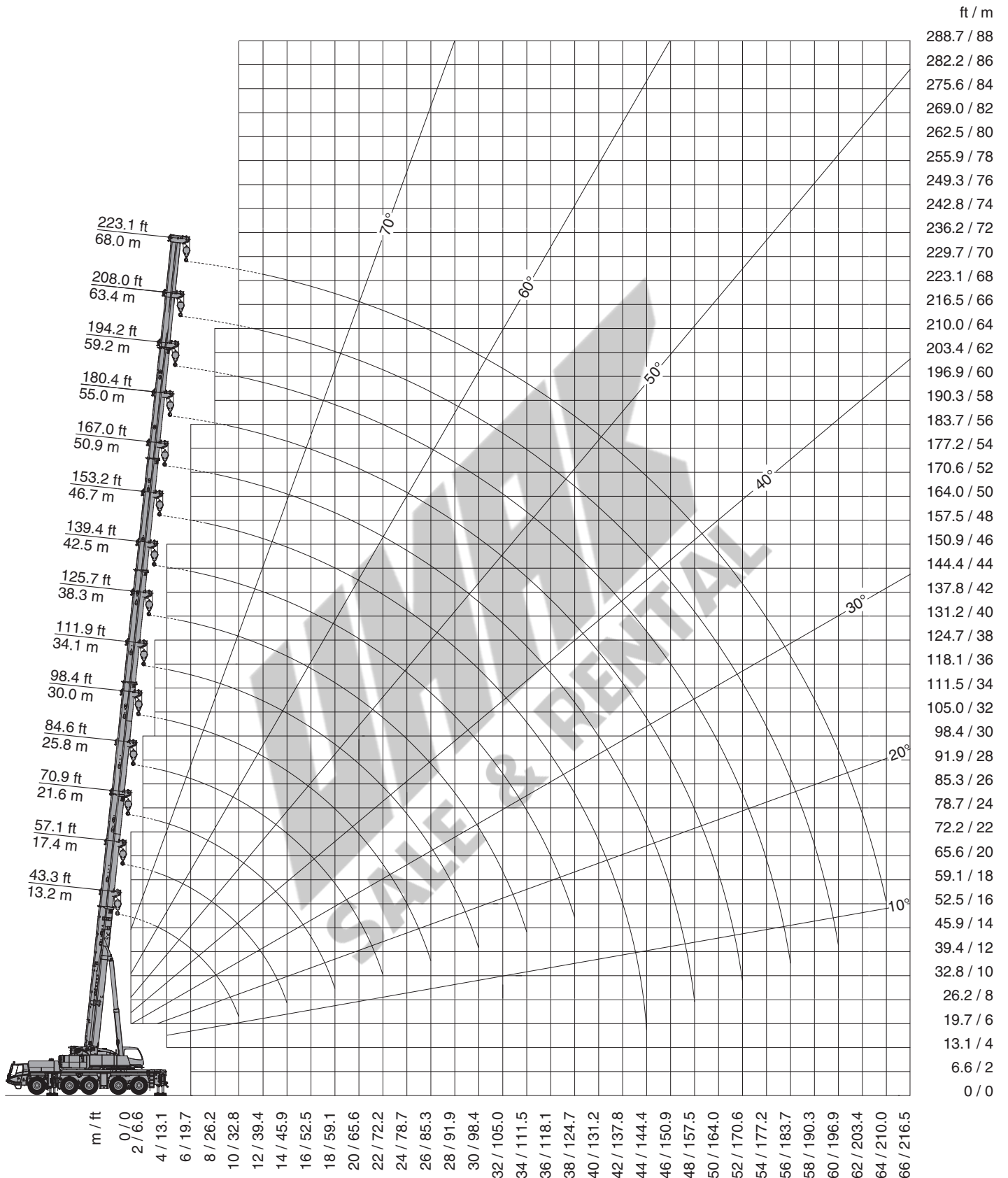
Working range · Rayon de travail · Zona de trabajo




156,528 lbs
ASME




71 t
ASME





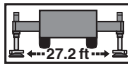
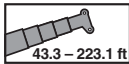
156,528 lbs **ASME**

lbs x 1,000

ft	43.3 ft*	43.3 ft	57.1 ft	70.9 ft	84.6 ft	98.4 ft	111.9 ft	125.7 ft	139.4 ft	153.2 ft	167.0 ft	180.4 ft	194.2 ft	208.0 ft	223.1 ft
8.2	485.0**														
9.8	396.8**	389.1**	308.6**	308.6**	252.2										
11.5	373.7**	352.7**	308.6**	308.6**	252.2	199.5									
13.1	352.7**	331.8**	308.6**	308.6**	244.9	199.5									
14.8	331.8**	304.2**	304.7**	301.8**	231.0	199.5	154.3								
16.4	298.7**	280.0	281.1	277.8	227.1	195.1	154.3	120.2							
19.7	248.0	240.3	241.8	238.5	227.1	175.9	154.3	120.2	95.9						
23.0	212.3	210.5	211.2	210.8	209.2	170.9	147.0	120.2	95.9	76.1					
26.2	184.3	184.3	185.2	186.1	183.2	170.9	134.9	120.2	95.9	76.1	62.8				
29.5	162.0	162.0	162.7	163.6	160.9	162.5	127.9	116.4	95.9	76.1	62.8	50.7			
32.8	144.2	144.2	146.2	145.5	145.9	144.4	127.9	108.0	94.1	76.1	62.8	50.7	41.4		
36.1			131.4	131.6	132.1	129.4	127.2	100.8	89.3	76.1	62.8	50.7	41.4	33.1	
39.4			119.0	120.4	119.5	117.1	119.0	95.7	86.6	74.1	62.8	50.7	41.4	33.1	30.4
45.9			99.6	101.0	100.1	101.0	99.6	89.3	79.4	69.4	61.1	50.7	41.4	33.1	30.4
52.5				86.4	87.3	86.4	85.1	83.8	71.7	64.4	56.2	50.3	41.4	33.1	30.4
59.1				75.2	75.8	75.0	73.6	75.2	64.8	59.1	52.0	46.7	41.2	33.1	30.4
65.6					66.8	65.9	67.5	66.1	59.1	54.7	48.3	44.1	38.4	33.1	30.4
72.2					59.1	59.7	59.7	58.0	54.2	50.5	45.0	41.2	36.4	32.8	30.4
78.7						53.6	52.5	50.7	49.2	46.7	42.1	38.6	34.2	30.9	29.1
85.3							47.6	46.5	44.8	43.2	42.8	39.2	36.2	32.4	29.3
91.9								41.4	39.7	38.1	39.7	37.0	34.2	30.6	27.8
98.4								37.3	35.5	35.9	35.5	33.7	32.2	28.9	26.2
105.0									32.4	33.3	31.7	30.2	30.4	27.6	24.9
111.5									31.3	30.2	28.7	28.0	28.2	26.2	23.8
118.1										27.3	25.8	26.7	26.2	25.1	22.5
124.7										24.9	24.5	25.1	23.8	24.0	21.6
131.2											23.6	22.9	22.0	22.0	20.5
137.8												21.8	20.9	20.1	19.6
144.4												18.5	19.2	18.3	18.3
150.9													17.9	17.2	16.8
157.5														16.5	15.2
164.0															15.0
170.6															13.9
177.2															12.6
183.7															12.1
190.3															11.5
196.9															11.5
203.4															10.4
210.0															9.7
															9.5
															8.8
															8.6
															7.7
															7.1



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

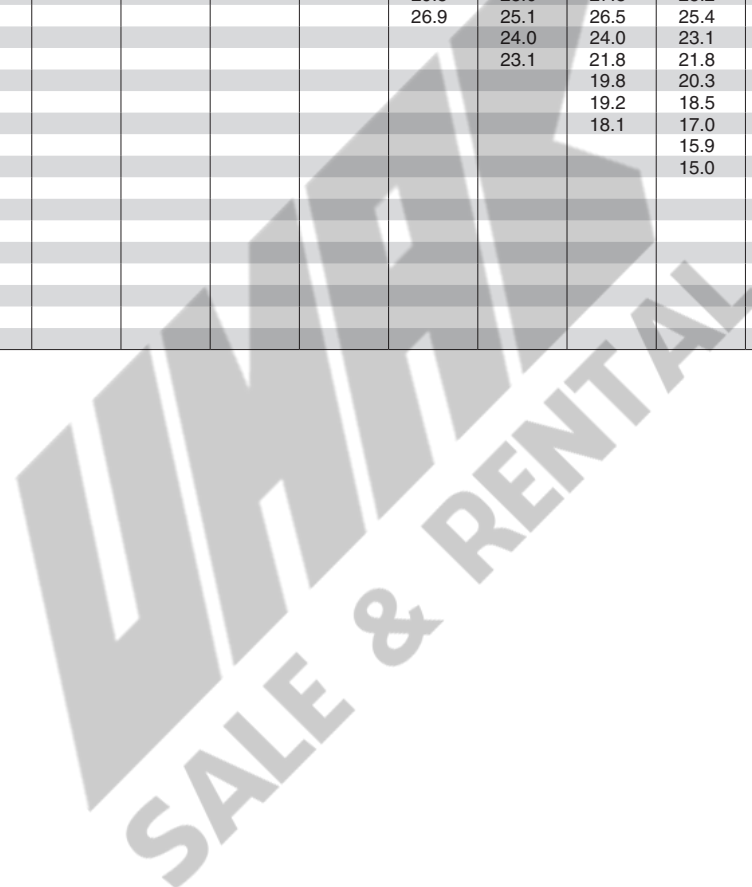


131,175 lbs

ASME

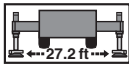
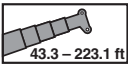
lbs x 1,000

ft	43.3 ft*	43.3 ft	57.1 ft	70.9 ft	84.6 ft	98.4 ft	111.9 ft	125.7 ft	139.4 ft	153.2 ft	167.0 ft	180.4 ft	194.2 ft	208.0 ft	223.1 ft
8.2	485.0**														
9.8	396.8**	389.1**	308.6**	308.6**	252.2										
11.5	373.7**	352.7**	308.6**	308.6**	252.2	199.5									
13.1	352.7**	324.3**	308.6**	308.6**	244.9	199.5									
14.8	320.6**	296.7**	297.2**	293.9**	231.0	199.5	154.3								
16.4	288.6	272.9	273.4	270.1	227.1	195.1	154.3	120.2							
19.7	239.9	234.1	234.6	232.6	227.1	175.9	154.3	120.2	95.9						
23.0	204.4	203.0	203.3	204.1	201.5	170.9	147.0	120.2	95.9	76.1					
26.2	176.8	175.5	175.7	176.6	173.7	170.9	134.9	120.2	95.9	76.1	62.8				
29.5	155.0	153.9	155.9	155.0	155.4	153.9	127.9	116.4	95.9	76.1	62.8	50.7			
32.8	137.8	136.7	138.5	138.9	139.1	136.7	127.9	108.0	94.1	76.1	62.8	50.7	41.4		
36.1			124.3	125.7	125.0	122.6	124.3	100.8	89.3	76.1	62.8	50.7	41.4	33.1	
39.4			112.7	114.0	113.1	114.0	112.7	95.7	86.6	74.1	62.8	50.7	41.4	33.1	30.4
45.9			95.2	95.5	96.3	95.5	94.1	89.3	79.4	69.4	61.1	50.7	41.4	33.1	30.4
52.5				81.4	82.2	81.4	79.6	81.6	71.7	64.4	56.2	50.3	41.4	33.1	30.4
59.1				69.2	69.0	68.3	69.9	68.1	64.8	59.1	52.0	46.7	41.2	33.1	30.4
65.6					58.9	60.8	59.5	57.8	56.2	54.7	48.3	44.1	38.4	33.1	30.4
72.2					53.1	52.7	51.6	49.8	48.3	47.6	45.0	41.2	36.4	32.8	30.4
78.7						46.3	45.0	43.2	42.8	43.4	41.7	38.6	34.2	30.9	29.1
85.3						41.0	39.7	38.8	39.5	37.9	36.4	36.2	32.4	29.3	27.3
91.9							35.3	35.5	35.1	33.5	33.1	33.1	30.6	27.8	25.4
98.4							31.7	33.1	31.3	29.8	30.6	30.2	28.9	26.2	23.6
105.0								29.8	28.0	27.8	28.2	27.1	27.3	24.9	22.3
111.5								26.9	25.1	26.5	25.4	25.6	24.5	23.8	20.7
118.1									24.0	24.0	23.1	23.4	22.0	22.0	19.6
124.7									23.1	21.8	21.8	21.2	20.9	19.8	18.3
131.2										19.8	20.3	19.2	19.0	17.9	17.4
137.8										19.2	18.5	18.1	17.2	16.1	16.1
144.4										18.1	17.0	16.8	15.7	14.6	14.6
150.9											15.9	15.2	14.3	13.0	13.0
157.5											15.0	13.9	13.0	11.9	11.7
164.0												12.8	11.9	10.6	10.6
170.6												11.7	10.8	9.5	9.5
177.2													9.7	8.6	8.4
183.7													8.8	7.7	7.5
190.3														6.8	6.6
196.9														6.2	6.0
203.4															5.3
210.0															4.6



* Over rear · A l'arrière · Hacia atrás

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

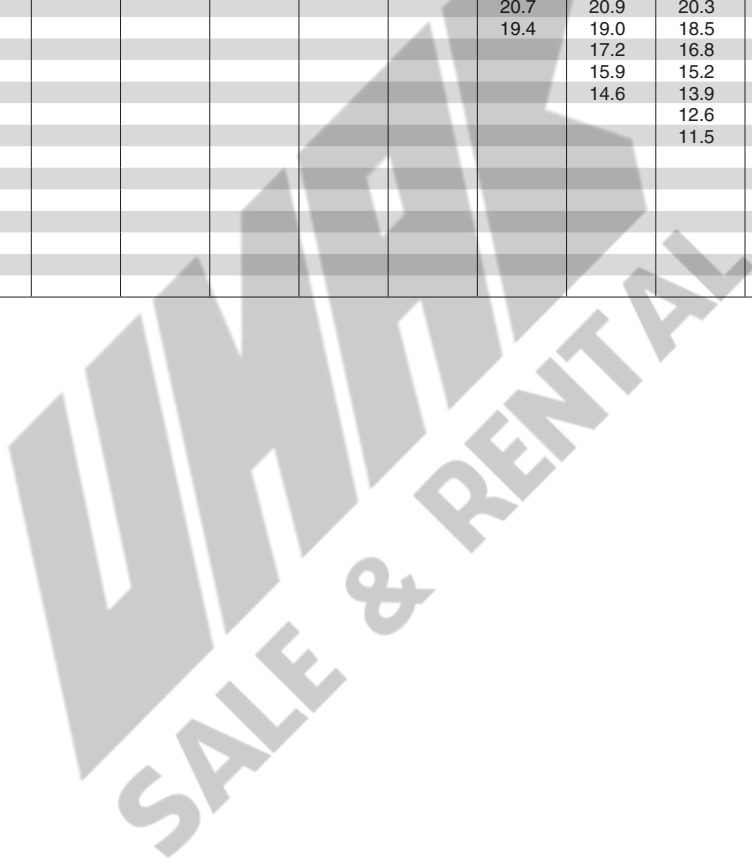


103,617 lbs

ASME

lbs x 1,000

ft	43.3 ft*	43.3 ft	57.1 ft	70.9 ft	84.6 ft	98.4 ft	111.9 ft	125.7 ft	139.4 ft	153.2 ft	167.0 ft	180.4 ft	194.2 ft	208.0 ft	223.1 ft
8.2	485.0**														
9.8	396.8**	384.7**	308.6**	308.6**	252.2										
11.5	373.7**	347.0**	308.6**	308.6**	252.2	199.5									
13.1	339.7**	315.0**	308.6**	308.6**	244.9	199.5									
14.8	302.5**	287.9	288.4	284.8	231.0	199.5	154.3								
16.4	272.1	264.3	264.8	261.5	227.1	195.1	154.3	120.2							
19.7	226.0	226.0	226.4	226.0	224.4	175.9	154.3	120.2	95.9						
23.0	191.4	191.4	191.8	192.7	189.8	170.9	147.0	120.2	95.9	76.1					
26.2	165.1	165.1	167.1	166.4	166.9	165.3	134.9	120.2	95.9	76.1	62.8				
29.5	144.8	144.8	146.6	147.0	146.4	144.8	127.9	116.4	95.9	76.1	62.8	50.7			
32.8	128.5	128.5	130.3	131.8	131.0	128.5	127.9	108.0	94.1	76.1	62.8	50.7	41.4		
36.1			116.8	118.4	117.5	118.4	115.1	100.8	89.3	76.1	62.8	50.7	41.4	33.1	
39.4			106.3	106.9	107.8	106.9	103.0	95.7	86.6	74.1	62.8	50.7	41.4	33.1	30.4
45.9			85.1	86.9	86.9	85.5	86.0	84.2	79.4	69.4	61.1	50.7	41.4	33.1	30.4
52.5				70.3	70.3	72.5	71.2	69.4	67.2	64.4	56.2	50.3	41.4	33.1	30.4
59.1				58.6	60.8	60.4	59.3	57.5	56.2	55.3	52.0	46.7	41.2	33.1	30.4
65.6					51.8	51.4	50.3	49.4	48.1	48.7	46.7	44.1	38.4	33.1	30.4
72.2					45.0	44.3	43.2	42.1	43.0	41.4	40.6	41.0	36.4	32.8	30.4
78.7						38.6	37.7	39.2	37.3	36.4	36.8	35.5	34.2	30.9	29.1
85.3						34.2	34.8	34.4	32.6	33.3	32.8	31.7	31.7	29.3	27.3
91.9							31.7	30.6	29.5	30.2	29.1	29.5	28.2	27.8	25.4
98.4							28.4	27.6	27.6	26.9	27.1	26.2	26.0	24.9	23.6
105.0								24.9	25.4	24.5	24.5	23.8	23.1	22.0	21.8
111.5								23.4	22.9	22.7	22.0	21.6	20.7	19.4	19.4
118.1									20.7	20.9	20.3	19.4	18.5	17.2	17.2
124.7									19.4	19.0	18.5	17.6	16.5	15.4	15.2
131.2										17.2	16.8	15.9	14.8	13.7	13.7
137.8										15.9	15.2	14.3	13.2	12.1	12.1
144.4										14.6	13.9	12.8	11.9	10.8	10.6
150.9											12.6	11.7	10.6	9.5	9.5
157.5											11.5	10.6	9.5	8.4	8.2
164.0												9.5	8.4	7.3	7.3
170.6												8.6	7.5	6.4	6.2
177.2													6.6	5.5	5.5
183.7													6.0	4.6	4.6
190.3														4.0	4.0
196.9														3.3	3.3
203.4															2.6



* Over rear · A l'arrière · Hacia atrás

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

43.3 – 223.1 ft 27.2 ft 360° **77,162 lbs** **ASME**

lbs x 1,000

ft	43.3 ft*	43.3 ft	57.1 ft	70.9 ft	84.6 ft	98.4 ft	111.9 ft	125.7 ft	139.4 ft	153.2 ft	167.0 ft	180.4 ft	194.2 ft	208.0 ft	223.1 ft
8.2	485.0**														
9.8	396.8**	374.8**	308.6**	308.6**	252.2										
11.5	368.0**	337.1**	308.6**	308.6**	252.2	199.5									
13.1	323.0**	305.6**	306.0**	302.5**	244.9	199.5									
14.8	287.3	278.4	278.9	275.4	231.0	199.5	154.3								
16.4	258.4	255.3	255.5	255.1	227.1	195.1	154.3	120.2							
19.7	213.2	213.2	213.6	213.2	211.6	175.9	154.3	120.2	95.9						
23.0	180.1	180.1	182.1	181.4	181.9	170.9	147.0	120.2	95.9	76.1					
26.2	155.2	155.2	157.2	157.6	157.0	149.3	134.9	120.2	95.9	76.1	62.8				
29.5	136.0	136.0	137.8	139.3	138.0	133.2	124.8	116.4	95.9	76.1	62.8	50.7			
32.8	120.2	120.2	121.9	123.5	121.0	116.2	108.9	102.3	94.1	76.1	62.8	50.7	41.4		
36.1			105.8	106.3	107.8	102.5	96.3	95.5	87.1	76.1	62.8	50.7	41.4	33.1	
39.4			91.3	93.3	93.0	91.5	90.8	85.5	80.7	74.1	62.8	50.7	41.4	33.1	30.4
45.9			70.5	72.3	75.0	74.5	73.4	70.3	67.5	63.7	61.1	50.7	41.4	33.1	30.4
52.5				60.2	60.8	60.2	59.1	58.2	56.7	55.6	52.2	50.3	41.4	33.1	30.4
59.1				49.8	50.5	50.0	48.7	48.5	48.7	47.2	46.7	44.8	41.2	33.1	30.4
65.6					42.5	42.1	42.3	42.8	41.0	41.4	40.3	39.5	38.1	33.1	30.4
72.2					36.6	36.2	37.9	37.0	36.6	36.4	35.3	35.3	34.4	32.8	30.4
78.7						33.5	32.8	32.2	32.6	32.2	32.0	30.9	30.6	29.3	28.9
85.3							29.3	28.9	28.9	28.9	28.7	28.0	27.6	26.7	25.4
91.9							25.6	26.2	25.6	25.6	25.1	24.3	23.1	22.0	21.8
98.4							23.6	23.4	23.4	22.7	22.3	21.4	20.3	19.2	19.0
105.0								20.9	20.9	20.3	19.8	18.7	17.9	16.5	16.5
111.5								19.0	18.7	18.1	17.6	16.8	15.7	14.6	14.3
118.1									17.0	16.3	15.7	14.8	13.9	12.6	12.6
124.7									15.2	14.6	14.1	13.0	12.1	11.0	10.8
131.2										13.0	12.6	11.7	10.6	9.5	9.5
137.8										11.9	11.2	10.4	9.3	8.2	8.2
144.4										10.8	10.1	9.0	8.2	6.8	6.8
150.9											9.0	7.9	7.1	5.7	5.7
157.5											8.2	7.1	6.0	4.9	4.9
164.0												6.2	5.1	4.0	4.0
170.6												5.3	4.4	3.1	3.1
177.2													3.5	2.4	2.2
183.7														2.9	

43.3 – 223.1 ft 27.2 ft 360° **51,809 lbs** **ASME**

lbs x 1,000

ft	43.3 ft*	43.3 ft	57.1 ft	70.9 ft	84.6 ft	98.4 ft	111.9 ft	125.7 ft	139.4 ft	153.2 ft	167.0 ft	180.4 ft	194.2 ft	208.0 ft	223.1 ft
8.2	478.8**														
9.8	396.8**	364.2**	308.6**	308.6**	252.2										
11.5	349.2**	326.7**	308.6**	308.6**	252.2	199.5									
13.1	306.4**	295.4**	295.9**	292.3	244.9	199.5									
14.8	272.5	268.5	269.0	265.4	231.0	199.5	154.3								
16.4	244.3	244.3	244.7	244.3	227.1	195.1	154.3	120.2							
19.7	200.4	200.4	202.6	201.9	189.8	173.1	154.3	120.2	95.9						
23.0	169.1	169.1	171.3	170.0	157.6	145.1	134.0	120.2	95.9	76.1					
26.2	145.3	145.3	147.3	141.8	135.4	126.8	117.7	109.3	95.9	76.1	62.8				
29.5	118.6	118.6	123.9	119.7	115.3	108.2	105.2	95.9	89.7	76.1	62.8	50.7			
32.8	97.4	97.4	102.1	104.1	99.9	97.2	92.8	86.9	81.4	76.1	62.8	50.7	41.4		
36.1			86.2	88.2	88.6	86.9	82.2	77.8	73.4	68.8	62.8	50.7	41.4	33.1	
39.4			73.9	76.9	78.7	77.6	73.4	69.4	65.5	63.3	59.7	50.7	41.4	33.1	30.4
45.9			57.5	60.2	61.1	60.4	59.5	57.5	56.0	53.4	51.1	48.1	41.4	33.1	30.4
52.5				48.3	48.9	48.5	49.6	49.6	48.7	46.1	44.5	42.3	39.9	33.1	30.4
59.1				39.7	40.3	41.9	41.7	41.0	41.0	40.8	39.2	37.5	35.1	33.1	30.4
65.6					34.8	35.5	35.1	35.5	35.3	35.5	34.4	33.3	31.3	29.1	28.4
72.2					30.2	30.4	30.4	30.9	30.9	30.2	29.8	28.7	27.1	25.1	24.3
78.7						26.0	26.9	26.7	26.7	25.8	25.4	24.5	23.4	21.6	20.9
85.3							22.9	23.4	23.1	22.9	22.3	21.8	20.7	19.8	18.5
91.9							20.5	20.3	20.1	19.4	19.0	17.9	16.8	15.7	15.4
98.4							18.1	17.6	17.6	16.8	16.3	15.4	14.3	13.0	13.0
105.0								15.7	15.4	14.8	14.3	13.2	12.3	11.0	11.0
111.5									13.7	13.0	12.3	11.5	10.4	9.3	9.0
118.1									13.9	12.1	11.2	10.8	9.9	8.8	7.5
124.7										10.6	9.9	9.5	8.4	7.5	6.2
131.2											8.6	8.2	7.3	6.2	5.1
137.8											7.7	7.1	6.2	5.1	4.0
144.4											6.8	6.0	5.1	4.2	
150.9												5.1	4.2	3.1	
157.5												4.4	3.3	2.4	
164.0													2.6		

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

43.3 - 223.1 ft 27.2 ft 360° **26,455 lbs** **ASME**

lbs x 1,000

ft	43.3 ft*	43.3 ft	57.1 ft	70.9 ft	84.6 ft	98.4 ft	111.9 ft	125.7 ft	139.4 ft	153.2 ft	167.0 ft	180.4 ft	194.2 ft	208.0 ft	223.1 ft
8.2	455.9**														
9.8	383.8**	353.0**	308.6**	308.6**	252.2										
11.5	330.7**	315.7**	308.6**	308.6**	252.2	199.5									
13.1	290.1	284.4	284.8	281.3	244.9	199.5									
14.8	256.6	256.6	257.1	256.6	230.8	199.5	154.3								
16.4	229.1	229.1	229.5	226.6	201.3	179.9	154.3	120.2							
19.7	187.8	187.8	188.9	173.7	158.7	144.0	131.2	120.2	95.9						
23.0	155.6	155.6	147.0	139.1	131.8	122.1	113.3	103.2	95.9	76.1					
26.2	116.6	116.6	121.3	115.7	109.1	106.3	99.4	91.9	82.9	76.1	62.8				
29.5	91.7	91.7	97.0	97.4	95.9	90.8	85.1	80.0	74.7	69.4	62.8	50.7			
32.8	74.7	74.7	79.4	83.8	83.1	78.9	74.7	71.0	68.1	62.8	58.6	50.7	41.4		
36.1			67.7	70.5	71.4	69.2	65.9	65.5	61.1	55.8	51.4	50.3	41.4	33.1	
39.4			57.8	60.4	61.3	60.8	60.2	58.4	56.2	52.0	48.7	45.2	41.4	33.1	30.4
45.9			43.2	45.9	46.7	48.9	48.5	47.8	46.5	45.4	41.7	39.0	36.2	33.1	30.4
52.5				36.2	38.4	38.6	39.0	39.2	39.2	37.7	35.9	33.7	31.5	29.1	28.2
59.1				28.9	30.9	31.5	32.2	32.0	31.7	31.1	30.2	28.2	26.2	24.0	23.4
65.6					25.4	26.0	26.5	26.2	26.2	25.6	24.9	24.0	22.0	20.1	19.4
72.2					21.2	21.6	22.3	22.0	21.8	21.2	20.7	19.6	18.5	16.8	16.1
78.7						18.3	18.7	18.5	18.5	17.6	17.2	16.3	15.2	13.9	13.4
85.3						15.7	16.1	15.7	15.7	15.0	14.3	13.4	12.3	11.0	11.0
91.9							13.7	13.4	13.2	12.6	12.1	11.0	10.1	8.8	8.8
98.4							11.9	11.5	11.2	10.6	10.1	9.3	8.2	6.8	6.8
105.0								9.9	9.7	9.0	8.4	7.5	6.4		
111.5								8.4	8.2	7.5	7.1	6.0	5.1		
118.1									7.1	6.2	5.7	4.9			
124.7									6.0	5.1	4.6	3.7			
131.2										4.2	3.5	2.6			
137.8										3.3	2.6				
144.4										2.6					

43.3 - 223.1 ft 27.2 ft 360° **0 lbs** **ASME**


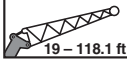

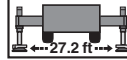

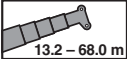


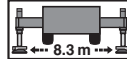

lbs x 1,000

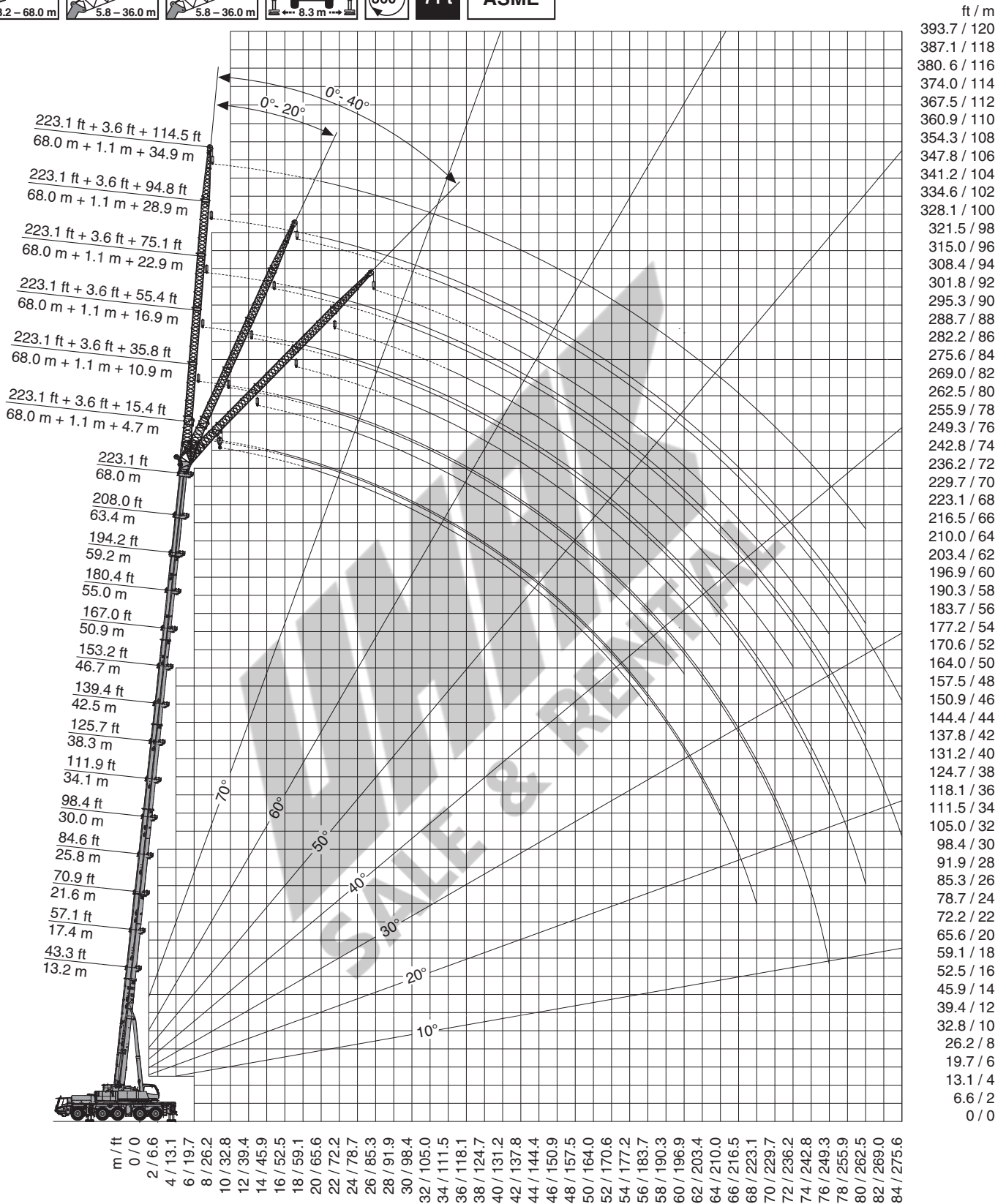
ft	43.3 ft*	43.3 ft	57.1 ft	70.9 ft	84.6 ft	98.4 ft	111.9 ft	125.7 ft	139.4 ft	153.2 ft	167.0 ft	180.4 ft	194.2 ft	208.0 ft	223.1 ft
8.2	430.6**														
9.8	362.4**	340.4**	308.6**	308.6**	252.2										
11.5	312.2**	303.4**	303.8**	303.8**	252.2	199.5									
13.1	271.8	271.8	272.3	250.2	212.7	183.6									
14.8	239.4	239.4	231.3	207.5	182.5	160.1	141.5								
16.4	213.6	213.6	192.5	172.6	154.1	136.7	127.9	115.7							
19.7	150.1	150.1	141.3	131.8	121.5	116.2	106.5	95.9	84.0						
23.0	113.3	113.3	109.1	104.1	100.5	93.7	87.3	79.4	72.3	65.5					
26.2	88.6	88.6	89.3	86.9	82.5	76.9	75.0	69.4	62.8	57.1	51.4				
29.5	68.8	68.8	72.8	71.4	68.3	67.0	63.5	60.2	56.7	52.0	47.2	43.0			
32.8	54.7	54.0	60.4	60.0	58.9	57.5	54.7	53.6	51.1	47.2	42.3	39.7	36.6		
36.1			49.2	51.1	51.8	49.8	48.9	46.7	44.8	42.1	39.7	36.8	33.1	30.9	
39.4			40.8	44.3	45.2	44.1	43.0	41.2	39.5	37.0	35.1	32.4	29.8	27.1	25.8
45.9			29.1	32.4	34.8	34.6	34.2	32.6	31.3	29.5	27.8	25.6	23.4	20.9	20.1
52.5				24.5	26.7	27.3	27.8	26.5	25.4	23.8	22.3	20.5	18.5	16.3	15.7
59.1				18.7	20.9	21.6	22.3	21.8	20.9	19.4	18.1	16.3	14.6	12.6	12.1
65.6					16.8	17.2	17.9	17.6	17.4	16.1	14.8	13.2	11.5	9.7	9.3
72.2					13.4	13.9	14.6	14.3	14.1	13.2	12.1	10.6	9.0	7.3	
78.7						11.2	11.9	11.7	11.5	10.8	9.9	8.4	6.8		
85.3						9.3	9.7	9.5	9.3	8.6	7.9	6.6			
91.9							7.9	7.7	7.5	6.8	6.4	5.1			
98.4							6.4	6.2	6.0	5.3	4.9				
105.0								4.9	4.6	4.0	3.5				
111.5								3.7	3.5	2.9					
118.1									2.6						

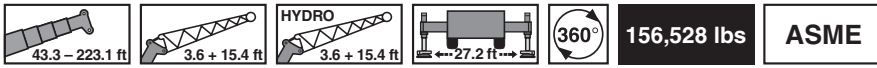
* Over rear · A l'arrière · Hacia atrás

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

Working range · Rayon de travail · Zona de trabajo

					156,528 lbs	ASME
43.3 – 223.1 ft	19 – 118.1 ft	19 – 118.1 ft	27.2 ft	360°		
					71 t	ASME
13.2 – 68.0 m	5.8 – 36.0 m	5.8 – 36.0 m	8.3 m	360°		

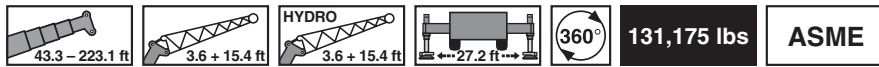




lbs x 1,000

ft	43.3 ft + 3.6 ft + 15.4 ft			70.9 ft + 3.6 ft + 15.4 ft			98.4 ft + 3.6 ft + 15.4 ft			125.7 ft + 3.6 ft + 15.4 ft			153.2 ft + 3.6 ft + 15.4 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	105.4			115.3											
11.5	99.6	67.2		110.5											
13.1	94.4	65.0		106.0											
14.8	89.9	63.1	50.0	101.9	68.1										
16.4	85.8	61.1	48.9	98.1	66.4		94.6								
19.7	78.5	57.8	47.4	91.3	63.5	50.3	94.6								
23.0	72.5	54.9	45.9	85.5	60.8	48.9	94.1	63.3		66.8					
26.2	67.5	52.5	44.5	80.5	58.4	47.6	89.3	61.3	48.9	66.8			43.7		
29.5	63.1	50.3	43.4	75.8	56.2	46.5	84.9	59.3	47.8	66.8	63.7		43.7		
32.8	59.3	48.3	42.5	71.9	54.5	45.4	80.7	57.8	47.0	66.8	61.9	47.8	43.7	37.5	
36.1	56.2	46.7	41.4	68.3	52.7	44.5	76.9	56.0	46.1	66.8	60.4	47.2	42.3	36.2	32.6
39.4	53.1	44.5	40.6	65.3	50.9	43.7	73.4	54.5	45.4	66.8	59.1	46.5	40.6	35.1	31.7
45.9	45.9	41.0		59.7	48.3	42.3	66.8	51.8	44.1	63.7	56.4	45.4	37.7	32.8	30.0
52.5	40.1			55.3	46.1	41.4	60.8	49.6	43.0	58.0	54.0	44.3	35.1	31.1	28.4
59.1				50.9	43.7	40.6	55.6	47.6	41.9	53.1	51.8	43.4	33.1	29.3	27.1
65.6				46.5	41.2	39.7	51.4	46.1	41.2	49.2	48.1	42.8	31.3	28.0	26.0
72.2				42.5	39.2		47.6	44.5	40.8	45.6	44.8	42.1	29.8	26.9	25.1
78.7				39.2			44.5	43.4	40.1	42.5	41.7	41.2	28.4	25.8	24.3
85.3							41.4	41.2	39.7	39.7	39.2	38.8	27.1	24.9	23.6
91.9							36.6	37.3		37.3	36.8	36.6	26.0	24.0	22.9
98.4							32.4	32.8		33.1	34.0	34.2	25.1	23.1	22.3
105.0							28.9			29.5	30.2	30.4	24.5	22.7	21.8
111.5										26.2	26.9		23.6	22.0	21.4
118.1										23.6	24.0		23.1	21.6	20.9
124.7										21.2	21.4		21.8	21.2	20.7
131.2										19.0			19.6	20.1	
137.8													17.6	18.1	
144.4													15.9	16.3	
150.9													14.3	14.6	
157.5													13.0		

ft	167.0 ft + 3.6 ft + 15.4 ft			180.4 ft + 3.6 ft + 15.4 ft			194.2 ft + 3.6 ft + 15.4 ft			208.0 ft + 3.6 ft + 15.4 ft			223.1 ft + 3.6 ft + 15.4 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
32.8	39.2														
36.1	39.2	34.8		34.2											
39.4	37.9	33.7		34.2	30.9		28.4								
45.9	35.5	31.7	29.1	32.4	29.3	27.1	28.4	26.5		24.0	22.3		22.0		
52.5	33.5	30.0	27.8	30.6	27.8	25.8	27.1	25.1	23.8	22.7	21.2	20.3	20.7	19.4	
59.1	31.7	28.4	26.5	29.1	26.5	24.7	25.6	24.0	22.9	21.6	20.3	19.4	19.8	18.5	17.9
65.6	30.0	27.1	25.4	27.8	25.4	23.6	24.5	22.9	22.0	20.5	19.2	18.5	19.0	17.6	17.2
72.2	28.4	25.8	24.3	26.7	24.3	22.7	23.1	22.0	21.2	19.6	18.5	17.9	18.1	17.0	16.3
78.7	27.3	24.9	23.4	25.4	23.1	22.0	22.3	21.2	20.3	18.7	17.6	17.0	17.2	16.3	15.7
85.3	26.0	23.8	22.7	24.3	22.3	21.2	21.4	20.3	19.6	18.1	17.0	16.5	16.5	15.7	15.2
91.9	25.1	23.1	21.8	23.4	21.6	20.5	20.5	19.4	19.0	17.2	16.5	15.9	15.9	15.2	14.8
98.4	24.3	22.3	21.4	22.5	20.9	19.8	19.6	18.7	18.3	16.5	15.9	15.4	15.2	14.8	14.3
105.0	23.4	21.6	20.7	21.4	20.3	19.4	19.0	18.1	17.9	15.9	15.4	15.0	14.6	14.1	13.9
111.5	22.7	21.2	20.3	20.5	19.6	19.0	18.3	17.6	17.2	15.4	14.8	14.6	14.1	13.7	13.4
118.1	22.0	20.7	19.8	19.6	19.2	18.5	17.4	17.0	16.8	15.0	14.3	14.1	13.7	13.2	13.0
124.7	21.2	20.3	19.6	18.7	18.5	18.3	16.8	16.5	16.3	14.3	13.9	13.7	13.2	12.8	12.6
131.2	19.4	19.8	19.4	17.9	17.9	17.6	16.1	15.9	15.9	13.9	13.4	13.4	12.8	12.3	12.1
137.8	17.9	18.1		16.3	17.0	17.0	15.4	15.2	15.2	13.7	13.2	13.0	12.3	12.1	11.9
144.4	16.1	16.3		15.4	15.4	15.4	14.3	14.3	14.8	13.2	12.8	12.8	12.1	11.7	11.7
150.9	14.6	14.8		14.8	14.8		13.4	13.4	13.4	12.8	12.6	12.3	11.7	11.5	11.2
157.5	13.0	13.2		13.2	13.7		12.8	12.8	12.8	12.1	12.1	12.1	11.5	11.2	11.0
164.0	11.7	11.9		11.9	12.1		12.1	12.1		11.5	11.5	11.5	11.0	11.0	10.8
170.6	10.6			10.8	11.0		11.2	11.5		10.8	10.8	10.8	10.4	10.6	10.6
183.7				8.6			9.3	9.5		9.7	9.7		9.5	9.5	9.5
196.9							7.5			8.2	8.2		8.2	8.4	
210.0										6.6			6.6	6.6	
223.1													5.1		



lbs x 1,000

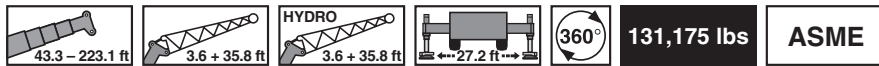
ft	43.3 ft + 3.6 ft + 15.4 ft			70.9 ft + 3.6 ft + 15.4 ft			98.4 ft + 3.6 ft + 15.4 ft			125.7 ft + 3.6 ft + 15.4 ft			153.2 ft + 3.6 ft + 15.4 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	105.4			115.3											
11.5	99.6	67.2		110.5											
13.1	94.4	65.0		106.0											
14.8	89.9	63.1	50.0	101.9	68.1										
16.4	85.8	61.1	48.9	98.1	66.4		94.6								
19.7	78.5	57.8	47.4	91.3	63.5	50.3	94.6								
23.0	72.5	54.9	45.9	85.5	60.8	48.9	94.1	63.3		66.8					
26.2	67.5	52.5	44.5	80.5	58.4	47.6	89.3	61.3	48.9	66.8			43.7		
29.5	63.1	50.3	43.4	75.8	56.2	46.5	84.9	59.3	47.8	66.8	63.7		43.7		
32.8	59.3	48.3	42.5	71.9	54.5	45.4	80.7	57.8	47.0	66.8	61.9	47.8	43.7	37.5	
36.1	56.2	46.7	41.4	68.3	52.7	44.5	76.9	56.0	46.1	66.8	60.4	47.2	42.3	36.2	32.6
39.4	53.1	44.5	40.6	65.3	50.9	43.7	73.4	54.5	45.4	66.8	59.1	46.5	40.6	35.1	31.7
45.9	45.9	41.0		59.7	48.3	42.3	66.8	51.8	44.1	63.7	56.4	45.4	37.7	32.8	30.0
52.5	40.1			55.3	46.1	41.4	60.8	49.6	43.0	58.0	54.0	44.3	35.1	31.1	28.4
59.1				50.9	43.7	40.6	55.6	47.6	41.9	53.1	51.8	43.4	33.1	29.3	27.1
65.6				46.5	41.2	39.7	51.4	46.1	41.2	49.2	48.1	42.8	31.3	28.0	26.0
72.2				42.5	39.2		46.7	44.5	40.8	45.6	44.8	42.1	29.8	26.9	25.1
78.7				39.2			40.1	41.4	40.1	41.0	41.7	41.2	28.4	25.8	24.3
85.3							34.8	35.9	36.2	35.7	36.8	37.3	27.1	24.9	23.6
91.9							30.4	31.3		31.3	32.2	32.6	26.0	24.0	22.9
98.4							26.7	27.3		27.6	28.2	28.7	25.1	23.1	22.3
105.0							23.6			24.3	24.9	25.1	24.5	22.7	21.8
111.5										21.4	22.0		22.3	22.0	21.4
118.1										19.0	19.4		19.6	20.5	20.7
124.7										16.8	17.2		17.6	18.1	18.3
131.2										15.0			15.7	16.1	
137.8													13.9	14.3	
144.4													12.3	12.6	
150.9													10.8	11.2	
157.5													9.7		

ft	167.0 ft + 3.6 ft + 15.4 ft			180.4 ft + 3.6 ft + 15.4 ft			194.2 ft + 3.6 ft + 15.4 ft			208.0 ft + 3.6 ft + 15.4 ft			223.1 ft + 3.6 ft + 15.4 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
32.8	39.2														
36.1	39.2	34.8		34.2											
39.4	37.9	33.7		34.2	30.9		28.4								
45.9	35.5	31.7	29.1	32.4	29.3	27.1	28.4	26.5		24.0	22.3		22.0		
52.5	33.5	30.0	27.8	30.6	27.8	25.8	27.1	25.1	23.8	22.7	21.2	20.3	20.7	19.4	
59.1	31.7	28.4	26.5	29.1	26.5	24.7	25.6	24.0	22.9	21.6	20.3	19.4	19.8	18.5	17.9
65.6	30.0	27.1	25.4	27.8	25.4	23.6	24.5	22.9	22.0	20.5	19.2	18.5	19.0	17.6	17.2
72.2	28.4	25.8	24.3	26.7	24.3	22.7	23.1	22.0	21.2	19.6	18.5	17.9	18.1	17.0	16.3
78.7	27.3	24.9	23.4	25.4	23.1	22.0	22.3	21.2	20.3	18.7	17.6	17.0	17.2	16.3	15.7
85.3	26.0	23.8	22.7	24.3	22.3	21.2	21.4	20.3	19.6	18.1	17.0	16.5	16.5	15.7	15.2
91.9	25.1	23.1	21.8	23.4	21.6	20.5	20.5	19.4	19.0	17.2	16.5	15.9	15.9	15.2	14.8
98.4	24.3	22.3	21.4	22.5	20.9	19.8	19.6	18.7	18.3	16.5	15.9	15.4	15.2	14.8	14.3
105.0	23.4	21.6	20.7	21.4	20.3	19.4	19.0	18.1	17.9	15.9	15.4	15.0	14.6	14.1	13.9
111.5	22.5	21.2	20.3	20.5	19.6	19.0	18.3	17.6	17.2	15.4	14.8	14.6	14.1	13.7	13.4
118.1	19.8	20.5	19.8	19.6	19.2	18.5	17.4	17.0	16.8	15.0	14.3	14.1	13.7	13.2	13.0
124.7	17.6	18.1	18.5	18.1	18.5	18.3	16.8	16.5	16.3	14.3	13.9	13.7	13.2	12.8	12.6
131.2	15.7	16.1	16.3	16.1	16.5	16.8	16.1	15.9	15.9	13.9	13.4	13.4	12.8	12.3	12.1
137.8	13.9	14.3		14.3	14.8	15.0	15.0	15.2	15.2	13.7	13.2	13.0	12.3	12.1	11.9
144.4	12.3	12.8		12.8	13.0	13.2	13.2	13.7	13.9	13.2	12.8	12.8	12.1	11.7	11.7
150.9	11.0	11.2		11.2	11.7		11.9	12.1	12.3	12.6	12.6	12.3	11.7	11.5	11.2
157.5	9.7	9.9		9.9	10.4		10.6	10.8	11.0	11.2	11.7	12.1	11.5	11.2	11.0
164.0	8.6	8.6		8.8	9.0		9.5	9.7		10.1	10.4	10.8	10.4	10.6	10.8
170.6	7.5			7.7	7.9		8.4	8.6		9.0	9.3	9.7	9.0	9.5	9.5
183.7				6.0			6.4	6.6		7.1	7.3		7.3	7.5	7.5
196.9							4.9			5.5	5.5		5.5	5.7	
210.0										4.0			4.0	4.2	
223.1													2.9		

lbs x 1,000

ft	43.3 ft + 3.6 ft + 35.8 ft			70.9 ft + 3.6 ft + 35.8 ft			98.4 ft + 3.6 ft + 35.8 ft			125.7 ft + 3.6 ft + 35.8 ft			153.2 ft + 3.6 ft + 35.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	43.4			43.4											
11.5	43.2			43.4											
13.1	42.1			43.4											
14.8	41.0			43.4			43.4								
16.4	39.7			43.0			43.4								
19.7	37.5	31.1		41.2			42.1								
23.0	35.3	29.1		39.2	31.5		40.8			38.1					
26.2	33.3	27.3		37.5	29.8		39.2			37.3					
29.5	31.5	25.6	21.4	35.9	28.4		37.9	30.0		36.2			31.7		
32.8	29.8	24.3	20.5	34.2	27.1		36.4	28.9		35.3			31.7		
36.1	28.4	23.1	19.6	32.8	25.8	20.7	35.3	27.8		34.4	27.8		31.5		
39.4	27.1	22.0	19.0	31.5	24.7	20.3	34.0	26.7	20.9	33.5	27.1		30.9		
45.9	24.3	20.1	17.9	29.1	22.9	19.2	31.7	24.9	20.1	31.7	25.8	20.5	29.8	24.9	
52.5	21.6	18.5	17.0	27.1	21.4	18.3	29.8	23.4	19.2	30.0	24.5	19.8	28.7	23.8	20.1
59.1	19.4	17.4	16.3	25.1	20.1	17.6	28.0	22.0	18.5	28.7	23.1	19.2	27.1	22.5	19.6
65.6	17.6	16.5		22.9	19.0	17.0	26.5	20.9	17.9	27.3	22.0	18.5	25.6	21.4	19.0
72.2	16.3	15.9		21.2	18.1	16.5	25.1	19.8	17.4	26.0	21.2	18.1	24.3	20.3	18.5
78.7				19.6	17.2	16.1	23.6	19.0	17.0	24.9	20.3	17.6	22.9	19.4	17.9
85.3				18.3	16.5	15.9	22.0	18.3	16.5	24.0	19.4	17.2	21.8	18.7	17.2
91.9				17.2	16.1		20.7	17.6	16.3	22.9	18.7	16.8	20.9	17.9	16.8
98.4				16.3			19.6	17.0	16.1	22.0	18.3	16.5	20.1	17.4	16.1
105.0							18.5	16.5	15.9	20.9	17.6	16.3	19.2	16.8	15.7
111.5							17.6	16.1		19.8	17.2	16.1	18.5	16.3	15.2
118.1							16.8	15.9		19.2	16.8	15.9	17.9	15.7	15.0
124.7							16.3			18.3	16.5	15.9	17.2	15.4	14.6
131.2										17.6	16.1		16.8	15.0	14.3
137.8										17.0	15.9		16.3	14.6	14.1
144.4										16.5	15.9		15.9	14.3	13.9
150.9										15.7			15.7	14.1	
157.5													14.3	13.9	
164.0													13.0	13.4	
170.6													11.7	12.1	

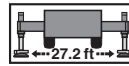
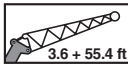
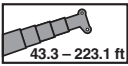
ft	167.0 ft + 3.6 ft + 35.8 ft			180.4 ft + 3.6 ft + 35.8 ft			194.2 ft + 3.6 ft + 35.8 ft			208.0 ft + 3.6 ft + 35.8 ft			223.1 ft + 3.6 ft + 35.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
32.8	28.9														
36.1	28.9			22.0											
39.4	28.9			22.0			19.4								
45.9	28.7	23.8		22.0			19.4			16.5					
52.5	26.9	22.7		22.0	21.2		19.4	19.4		16.5			14.6		
59.1	25.6	21.6	19.2	22.0	20.1		19.4	18.5		16.5	16.1		14.6		
65.6	24.3	20.5	18.5	22.0	19.2	17.4	19.4	17.6	16.3	16.5	15.4		14.6	14.3	
72.2	23.1	19.6	17.9	21.4	18.5	17.0	18.5	17.2	15.7	15.9	14.8	13.7	14.6	13.7	12.8
78.7	22.0	18.7	17.2	20.5	17.9	16.3	17.9	16.5	15.2	15.2	14.1	13.2	14.1	13.2	12.3
85.3	21.2	18.1	16.5	19.6	17.2	15.9	17.4	15.9	14.8	14.8	13.4	12.8	13.4	12.6	11.9
91.9	20.1	17.4	16.1	19.0	16.5	15.2	16.8	15.4	14.3	14.3	13.0	12.3	13.2	12.1	11.5
98.4	19.2	16.8	15.7	18.1	16.1	14.8	16.1	14.8	13.7	13.7	12.6	11.9	12.8	11.7	11.0
105.0	18.5	16.1	15.2	17.6	15.7	14.3	15.4	14.3	13.4	13.2	12.1	11.5	12.1	11.2	10.8
111.5	17.9	15.7	14.8	17.0	15.2	14.1	15.0	13.9	13.0	12.8	11.7	11.2	11.7	11.0	10.4
118.1	17.2	15.2	14.3	16.5	14.8	13.7	14.6	13.4	12.8	12.3	11.5	10.8	11.5	10.6	10.1
124.7	16.8	14.8	14.1	15.9	14.3	13.4	13.9	13.0	12.3	11.9	11.0	10.6	11.0	10.4	9.7
131.2	16.1	14.3	13.7	15.4	14.1	13.0	13.4	12.6	12.1	11.5	10.8	10.1	10.6	9.9	9.5
137.8	15.7	14.1	13.4	15.0	13.7	12.8	13.2	12.3	11.9	11.2	10.6	9.9	10.4	9.7	9.3
144.4	15.4	13.7	13.2	14.3	13.4	12.6	12.8	11.9	11.7	10.8	10.1	9.7	9.9	9.5	9.0
150.9	15.0	13.4	13.0	13.2	13.0	12.3	12.3	11.7	11.2	10.6	9.9	9.5	9.7	9.3	8.8
157.5	14.1	13.2	12.8	12.6	12.6	12.1	11.5	11.5	11.0	10.1	9.7	9.5	9.5	9.0	8.6
164.0	12.8	13.0		11.9	11.9	11.9	10.8	11.0	10.8	9.9	9.5	9.3	9.3	8.8	8.6
170.6	11.5	12.1		11.2	11.2		10.4	10.4	10.6	9.7	9.3	9.0	8.8	8.6	8.4
183.7	9.5	9.7		9.7	10.1		9.3	9.5		8.8	8.8	8.6	8.4	8.2	7.9
196.9	7.3			7.9	8.4		8.4	8.4		7.9	7.9		7.7	7.7	7.7
210.0				6.4			6.8	7.1		7.1	7.3		6.8	7.1	
223.1							5.5			6.0	6.2		5.7	6.0	
236.2										4.6			4.4	4.6	
249.3													3.3		



lbs x 1,000

ft	43.3 ft + 3.6 ft + 35.8 ft			70.9 ft + 3.6 ft + 35.8 ft			98.4 ft + 3.6 ft + 35.8 ft			125.7 ft + 3.6 ft + 35.8 ft			153.2 ft + 3.6 ft + 35.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	43.4			43.4											
11.5	43.2			43.4											
13.1	42.1			43.4											
14.8	41.0			43.4			43.4								
16.4	39.7			43.0			43.4								
19.7	37.5	31.1		41.2			42.1								
23.0	35.3	29.1		39.2	31.5		40.8			38.1					
26.2	33.3	27.3		37.5	29.8		39.2			37.3					
29.5	31.5	25.6	21.4	35.9	28.4		37.9	30.0		36.2			31.7		
32.8	29.8	24.3	20.5	34.2	27.1		36.4	28.9		35.3			31.7		
36.1	28.4	23.1	19.6	32.8	25.8	20.7	35.3	27.8		34.4	27.8		31.5		
39.4	27.1	22.0	19.0	31.5	24.7	20.3	34.0	26.7	20.9	33.5	27.1		30.9		
45.9	24.3	20.1	17.9	29.1	22.9	19.2	31.7	24.9	20.1	31.7	25.8	20.5	29.8	24.9	
52.5	21.6	18.5	17.0	27.1	21.4	18.3	29.8	23.4	19.2	30.0	24.5	19.8	28.7	23.8	20.1
59.1	19.4	17.4	16.3	25.1	20.1	17.6	28.0	22.0	18.5	28.7	23.1	19.2	27.1	22.5	19.6
65.6	17.6	16.5		22.9	19.0	17.0	26.5	20.9	17.9	27.3	22.0	18.5	25.6	21.4	19.0
72.2	16.3	15.9		21.2	18.1	16.5	25.1	19.8	17.4	26.0	21.2	18.1	24.3	20.3	18.5
78.7				19.6	17.2	16.1	23.6	19.0	17.0	24.9	20.3	17.6	22.9	19.4	17.9
85.3				18.3	16.5	15.9	22.0	18.3	16.5	24.0	19.4	17.2	21.8	18.7	17.2
91.9				17.2	16.1		20.7	17.6	16.3	22.9	18.7	16.8	20.9	17.9	16.8
98.4				16.3			19.6	17.0	16.1	22.0	18.3	16.5	20.1	17.4	16.1
105.0							18.5	16.5	15.9	20.9	17.6	16.3	19.2	16.8	15.7
111.5							17.6	16.1		19.8	17.2	16.1	18.5	16.3	15.2
118.1							16.8	15.9		19.2	16.8	15.9	17.9	15.7	15.0
124.7							16.3			18.3	16.5	15.9	17.2	15.4	14.6
131.2										16.8	16.1		16.8	15.0	14.3
137.8										15.0	15.7		15.2	14.6	14.1
144.4										13.4	14.1		13.7	14.3	13.9
150.9										12.1			12.1	13.0	
157.5													10.8	11.5	
164.0													9.7	10.4	
170.6													8.6	9.0	

ft	167.0 ft + 3.6 ft + 35.8 ft			180.4 ft + 3.6 ft + 35.8 ft			194.2 ft + 3.6 ft + 35.8 ft			208.0 ft + 3.6 ft + 35.8 ft			223.1 ft + 3.6 ft + 35.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
32.8	28.9														
36.1	28.9			22.0											
39.4	28.9			22.0			19.4								
45.9	28.7	23.8		22.0			19.4			16.5					
52.5	26.9	22.7		22.0	21.2		19.4	19.4		16.5			14.6		
59.1	25.6	21.6	19.2	22.0	20.1		19.4	18.5		16.5	16.1		14.6		
65.6	24.3	20.5	18.5	22.0	19.2	17.4	19.4	17.6	16.3	16.5	15.4		14.6	14.3	
72.2	23.1	19.6	17.9	21.4	18.5	17.0	18.5	17.2	15.7	15.9	14.8	13.7	14.6	13.7	12.8
78.7	22.0	18.7	17.2	20.5	17.9	16.3	17.9	16.5	15.2	15.2	14.1	13.2	14.1	13.2	12.3
85.3	21.2	18.1	16.5	19.6	17.2	15.9	17.4	15.9	14.8	14.8	13.4	12.8	13.4	12.6	11.9
91.9	20.1	17.4	16.1	19.0	16.5	15.2	16.8	15.4	14.3	14.3	13.0	12.3	13.2	12.1	11.5
98.4	19.2	16.8	15.7	18.1	16.1	14.8	16.1	14.8	13.7	13.7	12.6	11.9	12.8	11.7	11.0
105.0	18.5	16.1	15.2	17.6	15.7	14.3	15.4	14.3	13.4	13.2	12.1	11.5	12.1	11.2	10.8
111.5	17.9	15.7	14.8	17.0	15.2	14.1	15.0	13.9	13.0	12.8	11.7	11.2	11.7	11.0	10.4
118.1	17.2	15.2	14.3	16.5	14.8	13.7	14.6	13.4	12.8	12.3	11.5	10.8	11.5	10.6	10.1
124.7	16.8	14.8	14.1	15.9	14.3	13.4	13.9	13.0	12.3	11.9	11.0	10.6	11.0	10.4	9.7
131.2	16.1	14.3	13.7	15.4	14.1	13.0	13.4	12.6	12.1	11.5	10.8	10.1	10.6	9.9	9.5
137.8	15.0	14.1	13.4	15.0	13.7	12.8	13.2	12.3	11.9	11.2	10.6	9.9	10.4	9.7	9.3
144.4	13.4	13.7	13.2	13.9	13.4	12.6	12.8	11.9	11.7	10.8	10.1	9.7	9.9	9.5	9.0
150.9	11.9	12.8	13.0	12.3	13.0	12.3	12.3	11.7	11.2	10.6	9.9	9.5	9.7	9.3	8.8
157.5	10.6	11.5	12.1	11.2	11.9	12.1	11.5	11.5	11.0	10.1	9.7	9.5	9.5	9.0	8.6
164.0	9.5	10.1		9.9	10.8	11.2	10.4	11.0	10.8	9.9	9.5	9.3	9.3	8.8	8.6
170.6	8.4	9.0		8.8	9.5		9.3	9.9	10.4	9.7	9.3	9.0	8.8	8.6	8.4
183.7	6.6	7.1		7.1	7.5		7.3	7.9		7.9	8.6	8.6	7.7	8.2	7.9
196.9	5.1			5.3	5.7		5.7	6.2		6.2	6.8		6.0	6.6	7.1
210.0				4.0			4.4	4.6		4.9	5.3		4.6	5.1	
223.1							3.1			3.5	4.0		3.3	3.7	
236.2										2.6			2.2	2.6	



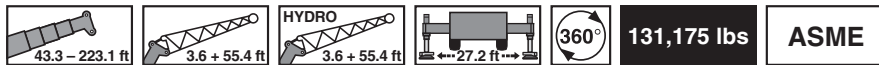
156,528 lbs

ASME

lbs x 1,000

ft	43.3 ft + 3.6 ft + 55.4 ft			70.9 ft + 3.6 ft + 55.4 ft			98.4 ft + 3.6 ft + 55.4 ft			125.7 ft + 3.6 ft + 55.4 ft			153.2 ft + 3.6 ft + 55.4 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	38.8														
11.5	38.1														
13.1	37.5			33.3											
14.8	36.8			33.3											
16.4	35.9			33.3											
19.7	34.2			33.3			32.6								
23.0	32.6			33.3			32.6								
26.2	31.1			32.8			32.6				27.3				
29.5	29.8	24.5		31.5			32.0				27.3				
32.8	28.2	22.9		30.4			31.1				27.3		19.8		
36.1	27.1	21.4		29.3	23.6		30.2				27.3		19.8		
39.4	25.6	20.1		28.2	22.5		29.3	23.8			27.3		19.8		
45.9	22.0	17.9	15.0	26.5	20.3		27.6	21.8			26.5	22.3	19.8		
52.5	19.2	16.1	13.7	24.5	18.5	14.8	26.2	20.1			25.4	20.9	19.8	18.7	
59.1	17.0	14.8	12.8	21.8	17.0	13.7	24.7	18.7	14.3		24.3	19.6	19.8	17.9	
65.6	15.2	13.4	11.9	19.6	15.9	13.0	23.6	17.4	13.7		23.4	18.5	14.1	19.8	17.2
72.2	13.9	12.6	11.2	17.9	14.8	12.3	21.6	16.3	13.0		22.3	17.4	13.4	19.8	16.3
78.7	12.6	11.7	10.6	16.3	13.7	11.7	19.6	15.4	12.6		21.6	16.5	13.0	18.7	15.7
85.3	11.5	10.8		15.0	13.0	11.2	18.1	14.6	12.1		20.5	15.7	12.6	17.9	15.0
91.9	10.6	10.4		13.9	12.1	10.8	17.0	13.7	11.7		19.0	15.0	12.1	17.2	14.6
98.4				13.0	11.5	10.6	15.7	13.0	11.2		17.9	14.3	11.7	16.5	14.1
105.0				12.1	11.0	10.1	14.8	12.3	10.8		16.8	13.7	11.5	15.9	13.7
111.5				11.2	10.6		13.9	11.9	10.6		15.9	13.0	11.2	15.2	13.2
118.1				10.6			13.0	11.5	10.4		15.0	12.6	10.8	14.8	12.8
124.7							12.3	11.0	10.1		14.1	12.1	10.6	14.3	12.3
131.2							11.7	10.6			13.4	11.7	10.4	13.7	12.1
137.8							11.0	10.4			12.8	11.2	10.4	13.4	11.7
144.4							10.6				12.3	11.0	10.1	13.0	11.5
150.9											11.7	10.6		12.6	11.2
157.5											11.2	10.4		12.3	10.8
164.0											10.8	10.1		11.9	10.6
170.6											10.4			11.7	10.6
183.7														10.6	10.1
196.9														8.8	

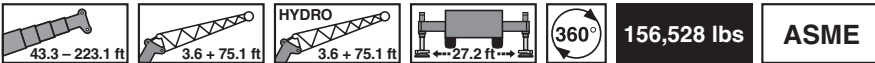
ft	167.0 ft + 3.6 ft + 55.4 ft			180.4 ft + 3.6 ft + 55.4 ft			194.2 ft + 3.6 ft + 55.4 ft			208.0 ft + 3.6 ft + 55.4 ft			223.1 ft + 3.6 ft + 55.4 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
36.1	18.3														
39.4	18.3			16.3											
45.9	18.3			16.3			14.3								
52.5	18.3			16.3			14.3			12.3					
59.1	18.3	17.2		16.3			14.3			12.3			11.2		
65.6	18.3	16.3		16.3	15.4		14.3	14.3		12.3			11.2		
72.2	18.3	15.7		16.3	14.8		14.3	13.9		12.3	12.1		11.2		
78.7	17.9	15.0	13.2	16.3	14.3	12.8	14.3	13.2		12.3	11.5		11.2	10.8	
85.3	17.2	14.6	13.0	16.1	13.7	12.3	14.3	12.8	11.7	12.3	11.0		11.2	10.4	
91.9	16.5	13.9	12.6	15.4	13.2	11.9	13.9	12.3	11.2	11.9	10.8	9.9	11.0	10.1	9.3
98.4	15.9	13.4	12.1	15.0	12.8	11.7	13.2	11.9	11.0	11.5	10.4	9.5	10.6	9.7	9.0
105.0	15.2	13.0	11.9	14.3	12.3	11.2	13.0	11.5	10.6	11.0	9.9	9.3	10.1	9.3	8.6
111.5	14.6	12.6	11.5	13.9	11.9	11.0	12.6	11.2	10.4	10.8	9.7	9.0	10.1	9.0	8.4
118.1	14.1	12.3	11.2	13.4	11.7	10.8	12.1	10.8	10.1	10.4	9.3	8.6	9.7	8.8	8.2
124.7	13.7	11.9	11.0	13.0	11.2	10.4	11.7	10.6	9.9	10.1	9.0	8.4	9.3	8.4	7.9
131.2	13.2	11.7	10.8	12.6	11.0	10.1	11.5	10.1	9.7	9.7	8.8	8.2	9.0	8.2	7.7
137.8	12.8	11.2	10.4	12.1	10.8	9.9	11.0	9.9	9.3	9.5	8.4	7.9	8.8	7.9	7.5
144.4	12.6	11.0	10.1	11.9	10.6	9.7	10.8	9.7	9.0	9.0	8.2	7.7	8.4	7.7	7.3
150.9	12.1	10.8	10.1	11.5	10.1	9.5	10.4	9.5	8.8	8.8	7.9	7.7	8.2	7.5	7.1
157.5	11.9	10.6	9.9	11.2	9.9	9.5	10.1	9.3	8.8	8.6	7.7	7.5	7.9	7.3	6.8
164.0	11.7	10.4	9.7	11.0	9.9	9.3	9.9	9.0	8.6	8.4	7.5	7.3	7.7	7.1	6.6
170.6	11.5	10.1	9.5	10.4	9.7	9.0	9.5	8.8	8.4	8.2	7.5	7.1	7.5	6.8	6.6
183.7	10.4	9.9		9.5	9.5	8.8	8.6	8.4	8.2	7.7	7.1	6.8	7.1	6.6	6.4
196.9	8.4	9.0		8.4	8.6		7.7	7.9	7.9	7.1	6.8	6.6	6.6	6.4	6.2
210.0	6.8			6.8	7.5		6.8	7.1		6.4	6.4	6.4	6.2	6.0	6.0
223.1				5.5			5.7	6.2		5.7	6.0		5.5	5.7	
236.2							4.6			4.9	5.3		4.6	5.1	
249.3										4.0			3.5	4.0	
262.5													2.6		



lbs x 1,000

ft	43.3 ft + 3.6 ft + 55.4 ft			70.9 ft + 3.6 ft + 55.4 ft			98.4 ft + 3.6 ft + 55.4 ft			125.7 ft + 3.6 ft + 55.4 ft			153.2 ft + 3.6 ft + 55.4 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	38.8														
11.5	38.1														
13.1	37.5			33.3											
14.8	36.8			33.3											
16.4	35.9			33.3											
19.7	34.2			33.3			32.6								
23.0	32.6			33.3			32.6								
26.2	31.1			32.8			32.6			27.3					
29.5	29.8	24.5		31.5			32.0			27.3					
32.8	28.2	22.9		30.4			31.1			27.3			19.8		
36.1	27.1	21.4		29.3	23.6		30.2			27.3			19.8		
39.4	25.6	20.1		28.2	22.5		29.3	23.8		27.3			19.8		
45.9	22.0	17.9	15.0	26.5	20.3		27.6	21.8		26.5	22.3		19.8		
52.5	19.2	16.1	13.7	24.5	18.5	14.8	26.2	20.1		25.4	20.9		19.8	18.7	
59.1	17.0	14.8	12.8	21.8	17.0	13.7	24.7	18.7	14.3	24.3	19.6		19.8	17.9	
65.6	15.2	13.4	11.9	19.6	15.9	13.0	23.6	17.4	13.7	23.4	18.5	14.1	19.8	17.2	
72.2	13.9	12.6	11.2	17.9	14.8	12.3	21.6	16.3	13.0	22.3	17.4	13.4	19.8	16.3	13.7
78.7	12.6	11.7	10.6	16.3	13.7	11.7	19.6	15.4	12.6	21.6	16.5	13.0	18.7	15.7	13.2
85.3	11.5	10.8		15.0	13.0	11.2	18.1	14.6	12.1	20.5	15.7	12.6	17.9	15.0	12.8
91.9	10.6	10.4		13.9	12.1	10.8	17.0	13.7	11.7	19.0	15.0	12.1	17.2	14.6	12.3
98.4				13.0	11.5	10.6	15.7	13.0	11.2	17.9	14.3	11.7	16.5	14.1	12.1
105.0				12.1	11.0	10.1	14.8	12.3	10.8	16.8	13.7	11.5	15.9	13.7	11.9
111.5				11.2	10.6		13.9	11.9	10.6	15.9	13.0	11.2	15.2	13.2	11.5
118.1				10.6			13.0	11.5	10.4	15.0	12.6	10.8	14.8	12.8	11.2
124.7							12.3	11.0	10.1	14.1	12.1	10.6	14.3	12.3	11.0
131.2							11.7	10.6		13.4	11.7	10.4	13.7	12.1	10.8
137.8							11.0	10.4		12.8	11.2	10.4	13.4	11.7	10.6
144.4							10.6			12.3	11.0	10.1	13.0	11.5	10.4
150.9										11.7	10.6		12.6	11.2	10.4
157.5										11.2	10.4		11.9	10.8	10.1
164.0										10.6	10.1		10.8	10.6	10.1
170.6										9.7			9.7	10.6	
183.7													7.7	8.4	
196.9													6.2		

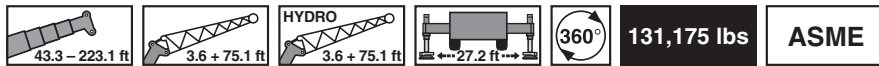
ft	167.0 ft + 3.6 ft + 55.4 ft			180.4 ft + 3.6 ft + 55.4 ft			194.2 ft + 3.6 ft + 55.4 ft			208.0 ft + 3.6 ft + 55.4 ft			223.1 ft + 3.6 ft + 55.4 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
36.1	18.3														
39.4	18.3			16.3											
45.9	18.3			16.3			14.3								
52.5	18.3			16.3			14.3			12.3					
59.1	18.3	17.2		16.3			14.3			12.3			11.2		
65.6	18.3	16.3		16.3	15.4		14.3	14.3		12.3			11.2		
72.2	18.3	15.7		16.3	14.8		14.3	13.9		12.3	12.1		11.2		
78.7	17.9	15.0	13.2	16.3	14.3	12.8	14.3	13.2		12.3	11.5		11.2	10.8	
85.3	17.2	14.6	13.0	16.1	13.7	12.3	14.3	12.8	11.7	12.3	11.0		11.2	10.4	
91.9	16.5	13.9	12.6	15.4	13.2	11.9	13.9	12.3	11.2	11.9	10.8	9.9	11.0	10.1	9.3
98.4	15.9	13.4	12.1	15.0	12.8	11.7	13.2	11.9	11.0	11.5	10.4	9.5	10.6	9.7	9.0
105.0	15.2	13.0	11.9	14.3	12.3	11.2	13.0	11.5	10.6	11.0	9.9	9.3	10.1	9.3	8.6
111.5	14.6	12.6	11.5	13.9	11.9	11.0	12.6	11.2	10.4	10.8	9.7	9.0	10.1	9.0	8.4
118.1	14.1	12.3	11.2	13.4	11.7	10.8	12.1	10.8	10.1	10.4	9.3	8.6	9.7	8.8	8.2
124.7	13.7	11.9	11.0	13.0	11.2	10.4	11.7	10.6	9.9	10.1	9.0	8.4	9.3	8.4	7.9
131.2	13.2	11.7	10.8	12.6	11.0	10.1	11.5	10.1	9.7	9.7	8.8	8.2	9.0	8.2	7.7
137.8	12.8	11.2	10.4	12.1	10.8	9.9	11.0	9.9	9.3	9.5	8.4	7.9	8.8	7.9	7.5
144.4	12.6	11.0	10.1	11.9	10.6	9.7	10.8	9.7	9.0	9.0	8.2	7.7	8.4	7.7	7.3
150.9	12.1	10.8	10.1	11.5	10.1	9.5	10.4	9.5	8.8	8.8	7.9	7.7	8.2	7.5	7.1
157.5	11.7	10.6	9.9	11.2	9.9	9.5	10.1	9.3	8.8	8.6	7.7	7.5	7.9	7.3	6.8
164.0	10.4	10.4	9.7	10.6	9.9	9.3	9.9	9.0	8.6	8.4	7.5	7.3	7.7	7.1	6.6
170.6	9.3	10.1	9.5	9.5	9.7	9.0	9.5	8.8	8.4	8.2	7.5	7.1	7.5	6.8	6.6
183.7	7.5	8.2		7.5	8.4	8.8	7.7	8.4	8.2	7.7	7.1	6.8	7.1	6.6	6.4
196.9	5.7	6.4		6.0	6.6		6.2	7.1	7.5	6.6	6.8	6.6	6.4	6.4	6.2
210.0	4.4			4.4	5.1		4.6	5.3		5.1	6.0	6.2	4.9	5.7	6.0
223.1				3.3			3.5	4.0		4.0	4.4		3.5	4.2	
236.2							2.4			2.9	3.3		2.4	3.1	



lbs x 1,000

ft	43.3 ft + 3.6 ft + 75.1 ft			70.9 ft + 3.6 ft + 75.1 ft			98.4 ft + 3.6 ft + 75.1 ft			125.7 ft + 3.6 ft + 75.1 ft			153.2 ft + 3.6 ft + 75.1 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.5	24.5														
13.1	24.5														
14.8	24.5														
16.4	24.0			20.5											
19.7	23.1			20.5											
23.0	22.3			20.5			19.4								
26.2	21.4			20.5			19.4								
29.5	20.5			20.5			19.4			17.0					
32.8	19.6			20.5			19.4			17.0					
36.1	19.0			20.1			19.4			17.0					
39.4	18.1	16.8		19.4			19.4			17.0			14.1		
45.9	16.8	15.0		18.3	15.9		18.7			17.0			14.1		
52.5	15.4	13.4		17.2	14.6		17.9	15.0		17.0			14.1		
59.1	14.1	12.1		16.1	13.7		17.0	14.1		16.5	13.9		14.1		
65.6	12.6	11.0	9.5	15.2	12.6	9.9	16.1	13.4		15.9	13.2		14.1	12.8	
72.2	11.2	10.1	8.8	14.3	11.7	9.5	15.2	12.6	9.7	15.2	12.8		14.1	12.3	
78.7	10.4	9.3	8.4	13.4	10.8	8.8	14.6	11.9	9.3	14.6	12.1	9.5	14.1	11.9	
85.3	9.5	8.6	7.7	12.6	10.1	8.4	13.9	11.0	8.8	14.1	11.7	9.0	13.7	11.5	
91.9	8.6	7.9	7.5	11.5	9.5	7.9	13.2	10.4	8.4	13.4	11.2	8.8	13.2	11.0	8.8
98.4	8.2	7.5	7.1	10.6	8.8	7.7	12.8	9.9	8.2	13.0	10.6	8.4	12.8	10.8	8.6
105.0	7.5	7.1		9.7	8.4	7.5	11.9	9.5	7.9	12.6	10.1	8.2	12.3	10.4	8.4
111.5	7.1	6.6		9.0	7.9	7.1	11.0	8.8	7.5	12.1	9.7	7.9	11.9	10.1	8.2
118.1				8.4	7.5	6.8	10.4	8.4	7.3	11.7	9.3	7.7	11.7	9.7	7.9
124.7				7.9	7.1	6.8	9.7	8.2	7.1	11.2	8.8	7.5	11.2	9.5	7.7
131.2				7.3	6.8		9.0	7.7	7.1	10.8	8.6	7.3	11.0	9.0	7.5
137.8				6.8			8.6	7.5	6.8	10.1	8.2	7.1	10.8	8.8	7.3
144.4							7.9	7.3	6.6	9.5	7.9	7.1	10.4	8.4	7.3
150.9							7.7	6.8		9.0	7.7	6.8	10.1	8.2	7.1
157.5							7.3	6.6		8.6	7.3	6.8	9.7	7.9	7.1
164.0							6.8			8.2	7.1	6.6	9.3	7.7	6.8
170.6										7.7	6.8		8.8	7.5	6.8
183.7										7.1	6.6		8.2	7.1	6.6
196.9													7.5	6.8	
210.0													7.1	6.6	

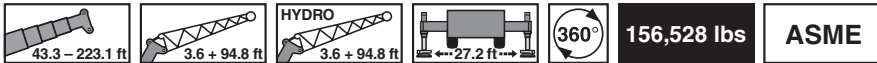
ft	167.0 ft + 3.6 ft + 75.1 ft			180.4 ft + 3.6 ft + 75.1 ft			194.2 ft + 3.6 ft + 75.1 ft			208.0 ft + 3.6 ft + 75.1 ft			223.1 ft + 3.6 ft + 75.1 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
45.9	13.2														
52.5	13.2			12.1											
59.1	13.2			12.1											
65.6	13.2			12.1			10.8			9.5			8.8		
72.2	13.2	12.1		12.1	11.9		10.8			9.5			8.8		
78.7	13.2	11.7		12.1	11.5		10.8	10.8		9.5			8.8		
85.3	13.2	11.5		12.1	11.2		10.8	10.6		9.5	9.3		8.8		
91.9	13.0	11.0	8.8	12.1	10.8		10.8	10.1		9.5	8.8		8.8	8.4	
98.4	12.6	10.6	8.6	12.1	10.4	8.6	10.8	9.7		9.5	8.6		8.8	7.9	
105.0	12.3	10.4	8.4	11.9	10.1	8.4	10.8	9.5	8.4	9.5	8.2	7.5	8.6	7.7	
111.5	11.9	10.1	8.2	11.5	9.7	8.2	10.4	9.3	8.2	9.0	7.9	7.3	8.4	7.5	6.8
118.1	11.7	9.9	7.9	11.0	9.5	7.9	10.1	8.8	8.2	8.6	7.7	7.1	7.9	7.3	6.6
124.7	11.2	9.5	7.7	10.8	9.0	7.9	9.7	8.6	7.9	8.4	7.5	6.8	7.7	7.1	6.4
131.2	10.8	9.3	7.7	10.4	8.8	7.7	9.7	8.4	7.7	8.2	7.1	6.6	7.5	6.8	6.2
137.8	10.6	9.0	7.5	9.9	8.6	7.5	9.3	8.2	7.5	7.9	6.8	6.4	7.3	6.6	6.2
144.4	10.1	8.6	7.3	9.7	8.4	7.3	9.0	7.9	7.3	7.5	6.6	6.2	7.1	6.4	6.0
150.9	9.9	8.4	7.1	9.5	8.2	7.3	8.8	7.7	7.1	7.3	6.6	6.2	6.8	6.2	5.7
157.5	9.7	8.2	7.1	9.3	7.9	7.1	8.4	7.5	7.1	7.1	6.4	6.0	6.6	6.0	5.5
164.0	9.5	7.9	6.8	8.8	7.7	7.1	8.2	7.3	6.8	6.8	6.2	5.7	6.4	5.7	5.5
170.6	9.0	7.7	6.8	8.6	7.7	6.8	7.9	7.1	6.6	6.6	6.0	5.7	6.2	5.5	5.3
183.7	8.6	7.3	6.6	8.4	7.3	6.6	7.5	6.8	6.4	6.4	5.7	5.3	6.0	5.3	5.1
196.9	7.9	7.1	6.6	7.7	7.1	6.6	7.1	6.6	6.2	6.0	5.3	5.1	5.5	5.1	4.9
210.0	7.3	6.6		7.1	6.8		6.4	6.2	6.0	5.5	5.1	4.9	5.3	4.9	4.4
223.1	6.0	6.4		6.0	6.4		5.5	5.7		5.3	4.9	4.6	4.9	4.6	4.4
236.2				4.6	5.1		4.9	5.3		4.6	4.6		4.4	4.4	4.2
249.3							3.7	4.2		4.0	4.2		3.7	4.2	
262.5							2.9			3.1	3.5		2.6	3.3	
275.6										2.2			2.2		



lbs x 1,000

ft	43.3 ft + 3.6 ft + 75.1 ft			70.9 ft + 3.6 ft + 75.1 ft			98.4 ft + 3.6 ft + 75.1 ft			125.7 ft + 3.6 ft + 75.1 ft			153.2 ft + 3.6 ft + 75.1 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.5	24.5														
13.1	24.5														
14.8	24.5														
16.4	24.0				20.5										
19.7	23.1				20.5										
23.0	22.3				20.5			19.4							
26.2	21.4				20.5			19.4							
29.5	20.5				20.5			19.4			17.0				
32.8	19.6				20.5			19.4			17.0				
36.1	19.0				20.1			19.4			17.0				
39.4	18.1	16.8			19.4			19.4			17.0			14.1	
45.9	16.8	15.0			18.3	15.9		18.7			17.0			14.1	
52.5	15.4	13.4			17.2	14.6		17.9	15.0		17.0			14.1	
59.1	14.1	12.1			16.1	13.7		17.0	14.1		16.5	13.9		14.1	
65.6	12.6	11.0	9.5		15.2	12.6	9.9	16.1	13.4		15.9	13.2		14.1	12.8
72.2	11.2	10.1	8.8		14.3	11.7	9.5	15.2	12.6	9.7	15.2	12.8		14.1	12.3
78.7	10.4	9.3	8.4		13.4	10.8	8.8	14.6	11.9	9.3	14.6	12.1	9.5	14.1	11.9
85.3	9.5	8.6	7.7		12.6	10.1	8.4	13.9	11.0	8.8	14.1	11.7	9.0	13.7	11.5
91.9	8.6	7.9	7.5		11.5	9.5	7.9	13.2	10.4	8.4	13.4	11.2	8.8	13.2	11.0
98.4	8.2	7.5	7.1		10.6	8.8	7.7	12.8	9.9	8.2	13.0	10.6	8.4	12.8	10.8
105.0	7.5	7.1			9.7	8.4	7.5	11.9	9.5	7.9	12.6	10.1	8.2	12.3	10.4
111.5	7.1	6.6			9.0	7.9	7.1	11.0	8.8	7.5	12.1	9.7	7.9	11.9	10.1
118.1					8.4	7.5	6.8	10.4	8.4	7.3	11.7	9.3	7.7	11.7	9.7
124.7					7.9	7.1	6.8	9.7	8.2	7.1	11.2	8.8	7.5	11.2	9.5
131.2					7.3	6.8		9.0	7.7	7.1	10.8	8.6	7.3	11.0	9.0
137.8					6.8			8.6	7.5	6.8	10.1	8.2	7.1	10.8	8.8
144.4								7.9	7.3	6.6	9.5	7.9	7.1	10.4	8.4
150.9								7.7	6.8		9.0	7.7	6.8	10.1	8.2
157.5								7.3	6.6		8.6	7.3	6.8	9.7	7.9
164.0								6.8			8.2	7.1	6.6	9.3	7.7
170.6											7.7	6.8		8.8	7.5
183.7											7.1	6.6		8.2	7.1
196.9														6.6	6.8
210.0														5.3	5.7

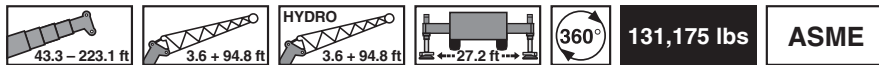
ft	167.0 ft + 3.6 ft + 75.1 ft			180.4 ft + 3.6 ft + 75.1 ft			194.2 ft + 3.6 ft + 75.1 ft			208.0 ft + 3.6 ft + 75.1 ft			223.1 ft + 3.6 ft + 75.1 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
45.9	13.2														
52.5	13.2				12.1										
59.1	13.2				12.1			10.8							
65.6	13.2				12.1			10.8			9.5			8.8	
72.2	13.2	12.1			12.1	11.9		10.8			9.5			8.8	
78.7	13.2	11.7			12.1	11.5		10.8	10.8		9.5			8.8	
85.3	13.2	11.5			12.1	11.2		10.8	10.6		9.5	9.3		8.8	
91.9	13.0	11.0	8.8		12.1	10.8		10.8	10.1		9.5	8.8		8.8	8.4
98.4	12.6	10.6	8.6		12.1	10.4	8.6	10.8	9.7		9.5	8.6		8.8	7.9
105.0	12.3	10.4	8.4		11.9	10.1	8.4	10.8	9.5	8.4	9.5	8.2	7.5	8.6	7.7
111.5	11.9	10.1	8.2		11.5	9.7	8.2	10.4	9.3	8.2	9.0	7.9	7.3	8.4	7.5
118.1	11.7	9.9	7.9		11.0	9.5	7.9	10.1	8.8	8.2	8.6	7.7	7.1	7.9	7.3
124.7	11.2	9.5	7.7		10.8	9.0	7.9	9.7	8.6	7.9	8.4	7.5	6.8	7.7	7.1
131.2	10.8	9.3	7.7		10.4	8.8	7.7	9.7	8.4	7.7	8.2	7.1	6.6	7.5	6.8
137.8	10.6	9.0	7.5		9.9	8.6	7.5	9.3	8.2	7.5	7.9	6.8	6.4	7.3	6.6
144.4	10.1	8.6	7.3		9.7	8.4	7.3	9.0	7.9	7.3	7.5	6.6	6.2	7.1	6.4
150.9	9.9	8.4	7.1		9.5	8.2	7.3	8.8	7.7	7.1	7.3	6.6	6.2	6.8	6.2
157.5	9.7	8.2	7.1		9.3	7.9	7.1	8.4	7.5	7.1	7.1	6.4	6.0	6.6	6.0
164.0	9.5	7.9	6.8		8.8	7.7	7.1	8.2	7.3	6.8	6.8	6.2	5.7	6.4	5.7
170.6	9.0	7.7	6.8		8.6	7.7	6.8	7.9	7.1	6.6	6.6	6.0	5.7	6.2	5.5
183.7	7.9	7.3	6.6		7.9	7.3	6.6	7.5	6.8	6.4	6.4	5.7	5.3	6.0	5.3
196.9	6.2	7.1	6.6		6.2	7.1	6.6	6.4	6.6	6.2	6.0	5.3	5.1	5.5	5.1
210.0	4.9	5.7			4.9	5.7		5.1	6.0	6.0	5.3	5.1	4.9	5.1	4.9
223.1	3.5	4.2			3.5	4.2		3.7	4.6		4.2	4.9	4.6	3.7	4.6
236.2					2.4	2.9		2.6	3.3		2.9	3.7		2.6	3.5
249.3									2.2			2.6			2.4



lbs x 1,000

ft	43.3 ft + 3.6 ft + 94.8 ft			70.9 ft + 3.6 ft + 94.8 ft			98.4 ft + 3.6 ft + 94.8 ft			125.7 ft + 3.6 ft + 94.8 ft			153.2 ft + 3.6 ft + 94.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4	14.3														
19.7	14.3			13.7											
23.0	14.3			13.7											
26.2	14.3			13.7			13.7								
29.5	14.3			13.7			13.7								
32.8	14.3			13.7			13.7								
36.1	14.1			13.7			13.7			11.9					
39.4	13.7			13.7			13.7			11.9					
45.9	12.8			13.2			13.4			11.9			10.1		
52.5	11.9	10.8		12.6			12.8			11.9			10.1		
59.1	11.0	9.9		11.9	10.4		12.3			11.7			10.1		
65.6	10.4	9.3		11.2	9.7		11.7	9.9		11.5			10.1		
72.2	9.7	8.6		10.6	9.0		11.2	9.5		11.0	9.3		10.1		
78.7	9.0	7.9	6.8	10.1	8.6		10.8	9.0		10.6	8.8		9.9	8.6	
85.3	8.4	7.3	6.4	9.5	8.2	6.6	10.1	8.6		10.1	8.6		9.7	8.4	
91.9	7.5	6.6	6.0	9.0	7.7	6.4	9.7	8.2	6.6	9.9	8.2		9.5	7.9	
98.4	6.8	6.2	5.5	8.6	7.1	6.0	9.3	7.9	6.2	9.5	7.9	6.4	9.3	7.7	
105.0	6.4	5.7	5.3	8.2	6.6	5.7	9.0	7.5	6.0	9.3	7.7	6.2	8.8	7.5	6.2
111.5	5.7	5.3	5.1	7.5	6.4	5.5	8.6	7.1	5.7	8.8	7.3	6.0	8.6	7.3	6.0
118.1	5.3	5.1	4.9	6.8	6.0	5.3	8.2	6.6	5.5	8.6	7.1	5.7	8.4	7.1	5.7
124.7	5.1	4.9		6.4	5.5	5.1	7.7	6.4	5.3	8.2	6.8	5.5	8.2	6.8	5.7
131.2	4.6	4.4		6.0	5.3	4.9	7.3	6.0	5.1	7.9	6.6	5.3	7.9	6.6	5.5
137.8				5.5	5.1	4.6	6.8	5.7	5.1	7.7	6.2	5.3	7.7	6.4	5.3
144.4				5.3	4.9	4.6	6.4	5.5	4.9	7.5	6.0	5.1	7.5	6.4	5.3
150.9				4.9	4.6		6.0	5.3	4.6	7.1	5.7	4.9	7.3	6.2	5.1
157.5				4.6			5.7	5.1	4.6	6.6	5.5	4.9	7.1	6.0	5.1
164.0							5.3	4.9	4.4	6.4	5.3	4.6	6.8	5.7	4.9
170.6							5.1	4.6		6.0	5.1	4.6	6.8	5.5	4.9
183.7							4.6			5.5	4.9	4.4	6.2	5.3	4.6
196.9										5.1	4.6		5.7	4.9	4.4
210.0										4.6			5.3	4.6	
223.1													4.9	4.4	
236.2													4.4		

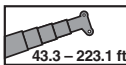
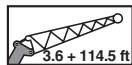

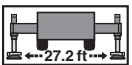

ft	167.0 ft + 3.6 ft + 94.8 ft			180.4 ft + 3.6 ft + 94.8 ft			194.2 ft + 3.6 ft + 94.8 ft			208.0 ft + 3.6 ft + 94.8 ft			223.1 ft + 3.6 ft + 94.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
52.5	9.7														
59.1	9.7			9.0											
65.6	9.7			9.0			8.4			7.3			6.8		
72.2	9.7			9.0			8.4			7.3			6.8		
78.7	9.7	8.6		9.0			8.4			7.3			6.8		
85.3	9.5	8.2		9.0	7.9		8.4			7.3			6.8		
91.9	9.3	7.9		8.8	7.7		8.4	7.5		7.3			6.8		
98.4	9.0	7.7		8.6	7.5		8.2	7.3		7.3	6.8		6.8		
105.0	8.8	7.5		8.4	7.3		7.9	7.1		7.3	6.6		6.8	6.4	
111.5	8.6	7.3	6.0	8.2	7.1		7.9	6.8		7.3	6.6		6.8	6.2	
118.1	8.4	7.1	6.0	8.2	6.8	6.0	7.7	6.8	5.7	7.3	6.4		6.8	6.0	
124.7	8.2	6.8	5.7	7.9	6.8	5.7	7.5	6.6	5.7	7.1	6.2	5.5	6.6	5.7	
131.2	7.9	6.6	5.5	7.7	6.6	5.5	7.5	6.4	5.5	6.8	6.0	5.3	6.4	5.5	5.1
137.8	7.7	6.4	5.3	7.5	6.4	5.5	7.3	6.4	5.5	6.6	5.7	5.3	6.2	5.3	4.9
144.4	7.5	6.4	5.3	7.5	6.2	5.3	7.1	6.2	5.3	6.4	5.5	5.1	6.0	5.3	4.9
150.9	7.3	6.2	5.1	7.3	6.2	5.1	7.1	6.0	5.3	6.2	5.3	4.9	5.5	5.1	4.6
157.5	7.1	6.0	5.1	7.1	6.0	5.1	6.8	6.0	5.1	6.0	5.1	4.9	5.3	4.9	4.4
164.0	7.1	6.0	4.9	6.8	6.0	4.9	6.6	5.7	5.1	5.7	5.1	4.6	5.3	4.6	4.4
170.6	6.8	5.7	4.9	6.8	5.7	4.9	6.6	5.7	4.9	5.5	4.9	4.4	5.1	4.4	4.2
183.7	6.4	5.3	4.6	6.4	5.5	4.6	6.2	5.5	4.6	5.1	4.6	4.2	4.9	4.2	4.0
196.9	6.0	5.1	4.4	6.2	5.1	4.6	6.0	5.1	4.6	4.9	4.2	4.0	4.4	4.0	3.7
210.0	5.5	4.9	4.4	5.7	4.9	4.4	5.5	4.9	4.4	4.4	4.0	3.7	4.2	3.7	3.5
223.1	5.1	4.6		5.5	4.6	4.4	5.1	4.6	4.4	4.2	3.7	3.5	4.0	3.5	3.3
236.2	4.9	4.4		4.9	4.4		4.4	4.4	4.2	3.7	3.5	3.3	3.7	3.3	3.1
249.3	4.0			3.7	4.4		4.0	4.2		3.5	3.3	3.1	3.3	3.1	2.9
262.5				2.9			2.9	3.5		3.1	3.1		2.9	2.9	
275.6										2.2	2.9			2.6	



lbs x 1,000

ft	43.3 ft + 3.6 ft + 94.8 ft			70.9 ft + 3.6 ft + 94.8 ft			98.4 ft + 3.6 ft + 94.8 ft			125.7 ft + 3.6 ft + 94.8 ft			153.2 ft + 3.6 ft + 94.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4	14.3														
19.7	14.3			13.7											
23.0	14.3			13.7											
26.2	14.3			13.7			13.7								
29.5	14.3			13.7			13.7								
32.8	14.3			13.7			13.7								
36.1	14.1			13.7			13.7			11.9					
39.4	13.7			13.7			13.7			11.9					
45.9	12.8			13.2			13.4			11.9			10.1		
52.5	11.9	10.8		12.6			12.8			11.9			10.1		
59.1	11.0	9.9		11.9	10.4		12.3			11.7			10.1		
65.6	10.4	9.3		11.2	9.7		11.7	9.9		11.5			10.1		
72.2	9.7	8.6		10.6	9.0		11.2	9.5		11.0	9.3		10.1		
78.7	9.0	7.9	6.8	10.1	8.6		10.8	9.0		10.6	8.8		9.9	8.6	
85.3	8.4	7.3	6.4	9.5	8.2	6.6	10.1	8.6		10.1	8.6		9.7	8.4	
91.9	7.5	6.6	6.0	9.0	7.7	6.4	9.7	8.2	6.6	9.9	8.2		9.5	7.9	
98.4	6.8	6.2	5.5	8.6	7.1	6.0	9.3	7.9	6.2	9.5	7.9	6.4	9.3	7.7	
105.0	6.4	5.7	5.3	8.2	6.6	5.7	9.0	7.5	6.0	9.3	7.7	6.2	8.8	7.5	6.2
111.5	5.7	5.3	5.1	7.5	6.4	5.5	8.6	7.1	5.7	8.8	7.3	6.0	8.6	7.3	6.0
118.1	5.3	5.1	4.9	6.8	6.0	5.3	8.2	6.6	5.5	8.6	7.1	5.7	8.4	7.1	5.7
124.7	5.1	4.9		6.4	5.5	5.1	7.7	6.4	5.3	8.2	6.8	5.5	8.2	6.8	5.7
131.2	4.6	4.4		6.0	5.3	4.9	7.3	6.0	5.1	7.9	6.6	5.3	7.9	6.6	5.5
137.8				5.5	5.1	4.6	6.8	5.7	5.1	7.7	6.2	5.3	7.7	6.4	5.3
144.4				5.3	4.9	4.6	6.4	5.5	4.9	7.5	6.0	5.1	7.5	6.4	5.3
150.9				4.9	4.6		6.0	5.3	4.6	7.1	5.7	4.9	7.3	6.2	5.1
157.5				4.6			5.7	5.1	4.6	6.6	5.5	4.9	7.1	6.0	5.1
164.0							5.3	4.9	4.4	6.4	5.3	4.6	6.8	5.7	4.9
170.6							5.1	4.6		6.0	5.1	4.6	6.8	5.5	4.9
183.7							4.6			5.5	4.9	4.4	6.2	5.3	4.6
196.9										5.1	4.6		5.7	4.9	4.4
210.0										4.6			5.3	4.6	
223.1													4.2	4.4	
236.2													3.3		

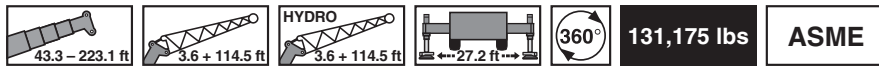
ft	167.0 ft + 3.6 ft + 94.8 ft			180.4 ft + 3.6 ft + 94.8 ft			194.2 ft + 3.6 ft + 94.8 ft			208.0 ft + 3.6 ft + 94.8 ft			223.1 ft + 3.6 ft + 94.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
52.5	9.7														
59.1	9.7			9.0											
65.6	9.7			9.0			8.4			7.3			6.8		
72.2	9.7			9.0			8.4			7.3			6.8		
78.7	9.7	8.6		9.0			8.4			7.3			6.8		
85.3	9.5	8.2		9.0	7.9		8.4			7.3			6.8		
91.9	9.3	7.9		8.8	7.7		8.4	7.5		7.3			6.8		
98.4	9.0	7.7		8.6	7.5		8.2	7.3		7.3	6.8		6.8		
105.0	8.8	7.5		8.4	7.3		7.9	7.1		7.3	6.6		6.8	6.4	
111.5	8.6	7.3	6.0	8.2	7.1		7.9	6.8		7.3	6.6		6.8	6.2	
118.1	8.4	7.1	6.0	8.2	6.8	6.0	7.7	6.8	5.7	7.3	6.4		6.8	6.0	
124.7	8.2	6.8	5.7	7.9	6.8	5.7	7.5	6.6	5.7	7.1	6.2	5.5	6.6	5.7	
131.2	7.9	6.6	5.5	7.7	6.6	5.5	7.5	6.4	5.5	6.8	6.0	5.3	6.4	5.5	5.1
137.8	7.7	6.4	5.3	7.5	6.4	5.5	7.3	6.4	5.5	6.6	5.7	5.3	6.2	5.3	4.9
144.4	7.5	6.4	5.3	7.5	6.2	5.3	7.1	6.2	5.3	6.4	5.5	5.1	6.0	5.3	4.9
150.9	7.3	6.2	5.1	7.3	6.2	5.1	7.1	6.0	5.3	6.2	5.3	4.9	5.5	5.1	4.6
157.5	7.1	6.0	5.1	7.1	6.0	5.1	6.8	6.0	5.1	6.0	5.1	4.9	5.3	4.9	4.4
164.0	7.1	6.0	4.9	6.8	6.0	4.9	6.6	5.7	5.1	5.7	5.1	4.6	5.3	4.6	4.4
170.6	6.8	5.7	4.9	6.8	5.7	4.9	6.6	5.7	4.9	5.5	4.9	4.4	5.1	4.4	4.2
183.7	6.4	5.3	4.6	6.4	5.5	4.6	6.2	5.5	4.6	5.1	4.6	4.2	4.9	4.2	4.0
196.9	6.0	5.1	4.4	6.2	5.1	4.6	6.0	5.1	4.6	4.9	4.2	4.0	4.4	4.0	3.7
210.0	5.1	4.9	4.4	5.1	4.9	4.4	5.3	4.9	4.4	4.4	4.0	3.7	4.2	3.7	3.5
223.1	4.0	4.6		3.7	4.6	4.4	4.0	4.6	4.4	4.2	3.7	3.5	3.7	3.5	3.3
236.2	2.9	3.5		2.6	3.5		2.9	3.7	4.2	3.1	3.5	3.3	2.6	3.3	3.1
249.3					2.4			2.6			3.1	3.1		2.9	2.9






156,528 lbs
ASME

lbs x 1,000

ft	43.3 ft + 3.6 ft + 114.5 ft			70.9 ft + 3.6 ft + 114.5 ft			98.4 ft + 3.6 ft + 114.5 ft			125.7 ft + 3.6 ft + 114.5 ft			153.2 ft + 3.6 ft + 114.5 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
19.7	10.4														
23.0	10.4			9.9											
26.2	10.4			9.9											
29.5	10.4			9.9											
32.8	10.4			9.9			9.9								
36.1	10.4			9.9			9.9								
39.4	9.9			9.9			9.9			8.8					
45.9	9.5			9.7			9.7			8.8					
52.5	8.8			9.0			9.3			8.6					
59.1	8.4			8.6			8.8			8.4			7.7		
65.6	7.9	7.3		8.2	7.3		8.4			8.2			7.5		
72.2	7.5	6.8		7.9	6.8		8.2	7.1		7.7			7.3		
78.7	7.1	6.4		7.5	6.6		7.7	6.6		7.5	6.4		7.1		
85.3	6.6	6.0		7.1	6.2		7.5	6.4		7.3	6.2		6.8	6.0	
91.9	6.2	5.7		6.8	6.0		7.1	6.0		7.1	6.0		6.6	5.7	
98.4	6.0	5.3	4.6	6.4	5.7	4.6	6.8	5.7		6.8	5.7		6.4	5.5	
105.0	5.5	4.9	4.2	6.2	5.5	4.4	6.6	5.5	4.6	6.6	5.5		6.2	5.3	
111.5	4.9	4.4	4.0	6.0	5.1	4.2	6.4	5.3	4.4	6.4	5.3	4.4	6.2	5.1	
118.1	4.6	4.2	3.7	5.7	4.9	4.0	6.0	5.1	4.2	6.2	5.1	4.2	6.0	5.1	
124.7	4.2	3.7	3.5	5.3	4.4	3.7	5.7	4.9	4.0	6.0	5.1	4.2	5.7	4.9	4.2
131.2	3.7	3.5	3.3	4.9	4.2	3.5	5.5	4.6	3.7	5.7	4.9	4.0	5.5	4.6	4.0
137.8	3.5	3.3	3.1	4.6	4.0	3.5	5.3	4.4	3.7	5.5	4.6	3.7	5.5	4.6	4.0
144.4	3.3	3.1		4.2	3.7	3.3	5.1	4.2	3.5	5.3	4.6	3.7	5.3	4.4	3.7
150.9	2.9	2.9		4.0	3.5	3.1	4.9	4.0	3.3	5.3	4.4	3.5	5.1	4.4	3.7
157.5				3.7	3.3	3.1	4.6	3.7	3.3	5.1	4.2	3.5	5.1	4.2	3.5
164.0				3.3	3.1	2.9	4.2	3.5	3.1	4.9	4.0	3.3	4.9	4.2	3.5
170.6				3.1	3.1		4.0	3.5	3.1	4.6	3.7	3.3	4.9	4.0	3.3
183.7							3.5	3.1	2.9	4.2	3.5	3.1	4.4	3.7	3.1
196.9							3.1	2.9		3.7	3.3	2.9	4.4	3.5	3.1
210.0										3.3	3.1		4.0	3.3	2.9
223.1										3.1	2.9		3.5	3.1	2.9
236.2													3.3	2.9	
249.3													3.1	2.9	

ft	167.0 ft + 3.6 ft + 114.5 ft			180.4 ft + 3.6 ft + 114.5 ft			194.2 ft + 3.6 ft + 114.5 ft			208.0 ft + 3.6 ft + 114.5 ft			223.1 ft + 3.6 ft + 114.5 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
65.6	7.3			6.8			6.4			5.7			5.3		
72.2	7.1			6.6			6.2			5.7			5.3		
78.7	6.8			6.6			6.2			5.5			5.3		
85.3	6.6			6.4			6.0			5.5			5.1		
91.9	6.4	5.5		6.2			5.7			5.3			5.1		
98.4	6.4	5.3		6.0	5.3		5.7			5.3			4.9		
105.0	6.2	5.3		6.0	5.1		5.5	4.9		5.1			4.9		
111.5	6.0	5.1		5.7	4.9		5.5	4.9		5.1	4.4		4.9		
118.1	5.7	4.9		5.7	4.9		5.3	4.6		5.1	4.4		4.6		
124.7	5.7	4.9		5.5	4.6		5.3	4.4		4.9	4.2		4.6		
131.2	5.5	4.6	4.0	5.3	4.6	4.0	5.1	4.4		4.9	4.2		4.6		
137.8	5.3	4.6	4.0	5.3	4.4	4.0	5.1	4.2	4.0	4.6	4.0		4.4		
144.4	5.3	4.4	3.7	5.1	4.4	3.7	4.9	4.2	3.7	4.6	4.0		4.4		
150.9	5.1	4.4	3.7	5.1	4.2	3.7	4.9	4.2	3.7	4.4	4.0		4.2		
157.5	5.1	4.2	3.5	4.9	4.2	3.5	4.6	4.0	3.5	4.4	3.7		4.2		
164.0	4.9	4.2	3.5	4.9	4.0	3.5	4.6	4.0	3.5	4.4	3.7		4.2		
170.6	4.6	4.0	3.3	4.6	4.0	3.3	4.4	3.7	3.3	4.2	3.7		4.0		
183.7	4.4	3.7	3.3	4.4	3.7	3.3	4.2	3.7	3.3	4.0	3.5		3.7		
196.9	4.4	3.5	3.1	4.2	3.7	3.1	4.2	3.5	3.1	3.7	3.3		3.5		
210.0	4.2	3.3	2.9	4.0	3.5	3.1	4.0	3.5	3.1	3.5	3.1		3.3		
223.1	3.7	3.1	2.9	4.0	3.3	2.9	3.7	3.3	2.9	3.3	2.9		2.9		
236.2	3.5	3.1	2.9	3.7	3.1	2.9	3.7	3.1	2.9	2.9	2.6		2.6		
249.3	3.3	2.9		3.5	2.9		3.3	3.1	2.9	2.4	2.2		2.4		
262.5	2.9	2.9		2.9	2.9		2.9	2.9		2.2			2.2		
275.6					2.6		2.2	2.6							







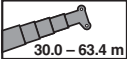

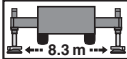

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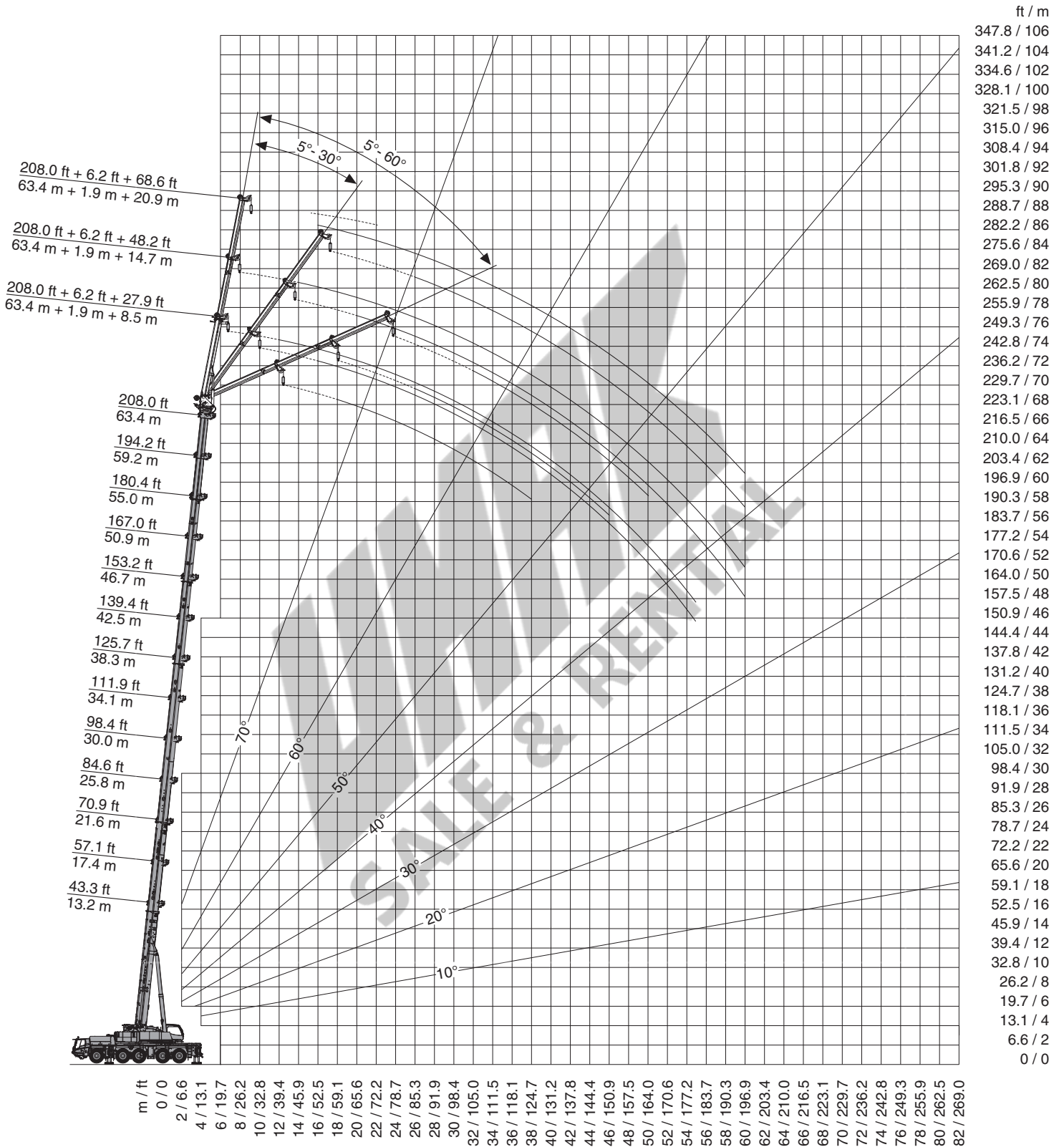
ft	43.3 ft + 3.6 ft + 114.5 ft			70.9 ft + 3.6 ft + 114.5 ft			98.4 ft + 3.6 ft + 114.5 ft			125.7 ft + 3.6 ft + 114.5 ft			153.2 ft + 3.6 ft + 114.5 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
19.7	10.4														
23.0	10.4			9.9											
26.2	10.4			9.9											
29.5	10.4			9.9											
32.8	10.4			9.9			9.9								
36.1	10.4			9.9			9.9								
39.4	9.9			9.9			9.9			8.8					
45.9	9.5			9.7			9.7			8.8					
52.5	8.8			9.0			9.3			8.6					
59.1	8.4			8.6			8.8			8.4			7.7		
65.6	7.9	7.3		8.2	7.3		8.4			8.2			7.5		
72.2	7.5	6.8		7.9	6.8		8.2	7.1		7.7			7.3		
78.7	7.1	6.4		7.5	6.6		7.7	6.6		7.5	6.4		7.1		
85.3	6.6	6.0		7.1	6.2		7.5	6.4		7.3	6.2		6.8	6.0	
91.9	6.2	5.7		6.8	6.0		7.1	6.0		7.1	6.0		6.6	5.7	
98.4	6.0	5.3	4.6	6.4	5.7	4.6	6.8	5.7		6.8	5.7		6.4	5.5	
105.0	5.5	4.9	4.2	6.2	5.5	4.4	6.6	5.5	4.6	6.6	5.5		6.2	5.3	
111.5	4.9	4.4	4.0	6.0	5.1	4.2	6.4	5.3	4.4	6.4	5.3	4.4	6.2	5.1	
118.1	4.6	4.2	3.7	5.7	4.9	4.0	6.0	5.1	4.2	6.2	5.1	4.2	6.0	5.1	
124.7	4.2	3.7	3.5	5.3	4.4	3.7	5.7	4.9	4.0	6.0	5.1	4.2	5.7	4.9	4.2
131.2	3.7	3.5	3.3	4.9	4.2	3.5	5.5	4.6	3.7	5.7	4.9	4.0	5.5	4.6	4.0
137.8	3.5	3.3	3.1	4.6	4.0	3.5	5.3	4.4	3.7	5.5	4.6	3.7	5.5	4.6	4.0
144.4	3.3	3.1		4.2	3.7	3.3	5.1	4.2	3.5	5.3	4.6	3.7	5.3	4.4	3.7
150.9	2.9	2.9		4.0	3.5	3.1	4.9	4.0	3.3	5.3	4.4	3.5	5.1	4.4	3.7
157.5				3.7	3.3	3.1	4.6	3.7	3.3	5.1	4.2	3.5	5.1	4.2	3.5
164.0				3.3	3.1	2.9	4.2	3.5	3.1	4.9	4.0	3.3	4.9	4.2	3.5
170.6				3.1	3.1		4.0	3.5	3.1	4.6	3.7	3.3	4.9	4.0	3.3
183.7							3.5	3.1	2.9	4.2	3.5	3.1	4.4	3.7	3.1
196.9							3.1	2.9		3.7	3.3	2.9	4.4	3.5	3.1
210.0										3.3	3.1		4.0	3.3	2.9
223.1										3.1	2.9		3.5	3.1	2.9
236.2													3.3	2.9	
249.3													2.4	2.9	

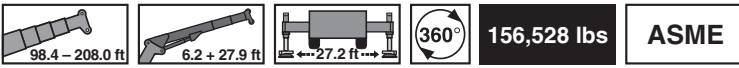
ft	167.0 ft + 3.6 ft + 114.5 ft			180.4 ft + 3.6 ft + 114.5 ft			194.2 ft + 3.6 ft + 114.5 ft			208.0 ft + 3.6 ft + 114.5 ft			223.1 ft + 3.6 ft + 114.5 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
65.6	7.3			6.8			6.4			5.7			5.3		
72.2	7.1			6.6			6.2			5.7			5.3		
78.7	6.8			6.6			6.2			5.5			5.3		
85.3	6.6			6.4			6.0			5.5			5.1		
91.9	6.4	5.5		6.2			5.7			5.3			5.1		
98.4	6.4	5.3		6.0	5.3		5.7			5.3			4.9		
105.0	6.2	5.3		6.0	5.1		5.5	4.9		5.1			4.9		
111.5	6.0	5.1		5.7	4.9		5.5	4.9		5.1	4.4		4.9		
118.1	5.7	4.9		5.7	4.9		5.3	4.6		5.1	4.4		4.6		
124.7	5.7	4.9		5.5	4.6		5.3	4.4		4.9	4.2		4.6		
131.2	5.5	4.6	4.0	5.3	4.6	4.0	5.1	4.4		4.9	4.2		4.6		
137.8	5.3	4.6	4.0	5.3	4.4	4.0	5.1	4.2	4.0	4.6	4.0		4.4		
144.4	5.3	4.4	3.7	5.1	4.4	3.7	4.9	4.2	3.7	4.6	4.0		4.4		
150.9	5.1	4.4	3.7	5.1	4.2	3.7	4.9	4.2	3.7	4.4	4.0		4.2		
157.5	5.1	4.2	3.5	4.9	4.2	3.5	4.6	4.0	3.5	4.4	3.7		4.2		
164.0	4.9	4.2	3.5	4.9	4.0	3.5	4.6	4.0	3.5	4.4	3.7		4.2		
170.6	4.6	4.0	3.3	4.6	4.0	3.3	4.4	3.7	3.3	4.2	3.7		4.0		
183.7	4.4	3.7	3.3	4.4	3.7	3.3	4.2	3.7	3.3	4.0	3.5		3.7		
196.9	4.4	3.5	3.1	4.2	3.7	3.1	4.2	3.5	3.1	3.7	3.3		3.5		
210.0	4.2	3.3	2.9	4.0	3.5	3.1	4.0	3.5	3.1	3.5	3.1		3.3		
223.1	3.7	3.1	2.9	4.0	3.3	2.9	3.7	3.3	2.9	3.3	2.9		2.9		
236.2	3.1	3.1	2.9	2.9	3.1	2.9	2.9	3.1	2.9	2.9	2.6				
249.3		2.9			2.9			3.1	2.9		2.2				

UNIVERSITY
SALE & RENTAL

Working range · Rayon de travail · Zona de trabajo

				156,528 lbs	ASME
				71 t	ASME

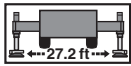
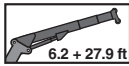
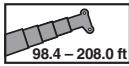




lbs x 1,000

ft	98.4 ft + 6.2 ft + 27.9 ft			125.7 ft + 6.2 ft + 27.9 ft			139.4 ft + 6.2 ft + 27.9 ft			153.2 ft + 6.2 ft + 27.9 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
16.4	66.1											
19.7	61.9			51.6								
23.0	57.5			55.1			47.0					
26.2	53.8			55.1			47.0			38.6		
29.5	50.3	35.1		55.1			47.0			38.6		
32.8	47.4	34.0		54.5	35.5		47.0			38.6		
36.1	44.8	33.1	27.3	51.6	34.6		47.0	35.1		38.6		
39.4	42.3	32.2	27.1	48.9	33.7	27.3	46.3	34.4		38.6	34.8	
45.9	38.1	30.6	26.7	44.5	32.2	26.9	43.0	32.8	27.1	37.3	33.5	27.1
52.5	34.8	29.1	26.5	40.6	30.9	26.7	39.9	31.5	26.7	34.2	32.2	26.9
59.1	32.0	28.0	26.2	37.5	29.8	26.5	36.8	30.4	26.5	31.5	30.2	26.2
65.6	29.5	26.9	26.2	34.6	28.7	26.2	34.0	29.3	26.2	29.1	28.0	26.0
72.2	27.3	26.0		32.2	27.8	26.2	31.5	28.4	26.2	27.1	26.0	25.8
78.7	25.6	25.4		30.2	26.9	26.2	29.1	27.6	25.8	25.1	24.5	24.3
85.3	24.0	24.7		28.4	26.0		27.1	26.7	25.8	23.4	22.7	22.9
91.9	22.7	24.3		26.7	25.4		25.4	24.9		21.6	21.4	21.4
98.4	21.4	23.8		24.9	24.9		23.6	23.4		20.1	20.1	
105.0	20.3	23.8		21.4	22.9		22.0	21.8		18.7	18.7	
111.5	19.4			19.6	19.6		19.0	20.1		17.4	17.4	
118.1	18.5			17.4	18.1		16.1	17.2		16.3	16.3	
124.7				15.0	15.7		14.3	14.6		14.1	15.0	
131.2				13.0	13.4		13.0	13.2		11.9	12.8	
137.8				11.0			11.5	11.9		10.6	10.8	
144.4				9.7			9.7	9.9		9.5	9.7	
150.9				4.6			8.2			8.6	8.8	
157.5							6.6			7.3		
164.0							5.7			6.0		

ft	167.0 ft + 6.2 ft + 27.9 ft			180.4 ft + 6.2 ft + 27.9 ft			194.2 ft + 6.2 ft + 27.9 ft			208.0 ft + 6.2 ft + 27.9 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
29.5	30.4			22.5								
32.8	30.4			25.4			18.7					
36.1	30.4			25.4			21.2					
39.4	30.4			25.4			21.2			15.4		
45.9	30.4	29.3		25.4	25.1		19.8	18.3		15.4		
52.5	29.5	27.6	26.7	24.7	23.4	22.9	18.5	17.0		15.0	13.9	
59.1	27.1	25.8	25.1	23.1	21.8	21.4	17.9	16.1	15.4	13.9	13.0	12.3
65.6	25.1	24.3	23.8	21.6	20.5	20.1	16.5	15.2	14.6	13.2	12.1	11.7
72.2	23.1	22.7	22.5	20.3	19.2	19.0	15.7	14.6	13.9	12.3	11.2	11.0
78.7	21.6	21.2	21.2	18.7	18.1	17.9	14.6	13.7	13.2	11.7	10.6	10.4
85.3	20.1	19.6	19.6	17.4	17.0	16.8	13.7	12.8	12.6	10.8	10.1	9.7
91.9	18.7	18.3	18.3	16.1	15.9	15.9	13.0	12.1	11.9	10.1	9.5	9.3
98.4	17.4	17.2	17.2	15.0	14.8	15.0	12.1	11.5	11.5	9.5	9.0	8.8
105.0	16.3	16.1	16.1	13.9	13.9	13.9	11.5	10.8	10.8	8.8	8.6	8.4
111.5	15.2	15.0	15.0	13.0	13.0	13.0	10.8	10.4	10.4	8.4	7.9	7.9
118.1	14.1	14.1	14.1	12.1	12.1	12.1	10.4	9.7	9.7	7.9	7.5	7.5
124.7	13.2	13.2	13.2	11.2	11.2	11.2	9.7	9.3	9.3	7.3	7.1	7.1
131.2	11.5	12.3		10.6	10.6		9.0	8.8		6.8	6.6	
137.8	10.6	10.6		9.0	9.9		8.4	8.4		6.6	6.2	
144.4	9.0	9.7		8.4	8.4		7.3	7.9		6.2	6.0	
150.9	7.5	7.9		7.7	7.7		6.6	6.8		5.3	5.5	
157.5	6.6	6.8		6.6	7.1		6.2	6.2		5.1	4.9	
164.0	5.1	6.2		5.3	5.7		5.5	5.7		4.6	4.6	
180.4	3.5			3.1	3.1		3.1	3.3		3.5	3.7	



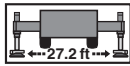
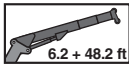
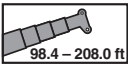
131,175 lbs

ASME

lbs x 1,000

ft	98.4 ft + 6.2 ft + 27.9 ft			125.7 ft + 6.2 ft + 27.9 ft			139.4 ft + 6.2 ft + 27.9 ft			153.2 ft + 6.2 ft + 27.9 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
16.4	66.1											
19.7	61.9			51.6								
23.0	57.5			55.1			47.0					
26.2	53.8			55.1			47.0			38.6		
29.5	50.3	35.1		55.1			47.0			38.6		
32.8	47.4	34.0		54.5	35.5		47.0			38.6		
36.1	44.8	33.1	27.3	51.6	34.6		47.0	35.1		38.6		
39.4	42.3	32.2	27.1	48.9	33.7	27.3	46.3	34.4		38.6	34.8	
45.9	38.1	30.6	26.7	44.5	32.2	26.9	43.0	32.8	27.1	37.3	33.5	27.1
52.5	34.8	29.1	26.5	40.6	30.9	26.7	39.9	31.5	26.7	34.2	32.2	26.9
59.1	32.0	28.0	26.2	37.5	29.8	26.5	36.8	30.4	26.5	31.5	30.2	26.2
65.6	29.5	26.9	26.2	34.6	28.7	26.2	34.0	29.3	26.2	29.1	28.0	26.0
72.2	27.3	26.0		32.2	27.8	26.2	31.5	28.4	26.2	27.1	26.0	25.8
78.7	25.6	25.4		30.2	26.9	26.2	29.1	27.6	25.8	25.1	24.5	24.3
85.3	24.0	24.7		27.8	26.0		27.1	26.7	25.8	23.4	22.7	22.9
91.9	22.7	24.3		25.1	25.4		23.8	24.9		21.6	21.4	21.4
98.4	21.4	23.6		21.4	23.1		20.7	21.8		20.1	20.1	
105.0	20.3	21.4		18.3	19.6		18.7	19.0		17.2	18.7	
111.5	18.1			15.9	16.5		15.9	17.0		15.4	15.9	
118.1	16.3			14.6	14.6		13.4	14.3		13.9	14.1	
124.7				12.3	13.0		11.7	12.1		11.7	12.8	
131.2				10.8	11.0		10.6	10.8		9.9	10.8	
137.8				9.9			9.3	9.7		8.4	8.8	
144.4				8.8			7.7	7.9		7.5	7.7	
150.9				4.6			6.8			6.6	6.8	
157.5							6.2			5.3		
164.0							5.5			4.6		

ft	167.0 ft + 6.2 ft + 27.9 ft			180.4 ft + 6.2 ft + 27.9 ft			194.2 ft + 6.2 ft + 27.9 ft			208.0 ft + 6.2 ft + 27.9 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
29.5	30.4			22.5								
32.8	30.4			25.4			18.7					
36.1	30.4			25.4			21.2					
39.4	30.4			25.4			21.2			15.4		
45.9	30.4	29.3		25.4	25.1		19.8	18.3		15.4		
52.5	29.5	27.6	26.7	24.7	23.4	22.9	18.5	17.0		15.0	13.9	
59.1	27.1	25.8	25.1	23.1	21.8	21.4	17.9	16.1	15.4	13.9	13.0	12.3
65.6	25.1	24.3	23.8	21.6	20.5	20.1	16.5	15.2	14.6	13.2	12.1	11.7
72.2	23.1	22.7	22.5	20.3	19.2	19.0	15.7	14.6	13.9	12.3	11.2	11.0
78.7	21.6	21.2	21.2	18.7	18.1	17.9	14.6	13.7	13.2	11.7	10.6	10.4
85.3	20.1	19.6	19.6	17.4	17.0	16.8	13.7	12.8	12.6	10.8	10.1	9.7
91.9	18.7	18.3	18.3	16.1	15.9	15.9	13.0	12.1	11.9	10.1	9.5	9.3
98.4	17.4	17.2	17.2	15.0	14.8	15.0	12.1	11.5	11.5	9.5	9.0	8.8
105.0	16.3	16.1		13.9	13.9	13.9	11.5	10.8	10.8	8.8	8.6	8.4
111.5	15.2	15.0		13.0	13.0	13.0	10.8	10.4	10.4	8.4	7.9	7.9
118.1	12.8	14.1		12.1	12.1		10.4	9.7	9.7	7.9	7.5	7.5
124.7	11.2	11.7		11.2	11.2		9.7	9.3		7.3	7.1	7.1
131.2	10.4	10.4		9.3	10.4		9.0	8.8		6.8	6.6	
137.8	8.8	9.5		8.2	8.4		8.2	8.4		6.6	6.2	
144.4	7.3	7.9		7.5	7.5		6.6	7.5		6.2	6.0	
150.9	6.2	6.4		6.4	6.8		5.7	6.0		5.3	5.5	
157.5	4.6	5.5		5.1	5.7		5.1	5.3		4.9	4.9	
164.0	4.0	4.0		4.0	4.4		4.4	4.6		3.7	4.2	
180.4	2.6							2.6				



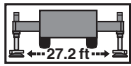
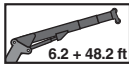
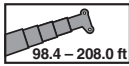
156,528 lbs

ASME

lbs x 1,000

ft	98.4 ft + 6.2 ft + 48.2 ft			125.7 ft + 6.2 ft + 48.2 ft			139.4 ft + 6.2 ft + 48.2 ft			153.2 ft + 6.2 ft + 48.2 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
23.0	30.6											
26.2	30.6			30.6								
29.5	30.6			30.6			30.6			22.5		
32.8	30.6			30.6			30.6			26.5		
36.1	30.6			30.6			30.6			26.5		
39.4	29.5	20.5		30.6			30.4			26.5		
45.9	26.5	19.4		30.0	20.1		28.9			26.5		
52.5	23.8	18.3		27.1	19.0		27.3	19.4		26.5	19.6	
59.1	21.6	17.2	14.3	24.7	18.1	14.6	26.2	18.5		25.4	18.7	
65.6	19.6	16.5	14.1	22.7	17.4	14.3	24.0	17.6	14.3	24.7	18.1	14.1
72.2	18.1	15.7	13.9	20.9	16.5	14.1	22.3	17.0	14.1	23.6	17.4	14.3
78.7	16.8	15.0	13.9	19.4	15.9	13.9	20.5	16.3	14.1	21.8	16.8	14.1
85.3	15.4	14.6	13.9	17.9	15.4	13.9	19.2	15.9	13.9	20.3	16.1	13.9
91.9	14.3	13.9		16.8	14.8	13.9	17.9	15.2	13.9	19.0	15.7	13.9
98.4	13.4	13.4		15.7	14.3	13.7	16.8	14.8	13.7	17.9	15.2	13.9
105.0	12.6	13.2		14.8	13.9	13.7	15.9	14.3	13.7	16.8	14.8	13.7
111.5	11.9	12.8		13.9	13.4		15.0	13.9	13.7	15.9	14.3	13.7
118.1	11.2	12.6		13.2	13.2		14.1	13.7		15.0	13.9	13.7
124.7	10.6	12.6		12.6	13.0		13.4	13.2		14.3	13.4	
131.2	10.1			11.9	12.8		12.8	13.0		13.7	13.2	
137.8	9.7			11.2	12.6		12.1	12.8		12.8	13.0	
144.4				10.8	12.3		11.5	12.1		11.0	12.3	
150.9				10.4	11.2		10.6	10.8		9.3	10.6	
157.5				9.3			9.3	9.9		8.4	9.0	
164.0				7.9			7.9	8.4		7.7	7.9	
180.4							5.1			5.3	3.5	
196.9										2.4		

ft	167.0 ft + 6.2 ft + 48.2 ft			180.4 ft + 6.2 ft + 48.2 ft			194.2 ft + 6.2 ft + 48.2 ft			208.0 ft + 6.2 ft + 48.2 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
32.8	19.4											
36.1	22.3			15.2								
39.4	22.3			15.2			12.6					
45.9	22.3			15.2			14.3			11.9		
52.5	22.3			15.2			14.3			11.9		
59.1	22.3	18.7		15.2	15.2		14.3			11.9		
65.6	22.0	18.1		15.2	15.2		13.9	12.1		11.5	10.1	
72.2	20.7	17.4	14.3	15.2	15.2		13.0	11.5		10.6	9.5	
78.7	20.1	17.0	14.1	15.2	15.2	14.1	12.6	11.0	10.4	9.9	9.0	
85.3	18.7	16.3	14.1	15.2	14.8	13.9	11.9	10.6	9.9	9.5	8.6	8.2
91.9	17.4	15.9	13.9	14.8	13.9	13.7	11.2	9.9	9.5	8.8	7.9	7.7
98.4	16.3	15.4	13.9	13.9	13.2	13.0	10.6	9.5	9.3	8.4	7.7	7.3
105.0	15.4	15.0	13.4	13.2	12.6	12.3	9.9	9.0	8.8	7.9	7.3	7.1
111.5	14.3	14.1	13.4	12.3	11.9	11.9	9.5	8.6	8.4	7.5	6.8	6.6
118.1	13.4	13.4	13.4	11.5	11.2	11.2	9.0	8.4	8.2	7.1	6.4	6.2
124.7	12.8	12.6	12.8	10.8	10.8	10.8	8.6	7.9	7.7	6.6	6.2	6.0
131.2	11.9	11.9		10.1	10.1	10.1	8.2	7.5	7.5	6.2	5.7	5.7
137.8	11.2	11.2		9.5	9.5		7.7	7.3	7.3	6.0	5.5	5.3
144.4	10.6	10.6		8.8	8.8		7.3	6.8		5.5	5.3	5.1
150.9	9.3	9.9		7.7	8.4		7.1	6.6		5.3	5.1	4.9
157.5	8.4	8.8		7.3	7.9		6.2	6.2		4.9	4.6	
164.0	7.1	7.9		6.6	6.8		5.7	6.0		4.6	4.4	
180.4	5.1	5.3		4.6	5.5		4.6	4.9		3.5	3.5	
196.9	3.1			2.6	2.9		2.9	3.5		3.1	2.9	



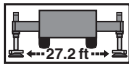
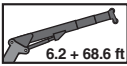
131,175 lbs

ASME

lbs x 1,000

ft	98.4 ft + 6.2 ft + 48.2 ft			125.7 ft + 6.2 ft + 48.2 ft			139.4 ft + 6.2 ft + 48.2 ft			153.2 ft + 6.2 ft + 48.2 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
23.0	30.6											
26.2	30.6			30.6								
29.5	30.6			30.6			30.6			22.5		
32.8	30.6			30.6			30.6			26.5		
36.1	30.6			30.6			30.6			26.5		
39.4	29.5	20.5		30.6			30.4			26.5		
45.9	26.5	19.4		30.0	20.1		28.9			26.5		
52.5	23.8	18.3		27.1	19.0		27.3	19.4		26.5	19.6	
59.1	21.6	17.2	14.3	24.7	18.1	14.6	26.2	18.5		25.4	18.7	
65.6	19.6	16.5	14.1	22.7	17.4	14.3	24.0	17.6	14.3	24.7	18.1	14.1
72.2	18.1	15.7	13.9	20.9	16.5	14.1	22.3	17.0	14.1	23.6	17.4	14.3
78.7	16.8	15.0	13.9	19.4	15.9	13.9	20.5	16.3	14.1	21.8	16.8	14.1
85.3	15.4	14.6	13.9	17.9	15.4	13.9	19.2	15.9	13.9	20.3	16.1	13.9
91.9	14.3	13.9		16.8	14.8	13.9	17.9	15.2	13.9	19.0	15.7	13.9
98.4	13.4	13.4		15.7	14.3	13.7	16.8	14.8	13.7	17.9	15.2	13.9
105.0	12.6	13.2		14.8	13.9	13.7	15.9	14.3	13.7	16.8	14.8	13.7
111.5	11.9	12.8		13.9	13.4		15.0	13.9	13.7	15.9	14.3	13.7
118.1	11.2	12.6		13.2	13.2		14.1	13.7		15.0	13.9	13.7
124.7	10.6	12.6		12.6	13.0		13.4	13.2		13.0	13.4	
131.2	10.1			11.9	12.8		12.1	13.0		12.1	12.6	
137.8	9.7			11.2	11.7		10.4	11.7		10.6	11.2	
144.4				9.9	10.8		9.3	9.9		9.0	10.4	
150.9				8.6	9.0		8.4	8.8		7.7	8.8	
157.5				7.9			7.5	7.9		6.6	7.3	
164.0				7.3			6.2	6.8		6.0	6.4	
180.4							4.6			4.0	3.5	
196.9										2.4		

ft	167.0 ft + 6.2 ft + 48.2 ft			180.4 ft + 6.2 ft + 48.2 ft			194.2 ft + 6.2 ft + 48.2 ft			208.0 ft + 6.2 ft + 48.2 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
32.8	19.4											
36.1	22.3			15.2								
39.4	22.3			15.2			12.6					
45.9	22.3			15.2			14.3			11.9		
52.5	22.3			15.2			14.3			11.9		
59.1	22.3	18.7		15.2	15.2		14.3			11.9		
65.6	22.0	18.1		15.2	15.2		13.9	12.1		11.5	10.1	
72.2	20.7	17.4	14.3	15.2	15.2		13.0	11.5		10.6	9.5	
78.7	20.1	17.0	14.1	15.2	15.2	14.1	12.6	11.0	10.4	9.9	9.0	
85.3	18.7	16.3	14.1	15.2	14.8	13.9	11.9	10.6	9.9	9.5	8.6	8.2
91.9	17.4	15.9	13.9	14.8	13.9	13.7	11.2	9.9	9.5	8.8	7.9	7.7
98.4	16.3	15.4	13.9	13.9	13.2	13.0	10.6	9.5	9.3	8.4	7.7	7.3
105.0	15.4	15.0	13.4	13.2	12.6	12.3	9.9	9.0	8.8	7.9	7.3	7.1
111.5	14.3	14.1	13.4	12.3	11.9	11.9	9.5	8.6	8.4	7.5	6.8	6.6
118.1	13.4	13.4	13.4	11.5	11.2	11.2	9.0	8.4	8.2	7.1	6.4	6.2
124.7	12.8	12.6	12.8	10.8	10.8	10.8	8.6	7.9	7.7	6.6	6.2	6.0
131.2	11.2	11.9		10.1	10.1	10.1	8.2	7.5	7.5	6.2	5.7	5.7
137.8	9.5	11.2		9.5	9.5		7.7	7.3	7.3	6.0	5.5	5.3
144.4	8.8	9.3		8.6	8.8		7.3	6.8		5.5	5.3	5.1
150.9	7.9	8.2		7.1	8.4		7.1	6.6		5.3	5.1	4.9
157.5	6.6	7.5		6.4	7.1		6.2	6.2		4.9	4.6	
164.0	5.5	6.4		6.0	6.2		5.1	6.0		4.6	4.4	
180.4	3.3	4.2		3.5	4.4		3.7	4.0			3.5	
196.9	2.2											



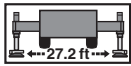
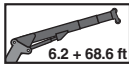
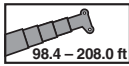
156,528 lbs

ASME

lbs x 1,000

ft	98.4 ft + 6.2 ft + 68.6 ft			125.7 ft + 6.2 ft + 68.6 ft			139.4 ft + 6.2 ft + 68.6 ft			153.2 ft + 6.2 ft + 68.6 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
26.2	12.3											
29.5	12.3			12.3								
32.8	12.3			12.3			12.3					
36.1	12.3			12.3			12.3			12.3		
39.4	12.3			12.3			12.3			12.3		
45.9	12.3			12.3			12.3			12.3		
52.5	12.3			12.3			12.3			12.3		
59.1	12.3	12.3		12.3			12.3			12.3		
65.6	12.3	12.3		12.3	12.3		12.3	12.3		12.3		
72.2	12.3	11.7		12.3	12.1		12.3	12.1		12.3	11.9	
78.7	12.3	11.0	8.8	12.3	11.7		12.3	11.7		12.3	11.5	
85.3	11.9	10.6	8.6	12.3	11.2	8.6	12.3	11.2	8.6	12.3	11.2	
91.9	11.0	10.1	8.6	12.3	10.8	8.4	12.3	10.8	8.6	12.3	10.8	8.6
98.4	10.4	9.7	8.4	11.9	10.4	8.4	12.3	10.6	8.4	12.3	10.4	8.4
105.0	9.5	9.3	8.4	11.2	9.9	8.4	11.9	10.1	8.4	12.3	10.1	8.4
111.5	9.0	9.0	8.2	10.6	9.5	8.2	11.2	9.9	8.2	11.9	9.9	8.2
118.1	8.4	8.6		9.9	9.3	8.2	10.6	9.5	8.2	11.2	9.7	8.2
124.7	7.9	8.4		9.3	9.0	8.2	9.9	9.3	8.2	10.6	9.5	8.2
131.2	7.5	8.2		8.8	8.6		9.5	9.0	8.2	10.1	9.3	8.2
137.8	7.1	7.9		8.4	8.4		8.8	8.8		9.5	9.0	8.2
144.4	6.6	7.9		7.9	8.2		8.4	8.6		9.0	8.8	
150.9	6.2	7.9		7.5	8.2		7.9	8.4		8.6	8.6	
157.5	6.0			7.1	7.9		7.7	8.2		8.2	8.4	
164.0	5.7			6.8	7.9		7.3	7.9		7.9	8.2	
180.4				6.0			6.6	7.7		6.6	7.1	
196.9							4.9			5.1	5.5	

ft	167.0 ft + 6.2 ft + 68.6 ft			180.4 ft + 6.2 ft + 68.6 ft			194.2 ft + 6.2 ft + 68.6 ft			208.0 ft + 6.2 ft + 68.6 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
39.4	12.3											
45.9	12.3			12.3			9.3					
52.5	12.3			12.3			11.0			9.3		
59.1	12.3			12.3			11.0			9.3		
65.6	12.3			12.3			11.0			9.3		
72.2	12.3	11.7		12.3			11.0			9.3		
78.7	12.3	11.2		12.3	11.0		10.6	9.3		8.8		
85.3	12.3	11.0		12.3	10.6		10.1	8.8		8.4	7.3	
91.9	12.3	10.6	8.6	12.3	10.4		9.5	8.4		7.9	6.8	
98.4	12.3	10.4	8.4	12.1	10.1	8.6	9.3	7.9		7.3	6.6	
105.0	12.3	9.9	8.4	11.7	9.7	8.4	8.8	7.7	7.3	7.1	6.2	6.0
111.5	12.3	9.7	8.4	11.5	9.5	8.4	8.4	7.3	7.1	6.6	6.0	5.7
118.1	11.9	9.5	8.2	10.8	9.3	8.2	7.9	7.1	6.8	6.2	5.7	5.3
124.7	11.2	9.3	8.2	10.4	9.0	8.2	7.5	6.6	6.6	6.0	5.3	5.1
131.2	10.6	9.0	8.2	9.7	8.8	8.2	7.3	6.4	6.4	5.5	5.1	4.9
137.8	10.1	8.8	8.2	9.3	8.6	8.2	6.8	6.2	6.0	5.3	4.9	4.6
144.4	9.5	8.6	8.2	8.6	8.4	8.2	6.4	6.0	5.7	5.1	4.4	4.4
150.9	9.0	8.6	8.2	8.2	8.2	8.2	6.2	5.7	5.5	4.9	4.2	4.2
157.5	8.6	8.2		7.7	7.7	7.9	6.0	5.5	5.5	4.4	4.0	4.0
164.0	7.9	8.2		7.3	7.3		5.5	5.3	5.3	4.2	4.0	3.7
180.4	6.2	7.1		5.7	6.4		4.6	4.6		3.5	3.5	
196.9	4.4	4.9		4.2	5.1		4.0	4.0		2.9	2.9	



131,175 lbs

ASME

lbs x 1,000

ft	98.4 ft + 6.2 ft + 68.6 ft			125.7 ft + 6.2 ft + 68.6 ft			139.4 ft + 6.2 ft + 68.6 ft			153.2 ft + 6.2 ft + 68.6 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
26.2	12.3											
29.5	12.3			12.3								
32.8	12.3			12.3			12.3					
36.1	12.3			12.3			12.3			12.3		
39.4	12.3			12.3			12.3			12.3		
45.9	12.3			12.3			12.3			12.3		
52.5	12.3			12.3			12.3			12.3		
59.1	12.3	12.3		12.3			12.3			12.3		
65.6	12.3	12.3		12.3	12.3		12.3	12.3		12.3		
72.2	12.3	11.7		12.3	12.1		12.3	12.1		12.3	11.9	
78.7	12.3	11.0	8.8	12.3	11.7		12.3	11.7		12.3	11.5	
85.3	11.9	10.6	8.6	12.3	11.2	8.6	12.3	11.2	8.6	12.3	11.2	
91.9	11.0	10.1	8.6	12.3	10.8	8.4	12.3	10.8	8.6	12.3	10.8	8.6
98.4	10.4	9.7	8.4	11.9	10.4	8.4	12.3	10.6	8.4	12.3	10.4	8.4
105.0	9.5	9.3	8.4	11.2	9.9	8.4	11.9	10.1	8.4	12.3	10.1	8.4
111.5	9.0	9.0	8.2	10.6	9.5	8.2	11.2	9.9	8.2	11.9	9.9	8.2
118.1	8.4	8.6		9.9	9.3	8.2	10.6	9.5	8.2	11.2	9.7	8.2
124.7	7.9	8.4		9.3	9.0	8.2	9.9	9.3	8.2	10.6	9.5	8.2
131.2	7.5	8.2		8.8	8.6		9.5	9.0	8.2	10.1	9.3	8.2
137.8	7.1	7.9		8.4	8.4		8.8	8.8		9.5	9.0	8.2
144.4	6.6	7.9		7.9	8.2		8.4	8.6		9.0	8.8	
150.9	6.2	7.9		7.5	8.2		7.9	8.4		8.6	8.6	
157.5	6.0			7.1	7.9		7.7	8.2		8.2	8.4	
164.0	5.7			6.8	7.9		7.3	7.9		7.3	8.2	
180.4				6.0			5.7	6.4		5.1	5.7	
196.9							4.0			3.3	4.2	

ft	167.0 ft + 6.2 ft + 68.6 ft			180.4 ft + 6.2 ft + 68.6 ft			194.2 ft + 6.2 ft + 68.6 ft			208.0 ft + 6.2 ft + 68.6 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
39.4	12.3											
45.9	12.3			12.3			9.3					
52.5	12.3			12.3			11.0			9.3		
59.1	12.3			12.3			11.0			9.3		
65.6	12.3			12.3			11.0			9.3		
72.2	12.3	11.7		12.3			11.0			9.3		
78.7	12.3	11.2		12.3	11.0		10.6	9.3		8.8		
85.3	12.3	11.0		12.3	10.6		10.1	8.8		8.4	7.3	
91.9	12.3	10.6	8.6	12.3	10.4		9.5	8.4		7.9	6.8	
98.4	12.3	10.4	8.4	12.1	10.1	8.6	9.3	7.9		7.3	6.6	
105.0	12.3	9.9	8.4	11.7	9.7	8.4	8.8	7.7	7.3	7.1	6.2	6.0
111.5	12.3	9.7	8.4	11.5	9.5	8.4	8.4	7.3	7.1	6.6	6.0	5.7
118.1	11.9	9.5	8.2	10.8	9.3	8.2	7.9	7.1	6.8	6.2	5.7	5.3
124.7	11.2	9.3	8.2	10.4	9.0	8.2	7.5	6.6	6.6	6.0	5.3	5.1
131.2	10.6	9.0	8.2	9.7	8.8	8.2	7.3	6.4	6.4	5.5	5.1	4.9
137.8	10.1	8.8	8.2	9.3	8.6	8.2	6.8	6.2	6.0	5.3	4.9	4.6
144.4	9.5	8.6	8.2	8.6	8.4	8.2	6.4	6.0	5.7	5.1	4.4	4.4
150.9	8.6	8.6	8.2	8.2	8.2	8.2	6.2	5.7	5.5	4.9	4.2	4.2
157.5	7.7	8.2		7.5	7.7	7.9	6.0	5.5	5.5	4.4	4.0	4.0
164.0	7.1	7.9		6.4	7.3		5.5	5.3	5.3	4.2	4.0	3.7
180.4	4.9	6.0		4.9	5.3		4.2	4.6		3.5	3.5	
196.9	2.9	3.7		3.1	4.0		3.3	3.1				

EQUIPMENT

ÉQUIPEMENT
EQUIPAMIENTO



Equipment

Carrier

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

Outriggers: 4-point double telescopic hydraulic outriggers incl. asymmetric outrigger base and automatic length detection. Controls on both sides of carrier and in superstructure cab. Outrigger base 27.2 ft/ 8.3 m, 23.0 ft/ 7.0 m, 18.4 ft/ 5.6 m, 15.1 ft/ 4.6 m x 29.6 ft/ 9.01 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: ZF-AS-Tronic 12 AS 2531 mechanical transmission with electro-pneumatically operated dry-type clutch and automatic gear shifting with 12 forward gears and 2 reverse gears.

Transfer case: Two stage.

Drive: 10 x 8

Axles:

1st axle: steered, driven, with differential lock, transverse.

2nd axle: steered, driven, shiftable, 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: Service disk brakes: dual circuit compressed air system with electronic wear indicator. Parking brake: spring loaded type acting on 2nd, 4th and 5th axles. Auxiliary brakes: Intarder and engine 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 front two 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, outrigger area lighting, acoustic back-up alarm, lighting system with Bi halogen headlights; LED daytime running light; LED foglights, 4 rotating beacon warning lights, CAN bus system.

Optional equipment: (at extra charge)

Towing attachment, engine independent additional heater with engine pre-heat, drive 10 x 6, ABS System, 525/80 R 25 (20.5 R 25) tyres, spare wheel and tyre, special painting and lettering.

Further optional equipment available upon request.

Superstructure

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

Superstructure engine: Mercedes-Benz 4 cylinder model OM 934 LA (Euromot IV / EPA Tier 4f), water cooled diesel engine. The engine speed can be varied via a foot pedal. Rated at 197 HP (145 kW) at 1800 min⁻¹. Torque 590 ft-lbs/ 800 Nm (82 kpm) at 1200 - 1600 min⁻¹. Engine rating according to ECE R 120. Fuel tank 66 gal/ 250 l. AdBlue tank 2.6 gal/ 10 l.

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

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

Telescopic boom: 7 sections, made of high tensile, fine-grained steel, consisting of 1 base section and 6 telescoping sections extended by means of a single telescopic cylinder. All telescope sections extendable hydraulically under partial load. 43.3 ft/ 13.2 m to 223.1 ft/ 68.0 m long. Boom head with 7 sheaves. Jib bracket.

Boom elevation: 1 double acting hydraulic cylinder with integral brake holding valve.

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

Slewing system: Axial piston constant motor, three-stage planetary gear with service and parking brake. Open hydraulic circuit with wearless, dynamic free slewing function. Speed infinitely variable from 0 to 1.2 rpm.

Counterweight: Total 156,528 lbs/ 71 t divisible. Installation and removal controlled from superstructure cab.

Superstructure cab: Spacious crane cab in steel / plastic design with laterally extended tread plate, safety glass windows with tinted panes, tilting working place with adjustable, mechanically cushioned driver's seat with heating, engine-fed and autonomous water heating (with engine pre-heating), air conditioning, radio/CD player with MP3/USB/SD Card port, control and operating elements for crane operation, outrigger actuation and carrier engine features.

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

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)

Jibs from 3.6 ft/ 1.1 m + 15.4 ft/ 4.7 m to 3.6 ft/ 1.1 m + 114.5 ft/ 34.9 m, tiltable at choice 0°, 20° and 40° or hydraulically 0° to 40°, HTLJ jib 6.2 ft/ 1.85 m + 27.9 ft/ 8.5 m to 6.2 ft/ 1.85 m + 68.6 ft/ 20.9 m (hydraulically tiltable and telescopable 0° to 60°), hook blocks from 35.3 US t/ 32 t to 275.6 US t/ 250 t, 2nd hoisting winch (as main winch), supported forces display, special paint and lettering.

Further optional equipment available on request.

Châssis

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

Calage: Dispositif de calage horizontal et vertical double en 4 points, entièrement déployable hydrauliquement, y compris distance entre appuis asymétrique, détection de longueur automatique et commande des mouvements sur les deux côtés du porteur et depuis la cabine de la superstructure. Calage 27.2 ft/ 8.3 m, 23.0 ft/ 7.0 m, 18.4 ft/ 5.6 m, 15.1 ft/ 4.6 m x 29.6 ft/ 9.01 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: Boîte mécanique ZF-AS-Tronic, modèle 12 AS 2531 avec embrayage à sec électro-pneumatique et commande des vitesses automatique, 12 vitesses AV et 2 vitesses AR.

Boîte de transfert: à 2 gammes.

Entraînement: 10 x 8

Essieux:

1^{er} essieu: directeur, entraîné, blocage de différentiel transversal.

2^{ème} essieu: directeur, entraîné, entraîné sur commande, blocage de différentiel transversal.

3^{ème} essieu: directeur, non entraîné.

4^{ème} essieu: directeur, entraîné, blocage de différentiel longitudinal et transversal.

5^{ème} essieu: directeur, entraîné, blocage de différentiel transversal.

Suspension: Hydro-pneumatique, avec réglage de niveau.

Freins: Système de freinage à disque à air comprimé, à deux circuits, avec indicateur d'usure électronique. Frein de stationnement, agit sur les essieux 2, 4 et 5 comme frein à 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 1^{er} et 2^{ème} essieu, direction à assistance hydraulique du 3^{ème} et 4^{ème} essieu jusqu'à une vitesse de 15.5 mph/ 25 km/h, et du 5^{ème} 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 multifonctions, 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, 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, système du bus CAN.

Équipement supplémentaire: (avec supplément de prix) Attache-remorque, chauffage auxiliaire indépendant du moteur avec préchauffage du moteur, entraînement 10 x 6, système ABS, 525/80 R 25 (20.5 R 25), roue de secours, peinture spéciale et inscription.

Autres équipements supplémentaires sur demande.

Superstructure

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

Moteur: Mercedes Benz diesel 4 cylindres, modèle OM 934 LA (Euromot IV / EPA Tier 4f), refroidi par eau, réglage en continu du nombre de tours par pédale, de 197 CV (145 kW) à 1800 min⁻¹. Couple: 590 ft-lbs/ 800 Nm (82 kpm) à 1200 - 1600 min⁻¹. Puissance selon ECE R 120. Capacité du réservoir 66 gal/ 250 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) avec circuit de la somme et 1 pompe à piston axial, refroidisseur d'huile.

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

Flèche télescopique: Flèche télescopique à 7 éléments en acier à texture fine et très résistant, se composant de 1 flèche de base et 6 éléments télescopiques, 1 vérin télescopique, hydrauliquement télescopable avec charge partielle. Longueur de 43.3 ft/ 13,2 m à 223.1 ft/ 68,0 m. Tête de flèche avec 7 poulies. Console de rallonge de flèche.

Mécanisme de relevage: 1 vérin différentiel muni de clapet ralentisseur d'arrêt de descente.

Mécanisme de levage: Moteur à pistons axiaux, tambour de levage avec boîte planétaire incorporée, frein d'arrêt à disques multiples 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 à trois étages avec frein de service et frein d'arrêt. Circuit hydraulique ouvert avec déconnexion du groupe de rotation dynamique sans usure. Vitesse de rotation 0 à 1,2 min⁻¹ en continu.

Contrepoids: Poids total 156,528 lbs/ 71 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 CC, 2 batteries. 2 phares de travail sur la flèche de base, 2 intégrés dans la cabine de grue.

Dispositifs de sécurité: 'Lift Adjuster', Contrôleur de l'état de charge (CEC) électronique, avec affichage couleur à cristaux liquides, anémomètre, limitation de rotation et limitation de la zone de travail avec fonction « Slow-Stop », interrupteur de fin de course de levage et de treuil, soupapes de sécurité comme protection contre ruptures des conduites 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 de 3.6 ft/ 1,1 m + 15.4 ft/ 4.7 m à 3,6 ft/ 1.1 m + 114.5 ft/ 34.9 m, au choix inclinables 0°, 20° et 40° ou hydrauliquement de 0° à 40°, rallonge de flèche HTLJ 6.2 ft/ 1,85 m + 27.9 ft/ 8,5 m à 6.2 ft/ 1,85 m + 68.6 ft/ 20,9 m (inclinable et télescopable hydrauliquement de 0° à 60°), moulles inférieures de 35.3 US t/ 32 t à 275.6 US t/ 250 t, 2^{ème} treuil de levage (identique au treuil principal), affichage des forces d'appui, peinture spéciale et inscription.

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 27.2 ft/ 8.3 m, 23.0 ft/ 7.0 m, 18.4 ft/ 5.6 m, 15.1 ft/ 4.6 m x 29.6 ft/ 9.01 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 tipo ZF-AS Tronic modelo 12 AS 2531 con accionamiento electro-neumático, embrague en seco y cambio automático 12 marchas delanteras y 2 marchas traseras.

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

Tracción: 10 x 8

Ejes:

1° eje: de dirección, accionado, con bloqueo diferencial transversal.

2° eje: de dirección, accionado, conectar según necesidad, con bloqueo diferencial transversal.

3° eje: de dirección, no accionado.

4° eje: de dirección, accionado, con bloqueo diferencial longitudinal y transversal.

5° eje: de dirección, accionado, con bloqueo diferencial transversal.

Suspensión: Suspensión hidroneumática con regulación de nivel.

Sistemas de frenos: Sistema de frenos de disco neumático de doble circuito con indicador electrónico de desgaste. Freno de estacionamiento como freno de acumuladores a resorte accionando en los ejes 2, 4 y 5. Bloqueo de la corona de rodaduras 360°. Intarder y freno de motor como freno continuo.

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

Dirección: Hidráulica ZF Servocom de doble circuito. Bomba hidráulica de emergencia. Dirección mecánica al 1° y 2° eje y direccional al 3° y 4° eje hasta una velocidad de 15.5 mph/ 25 km/h y al 5° eje hasta una velocidad de conducción de 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, iluminación de la zona de apoyo, alarma acústica para indicar la marcha atrás, sistema de luces con faros bialógenos, luz LED de marcha diurna, faro LED antiniebla, 4 luces de aviso omnidireccionales, sistema de bus CAN.

Equipo adicional: (con suplemento de precio)

Attache-remorque, chauffage auxiliaire indépendant du moteur avec préchauffage du moteur, entraînement 10 x 6, système ABS, pneus 525/80 R 25 (20.5 R 25), roue de secours, peinture spéciale et inscription. Autres équipements supplémentaires sur demande.

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 197 CV (145 kW) a 1800 min⁻¹. Par 590 ft-lbs/ 800 Nm (82 kpm) a 1200 - 1600 min⁻¹. Potencia del motor según ECE R 120. Depósito de combustible de 66 gal/ 250 l. Depósito AdBlue 2.6 gal/ 10 l.

Sistema hidráulico: Dieselhidráulico con sistema hidráulico de 3 circuitos, 1 bomba doble de pistones axiales de caudal variable (regulable electro-hidráulicamente) con regulación a caudal total y 1 bomba de pistones axiales, enfriador de aceite.

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

Pluma telescópica: 7 secciones, un tramo base y 6 telescópicos de acero de alta resistencia soldado, 1 cilindro hidráulico, los tramos se pueden telescopar hidráulicamente bajo carga parcial. Longitud de 43.3 ft/ 13,2 m a 223.1 ft/ 68,0 m. Cabeza de pluma con 7 poleas. Depósito de alargamiento de pluma.

Elevación de pluma: Mediante un cilindro hidráulico de doble efecto con válvula de retención integrada.

Cabrestante principal: Motor hidráulico de pistones axiales. Tambor del cabrestante con reducción planetaria y frenos de disco múltiples, cargado por resorte, con sistema libre de elevación, indicador de giros del cabrestante. Cable de elevación con sistema fácil de guiado y 'Super-Stop'.

Mecanismo de giro: Motor de cilindrada constante de émbolos axiales, engranaje planetario de tres etapas con freno de servicio y estacionamiento. Circuito hidráulico abierto con desbloqueo del mecanismo giratorio dinámico sin desgaste, velocidad de giro gradual de 0 a 1,2 min⁻¹.

Contrapeso: Peso total 156,528 lbs/ 71 t. divisible. Montaje y desmontaje se accionan desde la cabina de la grúa.

Cabina de la grúa: Amplia cabina de grúa construida en chapa de acero y plástico con chapa pisadera lateral extensible, acristalamiento de seguridad coloreado, puesto de trabajo rebatible con asiento de conductor regulable amortiguado mecánicamente, con calefacción, calefacción por agua dependiente e independiente del motor (con precalentamiento del motor), climatizador, radio/reproductor CD con toma para MP3/USB/tarjeta SD, elementos de control y mando para el servicio de la grúa, accionamiento de estabilizadores y funciones del motor del chasis.

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

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, interruptor de fin de carrera del cabrestante, indicador de giros del cabrestante. Válvulas de seguridad como protección contra roturas de tubos y de tubos flexibles. 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 de 3.6 ft/ 1,1 m + 15.4 ft/ 4,7 m a 3.6 ft/ 1,1 m + 114.5 ft/ 34,9 m, regulables opcionalmente entre 0°, 20° y 40° o hidráulicamente de 0° a 40°, alargamiento de pluma HTLJ de 6.2 ft/ 1,85 m + 27.9 ft/ 8,5 m a 6.2 ft/ 1,85 m + 68.6 ft/ 20,9 m (telescopiable y regulable hidráulicamente de 0° a 60°), pastecas de carga de 35.3 US t/ 32 t a 275.6 US t/ 250 t, 2° cabrestante (similar al cabrestante principal), indicador de la fuerza de apoyo, pintura especial y rotulación. Otros equipamientos sobre pedido.

ADDITIONAL INFORMATION

INFORMATIONS SUPPLÉMENTAIRES
INFORMACIÓN ADICIONAL



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

1. The rated lifting capacities conform to ASME B30.5-1.1. Capacities shown are for reference only. Please refer to the original lifting capacity charts for operations.
2. 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.

1. Les charges de levage nominales sont en conformité avec ASME B30.5-1.1. Les charges de levage indiquées sont uniquement des valeurs indicatives. Pour les travaux réels, voir les tableaux de charges originaux.
2. En fonction de la longueur de la flèche, des vitesses du vent jusqu'à 49 fps/ 15 m/s maxi. sont admissibles avec les tableaux des charges. A cause des séquences d'extension différentes des télescopes individuels, les longueurs de flèche peuvent varier légèrement par rapport aux valeurs indiquées dans les tableaux de charge.
3. Les forces de levage sont indiquées en 1,000 lbs.
4. Le poids du crochet-moufle et de tous les accessoires d'élingage font partie de la charge et sont à déduire des charges indiquées.
5. Les forces de levage indiquées pour la flèche télescopique s'entendent rallonge de flèche déposée.
6. Comme portée, on entend la distance horizontale du centre de la couronne de rotation au centre de la charge librement suspendue et non oscillante.

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





















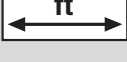












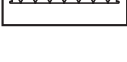
General remarks · Remarques générales · Notas adicionales

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 símbolos

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

WMAK
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ATF 220G-5

220 METRISCHE TONNEN TRAGLAST / 220 METRIC TON CAPACITY

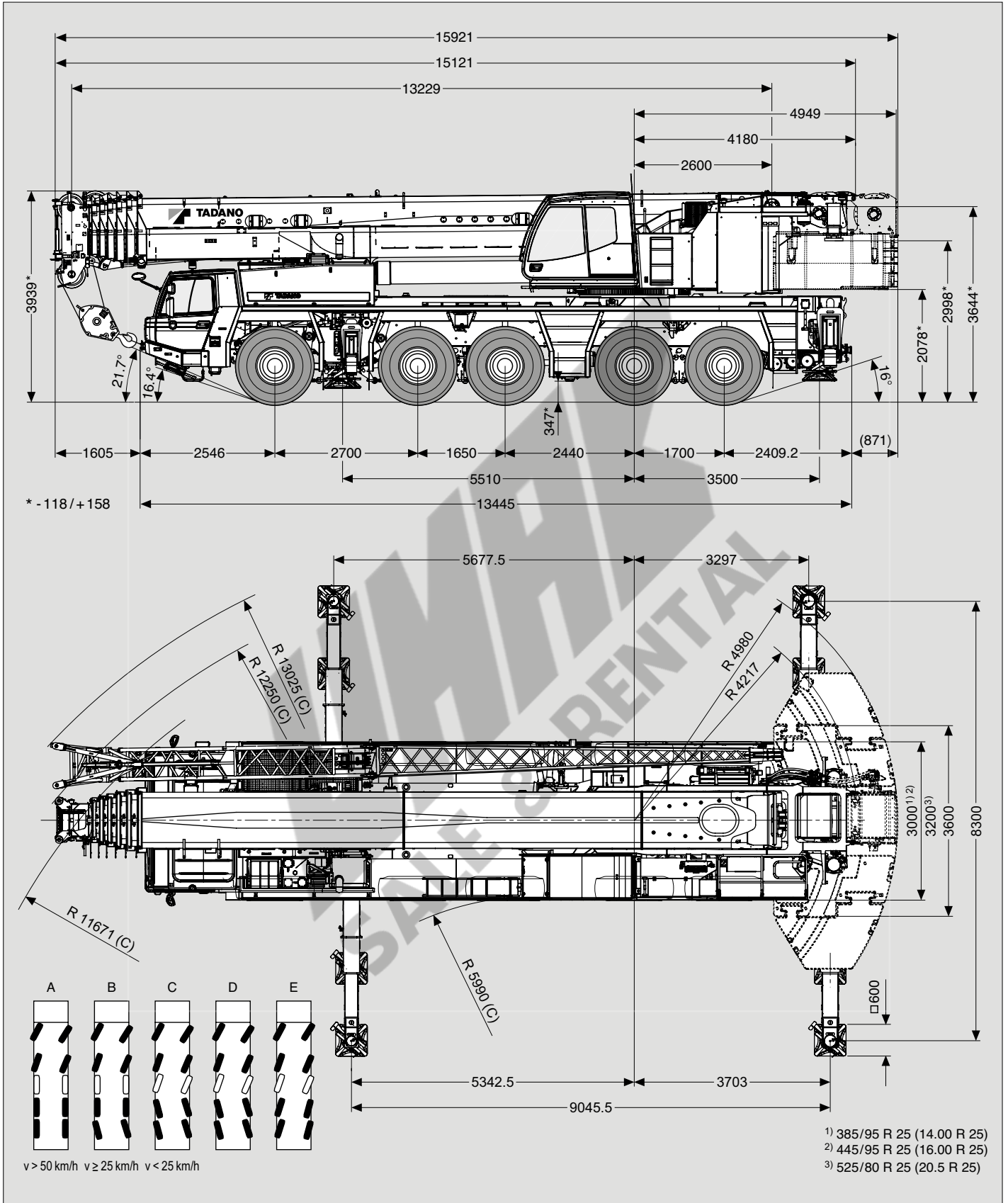
ALL
TERRAIN
CRANE



Maße (mm)
 Dimensions (mm)
 Dimensiones (mm)

385/95 R 25
 (14.00 R 25)

DIN/ISO/EN



Gewichte / Geschwindigkeiten
Weights / Working speeds
Poids / Vitesses
Pesos / Velocidades de trabajo

	Achse / Axle Essieu / Eje	1	2	3	4	5	Gesamtgewicht / Total weight Poids total / Peso total
	(t)	12	12	12	12	12	60

	Traglast / Lifting capacity / Force de levage / Capacidad de elevación	Rollen / Sheaves Pulies / Poleas	Stränge / Parts of line Brins / Ramales de cable	Gewicht / Weight Poid / Peso
	151.1 t (Typ / Type / Typo 160)*	9	16	1600 kg
	123.9 t (Typ / Type / Typo 125)*	7	13	1350 kg
	77.4 t (Typ / Type / Typo 80)*	5	8	1150 kg
	58.4 t (Typ / Type / Typo 63)*	3	6	850 kg
	58.4 t (Typ / Type / Typo 63)	3	6	850 kg
	29.4 t (Typ / Type / Typo 32)	1	3	450 kg
	10 t (Typ / Type / Typo 10)	–	1	300 kg

* Doppelhaken
* Rams horn
* Moufle avec crochet marin
* Gancho doble



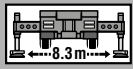
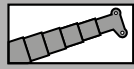
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	R1	R2	
385/95 R 25 (14.00 R 25)	2	3	3	4	5	6	7	8	10	13	15	19	22	27	32	39	3	3	69%*
km/h	5	6	8	9	11	14	16	20	24	29	35	43	52	62	74	85	6	7	52%
445/95 R 25 (16.00 R 25)	3	3	4	4	5	7	8	9	11	14	17	20	24	30	35	42	3	3	61%*
km/h	6	7	8	10	12	15	18	21	26	31	38	46	56	68	80	85	6	7	47%

* Mit Geländeübersetzung
* Off road range

* Avec mode tout terrain
* Con transmisión todo terreno

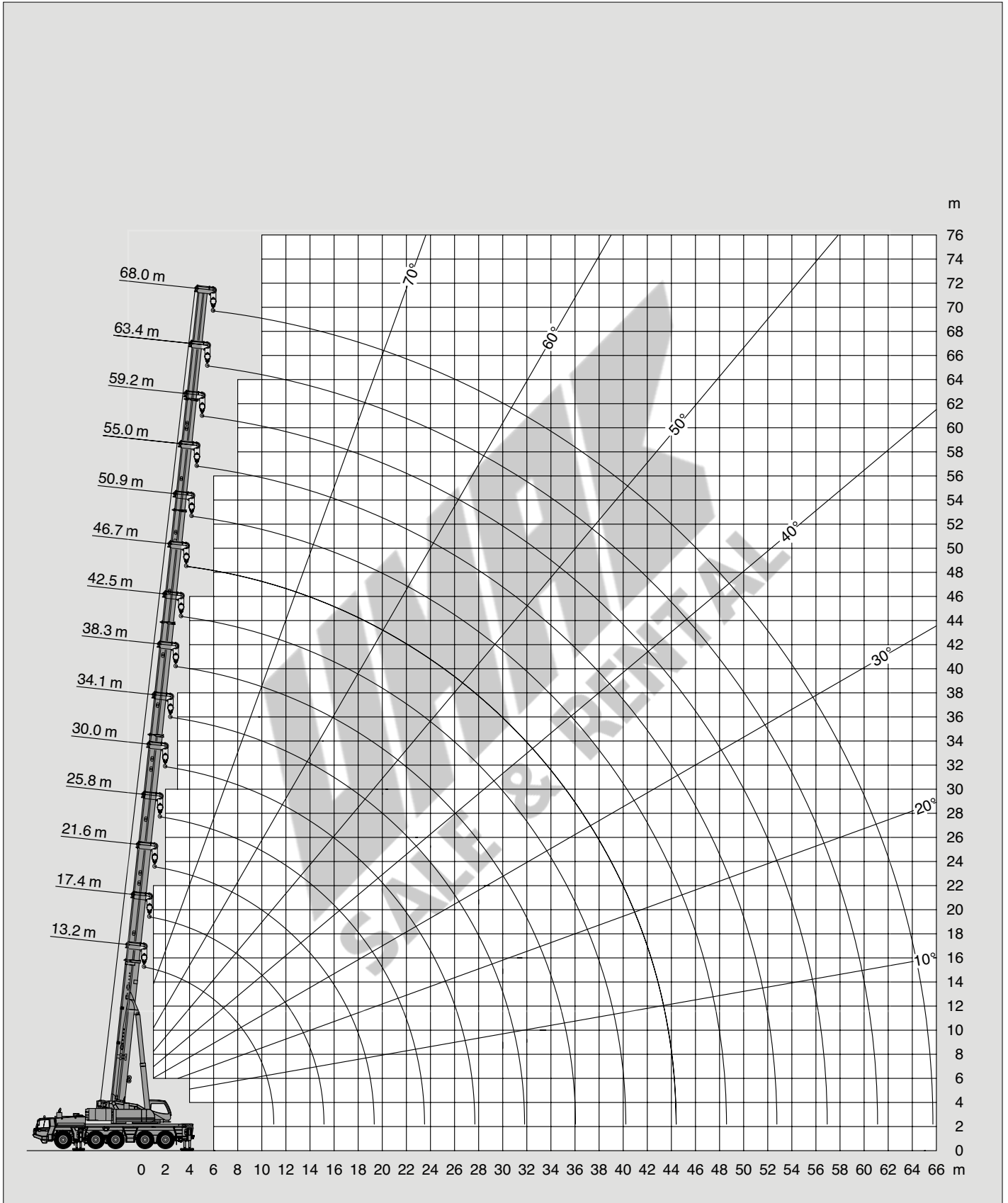
V+	Stufenlos Infinitely variable Progressivement variable Infinitamente variable	Seil Rope Câble Cable	Max. Seilzug Max. single line pull Effort maxi au brin simple Trio máximo por ramal
	0 - 128 m/min für einfachen Strang single line au brin simple ramal simple	21 mm / 320 m	98 kN
	0 - 128 m/min für einfachen Strang single line au brin simple ramal simple	21 mm / 320 m	98 kN
	0 - 1.2 min ⁻¹		
	-1.5° – + 84°	ca. 50 s approx. 50 s env. 50 s aproximadamente 50 s	
	13.2 m – 68.0 m	ca. 500 s approx. 500 s env. 500 s aproximadamente 500 s	

Hubhöhen
Lifting heights
Hauteurs de levage
Alturas de elevación



71t

DIN/ISO/EN



Tragfähigkeiten
Lifting capacities
Capacités de levage
Capacidades de elevación

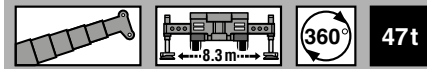


→ m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
2.5	220.0**														
3.0	180.0**	176.5**	140.0**	140.0**	114.0**										
3.5	169.5**	160.0**	140.0**	140.0**	114.0**	90.5									
4.0	160.0**	150.5**	140.0**	140.0**	108.5	90.5	70.0								
4.5	150.5**	138.0**	137.5**	136.5**	103.5	90.5	70.0	54.5							
5.0	135.5**	127.0**	126.5**	126.0**	103.0	87.0	70.0	54.5							
6.0	112.5	109.0	109.0	108.0	103.0	79.8	70.0	54.5	43.5						
7.0	96.3	95.5	95.1	94.2	94.9	77.5	66.2	54.5	43.5	34.5					
8.0	83.6	83.6	83.2	82.4	83.0	77.5	61.2	54.5	43.5	34.5	28.5				
9.0	73.5	73.5	73.1	72.2	72.8	73.6	58.0	52.0	43.4	34.5	28.5	23.0			
10.0	65.4	65.4	64.9	64.0	64.6	65.4	58.0	48.9	41.4	34.5	28.5	23.0	18.8		
11.0			58.2	57.4	57.9	58.6	56.7	45.7	39.4	34.1	28.5	23.0	18.8	15.0	
12.0			52.6	51.8	52.3	53.0	54.0	42.8	37.6	32.6	28.3	23.0	18.8	15.0	13.8
14.0			43.9	43.1	43.6	44.3	45.1	40.0	35.6	30.0	26.8	22.8	18.8	15.0	13.8
16.0				36.6	37.0	37.7	38.5	37.3	32.4	28.5	24.9	21.8	18.8	15.0	13.8
18.0				31.6	31.9	32.6	33.4	34.1	29.3	26.4	23.1	20.4	18.3	15.0	13.4
20.0					27.5	28.3	30.4	30.0	26.8	24.5	21.5	19.1	17.2	15.0	13.1
22.0					23.7	26.2	27.0	26.2	24.6	22.9	20.1	17.8	16.2	14.8	12.8
24.0						24.1	23.7	22.9	22.1	21.2	18.8	16.7	15.2	14.0	12.5
26.0						21.5	21.0	20.2	19.4	19.2	17.6	15.7	14.4	13.3	12.2
28.0							18.7	17.9	17.2	17.0	16.6	14.8	13.6	12.6	11.4
30.0								16.0	16.2	15.1	15.2	14.0	12.8	11.9	10.6
32.0								14.4	15.0	13.4	13.6	13.2	12.1	11.3	9.9
34.0								13.0	13.6	12.0	12.5	12.5	11.5	10.8	9.3
36.0									12.4	11.5	12.0	11.2	10.9	10.2	8.7
38.0									11.3	11.0	10.9	10.1	10.4	9.8	8.2
40.0										10.6	9.9	9.3	9.4	9.3	7.7
42.0										9.8	9.0	8.7	8.6	8.5	7.3
44.0										8.1	8.3	8.2	7.9	8.0	6.8
46.0											7.6	7.6	7.5	7.5	6.4
48.0											7.0	7.0	7.1	6.8	6.1
50.0												6.4	6.7	6.2	5.7
52.0												5.9	6.2	5.7	5.4
54.0													5.7	5.2	5.1
56.0													5.3	4.7	4.7
58.0														4.3	4.2
60.0														3.9	3.9
62.0															3.5
64.0															3.2

* Nach hinten / * Over rear / * A l'arrière / * Sobre la parte trasera

** Mit Zusatzhubausrüstung / ** With additional lifting equipment / ** Avec équipement supplémentaire / ** Con equipo adicional

Tragfähigkeiten
Lifting capacities
Capacités de levage
Capacidades de elevación


DIN/ISO/EN

→ m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
3.0	180.0**	174.5**	140.0**	140.0**	114.0**										
3.5	169.5**	157.0**	140.0**	140.0**	114.0**	90.5									
4.0	154.0**	142.5**	140.0**	140.0**	108.5	90.5									
4.5	137.0**	130.0**	130.0**	129.0**	103.5	90.5	70.0								
5.0	123.0**	119.5**	119.5**	118.5**	103.0	87.0	70.0	54.5							
6.0	102.0	102.0	102.0	101.0	101.5	79.8	70.0	54.5	43.5						
7.0	86.6	86.6	86.2	85.4	86.0	77.5	66.2	54.5	43.5	34.5					
8.0	74.7	74.7	74.3	73.5	74.1	74.9	61.2	54.5	43.5	34.5	28.5				
9.0	65.5	65.5	65.1	64.3	64.9	65.6	58.0	52.0	43.4	34.5	28.5	23.0			
10.0	58.2	58.2	57.7	56.9	57.5	58.2	58.0	48.9	41.4	34.5	28.5	23.0	18.8		
11.0			51.7	50.8	51.4	52.1	52.7	45.7	39.4	34.1	28.5	23.0	18.8	15.0	
12.0			46.5	45.4	46.2	47.0	47.2	42.8	37.6	32.6	28.3	23.0	18.8	15.0	13.8
14.0			36.0	34.8	35.6	36.5	38.7	38.6	35.6	30.0	26.8	22.8	18.8	15.0	13.8
16.0				28.3	30.2	32.5	32.2	31.4	30.6	28.5	24.9	21.8	18.8	15.0	13.8
18.0				26.2	27.4	27.1	26.8	26.0	25.2	25.0	23.1	20.4	18.3	15.0	13.4
20.0					23.3	23.1	22.7	21.9	21.4	20.9	21.1	19.1	17.2	15.0	13.1
22.0					20.2	19.9	19.5	18.7	19.4	17.7	17.9	17.8	16.2	14.8	12.8
24.0						17.4	16.9	16.1	16.8	15.4	15.9	15.7	15.2	14.0	12.5
26.0							15.3	14.8	14.0	14.7	14.6	14.4	14.2	14.0	13.3
28.0								13.1	12.3	13.0	13.4	12.6	12.8	12.4	12.6
30.0								11.6	10.8	11.5	11.9	11.2	11.4	11.7	11.1
32.0									9.6	10.2	10.6	10.5	10.8	10.4	9.8
34.0									8.8	9.6	9.7	9.8	9.7	9.3	8.7
36.0										9.1	9.1	9.2	8.8	8.3	7.7
38.0										8.7	8.5	8.3	7.9	7.4	6.9
40.0											7.8	7.5	7.1	6.6	6.1
42.0											7.1	6.8	6.4	6.0	5.4
44.0											6.6	6.2	5.8	5.3	4.8
46.0												5.7	5.2	4.8	4.2
48.0												5.2	4.7	4.3	3.7
50.0													4.3	3.8	3.2
52.0													3.9	3.4	2.8
54.0														3.0	2.4
56.0														2.7	2.1
58.0															1.8
60.0															1.5
62.0															1.2
64.0															0.9

* Nach hinten / * Over rear / * A l'arrière / * Sobre la parte trasera

** Mit Zusatzhubausrüstung / ** With additional lifting equipment / ** Avec équipement supplémentaire / ** Con equipo adicional

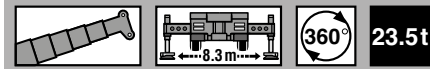


→ m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
3.0	180.0**	169.5**	140.0**	140.0	114.0**										
3.5	166.5**	152.5**	140.0**	140.0**	114.0**	90.5									
4.0	146.0**	138.0**	138.0**	137.0**	108.5	90.5									
4.5	130.0**	126.0**	125.5**	124.5**	103.5	90.5	70.0								
5.0	117.0**	115.5**	115.0**	114.0**	103.0	87.0	70.0	54.5							
6.0	96.4	96.4	96.0	95.1	95.8	79.8	70.0	54.5	43.5						
7.0	81.4	81.4	81.0	80.2	80.8	77.5	66.2	54.5	43.5	34.5					
8.0	70.2	70.2	69.8	68.9	69.5	68.1	61.2	54.5	43.5	34.5	28.5				
9.0	61.5	61.5	61.0	60.2	59.9	58.2	57.0	52.0	43.4	34.5	28.5	23.0			
10.0	53.9	53.9	53.1	51.8	51.7	50.6	49.8	46.8	41.4	34.5	28.5	23.0	18.8		
11.0			44.8	43.5	44.4	44.5	44.0	43.5	39.4	34.1	28.5	23.0	18.8	15.0	
12.0			38.4	37.2	38.0	39.9	41.5	39.1	36.8	32.6	28.3	23.0	18.8	15.0	13.8
14.0			29.7	31.2	33.4	33.3	33.0	32.1	30.2	29.1	26.8	22.8	18.8	15.0	13.8
16.0				26.9	27.2	26.9	26.6	25.7	24.9	24.4	23.9	21.8	18.8	15.0	13.8
18.0				22.4	22.5	22.3	21.9	21.1	21.9	20.1	20.3	20.2	18.3	15.0	13.4
20.0					19.1	18.8	18.4	17.6	18.4	17.4	17.7	17.3	17.2	15.0	13.1
22.0					16.4	16.1	15.7	14.9	15.6	16.1	15.3	15.5	14.9	14.8	12.8
24.0						13.9	13.5	12.7	13.4	13.9	13.5	13.7	13.7	13.1	12.5
26.0							12.2	11.9	11.3	12.2	12.8	12.6	12.3	11.9	11.3
28.0								11.2	10.5	11.4	11.5	11.2	10.8	10.3	9.7
30.0									9.9	10.4	10.2	9.9	9.5	9.0	8.4
32.0										9.3	9.3	9.0	8.8	8.4	7.9
34.0											8.5	8.4	8.1	7.8	7.4
36.0												7.5	7.2	7.0	6.5
38.0													6.5	6.2	5.8
40.0														5.8	5.5
42.0															5.1
44.0															4.6
46.0															4.1
48.0															3.5
50.0															3.0
52.0															2.5
54.0															2.0
56.0															1.6
															1.3

* Nach hinten / * Over rear / * A l'arrière / * Sobre la parte trasera

** Mit Zusatzhubausrüstung / ** With additional lifting equipment / ** Avec équipement supplémentaire / ** Con equipo adicional

Tragfähigkeiten
Lifting capacities
Capacités de levage
Capacidades de elevación

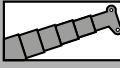
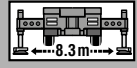


DIN/ISO/EN

→ m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
3.0	180.0**	164.5**	140.0**	140.0**	114.0**										
3.5	158.0**	147.5**	140.0**	140.0**	114.0**	90.5									
4.0	138.5**	133.5**	133.0**	132.0**	108.5	90.5									
4.5	123.0**	121.5**	121.0**	120.0**	103.5	90.5	70.0								
5.0	110.0	110.0	110.0	109.0	103.0	87.0	70.0	54.5							
6.0	90.5	90.5	90.2	88.8	83.1	77.5	70.0	54.5	43.5						
7.0	76.4	76.4	76.0	69.9	66.3	63.5	58.7	54.5	43.5	34.5					
8.0	65.6	65.6	62.6	57.0	54.6	52.8	51.6	47.9	43.5	34.5	28.5				
9.0	53.0	53.0	52.2	47.7	46.0	45.5	46.6	43.5	39.2	34.5	28.5	23.0			
10.0	43.5	43.5	42.7	40.6	41.6	43.0	40.7	38.0	35.5	33.9	28.5	23.0	18.8		
11.0			35.8	36.9	39.7	37.9	36.0	33.6	31.4	30.0	28.5	23.0	18.8	15.0	
12.0			32.0	34.8	35.1	33.8	32.1	30.0	28.4	26.8	26.0	23.0	18.8	15.0	13.8
14.0			25.8	26.9	27.1	26.9	26.1	24.3	24.4	21.7	21.4	20.9	18.8	15.0	13.8
16.0				21.5	21.8	21.5	21.2	20.0	20.3	19.9	18.8	18.4	17.2	15.0	13.8
18.0				17.7	17.9	17.6	17.3	16.4	17.1	17.4	16.9	16.6	15.0	14.6	13.4
20.0					15.6	14.6	14.7	14.3	15.3	15.7	15.1	14.3	13.4	12.4	12.0
22.0					13.3	12.3	13.6	13.1	13.6	13.3	13.1	12.3	11.5	10.6	10.3
24.0						11.4	11.8	11.8	11.6	11.4	11.2	10.7	10.0	9.1	8.8
26.0						10.1	10.3	10.2	10.1	9.8	9.6	9.1	8.6	7.8	7.6
28.0							9.0	8.9	8.7	8.5	8.3	7.8	7.3	6.7	6.5
30.0							7.9	7.8	7.6	7.4	7.1	6.7	6.2	5.6	5.6
32.0								6.8	6.7	6.4	6.2	5.8	5.3	4.7	4.7
34.0								6.1	5.9	5.6	5.4	4.9	4.5	3.9	3.9
36.0									5.2	4.9	4.7	4.2	3.8	3.2	3.2
38.0									4.6	4.3	4.0	3.6	3.1	2.6	2.5
40.0										3.8	3.5	3.0	2.6	2.0	2.0
42.0										3.3	3.0	2.6	2.1	1.5	1.5
44.0										2.9	2.6	2.1	1.7	1.1	1.1
46.0											2.2	1.7	1.3		
48.0											1.9	1.4			

* Nach hinten / * Over rear / * A l'arrière / * Sobre la parte trasera

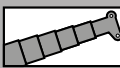
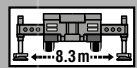

** Mit Zusatzhubausrüstung / ** With additional lifting equipment / ** Avec équipement supplémentaire / ** Con equipo adicional

WMA SALE & RENTAL

   12t														DIN/ISO/EN	
↘ m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
3.0	173.5**	159.5**	140.0**	140.0**	114.0**										
3.5	149.5**	142.5**	140.0**	140.0**	114.0**	90.5									
4.0	131.0**	128.5**	128.0**	127.0**	108.5	90.5									
4.5	116.0**	115.5**	115.5**	114.5**	103.5	90.5	70.0								
5.0	103.5	103.0	103.0	99.8	91.5	81.6	70.0	54.5							
6.0	84.8	84.7	82.8	73.8	69.1	65.5	59.8	54.5	43.5						
7.0	69.3	69.3	64.1	57.7	54.8	52.6	51.1	47.0	43.5	34.5					
8.0	51.8	51.8	51.2	46.7	46.2	47.9	45.2	41.9	37.6	34.5	28.5				
9.0	40.8	40.8	40.1	41.3	43.5	41.2	38.8	36.0	33.3	31.7	28.5	23.0			
10.0	33.2	33.2	35.4	37.3	37.6	35.8	33.7	31.3	31.0	27.4	26.4	23.0	18.8		
11.0			30.1	31.4	31.7	31.4	29.6	27.3	27.2	23.8	23.1	22.7	18.8	15.0	
12.0			25.6	26.9	27.2	26.9	26.1	24.0	24.1	22.8	22.0	20.0	18.8	15.0	13.8
14.0			18.9	20.1	20.6	20.1	19.8	19.3	20.2	20.4	18.9	17.2	15.9	15.0	13.8
16.0				15.7	16.6	16.1	17.4	17.3	17.2	16.9	16.2	15.2	14.2	13.1	12.5
18.0				12.5	13.4	13.8	14.1	14.0	13.9	13.6	13.4	12.7	11.8	10.8	10.5
20.0					11.0	11.3	11.6	11.5	11.4	11.1	10.9	10.4	9.9	9.0	8.7
22.0					9.2	9.4	9.7	9.6	9.5	9.2	9.0	8.5	8.0	7.4	7.2
24.0						7.9	8.2	8.1	7.9	7.7	7.5	7.0	6.5	5.9	5.9
26.0						6.7	6.9	6.8	6.7	6.4	6.2	5.8	5.3	4.7	4.6
28.0							5.9	5.8	5.7	5.4	5.2	4.7	4.3	3.7	3.6
30.0							5.1	4.9	4.8	4.5	4.3	3.9	3.4	2.8	2.8
32.0								4.2	4.1	3.8	3.6	3.1	2.7	2.1	2.0
34.0								3.6	3.4	3.2	2.9	2.5	2.0	1.4	1.4
36.0									2.9	2.6	2.4	1.9	1.5		
38.0									2.5	2.1	1.9	1.4	1.0		
40.0										1.7	1.4	1.0			
42.0										1.3	1.1				
44.0										1.1					

* Nach hinten / * Over rear / * A l'arrière / * Sobre la parte trasera

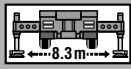
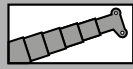
** Mit Zusatzhubausrüstung / ** With additional lifting equipment / ** Avec équipement supplémentaire / ** Con equipo adicional

   0t														DIN/ISO/EN	
↘ m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m		
3.0	163.5**	153.5**	140.0**	140.0**	114.0**										
3.5	141.0**	137.0**	136.5**	135.5**	114.0**	90.5									
4.0	122.5**	122.5**	122.0**	111.0**	98.1	84.5									
4.5	108.0	108.0	104.0	88.9	80.2	73.8	65.4								
5.0	96.4	96.4	85.0	73.5	67.4	62.9	58.0	53.4							
6.0	68.9	68.9	60.8	53.6	52.1	53.4	49.1	43.5	38.4						
7.0	52.1	52.1	46.5	46.6	46.2	43.0	39.6	35.7	32.2	30.0					
8.0	40.1	40.1	39.9	39.6	37.5	34.9	32.3	29.2	28.8	25.3	23.5				
9.0	30.9	30.9	33.1	32.5	31.1	29.1	27.0	26.0	25.1	23.8	21.6	19.3			
10.0	24.1	24.1	27.2	27.3	26.3	24.7	24.5	24.4	23.3	21.4	18.9	17.9	16.3		
11.0			22.1	23.3	23.5	21.5	22.3	21.3	20.3	19.2	18.1	16.8	15.0		
12.0			18.3	19.7	20.5	20.1	19.6	18.8	18.0	16.9	16.0	14.8	13.7		
14.0			13.1	14.4	15.4	15.8	15.6	14.9	14.3	13.5	12.7	11.7	10.7		
16.0				10.8	11.8	12.2	12.5	12.1	11.6	10.9	10.2	9.3	8.5		
18.0				8.4	9.2	9.6	9.9	9.8	9.5	8.9	8.3	7.5	6.7		
20.0					7.3	7.7	7.9	7.9	7.8	7.3	6.8	6.1	5.3		
22.0					5.9	6.2	6.4	6.4	6.2	6.0	5.6	4.9	4.2		
24.0						5.0	5.3	5.2	5.0	4.8	4.5	3.9	3.2		
26.0						4.1	4.3	4.2	4.1	3.8	3.6	3.1	2.4		
28.0							3.5	3.4	3.3	3.0	2.8	2.3			
30.0							2.9	2.7	2.6	2.3	2.1	1.6			
32.0								2.1	2.0	1.7	1.5				
34.0								1.7	1.5	1.2					
36.0									1.1						

* Nach hinten / * Over rear / * A l'arrière / * Sobre la parte trasera

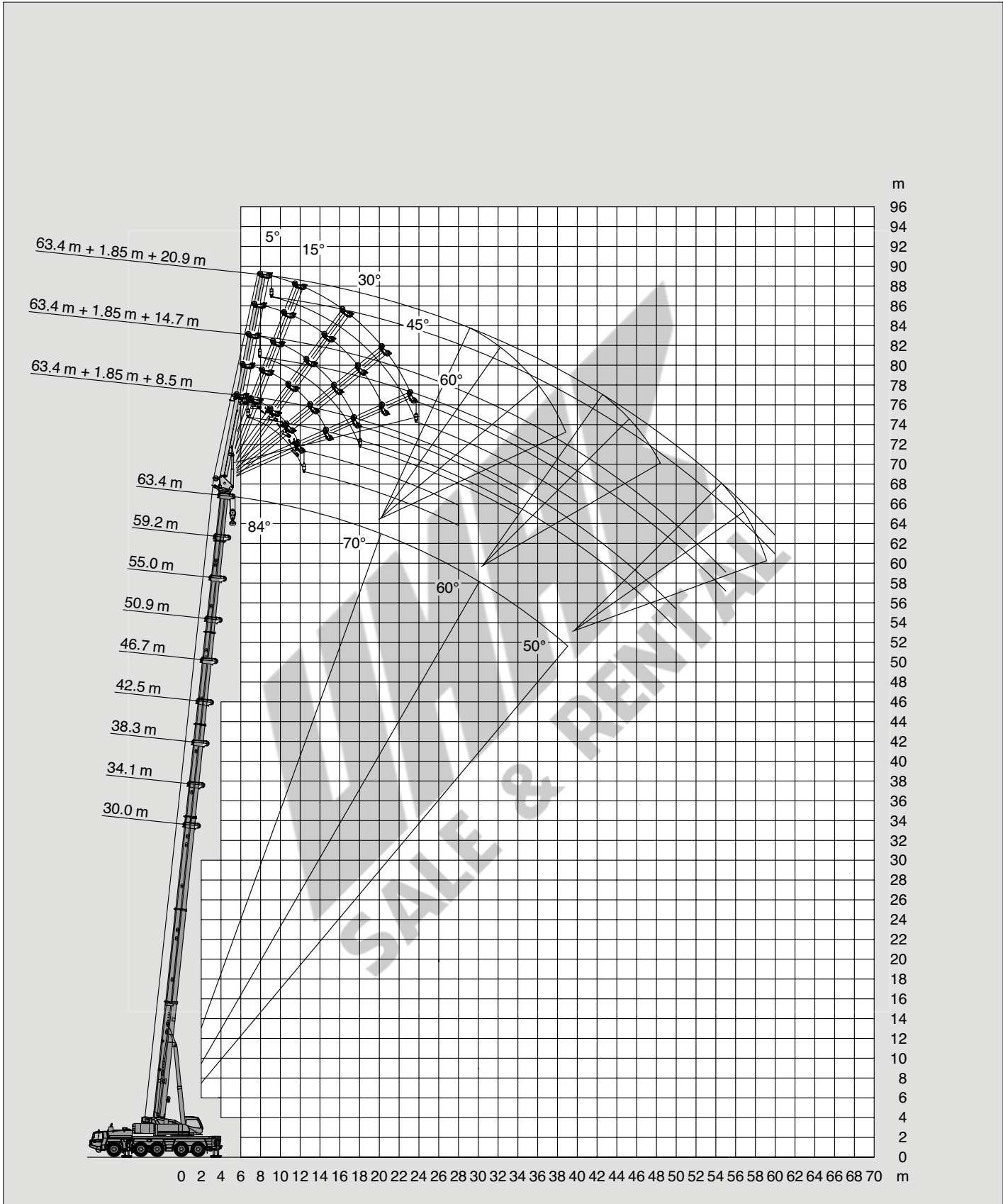
** Mit Zusatzhubausrüstung / ** With additional lifting equipment / ** Avec équipement supplémentaire / ** Con equipo adicional

HTLJ / Hubhöhen
 HTLJ / Lifting heights
 HTLJ / Hauteurs de levage
 HTLJ / Alturas de elevación



71t

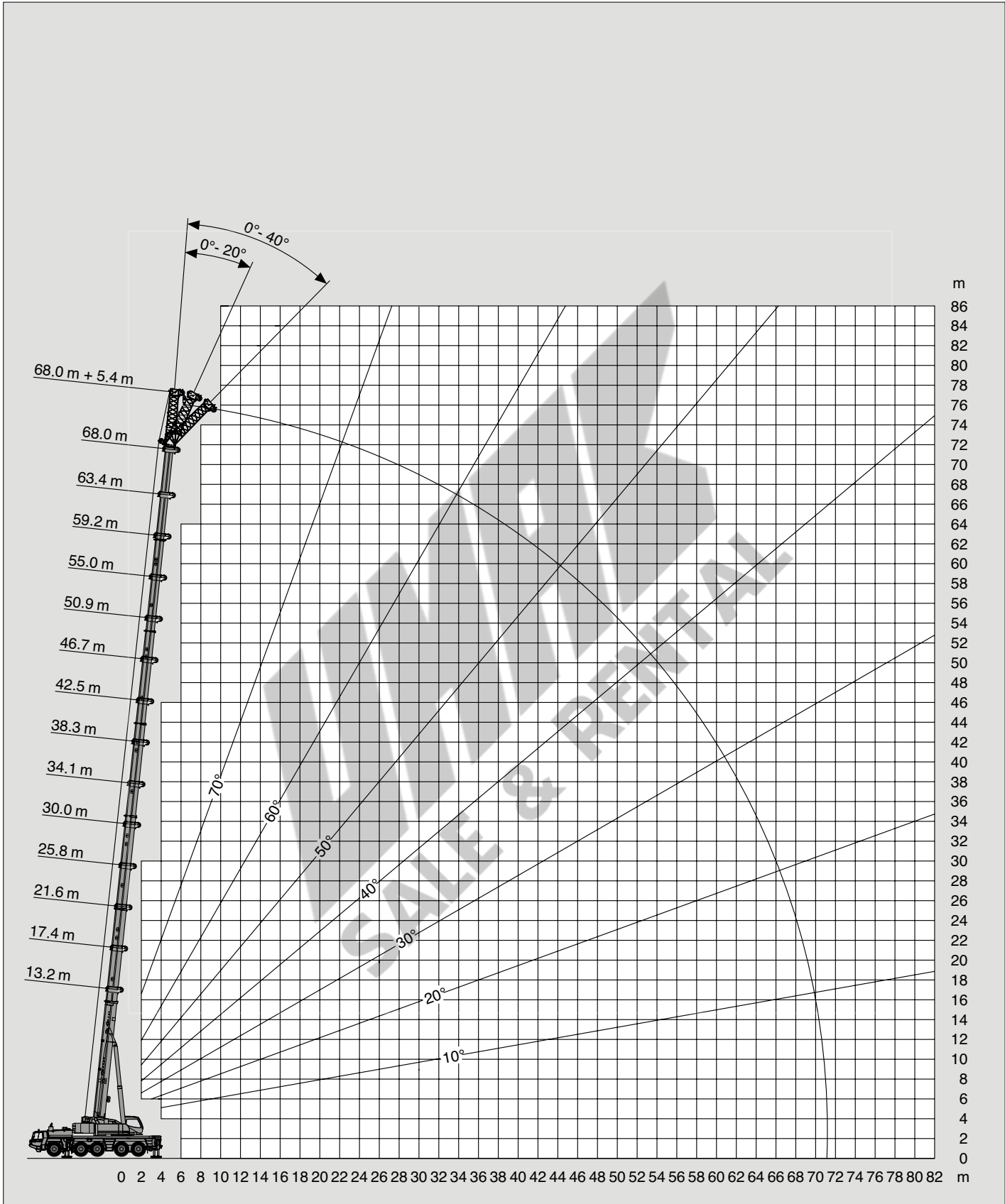
DIN/ISO/EN



Hubhöhen
Lifting heights
Hauteurs de levage
Alturas de elevación



DIN/ISO/EN



Tragfähigkeiten
Lifting capacities
Capacités de levage
Capacidades de elevación



m	13.2 m + 5.4 m			34.1 m + 5.4 m			63.4 m + 5.4 m			68.0 m + 5.4 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	47.5											
3.5	45.0	30.4										
4.0	42.6	29.4										
4.5	40.6	28.5										
5.0	38.7	27.6	22.2									
6.0	35.5	26.1	21.4	38.7								
7.0	32.8	24.8	20.7	38.7								
8.0	30.5	23.7	20.1	38.7	28.5							
9.0	28.5	22.7	19.6	38.7	27.7	21.5						
10.0	26.8	21.8	19.3	38.4	27.0	21.2						
11.0	25.2	21.1	18.7	36.4	26.3	20.9						
12.0	23.7	20.1	18.3	34.5	25.6	20.6						
14.0	20.7	18.5		31.2	24.5	20.1	10.9			10.0		
16.0	18.1			28.3	23.5	19.6	10.3	9.6	9.2	9.4	8.8	
18.0				25.9	22.6	19.2	9.8	9.1	8.8	8.9	8.4	8.1
20.0				23.8	21.8	18.9	9.3	8.7	8.4	8.5	8.0	7.7
22.0				22.0	21.1	18.5	8.9	8.3	8.1	8.1	7.7	7.4
24.0				20.4	20.1	18.1	8.5	8.0	7.7	7.8	7.4	7.1
26.0				18.0	18.5	17.9	8.1	7.7	7.4	7.5	7.1	6.9
28.0				15.8	16.2	16.3	7.8	7.5	7.2	7.2	6.9	6.7
30.0				13.9	14.2	14.3	7.5	7.2	7.0	6.9	6.6	6.5
32.0				12.3	12.5		7.2	7.0	6.8	6.6	6.4	6.3
34.0				10.9	11.1		7.0	6.7	6.6	6.4	6.2	6.1
36.0				9.7			6.7	6.5	6.4	6.2	6.0	5.9
38.0							6.5	6.3	6.2	6.0	5.8	5.7
40.0							6.3	6.1	6.0	5.8	5.6	5.5
44.0							6.0	5.8	5.7	5.5	5.3	5.2
48.0							5.4	5.4	5.4	5.2	5.1	5.0
52.0							4.9	4.9	4.9	4.7	4.7	4.7
56.0							4.3	4.4		4.3	4.3	4.3
60.0							3.6	3.6		3.6	3.6	
64.0							2.9			2.9	2.9	
68.0										2.3		

UNIVERSAL
SALE & RENTAL

Tragfähigkeiten
Lifting capacities
Capacités de levage
Capacidades de elevación



m	13.2 m + 5.4 m			34.1 m + 5.4 m			63.4 m + 5.4 m			68.0 m + 5.4 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	47.5											
3.5	45.0	30.4										
4.0	42.6	29.4										
4.5	40.6	28.5										
5.0	38.7	27.6	22.2									
6.0	35.5	26.1	21.4	38.7								
7.0	32.8	24.8	20.7	38.7								
8.0	30.5	23.7	20.1	38.7	28.5							
9.0	28.5	22.7	19.6	38.7	27.7	21.5						
10.0	26.8	21.8	19.3	38.4	27.0	21.2						
11.0	25.2	21.1	18.7	36.4	26.3	20.9						
12.0	23.7	20.1	18.3	34.5	25.6	20.6						
14.0	20.7	18.5		31.2	24.5	20.1	10.9			10.0		
16.0	18.1			28.3	23.5	19.6	10.3	9.6	9.2	9.4	8.8	
18.0				23.6	22.6	19.2	9.8	9.1	8.8	8.9	8.4	8.1
20.0				19.6	20.3	18.9	9.3	8.7	8.4	8.5	8.0	7.7
22.0				16.4	17.0	17.4	8.9	8.3	8.1	8.1	7.7	7.4
24.0				13.9	14.4	14.7	8.5	8.0	7.7	7.8	7.4	7.1
26.0				11.8	12.2	12.5	8.1	7.7	7.4	7.5	7.1	6.9
28.0				10.1	10.4	10.6	7.8	7.5	7.2	7.2	6.9	6.7
30.0				8.6	8.9	9.0	7.5	7.2	7.0	6.9	6.6	6.5
32.0				7.4	7.6		7.2	7.0	6.8	6.6	6.4	6.3
34.0				6.3	6.4		7.0	6.7	6.6	6.4	6.2	6.1
36.0				5.4			6.7	6.5	6.4	6.2	6.0	5.9
38.0							6.3	6.3	6.2	6.0	5.8	5.7
40.0							5.5	5.7	5.9	5.7	5.6	5.5
44.0							4.2	4.4	4.5	4.3	4.6	4.7
48.0							3.2	3.3	3.4	3.3	3.5	3.5
52.0							2.3	2.5	2.5	2.4	2.5	2.6
56.0							1.6	1.7		1.7	1.8	1.8

WIRTSCHAFTS
SALE & RENTAL

Tragfähigkeiten
Lifting capacities
Capacités de levage
Capacidades de elevación



m	13.2 m + 5.4 m			34.1 m + 5.4 m			63.4 m + 5.4 m			68.0 m + 5.4 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	47.5											
3.5	45.0	30.4										
4.0	42.6	29.4										
4.5	40.6	28.5										
5.0	38.7	27.6	22.2									
6.0	35.5	26.1	21.4	38.7								
7.0	32.8	24.8	20.7	38.7								
8.0	30.5	23.7	20.1	38.7	28.5							
9.0	28.5	22.7	19.6	38.7	27.7	21.5						
10.0	26.8	21.8	19.3	38.4	27.0	21.2						
11.0	25.2	21.1	18.7	36.4	26.3	20.9						
12.0	23.7	20.1	18.3	34.5	25.6	20.6						
14.0	20.7	18.5		29.2	24.5	20.1	10.9			10.0		
16.0	18.1			23.3	23.5	19.6	10.3	9.6	9.2	9.4	8.8	
18.0				18.8	19.6	19.2	9.8	9.1	8.8	8.9	8.4	8.1
20.0				15.3	16.1	16.6	9.3	8.7	8.4	8.5	8.0	7.7
22.0				12.6	13.3	13.6	8.9	8.3	8.1	8.1	7.7	7.4
24.0				10.5	11.0	11.3	8.5	8.0	7.7	7.8	7.4	7.1
26.0				8.7	9.1	9.4	8.1	7.7	7.4	7.5	7.1	6.9
28.0				7.2	7.6	7.7	7.8	7.5	7.2	7.2	6.9	6.7
30.0				6.0	6.3	6.4	7.5	7.2	7.0	6.9	6.6	6.5
32.0				4.9	5.1		6.8	7.0	6.8	6.6	6.4	6.3
34.0				4.0	4.1		5.8	6.1	6.4	6.0	6.2	6.1
36.0				3.2			5.0	5.3	5.5	5.1	5.4	5.6
38.0							4.2	4.5	4.7	4.4	4.6	4.8
40.0							3.6	3.8	3.9	3.7	4.0	4.1
44.0							2.4	2.6	2.8	2.6	2.8	2.9
48.0							1.5	1.7	1.8	1.7	1.8	1.9

WMA
SALE & RENTAL

Tragfähigkeiten
Lifting capacities
Capacités de levage
Capacidades de elevación



m	13.2 m + 5.4 m			34.1 m + 5.4 m			63.4 m + 5.4 m			68.0 m + 5.4 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	47.5											
3.5	45.0	30.4										
4.0	42.6	29.4										
4.5	40.6	28.5										
5.0	38.7	27.6	22.2									
6.0	35.5	26.1	21.4	38.7								
7.0	32.8	24.8	20.7	38.7								
8.0	30.5	23.7	20.1	38.7	28.5							
9.0	28.5	22.7	19.6	38.7	27.7	21.5						
10.0	26.8	21.8	19.3	36.8	27.0	21.2						
11.0	25.2	21.1	18.7	32.3	26.3	20.9						
12.0	23.7	20.1	18.3	28.7	25.6	20.6						
14.0	20.7	18.5		22.9	24.1	20.1	10.9			10.0		
16.0	18.1			17.9	19.0	19.6	10.3	9.6	9.2	9.4	8.8	
18.0				14.1	15.0	15.6	9.8	9.1	8.8	8.9	8.4	8.1
20.0				11.1	11.8	12.3	9.3	8.7	8.4	8.5	8.0	7.7
22.0				8.8	9.4	9.8	8.9	8.3	8.1	8.1	7.7	7.4
24.0				6.9	7.4	7.8	8.5	8.0	7.7	7.8	7.4	7.1
26.0				5.4	5.9	6.1	7.5	7.7	7.4	7.5	7.1	6.9
28.0				4.2	4.5	4.7	6.2	6.6	6.9	6.4	6.8	6.7
30.0				3.1	3.4	3.5	5.1	5.5	5.7	5.3	5.7	6.0
32.0				2.2	2.5		4.2	4.5	4.7	4.3	4.7	4.9
34.0				1.5	1.6		3.4	3.7	3.9	3.5	3.8	4.1
36.0							2.7	2.9	3.1	2.8	3.1	3.3
38.0							2.0	2.3	2.5	2.2	2.5	2.7
40.0							1.5	1.7	1.9	1.6	1.9	2.1





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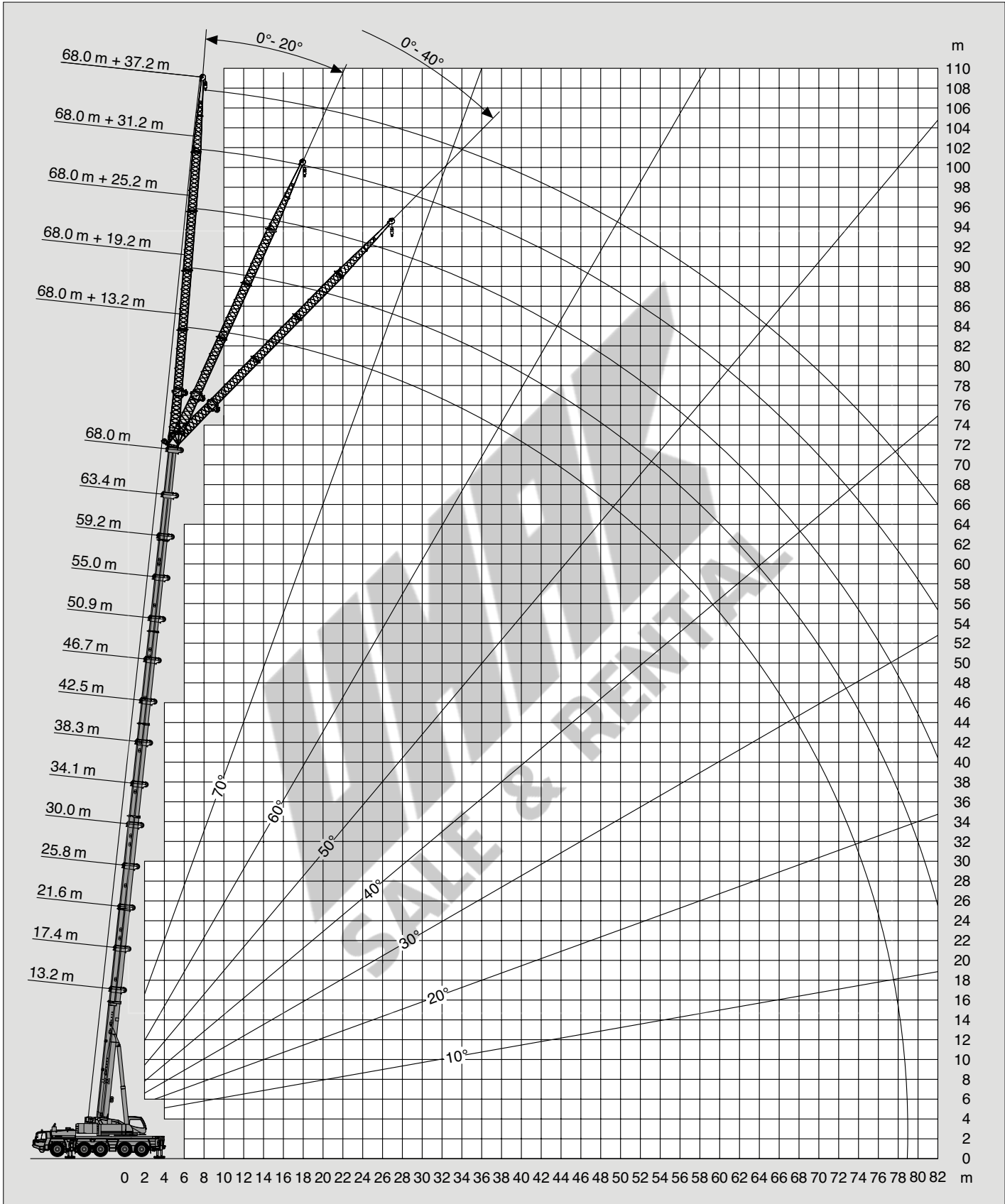
Hubhöhen
Lifting heights
Hauteurs de levage
Alturas de elevación








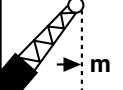
DIN/ISO/EN

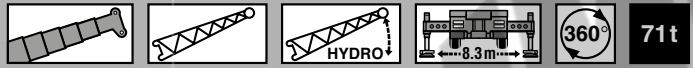
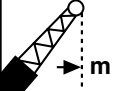


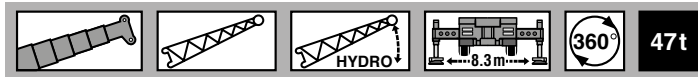
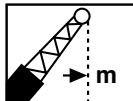
 m	68.0 m + 13.2 m			68.0 m + 19.2 m			68.0 m + 25.2 m			68.0 m + 31.2 m			68.0 m + 37.2 m	
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	
14.0	6.5													
16.0	6.5			4.6										
18.0	6.4			4.6										
20.0	6.3	5.9		4.6			3.6			2.8			2.3	
22.0	6.2	5.9		4.6			3.6			2.8			2.3	
24.0	6.1	5.8	5.4	4.6	4.6		3.6			2.8			2.3	
26.0	6.0	5.6	5.2	4.6	4.6		3.6			2.8			2.3	
28.0	5.9	5.4	5.0	4.6	4.4		3.6	3.6		2.8			2.3	
30.0	5.7	5.2	4.9	4.6	4.3	3.9	3.6	3.6		2.8			2.3	
32.0	5.5	5.0	4.7	4.6	4.1	3.8	3.6	3.4		2.8			2.3	
34.0	5.3	4.8	4.6	4.5	4.0	3.7	3.6	3.3		2.8	2.7		2.3	
36.0	5.2	4.7	4.5	4.5	4.3	3.9	3.6	3.2	3.0	2.8	2.6		2.3	
38.0	5.0	4.5	4.3	4.2	3.8	3.5	3.5	3.1	2.9	2.8	2.6		2.3	
40.0	4.8	4.4	4.2	4.0	3.6	3.4	3.4	3.0	2.8	2.8	2.5		2.3	
44.0	4.5	4.2	4.0	3.8	3.4	3.2	3.2	2.8	2.6	2.7	2.3	2.1	2.2	
48.0	4.3	4.0	3.8	3.6	3.2	3.1	3.0	2.7	2.5	2.5	2.2	2.0	2.1	
52.0	4.0	3.8	3.7	3.4	3.1	2.9	2.8	2.5	2.4	2.3	2.0	1.9	1.9	
56.0	3.8	3.6	3.5	3.2	2.9	2.8	2.6	2.4	2.3	2.1	1.9	1.8	1.8	
60.0	3.6	3.5	3.4	3.0	2.8	2.7	2.5	2.2	2.2	2.0	1.8	1.7	1.7	
64.0	3.2	3.3	3.3	2.9	2.7	2.6	2.4	2.1	2.1	1.9	1.7	1.6	1.5	
68.0	2.7	2.9		2.7	2.6	2.5	2.3	2.1	2.0	1.8	1.6	1.5	1.4	
72.0	2.2	2.3		2.4	2.5	2.5	2.1	2.0	1.9	1.7	1.5	1.4	1.3	
76.0	1.7	1.8		1.9	2.1		1.9	1.9	1.8	1.6	1.4	1.3		
80.0				1.5	1.6		1.5	1.8		1.4	1.3			
84.0								1.4						

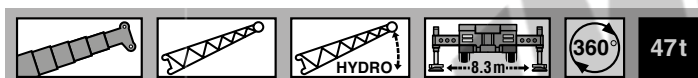
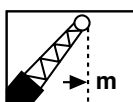
 m	63.4 m + 13.2 m			63.4 m + 19.2 m			63.4 m + 25.2 m			63.4 m + 31.2 m			63.4 m + 37.2 m	
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°
14.0	7.5			5.2						3.2				
16.0	7.3			5.2			4.0			3.2				
18.0	7.2			5.2			4.0			3.2			2.5	
20.0	7.0	6.7		5.2			4.0			3.2			2.5	
22.0	6.9	6.4		5.2	5.2		4.0			3.2			2.5	
24.0	6.8	6.2	5.7	5.2	5.1		4.0			3.2			2.5	
26.0	6.7	6.0	5.5	5.2	4.9		4.0	4.0		3.2			2.5	
28.0	6.4	5.8	5.4	5.2	4.7		4.0	3.9		3.2			2.5	
30.0	6.2	5.6	5.2	5.2	4.5	4.2	4.0	3.8		3.2	3.0		2.5	
32.0	5.9	5.4	5.0	5.0	4.4	4.1	4.0	3.6		3.2	3.0		2.5	
34.0	5.7	5.2	4.9	4.8	4.3	3.9	4.0	3.5	3.2	3.2	2.9		2.5	2.1
36.0	5.5	5.0	4.8	4.6	4.1	3.8	3.9	3.4	3.1	3.2	2.8		2.5	2.1
38.0	5.4	4.9	4.6	4.5	4.0	3.7	3.8	3.3	3.0	3.2	2.7		2.4	2.0
40.0	5.2	4.7	4.5	4.3	3.9	3.6	3.7	3.2	3.0	3.1	2.6	2.4	2.4	2.0
44.0	4.9	4.5	4.3	4.1	3.7	3.4	3.4	3.0	2.8	2.8	2.4	2.3	2.3	1.9
48.0	4.6	4.3	4.1	3.8	3.5	3.3	3.2	2.8	2.7	2.7	2.3	2.1	2.2	1.8
52.0	4.4	4.1	4.0	3.6	3.3	3.2	3.0	2.7	2.5	2.5	2.2	2.0	2.1	1.7
56.0	4.0	3.9	3.9	3.5	3.1	3.0	2.8	2.6	2.4	2.3	2.0	1.9	1.9	1.6
60.0	3.7	3.7	3.6	3.3	3.0	2.9	2.7	2.4	2.3	2.2	1.9	1.8	1.8	1.5
64.0	3.4	3.4		3.0	2.9	2.8	2.6	2.3	2.2	2.0	1.8	1.7	1.7	1.4
68.0	2.8	3.0		2.8	2.7	2.7	2.4	2.2	2.1	1.9	1.7	1.6	1.5	1.4
72.0	2.3	2.4		2.4	2.5		2.2	2.1	2.0	1.8	1.6	1.5	1.4	1.3
76.0				2.0	2.1		2.0	2.0		1.6	1.5	1.4	1.3	
80.0							1.7	1.9		1.5	1.4	1.3		
84.0							1.3	1.4		1.3	1.3			

Tragfähigkeiten
Lifting capacities
Capacités de levage
Capacidades de elevación

 DIN/ISO/EN															
 m	34.1 m + 13.2 m			34.1 m + 19.2 m			34.1 m + 25.2 m			34.1 m + 31.2 m			34.1 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
6.0	17.9														
7.0	17.2			13.1											
8.0	16.4			13.1			8.9								
9.0	15.8			13.1			8.9			5.7					
10.0	15.1			12.9			8.9			5.7			4.1		
11.0	14.5	10.4		12.6			8.9			5.7			4.1		
12.0	14.0	10.2		12.3			8.9			5.7			4.1		
14.0	13.0	9.6		11.6			8.8			5.7			4.1		
16.0	12.1	9.1	7.6	10.9	8.2		8.4			5.7			4.1		
18.0	11.4	8.7	7.3	10.3	7.8		7.9			5.7			4.1		
20.0	10.7	8.3	7.1	9.7	7.4	5.8	7.5	5.7		5.7			4.1		
22.0	10.1	8.0	6.9	9.1	7.1	5.6	7.1	5.4		5.4			4.1		
24.0	9.6	7.7	6.8	8.7	6.8	5.4	6.7	5.2		5.2	4.1		3.9		
26.0	9.1	7.5	6.6	8.2	6.5	5.2	6.3	5.0		5.0	3.9		3.8		
28.0	8.7	7.2	6.5	7.8	6.2	5.0	6.0	4.8	3.8	4.7	3.7		3.6		
30.0	8.3	7.0	6.4	7.5	5.9	4.9	5.7	4.6	3.7	4.5	3.6		3.4	2.8	
32.0	7.9	6.8	6.3	7.1	5.6	4.7	5.5	4.4	3.5	4.3	3.4	2.7	3.3	2.7	
34.0	7.6	6.7	6.3	6.8	5.4	4.6	5.2	4.2	3.4	4.1	3.3	2.6	3.2	2.6	
36.0	7.4	6.5	6.3	6.4	5.2	4.5	5.0	4.0	3.3	3.9	3.1	2.5	3.0	2.5	
38.0	7.1	6.4		6.0	4.9	4.4	4.8	3.8	3.2	3.8	2.9	2.4	2.9	2.4	1.8
40.0	6.9	6.3		5.7	4.8	4.3	4.5	3.6	3.1	3.6	2.8	2.3	2.8	2.2	1.8
44.0	6.7			5.1	4.5		4.0	3.4	3.0	3.2	2.6	2.2	2.6	2.0	1.6
48.0				4.6	4.3		3.6	3.1	2.9	2.8	2.4	2.1	2.3	1.8	1.5
52.0							3.2	2.9		2.5	2.2	2.0	2.0	1.7	1.4
56.0							2.9			2.3	2.0		1.8	1.5	1.4
60.0										2.0	1.9		1.6	1.4	1.3
64.0													1.5	1.3	
68.0													1.3		

 DIN/ISO/EN															
 m	13.2 m + 13.2 m			13.2 m + 19.2 m			13.2 m + 25.2 m			13.2 m + 31.2 m			13.2 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	18.0														
3.5	18.0			16.0											
4.0	18.0			15.7			10.4								
4.5	17.4			15.4			10.4								
5.0	16.7			15.0			10.4			6.4					
6.0	15.4			14.3			10.4			6.4			4.6		
7.0	14.4	11.5		13.6			10.4			6.4			4.6		
8.0	13.4	10.9		13.0			10.4			6.4			4.6		
9.0	12.6	10.3		12.4			10.0			6.4			4.6		
10.0	11.9	9.8		11.7			9.5			6.4			4.6		
11.0	11.2	9.4		11.1	9.0		9.0			6.4			4.6		
12.0	10.6	9.0	7.9	10.5	8.6		8.6			6.4			4.6		
14.0	9.6	8.3	7.4	9.5	7.9		7.8			6.3			4.6		
16.0	8.8	7.8	7.1	8.7	7.1	5.9	7.1	6.0		5.8			4.5		
18.0	8.1	7.3	6.8	7.8	6.5	5.5	6.5	5.6		5.4			4.2		
20.0	7.5	6.9	6.7	7.0	5.9	5.2	6.0	5.0		5.0			4.0		
22.0	7.1	6.7		6.3	5.5	4.9	5.5	4.6		4.6	3.9		3.7		
24.0				5.7	5.1	4.6	4.9	4.2		4.3	3.6		3.5	3.1	
26.0				5.2	4.7	4.4	4.5	3.9	3.5	3.8	3.3		3.3	2.9	
28.0				4.7	4.5		4.1	3.6	3.3	3.5	3.0		3.1	2.6	
30.0							3.7	3.4	3.1	3.2	2.8		2.8	2.4	
32.0							3.4	3.2	3.0	2.9	2.6	2.4	2.5	2.2	
34.0							3.2	3.0		2.7	2.4	2.2	2.3	2.1	
36.0							2.9			2.5	2.3	2.1	2.1	1.9	1.7
38.0										2.3	2.2	2.0	2.0	1.8	1.6
40.0										2.1	2.0		1.8	1.7	1.5
44.0													1.5	1.5	1.4
48.0													1.3	1.3	

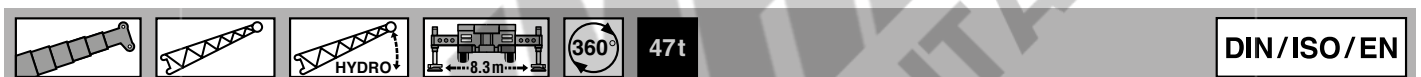
															DIN/ISO/EN	
 m	68.0 m + 13.2 m			68.0 m + 19.2 m			68.0 m + 25.2 m			68.0 m + 31.2 m			68.0 m + 37.2 m			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°			
14.0	6.5															
16.0	6.5			4.6												
18.0	6.4			4.6												
20.0	6.3	5.9		4.6			3.6			2.8				2.3		
22.0	6.2	5.9		4.6			3.6			2.8				2.3		
24.0	6.1	5.8	5.4	4.6	4.6		3.6			2.8				2.3		
26.0	6.0	5.6	5.2	4.6	4.6		3.6			2.8				2.3		
28.0	5.9	5.4	5.0	4.6	4.4		3.6	3.6		2.8				2.3		
30.0	5.7	5.2	4.9	4.6	4.3	3.9	3.6	3.6		2.8				2.3		
32.0	5.5	5.0	4.7	4.6	4.1	3.8	3.6	3.4		2.8				2.3		
34.0	5.3	4.8	4.6	4.5	4.0	3.7	3.6	3.3		2.8	2.7			2.3		
36.0	5.2	4.7	4.5	4.5	4.3	3.9	3.6	3.2	3.0	2.8	2.6			2.3		
38.0	5.0	4.5	4.3	4.2	3.8	3.5	3.5	3.1	2.9	2.8	2.6			2.3		
40.0	4.8	4.4	4.2	4.0	3.6	3.4	3.4	3.0	2.8	2.8	2.5			2.3		
44.0	4.5	4.2	4.0	3.8	3.4	3.2	3.2	2.8	2.6	2.7	2.3	2.1		2.2		
48.0	3.8	4.0	3.8	3.6	3.2	3.1	3.0	2.7	2.5	2.5	2.2	2.0		2.1		
52.0	2.9	3.3	3.6	3.2	3.1	2.9	2.8	2.5	2.4	2.3	2.0	1.9		1.9		
56.0	2.2	2.5	2.8	2.5	2.9	2.8	2.6	2.4	2.3	2.1	1.9	1.8		1.8		
60.0	1.5	1.8	2.0	1.8	2.3	2.6	1.9	2.2	2.2	1.9	1.8	1.7		1.7		
64.0		1.2	1.4	1.2	1.6	1.9	1.3	1.9	2.1	1.3	1.7	1.6		1.4		
68.0						1.3		1.3	1.7		1.5	1.5				
72.0									1.7		1.4	1.4				

															DIN/ISO/EN	
 m	63.4 m + 13.2 m			63.4 m + 19.2 m			63.4 m + 25.2 m			63.4 m + 31.2 m			63.4 m + 37.2 m			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°		
14.0	7.5			5.2												
16.0	7.3			5.2			4.0			3.2						
18.0	7.2			5.2			4.0			3.2				2.5		
20.0	7.0	6.7		5.2			4.0			3.2				2.5		
22.0	6.9	6.4		5.2	5.2		4.0			3.2				2.5		
24.0	6.8	6.2	5.7	5.2	5.1		4.0			3.2				2.5		
26.0	6.7	6.0	5.5	5.2	4.9		4.0	4.0		3.2				2.5		
28.0	6.4	5.8	5.4	5.2	4.7		4.0	3.9		3.2				2.5		
30.0	6.2	5.6	5.2	5.2	4.5	4.2	4.0	3.8		3.2	3.0			2.5		
32.0	5.9	5.4	5.0	5.0	4.4	4.1	4.0	3.6		3.2	3.0			2.5		
34.0	5.7	5.2	4.9	4.8	4.3	3.9	4.0	3.5	3.2	3.2	2.9			2.5	2.1	
36.0	5.5	5.0	4.8	4.6	4.1	3.8	3.9	3.4	3.1	3.2	2.8			2.5	2.1	
38.0	5.4	4.9	4.6	4.5	4.0	3.7	3.8	3.3	3.0	3.2	2.7			2.4	2.0	
40.0	5.2	4.7	4.5	4.3	3.9	3.6	3.7	3.2	3.0	3.1	2.6	2.4		2.4	2.0	
44.0	4.9	4.5	4.3	4.1	3.7	3.4	3.4	3.0	2.8	2.8	2.4	2.3		2.3	1.9	
48.0	3.9	4.3	4.1	3.8	3.5	3.3	3.2	2.8	2.7	2.7	2.3	2.1		2.2	1.8	
52.0	3.0	3.4	3.7	3.2	3.3	3.2	3.0	2.7	2.5	2.5	2.2	2.0		2.1	1.7	
56.0	2.3	2.6	2.8	2.4	3.0	3.0	2.7	2.6	2.4	2.3	2.0	1.9		1.9	1.6	
60.0	1.6	1.9	2.1	1.8	2.2	2.5	2.0	2.4	2.3	2.1	1.9	1.8		1.8	1.5	
64.0		1.3		1.2	1.6	1.8	1.5	2.0	2.2	1.5	1.8	1.7		1.6	1.4	
68.0						1.2		1.4	1.7		1.6	1.6		1.4		
72.0											1.4	1.4			1.3	

Tragfähigkeiten
Lifting capacities
Capacités de levage
Capacidades de elevación

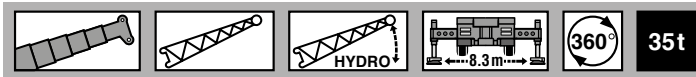
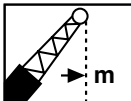


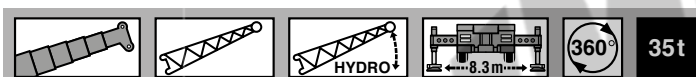
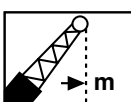
m	34.1 m + 13.2 m			34.1 m + 19.2 m			34.1 m + 25.2 m			34.1 m + 31.2 m			34.1 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
6.0	17.9														
7.0	17.2			13.1											
8.0	16.4			13.1			8.9								
9.0	15.8			13.1			8.9			5.7					
10.0	15.1			12.9			8.9			5.7			4.1		
11.0	14.5	10.4		12.6			8.9			5.7			4.1		
12.0	14.0	10.2		12.3			8.9			5.7			4.1		
14.0	13.0	9.6		11.6			8.8			5.7			4.1		
16.0	12.1	9.1	7.6	10.9	8.2		8.4			5.7			4.1		
18.0	11.4	8.7	7.3	10.3	7.8		7.9			5.7			4.1		
20.0	10.7	8.3	7.1	9.7	7.4	5.8	7.5	5.7		5.7			4.1		
22.0	10.1	8.0	6.9	9.1	7.1	5.6	7.1	5.4		5.4			4.1		
24.0	9.6	7.7	6.8	8.7	6.8	5.4	6.7	5.2		5.2	4.1		3.9		
26.0	9.1	7.5	6.6	8.2	6.5	5.2	6.3	5.0		5.0	3.9		3.8		
28.0	8.7	7.2	6.5	7.8	6.2	5.0	6.0	4.8	3.8	4.7	3.7		3.6		
30.0	8.3	7.0	6.4	7.5	5.9	4.9	5.7	4.6	3.7	4.5	3.6		3.4	2.8	
32.0	7.9	6.8	6.3	7.1	5.6	4.7	5.5	4.4	3.5	4.3	3.4	2.7	3.3	2.7	
34.0	7.6	6.7	6.3	6.8	5.4	4.6	5.2	4.2	3.4	4.1	3.3	2.6	3.2	2.6	
36.0	6.8	6.5	6.3	6.4	5.2	4.5	5.0	4.0	3.3	3.9	3.1	2.5	3.0	2.5	
38.0	5.9	6.4		6.0	4.9	4.4	4.8	3.8	3.2	3.8	2.9	2.4	2.9	2.4	1.8
40.0	5.2	5.6		5.7	4.8	4.3	4.5	3.6	3.1	3.6	2.8	2.3	2.8	2.2	1.8
44.0	3.9			4.5	4.5		4.0	3.4	3.0	3.2	2.6	2.2	2.6	2.0	1.6
48.0				3.5	3.8		3.6	3.1	2.9	2.8	2.4	2.1	2.3	1.8	1.5
52.0							3.1	2.9		2.5	2.2	2.0	2.0	1.7	1.4
56.0							2.3			2.3	2.0		1.8	1.5	1.4
60.0										2.0	1.9		1.6	1.4	1.3
64.0													1.5	1.3	
68.0													1.2		



m	13.2 m + 13.2 m			13.2 m + 19.2 m			13.2 m + 25.2 m			13.2 m + 31.2 m			13.2 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	18.0														
3.5	18.0			16.0											
4.0	18.0			15.7			10.4								
4.5	17.4			15.4			10.4								
5.0	16.7			15.0			10.4			6.4					
6.0	15.4			14.3			10.4			6.4			4.6		
7.0	14.4	11.5		13.6			10.4			6.4			4.6		
8.0	13.4	10.9		13.0			10.4			6.4			4.6		
9.0	12.6	10.3		12.4			10.0			6.4			4.6		
10.0	11.9	9.8		11.7			9.5			6.4			4.6		
11.0	11.2	9.4		11.1	9.0		9.0			6.4			4.6		
12.0	10.6	9.0	7.9	10.5	8.6		8.6			6.4			4.6		
14.0	9.6	8.3	7.4	9.5	7.9		7.8			6.3			4.6		
16.0	8.8	7.8	7.1	8.7	7.1	5.9	7.1	6.0		5.8			4.5		
18.0	8.1	7.3	6.8	7.8	6.5	5.5	6.5	5.6		5.4			4.2		
20.0	7.5	6.9	6.7	7.0	5.9	5.2	6.0	5.0		5.0			4.0		
22.0	7.1	6.7		6.3	5.5	4.9	5.5	4.6		4.6	3.9		3.7		
24.0				5.7	5.1	4.6	4.9	4.2		4.3	3.6		3.5	3.1	
26.0				5.2	4.7	4.4	4.5	3.9	3.5	3.8	3.3		3.3	2.9	
28.0				4.7	4.5		4.1	3.6	3.3	3.5	3.0		3.1	2.6	
30.0							3.7	3.4	3.1	3.2	2.8		2.8	2.4	
32.0							3.4	3.2	3.0	2.9	2.6	2.4	2.5	2.2	
34.0							3.2	3.0		2.7	2.4	2.2	2.3	2.1	
36.0							2.9			2.5	2.3	2.1	2.1	1.9	1.7
38.0										2.3	2.2	2.0	2.0	1.8	1.6
40.0										2.1	2.0		1.8	1.7	1.5
44.0													1.5	1.5	1.4
48.0													1.3	1.3	

Tragfähigkeiten
Lifting capacities
Capacités de levage
Capacidades de elevación

														DIN/ISO/EN	
 m	68.0 m + 13.2 m			68.0 m + 19.2 m			68.0 m + 25.2 m			68.0 m + 31.2 m			68.0 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°		
14.0	6.5														
16.0	6.5			4.6											
18.0	6.4			4.6											
20.0	6.3	5.9		4.6			3.6			2.8				2.3	
22.0	6.2	5.9		4.6			3.6			2.8				2.3	
24.0	6.1	5.8	5.4	4.6	4.6		3.6			2.8				2.3	
26.0	6.0	5.6	5.2	4.6	4.6		3.6			2.8				2.3	
28.0	5.9	5.4	5.0	4.6	4.4		3.6	3.6		2.8				2.3	
30.0	5.7	5.2	4.9	4.6	4.3	3.9	3.6	3.6		2.8				2.3	
32.0	5.5	5.0	4.7	4.6	4.1	3.8	3.6	3.4		2.8				2.3	
34.0	5.3	4.8	4.6	4.5	4.0	3.7	3.6	3.3		2.8	2.7			2.3	
36.0	5.2	4.7	4.5	4.5	4.3	3.9	3.6	3.2	3.0	2.8	2.6			2.3	
38.0	4.9	4.5	4.3	4.2	3.8	3.5	3.5	3.1	2.9	2.8	2.6			2.3	
40.0	4.3	4.4	4.2	4.0	3.6	3.4	3.4	3.0	2.8	2.8	2.5			2.3	
44.0	3.1	3.7	4.0	3.5	3.4	3.2	3.2	2.8	2.6	2.7	2.3	2.1		2.2	
48.0	2.2	2.7	3.1	2.5	3.2	3.1	2.6	2.7	2.5	2.5	2.2	2.0		2.1	
52.0	1.4	1.9	2.2	1.7	2.4	2.9	1.8	2.5	2.4	1.9	2.0	1.9		1.9	
56.0			1.4		1.6	2.0	1.2	1.9	2.3	1.2	1.9	1.8		1.3	
60.0						1.3		1.3	1.8		1.5	1.7			
64.0											1.5	1.7			

														DIN/ISO/EN	
 m	63.4 m + 13.2 m			63.4 m + 19.2 m			63.4 m + 25.2 m			63.4 m + 31.2 m			63.4 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	
14.0	7.5			5.2			4.0			3.2					
16.0	7.3			5.2			4.0			3.2					
18.0	7.2			5.2			4.0			3.2				2.5	
20.0	7.0	6.7		5.2			4.0			3.2				2.5	
22.0	6.9	6.4		5.2	5.2		4.0			3.2				2.5	
24.0	6.8	6.2	5.7	5.2	5.1		4.0			3.2				2.5	
26.0	6.7	6.0	5.5	5.2	4.9		4.0	4.0		3.2				2.5	
28.0	6.4	5.8	5.4	5.2	4.7		4.0	3.9		3.2				2.5	
30.0	6.2	5.6	5.2	5.2	4.5	4.2	4.0	3.8		3.2	3.0			2.5	
32.0	5.9	5.4	5.0	5.0	4.4	4.1	4.0	3.6		3.2	3.0			2.5	
34.0	5.7	5.2	4.9	4.8	4.3	3.9	4.0	3.5	3.2	3.2	2.9			2.5	2.1
36.0	5.5	5.0	4.8	4.6	4.1	3.8	3.9	3.4	3.1	3.2	2.8			2.5	2.1
38.0	5.1	4.9	4.6	4.5	4.0	3.7	3.8	3.3	3.0	3.2	2.7			2.4	2.0
40.0	4.4	4.7	4.5	4.3	3.9	3.6	3.7	3.2	3.0	3.1	2.6	2.4		2.4	2.0
44.0	3.2	3.8	4.2	3.4	3.7	3.4	3.4	3.0	2.8	2.8	2.4	2.3		2.3	1.9
48.0	2.3	2.8	3.1	2.5	3.2	3.3	2.8	2.8	2.7	2.7	2.3	2.1		2.2	1.8
52.0	1.5	1.9	2.2	1.7	2.3	2.8	2.0	2.7	2.5	2.0	2.2	2.0		2.1	1.7
56.0		1.2	1.4		1.6	1.9	1.3	2.0	2.4	1.4	2.0	1.9		1.4	1.6
60.0						1.2		1.4	1.8		1.6	1.8			1.5
64.0									1.2		1.5	1.7			1.2

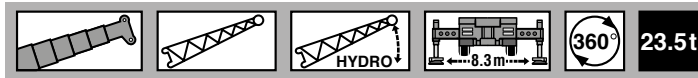
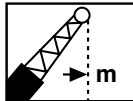
Tragfähigkeiten
Lifting capacities
Capacités de levage
Capacidades de elevación

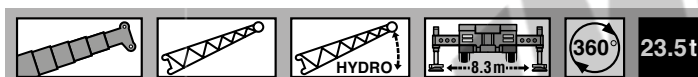
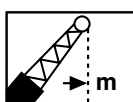


m	34.1 m + 13.2 m			34.1 m + 19.2 m			34.1 m + 25.2 m			34.1 m + 31.2 m			34.1 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
6.0	17.9														
7.0	17.2			13.1											
8.0	16.4			13.1			8.9								
9.0	15.8			13.1			8.9			5.7					
10.0	15.1			12.9			8.9			5.7			4.1		
11.0	14.5	10.4		12.6			8.9			5.7			4.1		
12.0	14.0	10.2		12.3			8.9			5.7			4.1		
14.0	13.0	9.6		11.6			8.8			5.7			4.1		
16.0	12.1	9.1	7.6	10.9	8.2		8.4			5.7			4.1		
18.0	11.4	8.7	7.3	10.3	7.8		7.9			5.7			4.1		
20.0	10.7	8.3	7.1	9.7	7.4	5.8	7.5	5.7		5.7			4.1		
22.0	10.1	8.0	6.9	9.1	7.1	5.6	7.1	5.4		5.4			4.1		
24.0	9.6	7.7	6.8	8.7	6.8	5.4	6.7	5.2		5.2	4.1		3.9		
26.0	9.1	7.5	6.6	8.2	6.5	5.2	6.3	5.0		5.0	3.9		3.8		
28.0	8.7	7.2	6.5	7.8	6.2	5.0	6.0	4.8	3.8	4.7	3.7		3.6		
30.0	7.5	7.0	6.4	7.5	5.9	4.9	5.7	4.6	3.7	4.5	3.6		3.4	2.8	
32.0	6.4	6.8	6.3	7.0	5.6	4.7	5.5	4.4	3.5	4.3	3.4	2.7	3.3	2.7	
34.0	5.4	6.1	6.3	6.1	5.4	4.6	5.2	4.2	3.4	4.1	3.3	2.6	3.2	2.6	
36.0	4.6	5.2	5.6	5.2	5.2	4.5	5.0	4.0	3.3	3.9	3.1	2.5	3.0	2.5	
38.0	3.8	4.4		4.5	4.9	4.4	4.8	3.8	3.2	3.8	2.9	2.4	2.9	2.4	1.8
40.0	3.2	3.6		3.8	4.6	4.3	4.4	3.6	3.1	3.6	2.8	2.3	2.8	2.2	1.8
44.0	2.1			2.7	3.3		3.3	3.4	3.0	3.2	2.6	2.2	2.6	2.0	1.6
48.0				1.8	2.2		2.4	3.0	2.9	2.7	2.4	2.1	2.3	1.8	1.5
52.0							1.6	2.0		1.9	2.2	2.0	2.0	1.7	1.4
56.0										1.2	1.8		1.5	1.5	1.4
60.0													1.4	1.4	1.3



m	13.2 m + 13.2 m			13.2 m + 19.2 m			13.2 m + 25.2 m			13.2 m + 31.2 m			13.2 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	18.0														
3.5	18.0			16.0											
4.0	18.0			15.7			10.4								
4.5	17.4			15.4			10.4								
5.0	16.7			15.0			10.4			6.4					
6.0	15.4			14.3			10.4			6.4			4.6		
7.0	14.4	11.5		13.6			10.4			6.4			4.6		
8.0	13.4	10.9		13.0			10.4			6.4			4.6		
9.0	12.6	10.3		12.4			10.0			6.4			4.6		
10.0	11.9	9.8		11.7			9.5			6.4			4.6		
11.0	11.2	9.4		11.1	9.0		9.0			6.4			4.6		
12.0	10.6	9.0	7.9	10.5	8.6		8.6			6.4			4.6		
14.0	9.6	8.3	7.4	9.5	7.9		7.8			6.3			4.6		
16.0	8.8	7.8	7.1	8.7	7.1	5.9	7.1	6.0		5.8			4.5		
18.0	8.1	7.3	6.8	7.8	6.5	5.5	6.5	5.6		5.4			4.2		
20.0	7.5	6.9	6.7	7.0	5.9	5.2	6.0	5.0		5.0			4.0		
22.0	7.1	6.7		6.3	5.5	4.9	5.5	4.6		4.6	3.9		3.7		
24.0				5.7	5.1	4.6	4.9	4.2		4.3	3.6		3.5	3.1	
26.0				5.2	4.7	4.4	4.5	3.9	3.5	3.8	3.3		3.3	2.9	
28.0				4.7	4.5		4.1	3.6	3.3	3.5	3.0		3.1	2.6	
30.0							3.7	3.4	3.1	3.2	2.8		2.8	2.4	
32.0							3.4	3.2	3.0	2.9	2.6	2.4	2.5	2.2	
34.0							3.2	3.0		2.7	2.4	2.2	2.3	2.1	
36.0							2.9			2.5	2.3	2.1	2.1	1.9	1.7
38.0										2.3	2.2	2.0	2.0	1.8	1.6
40.0										2.1	2.0		1.8	1.7	1.5
44.0													1.5	1.5	1.4
48.0													1.3	1.3	

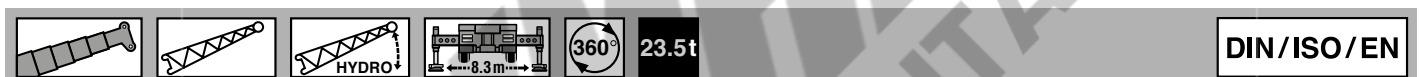
 DIN/ISO/EN														
 m	68.0 m + 13.2 m			68.0 m + 19.2 m			68.0 m + 25.2 m			68.0 m + 31.2 m			68.0 m + 37.2 m	
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°			0°	
14.0	6.5													
16.0	6.5			4.6										
18.0	6.4			4.6										
20.0	6.3	5.9		4.6			3.6			2.8			2.3	
22.0	6.2	5.9		4.6			3.6			2.8			2.3	
24.0	6.1	5.8	5.4	4.6	4.6		3.6			2.8			2.3	
26.0	6.0	5.6	5.2	4.6	4.6		3.6			2.8			2.3	
28.0	5.9	5.4	5.0	4.6	4.4		3.6	3.6		2.8			2.3	
30.0	5.7	5.2	4.9	4.6	4.3	3.9	3.6	3.6		2.8			2.3	
32.0	4.9	5.0	4.7	4.6	4.1	3.8	3.6	3.4		2.8			2.3	
34.0	4.1	4.8	4.6	4.5	4.0	3.7	3.6	3.3		2.8			2.3	
36.0	3.4	4.2	4.5	3.8	3.9	3.6	3.6	3.2	3.0	2.8			2.3	
38.0	2.8	3.5	4.1	3.1	3.8	3.5	3.3	3.1	2.9	2.8			2.3	
40.0	2.2	2.9	3.4	2.6	3.5	3.4	2.7	3.0	2.8	2.7			2.3	
44.0	1.3	1.9	2.3	1.6	2.5	3.1	1.7	2.8	2.6	1.8			1.9	
48.0			1.4		1.6	2.1		1.9	2.5					
52.0						1.3		1.2	1.8					

 DIN/ISO/EN														
 m	63.4 m + 13.2 m			63.4 m + 19.2 m			63.4 m + 25.2 m			63.4 m + 31.2 m			63.4 m + 37.2 m	
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°		0°	
14.0	7.5			5.2										
16.0	7.3			5.2			4.0			3.2				
18.0	7.2			5.2			4.0			3.2			2.5	
20.0	7.0	6.7		5.2			4.0			3.2			2.5	
22.0	6.9	6.4		5.2	5.2		4.0			3.2			2.5	
24.0	6.8	6.2	5.7	5.2	5.1		4.0			3.2			2.5	
26.0	6.7	6.0	5.5	5.2	4.9		4.0	4.0		3.2			2.5	
28.0	6.4	5.8	5.4	5.2	4.7		4.0	3.9		3.2			2.5	
30.0	6.0	5.6	5.2	5.2	4.5	4.2	4.0	3.8		3.2	3.0		2.5	
32.0	5.0	5.4	5.0	5.0	4.4	4.1	4.0	3.6		3.2	3.0		2.5	
34.0	4.2	5.0	4.9	4.4	4.3	3.9	4.0	3.5	3.2	3.2	2.9		2.5	
36.0	3.5	4.3	4.8	3.7	4.1	3.8	3.9	3.4	3.1	3.2	2.8		2.5	
38.0	2.9	3.6	4.1	3.1	4.0	3.7	3.4	3.3	3.0	3.2	2.7		2.4	
40.0	2.3	3.0	3.5	2.5	3.4	3.6	2.8	3.2	3.0	2.9	2.6		2.4	
44.0	1.4	1.9	2.4	1.6	2.4	3.0	1.9	2.9	2.8	1.9	2.4		2.0	
48.0			1.4		1.5	2.0		2.0	2.7		2.3		1.2	
52.0						1.2		1.3	1.9		1.5			
56.0									1.2					

Tragfähigkeiten
Lifting capacities
Capacités de levage
Capacidades de elevación



m	34.1 m + 13.2 m			34.1 m + 19.2 m			34.1 m + 25.2 m			34.1 m + 31.2 m			34.1 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
6.0	17.9														
7.0	17.2			13.1											
8.0	16.4			13.1			8.9								
9.0	15.8			13.1			8.9			5.7					
10.0	15.1			12.9			8.9			5.7			4.1		
11.0	14.5	10.4		12.6			8.9			5.7			4.1		
12.0	14.0	10.2		12.3			8.9			5.7			4.1		
14.0	13.0	9.6		11.6			8.8			5.7			4.1		
16.0	12.1	9.1	7.6	10.9	8.2		8.4			5.7			4.1		
18.0	11.4	8.7	7.3	10.3	7.8		7.9			5.7			4.1		
20.0	10.7	8.3	7.1	9.7	7.4	5.8	7.5	5.7		5.7			4.1		
22.0	10.1	8.0	6.9	9.1	7.1	5.6	7.1	5.4		5.4			4.1		
24.0	8.5	7.7	6.8	8.7	6.8	5.4	6.7	5.2		5.2	4.1		3.9		
26.0	7.0	7.5	6.6	7.7	6.5	5.2	6.3	5.0		5.0	3.9		3.8		
28.0	5.7	6.8	6.5	6.4	6.2	5.0	6.0	4.8	3.8	4.7	3.7		3.6		
30.0	4.6	5.6	6.3	5.4	5.9	4.9	5.7	4.6	3.7	4.5	3.6		3.4	2.8	
32.0	3.7	4.6	5.2	4.4	5.6	4.7	5.1	4.4	3.5	4.3	3.4	2.7	3.3	2.7	
34.0	2.9	3.7	4.1	3.6	4.7	4.6	4.3	4.2	3.4	4.1	3.3	2.6	3.2	2.6	
36.0	2.3	2.9	3.2	2.9	3.9	4.5	3.6	4.0	3.3	3.9	3.1	2.5	3.0	2.5	
38.0	1.7	2.2		2.3	3.2	3.8	2.9	3.8	3.2	3.3	2.9	2.4	2.9	2.4	1.8
40.0		1.5		1.8	2.5	3.1	2.4	3.5	3.1	2.7	2.8	2.3	2.8	2.2	1.8
44.0					1.4			1.4		2.3	2.6	2.2	2.1	2.0	1.6
48.0								1.3	1.8		1.9	2.1	1.3	1.8	1.5
52.0											1.6			1.6	1.4
56.0															1.4



m	13.2 m + 13.2 m			13.2 m + 19.2 m			13.2 m + 25.2 m			13.2 m + 31.2 m			13.2 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	18.0														
3.5	18.0			16.0											
4.0	18.0			15.7			10.4								
4.5	17.4			15.4			10.4								
5.0	16.7			15.0			10.4			6.4					
6.0	15.4			14.3			10.4			6.4			4.6		
7.0	14.4	11.5		13.6			10.4			6.4			4.6		
8.0	13.4	10.9		13.0			10.4			6.4			4.6		
9.0	12.6	10.3		12.4			10.0			6.4			4.6		
10.0	11.9	9.8		11.7			9.5			6.4			4.6		
11.0	11.2	9.4		11.1	9.0		9.0			6.4			4.6		
12.0	10.6	9.0	7.9	10.5	8.6		8.6			6.4			4.6		
14.0	9.6	8.3	7.4	9.5	7.9		7.8			6.3			4.6		
16.0	8.8	7.8	7.1	8.7	7.1	5.9	7.1	6.0		5.8			4.5		
18.0	8.1	7.3	6.8	7.8	6.5	5.5	6.5	5.6		5.4			4.2		
20.0	7.5	6.9	6.7	7.0	5.9	5.2	6.0	5.0		5.0			4.0		
22.0	7.1	6.7		6.3	5.5	4.9	5.5	4.6		4.6	3.9		3.7		
24.0				5.7	5.1	4.6	4.9	4.2		4.3	3.6		3.5	3.1	
26.0				5.2	4.7	4.4	4.5	3.9	3.5	3.8	3.3		3.3	2.9	
28.0				4.7	4.5		4.1	3.6	3.3	3.5	3.0		3.1	2.6	
30.0							3.7	3.4	3.1	3.2	2.8		2.8	2.4	
32.0							3.4	3.2	3.0	2.9	2.6	2.4	2.5	2.2	
34.0							3.2	3.0		2.7	2.4	2.2	2.3	2.1	
36.0							2.9			2.5	2.3	2.1	2.1	1.9	1.7
38.0										2.3	2.2	2.0	2.0	1.8	1.6
40.0										2.1	2.0		1.8	1.7	1.5
44.0													1.5	1.5	1.4
48.0													1.3	1.3	



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Anmerkungen zu den Traglasttabellen
 Remarks relating to the rating charts
 Remarques relatives aux tableaux des charges
 Notas relativas a los graficos de carga

DIN/ISO/EN

Anmerkungen zu den Traglasttabellen

Die Tragfähigkeiten im Festigkeitsbereich basieren auf DIN 15018 Blatt 2 und Blatt 3 und F.E.M.

Die Tragfähigkeiten im Standsicherheitsbereich entsprechen DIN 15019 Teil 2 / ISO 4305 / EN 13000.

In Abhängigkeit der Auslegerlänge sind bei den Traglasttabellen Windgeschwindigkeiten von 7 m/s bis max. 10 m/s zulässig.

Die Tragfähigkeiten sind in metrischen Tonnen angegeben.

Das Gewicht des Lasthakens bzw. der Hakenflasche und weiterer Anschlagmittel ist von der Tragfähigkeit abzuziehen.

Die Tragfähigkeiten für den Teleskopausleger gelten nur bei demontierter Auslegerverlängerung.

Die Ausladung ist der horizontale Abstand von Mitte Drehkranz bis Mitte freihängender, nicht schwingender Last.

Tragfähigkeitsänderungen vorbehalten.

Obige Angaben dienen nur zur Information. Die Bedienungsanleitungen müssen zu Rate gezogen werden, bevor die Maschine in Betrieb genommen wird. Alle hier gemachten Angaben beziehen sich auf die Standard-Ausführung. Jegliche Ausrüstungsveränderungen können die angegebenen Werte beeinflussen.

Remarks relating to the rating charts

The lifting capacities in the structural area are based on DIN 15018 parts 2 and 3 and F.E.M.

The lifting capacities in the stability area are based on DIN 15019 part 2 / ISO 4305 / EN 13000.

Maximum admissible wind velocity for working with telescopic boom is 10 m/sec to 7 m/sec depending at boom length and for working with fly jib 7 m/sec.

The lifting capacities are shown in metric tons.

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.

The lifting capacities for the telescopic boom apply to a crane with no boom extensions being stowed or mounted on the crane.

The working radius is the horizontal distance from the centre of rotation to the centre of the freely suspended non-oscillating load.

The lifting capacities are subject to change without prior notice.

The above remarks are for basic information only and the operator's manual must be consulted before operating this crane. All data and performances refer to the standard crane. The addition of optional and other equipment may affect the performance of the crane.

Remarques relatives aux tableaux des charges

Les forces de levage sont conformes aux normes DIN 15018, p. 2 et 3, et F.E.M.

Les forces de levage dans la partie de stabilité au renversement sont conformes aux normes DIN 15019, chap. 2 / ISO 4305 / EN 13000.

Des vitesses de vent sont admissibles entre 7 m/s jusqu'à max 10 m/s en fonction de la longueur de flèche.

Les forces de levage sont données en tonnes métriques.

Le poids du crochet-moufle et de tous les accessoires d'élingage font partie de la charge et sont à déduire des charges indiquées.

Les forces de levage indiquées pour la flèche télescopique s'entendent fléchette déposée.

Comme portée, on entend la distance horizontale du centre de la couronne de rotation au centre de la charge librement suspendue et non oscillante.

Sauf modification de forces de levage.

Les données ci-dessus servent à titre d'information. Avant la mise en marche de la grue il est conseillé d'étudier les instructions de service. Toutes les données indiquées ci-dessus se réfèrent à la machine de base. Tout changement de l'équipement de la grue peut influencer ces valeurs.

Notas relativas a los graficos de carga

En cuanto a los datos referentes a resistencia, las capacidades de carga están basados sobre las normas DIN 15018, pág. 2 y 3, y F.E.M.

En cuanto a los datos referentes a estabilidad anti-vuelco, las capacidades de carga están basados sobre las normas DIN 15019, Cap. 2 / ISO 4305 / EN 13000.

En independencia a la longitud de la pluma, están toleradas velocidades de viento de entre 7 m/s y 10 m/s.

Las capacidades de carga indicadas en las tablas corresponden a toneladas métricas.

Hay que deducir los pesos del gancho, eslingas y de otros dispositivos para fijación de cargas de los valores indicados en las tablas.

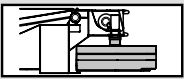
Las capacidades de carga referentes a la pluma telescópica valen solamente si el plumín está desmontada.

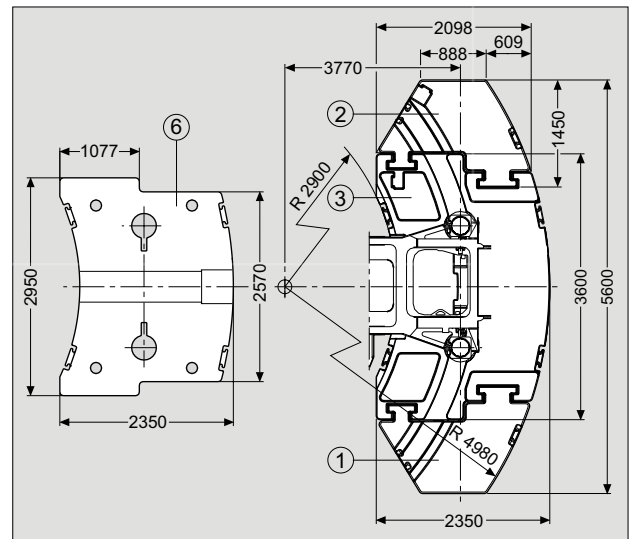
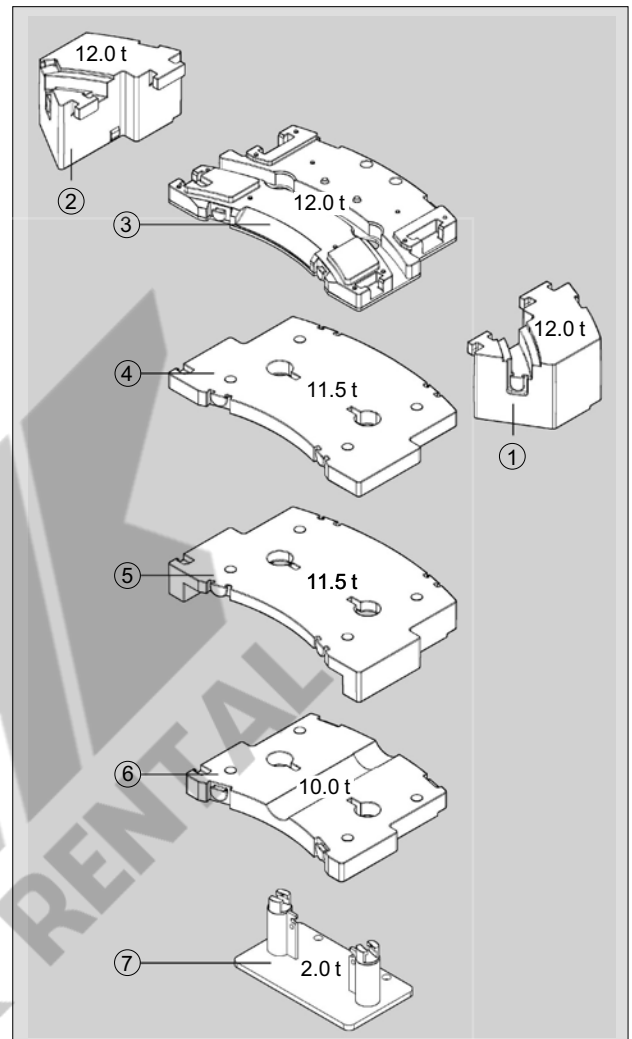
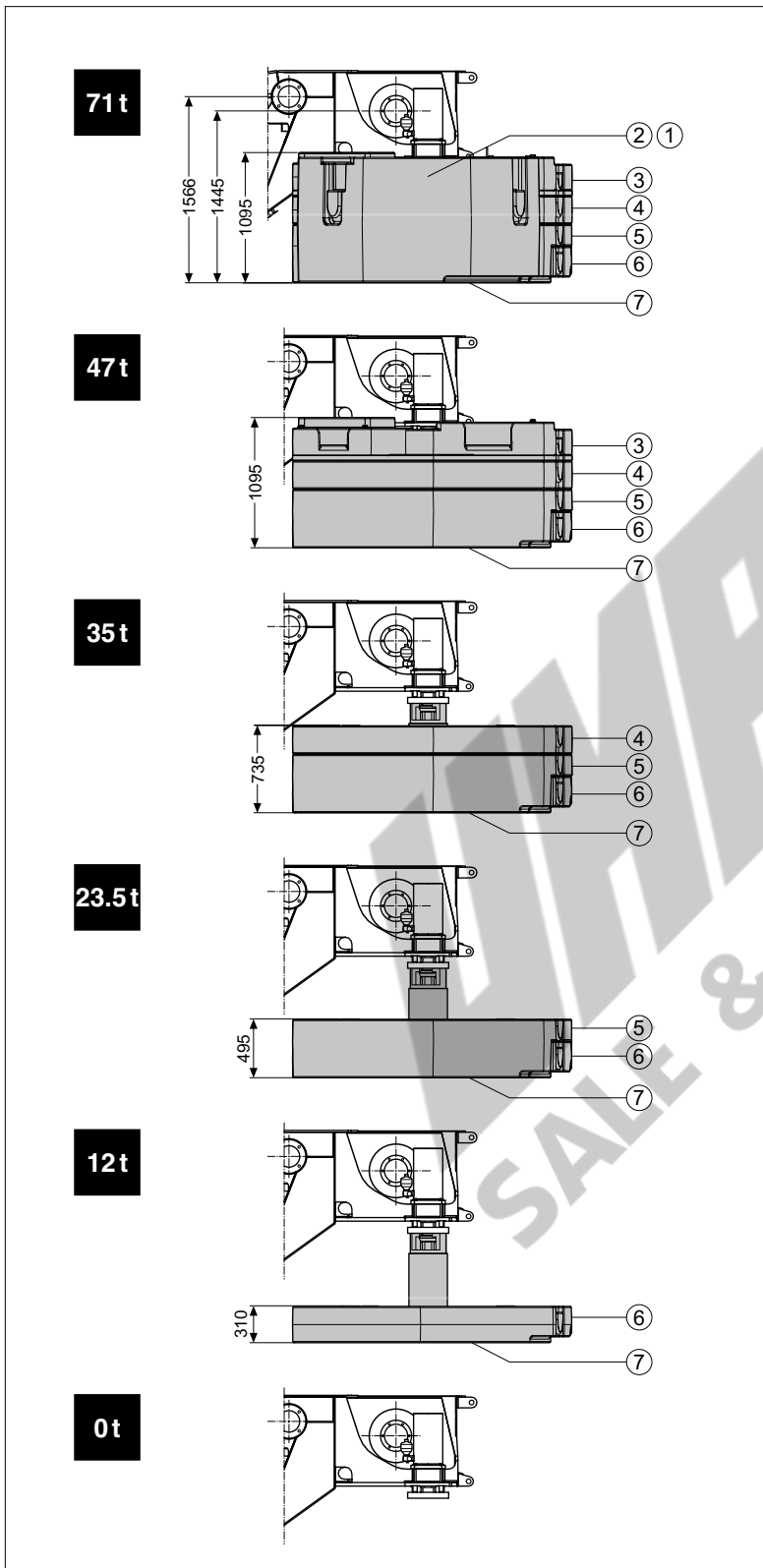
Como alcance se entiende la distancia horizontal desde el centro de la corona de giro hasta el centro de la carga suspendida libremente y no oscilante.

Salvo modificación de capacidades de carga, sin previo aviso.

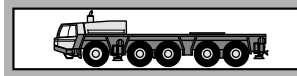
Los datos arriba indicados sirven solamente para su información. Hay que leer las instrucciones para el uso antes de la puesta en servicio de la máquina. Todos los datos mencionados en las presentes tablas rigen para los modelos standard. Cualquier modificación del equipo montado puede dar lugar a modificaciones de aquellos valores.

Gegengewichtvarianten
Counterweight versions
Variations des contrepoids
Variaciones de contrapeso

 Gegengewicht / Counterweight Contrepoids / Contrapeso	①	②	③	④	⑤	⑥	⑦
	(t)	12.0	12.0	12.0	11.5	11.5	10.0



Ausrüstung



Rahmen Verwindungs- und biegesteife Schweißkonstruktion aus hochfestem Feinkornstahl. Zentralschmieranlage.

Abstützung 4-Punkt-Abstützung, hydraulisch, Bedienungsmöglichkeiten an beiden Seiten des Fahrgestelles und in der Oberwagenkabine. Abstützbasis 8,3 m (und 5,6 m) x 9,01 m.

Motor Mercedes-Benz 8-Zylinder-Dieselmotor OM 502 LA (Euromot III B / EPA Tier 4i), wassergekühlt, Leistung 405 kW (551 PS) bei 1800 min⁻¹. Drehmoment 2600 Nm (265 kpm) bei 1300 min⁻¹. Motorleistung nach 80 / 1269 / EWG. Kraftstoffbehälter 540 l. AdBlue-Behälter 40 l.

Getriebe ZF-AS-Tronic 16 AS 2602 mechanisches Schaltgetriebe mit elektronisch-pneumatisch betätigter Trockenkupplung und vollautomatischer Schaltung mit 16 Vorwärts- und 2 Rückwärtsgängen. Power / Economy Modus.

Verteilergetriebe 2-stufiges Verteilergetriebe.

Antrieb 10 x 8 (10 x 6 Optional*)

Achsen

1. Achse: gelenkt, angetrieben (*nicht angetrieben), Differentialsperre quer.
2. Achse: gelenkt, angetrieben, zuschaltbar, Differentialsperre quer.
3. Achse: gelenkt, nicht angetrieben.
4. Achse: gelenkt, angetrieben, Differentialsperre längs und quer.
5. Achse: gelenkt, angetrieben, Differentialsperre quer.

Achsaufhängung Hydropneumatische Federung mit Niveauregulierung.

Bremsen Druckluft-Zweikreis-Bremsanlage. Feststellbremse als Federspeicherbremse an der 2., 4. und 5. Achse wirkend. Intarder mit Bremsomat-Funktion und Konstantdrosselanlage mit Auspuffklappenbremse als Dauerbremse.

Räder 10-fach 385/95 R 25 (14.00 R 25).

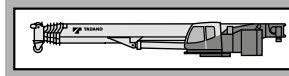
Lenkung ZF-Servocom-Zweikreishydraulenlenkung mit Notlenkpumpe. Mechanische Lenkung der 1. und 2. Achse und Mitlenken der 3. und 4. Achse bis zu einer Geschwindigkeit von 25 km/h und der 5. Achse bis zu einer Fahrgeschwindigkeit von 50 km/h.

Unterkabine Zwei-Mann-Frontfahrerhaus in Stahl-Kunststoff-Verbund-Konstruktion, Sicherheitsverglasung, luftgefederte Sitze (Fahrsitz mit Heizung) und motorabhängige Wasserheizung, Radio/CD-Player, Kontroll- und Bedienungselemente für den Fahrbetrieb, Tempomat- / Bremsomat-Funktion.

Elektrische Anlage 24 Volt-Gleichstrom, 2 Batterien, CAN-Bus System mit integriertem CSS-System zur Eigen-diagnose, Abstützfeldbeleuchtung. Die elektrische Anlage entspricht der EG-Norm.

Zusatzrüstung (gegen Mehrpreis) Anhängerkupplung, motorunabhängige Zusatzheizung mit Motorvorwärmung, Klimaanlage, ABS, 445/95 R 25 (16.00 R 25), 525/80 R 25 (20.5 R 25) Bereifung, Reserverad, Sonderlackierung und Beschriftung.

Weitere Zusatzrüstung auf Anfrage.



Rahmen Verwindungssteife Schweißkonstruktion mit einer außenverzahnten, einreihigen Kugeldrehverbindung, um 360° unbegrenzt drehbar. Zentralschmieranlage.

Motor Mercedes-Benz 4-Zylinder-Dieselmotor OM 924 LA (Euromot III B / EPA Tier 4i), wassergekühlt. Drehzahl ist über Fußpedal stufenlos regelbar, Leistung 143 kW (194 PS) bei 1800 min⁻¹. Drehmoment 800 Nm (82 kpm) bei 1200 - 1600 min⁻¹. Motorleistung nach 80 / 1269 / EWG. Kraftstoffbehälter 250 l. AdBlue-Behälter 8 l.

Hydraulik System Diesel-hydraulisch mit 3-Kreishydraulik, 1 Axialkolbendoppelpumpe, 1 Axialkolbenpumpe und 1 Zahnradpumpe, Ölkühler.

Steuerung Zwei 4-fach Kreuzsteuerhebel mit elektrischer Vorsteuerung.

Teleskopausleger Siebenteiliger Teleskopausleger aus hochfestem Feinkornstahl, bestehend aus einem Grundauleger und 6 Teleskopteilen, 1 Teleskopzylinder, hydraulisch unter Teillast teleskopierbar. 13,2 m - 68,0 m lang. Rollenkopf mit 7 Seilrollen.

Wippwerk Ein Differentialzylinder mit angebautem Senkbremssperrventil.

Hubwerk Axialkolben-Motor, Hubwerkstrommel mit eingebautem Planetengetriebe und federbelasteter Hydro-Lamellenbremse mit integriertem Freilauf beim Heben. Hubseil mit 'Super-Stop' Einrichtung.

Drehwerk Axialkolben-Motor, dreistufiges Planetengetriebe mit automatischer Betriebs- und Feststellbremse, geschlossener Hydraulikkreislauf mit Drehwerk-Freischaltung. Drehgeschwindigkeit stufenlos von 0 - 1,2 min⁻¹.

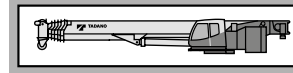
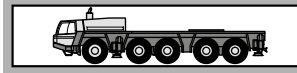
Gegengewicht Gesamtgewicht 71 t teilbar. Die Bedienung erfolgt aus der Oberwagenkabine.

Oberwagenkabine Großräumige Krankabine in Stahl-Kunststoffausführung mit Sicherheitsverglasung und getönten Scheiben, kippbarem Arbeitsplatz mit verstellbarem, hydraulisch gedämpftem Fahrersitz mit Heizung, motorabhängige und motorunabhängige Wasserheizung (mit Motorvorwärmung), Klimaanlage, Radio/CD-Player, Kontroll- und Bedienungselemente sowie graphische LCD-Anzeige für Kranbetrieb.

Elektrische Anlage 24 Volt-Gleichstrom, 2 Batterien.

Sicherheitseinrichtungen 'Lift Adjuster', Lastmomentbegrenzung (LMB), Windmesser, Arbeitsbereichsbegrenzung, Hubendschalter, Windenendschalter, Seilwindendrehmelder, Sicherheitsventile gegen Rohr- und Schlauchbrüche. Sperrventile an Hydraulik-Zylindern.

Zusatzrüstung (gegen Mehrpreis) Auslegerverlängerungen von 13,2 m bis 37,2 m, wahlweise abwinkelbar 0°, 20° und 40° oder hydraulisch 0° - 40°, Schwerlastspitze 5,4 m, Auslegerverlängerung HTLJ 8,5 m bis 21 m (hydraulisch abwinkel- und teleskopierbar 0° - 60°), Gegengewichtvarianten 12 t / 23,5 t / 35 t / 47 t, Unterflaschen von 10 t bis 160 t, 2. Hubwerk (wie Hauptwinde), Sonderlackierung und Beschriftung, Stützkraftanzeige. Weitere Zusatzrüstung auf Anfrage.



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

Outriggers 4 point, double telescopic hydraulic outriggers with controls on both sides of carrier and in superstructure cab. Outrigger base 8.3 m (5.6 m mid extension) x 9.01 m.

Carrier engine Mercedes-Benz 8 cylinder model OM 502 LA (Euromot III B / EPA Tier 4i), water-cooled diesel engine. Rated at 405 kW (551 HP) at 1800 min⁻¹. Torque 2600 Nm (265 kpm) at 1300 min⁻¹. Engine rating according to 80 / 1269 / EWG. Fuel tank 540 l. AdBlue-tank 40 l.

Transmission ZF-AS-Tronic 16 AS 2602 mechanical transmission with electro-pneumatically operated dry-type clutch and automatic gear shifting with 16 forward gears and 2 reverse gears. Power / Economy modes.

Transfer Case Two stage.

Drive 10 x 8 (10 x 6 optional*)

Axles

1st axle: steered, driven (*not driven).

2nd axle: steered, driven.

3rd axle: steered, not driven.

4th axle: steered, driven, with longitudinal differential lock.

5th axle: steered, driven.

All driven axles with transverse differential locks.

Suspension Hydro-pneumatic with levelling adjustment.

Brake system Service brakes: dual circuit compressed air system. Parking brake: spring loaded type acting on 2nd, 4th and 5th axles. Auxiliary brakes: retarder with brake control, engine exhaust brake and constant throttle engine brake system.

Tyres (10) 385/95 R 25 (14.00 R 25).

Steering system ZF-Servocom, dual circuit hydraulic steering with emergency steering pump, mechanical hydraulically assisted steering of front two axles and automatic steering of the 3rd and 4th axle up to a travel speed of 25 km/h and of the 5th axle up to 50 km/h.

Carrier cab Two man full width cab of composite (steel sheet metal and fibre-glass) structure, with safety glass, air-cushioned adjustable seats (driver seat with heater) and engine dependent water heater, radio/CD-player, complete controls and instrumentation for road travel. Cruise control with hill braking feature functions.

Electrical system 24 volt DC system, 2 batteries, CAN-Bus system with CSS integrated self-diagnosis system, outrigger area lighting. Electrical system conforms with EEC regulations.

Optional Equipment (at extra charge)

Towing attachment, engine independent additional heater with engine pre-heat, air conditioning, ABS, 445/95 R 25 (16.00 R 25), 525/80 R 25 (20.5 R 25) tyres, spare wheel and tyre, special painting and lettering.

Further optional equipment available upon request.

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

Superstructure engine Mercedes-Benz 4 cylinder model OM 924 LA (Euromot III B / EPA Tier 4i), water cooled diesel engine. Rated at 143 kW (194 HP) at 1800 min⁻¹. Torque 800 Nm (82 kpm) at 1200 - 1600 min⁻¹. Engine rating according to 80 / 1269 / EWG. Fuel tank 250 l. AdBlue-tank 8 l.

Hydraulic system Three circuit diesel hydraulic system with 1 double axial piston pump, 1 axial piston pump and 1 gear pump, oil cooler.

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

Telescopic boom 7 sections, made of high tensile, fine-grained steel, consisting of 1 base section and 6 telescoping sections extended by means of a single telescopic cylinder. All telescope sections extendable under partial load. 13.2 m to 68.0 m long. Boom head with 7 sheaves.

Derricking system 1 double acting hydraulic cylinder with integral brake and holding valve.

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

Slewing system Axial piston motor with three-stage planetary gear equipped with automatic service and a parking brake. Closed hydraulic circuit with free slewing function. Speed infinitely variable 0 - 1.2 min⁻¹.

Counterweight Total 71 t divisible, assembled and disassembled by hydraulic cylinders controlled from superstructure cab.

Superstructure cab Spacious panoramic cab of composite structure with safety (tinted) glass windows, tiltable cockpit with hydraulically cushioned adjustable seat with heater, engine dependent water heater engine independent water heater (with engine pre-heat), air conditioning, radio/CD-player. Complete controls and instrumentation plus LCD graphic display for crane operation.

Electrical system 24 volt DC system, 2 batteries.

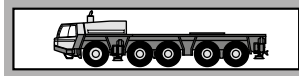
Safety devices 'Lift Adjuster', load moment device (LMD), anemometer, working area limiter, hoist limit switch, lower limit switch and drum turn indicator, safety valves against pipe and hose rupture, holding valves on hydraulic cylinders.

Optional Equipment (at extra charge)

Boom extensions 13.2 m to 37.2 m, offsets 0°, 20° and 40° or hydraulically 0°- 40°, heavy duty jib 5.4 m, boom extensions HTLJ 8.5 m to 21 m (hydraulically offsets and telescopic 0° - 60°), counterweight variations 12 t / 23.5 t / 35 t / 47 t, selection of hook blocks 10 t - 160 t, auxiliary winch (same as main winch), special painting and lettering, outrigger load display.

Further optional equipment available upon request.

Équipement



Châssis Construction mécanosoudée, en acier à grain fin très rigide, résistant aux flexions et aux torsions. Graissage centralisé.

Calage Dispositif de calage horizontal et vertical en 4 points, entièrement déployable hydrauliquement. Commande des mouvements sur les deux côtés du porteur et depuis la cabine de la superstructure. Calage 8,3 m (aussi 5,6 m) x 9,01 m.

Moteur Mercedes Benz diesel 8 cylindres, modèle OM 502 LA (Euromot III B / EPA Tier 4i), refroidi par eau, de 405 kW (551 CV) à 1800 min⁻¹. Couple: 2600 Nm (265 kpm) à 1300 min⁻¹. Puissance selon 80 / 1269 / EWG. Capacité du réservoir 540 l. AdBlue-capacité du réservoir 40 l.

Boîte de vitesse Boîte mécanique ZF-AS-Tronic, modèle 16 AS 2602 avec embrayage électro-pneumatique réglé à commande et boîte automatique, 16 vitesses AV et 2 vitesses AR. Mode max. performance / économique.

Boîte de transfert À 2 gammes.

Entraînement 10 x 8 (10 x 6 optionnel*)

Essieux

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

Suspension Hydro-pneumatique, avec réglage de niveau.

Freins Système à air comprimé, à double circuit. Frein de stationnement: avec accumulateurs à ressort agissant sur le 2^{ème}, 4^{ème} et 5^{ème} essieu. Freins continus: frein moteur par clapet sur échappement. Ralentisseur hydrodynamique Intarder.

Pneus 10 x 385/95 R 25 (14.00 R 25).

Direction Servocom à double circuit, marque ZF avec pompe de direction auxiliaire. Direction mécanique du 1^{er} et 2^{ème} essieu, à assistance hydraulique, avec pompe de direction auxiliaire direction du 3^{ème} et 4^{ème} essieu jusqu'à une vitesse de 25 km/h et du 5^{ème} essieu jusqu'à une vitesse de 50 km/h.

Cabine Cabine bi-place, construction en matière composite fibre de verre et acier. Vitrage en verre de sécurité, siège conducteur chauffant suspendu hydrauliquement. Chauffage à eau chaude relié au moteur, radio-CD/player. Organes de contrôle et de commande pour la conduite. Régulateur de vitesse, système automatique de freinage.

Système électrique 24 V courant continu, 2 batteries, connexion circuit électrique avec CAN-Bus. Équipement avec prise diagnostic et avec interprétation de code erreur de système CSS, éclairage des points de calage. Conforme aux normes CE.

Équipement supplémentaire (avec supplément de prix) Attache-remorque, chauffage auxiliaire indépendant du moteur avec préchauffage du moteur, climatisation, ABS, pneus 445/95 R 25 (16.00 R 25), 525/80 R 25 (20.5 R 25), roue de secours, peinture spéciale et inscription.

Autres équipements supplémentaires sur demande.

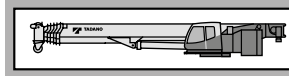


Plate forme Construction mécano-soudée résistante à la torsion. Couronne d'orientation à billes à une rangée, à denture extérieure, permettant une rotation illimitée sur 360°. Graissage centralisé.

Moteur Mercedes Benz diesel 4 cylindres, modèle OM 924 LA (Euromot III B / EPA Tier 4i), refroidi par eau. Réglage du nombre de tours par pédale, de 143 kW (194 CV) à 1800 min⁻¹. Couple: 800 Nm (82 kpm) à 1200 - 1600 min⁻¹. Puissance selon 80 / 1269 / EWG. Capacité du réservoir 250 l. AdBlue-capacité du réservoir 8 l.

Système hydraulique Diesel-hydraulique à 3 circuits, 1 double pompe à pistons axiaux, 1 pompe à pistons axiaux et 1 pompe à engreages, refroidisseur d'huile.

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

Flèche télescopique 1 flèche de base et 6 éléments télescopiques en acier fin, 1 vérin télescopique, hydrauliquement télescopable avec charge partielle. Longueur de 13,2 m à 68,0 m. Tête de flèche avec 7 poulies.

Mécanisme de relevage 1 vérin différentiel muni de clapet de freinage de descente.

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

Orientation Moteur hydraulique avec entraînement planétaire à 3 gammes avec frein de stationnement automatique, circuit fermé avec déconnexion de l'orientation. Vitesse de rotation 0 à 1,2 min⁻¹ en continu.

Contrepoids Poids total 71 t divisible, commandé depuis la cabine du grutier.

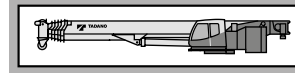
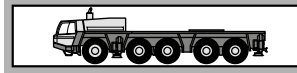
Cabine du grutier Cabine de grue spacieuse, construction en matière combinée acier / synthétique, avec vitrage de sécurité en verre teinté, siège chauffant, réglable et amorti hydrauliquement, inclinable avec instruments de commande, chauffage à eau chaude dépendant et indépendant du moteur (avec préchauffage du moteur), climatisation, radio/CD-player, éléments de commande et de contrôle avec affichage digital pour travaux.

Système électrique 24 V courant continu, 2 batteries.

Dispositifs de sécurité 'Lift Adjuster', limiteur de charge (CEC), anémomètre, limitation de zone de travail, interrupteur de fin de course de levage et de treuil, indicateur du nombre de tours, soupapes de sécurité contre ruptures des conduites et flexibles, clapets sur verins hydrauliques.

Équipement supplémentaire (avec supplément de prix) Fléchette de 13,2 m à 37,2 m mau choix inclinable 0°, 20° et 40° ou hydrauliquement 0° à 40°, fléchette pour levage lourde 5,4 m, Fléchette HTLJ de 8,5 m à 21 m (hydrauliquement inclinable et télescopable 0° - 60°), combinaison différentes de contrepoids 12 t / 23,5 t / 35 t / 47 t, mouffles de 10 t à 160 t, 2^{ème} treuil de levage (identique au treuil principale), peinture spéciale et inscription, indicateur de pression sur les calages.

Autres équipements supplémentaires sur demande.



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

Estabilizadores Estabilizadores hidráulicos de 4 puntos. Posibilidad de manejo desde ambos lados del chasis portante y desde la cabina de la grúa. Extensión de los estabilizadores: 8,3 m (y 5,6 m) x 9,01 m.

Motor Mercedes Benz modelo OM 502 LA (Euromot III B / EPA Tier 4i), 8 cilindros, diesel, refrigerado por agua. Nominal 405 kW (551 CV) a 1800 min⁻¹. Par 2600 Nm (265 kpm) a 1300 min⁻¹. Potencia del motor según 80 / 1269 / EWG. Depósito de combustible de 540 l. Depósito AdBlue 40 l.

Transmisión Transmisión mecánica tipo ZF-AS Tronic modelo 16 AS 2602 con accionamiento electro - neumático embrague en seco y cambio automático 16 marchas delanteras y 2 marchas traseras. Modo rendimiento máximo / económico.

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

Traacción 10 x 8 (10 x 6 como opción*)

Ejes

- 1º eje: de dirección, no accionado.
- 1º eje: de dirección, accionado (*no accionado), con bloqueo diferencial transversal.
- 2º eje: de dirección, accionado, conectar según necesidad, 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 Accionamiento neumático de doble circuito. Freno de estacionamiento del tipo muelles cargados, liberados por aire, sobre los ejes 2º, 4º y 5º. Intarder / sistema automático de frenado y freno continuo: Sistema estrangulador y sobre el escape del motor diesel.

Neumáticos 10 x 385/95 R 25 (14.00 R 25).

Dirección Hidráulica ZF Servocom de doble circuito con bomba auxiliar de dirección. Dirección mecánica del 1º y 2º eje y direccional del 3º y 4º eje hasta una velocidad de 25 km/h y del 5º eje hasta una velocidad de conducción de 50 km/h.

Cabina Cabina para dos personas, en construcción de acero y fibra de vidrio. Cristales de seguridad, asiento con suspensión neumática, asiento de conductor calefactado. Calefacción por agua caliente del motor, radio/CD-player. Elementos de control e instrumentos para circulación por carretera. Regulador de velocidad, sistema automático de frenado.

Sistema eléctrico Sistema de 24 V c.c. con dos baterías, conexiones eléctricas integradas en el sistema CAN-Bus, sistema integrado de diagnóstico CSS. Faros de trabajo en los estabilizadores. El sistema eléctrico cumple la normativa CEE.

Equipo adicional (con suplemento de precio) Embrague de remolque, calefacción adicional con precalefacción del motor, climatización, ABS, neumáticos 445/95 R 25 (16.00 R 25), 525/80 R 25 (20.5 R 25), rueda de repuesto, pintura especial y rotulación.

Otros equipamientos sobre pedido.

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

Motor Mercedes Benz modelo OM 924 LA (Euromot III B / EPA Tier 4i), 4 cilindros, diesel, refrigerado por agua. Las revoluciones aumentan de forma gradual accionando el acelerador. Nominal 143 kW (194 CV) a 1800 min⁻¹. Par 800 Nm (82 kpm) a 1200 - 1600 min⁻¹. Potencia del motor según 80 / 1269 / EWG. Depósito de combustible de 250 l. Depósito AdBlue 8 l.

Sistema hidráulico Sistema hidráulico de 3 circuitos, 1 bomba doble de pistones axiales, una bomba de pistones axiales y una bomba de ruedas dentadas, enfriador de aceite.

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

Pluma telescópica 7 secciones, un tramo base y 6 telescópicos de acero de alta resistencia soldado, 1 cilindro hidráulico, los tramos se pueden telescopar hidráulicamente bajo carga. Longitud de 13,2 m a 68,0 m. Cabeza de pluma con 7 poleas.

Elevación de pluma Mediante un cilindro hidráulico de doble efecto con válvula de retención integrada.

Cabrestante principal Motor hidráulico de pistones axiales y caudal fijo. Tambor del cabrestante con reducción planetaria y frenos de disco múltiples accionado, con sistema libre de elevación. Cable de elevación con sistema fácil de guiado y 'Super-Stop'.

Sistema de giro Motor hidráulico de pistones axiales con reducción planetaria de tres etapas. Con freno de giro automático de bloqueo. Circuito cerrado con mecanismo de giro libre con posibilidad de desconexión. Velocidad de giro gradual de 0 a 1,2 min⁻¹.

Contrapeso Peso total 71 t divisible, se acciona desde la cabina de la grúa.

Cabina de la grúa Cabina espaciosa y confortable, en construcción de acero y fibra de vidrio, con cristales tintados de seguridad. Asiento de operador regulable amortiguado hidráulicamente, inclinable junto con los instrumentos y mandos, asiento calefactado. Calefacción por agua caliente dependiente e independiente del motor (con precalefacción del motor), climatización, radio/CD-player. Controles, instrumentos y mandos de conducción como display digital LCD para la operación de la grúa.

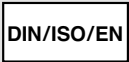
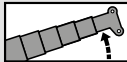
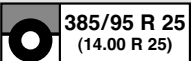
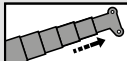
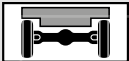
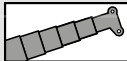
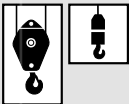








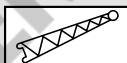


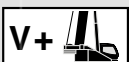
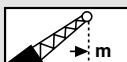

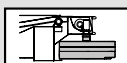



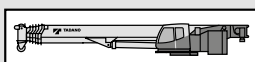
Sistema eléctrico Sistema de 24 V c.c. con dos baterías.

Medidas de seguridad 'Lift Adjuster', limitación del momento de carga (LMC), anemómetro, limitación del área de trabajo, interruptor de final de elevación, interruptor de 3 últimas vueltas en cabrestante, indicador de bajada o subida del cable del cabrestante, válvulas de seguridad para rotura de tubos y latiguillos. Válvulas de retención en los cilindros hidráulicos.

Equipo adicional (con suplemento de precio) Plumín de 13,2 m a 37,2 m regulable de 0°, 20° y 40° (o hidráulicamente 0° a 40°), plumín de carga pesada de 5,4 m, plumín HTLJ de 8,5 m a 21 m (hidráulicamente regulable y telescópico 0° 60°), variantes de contrapeso 12 t / 23,5 t / 35 t / 47 t, gancho de 10 a 160 t, 2º cabrestante (similar a cabrestante principal), pintura especial y rotulación, control carga (gatos de apoyo).

Otros equipamientos sobre pedido.

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 Symbols
 Glossaire des symboles
 Glosario de símbolos

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TADANO FAUN GmbH

Faunberg 2, 91207 Lauf a. d. Pegnitz, Germany
Phone: +49-9123-185-0 Fax: +49-9123-3085
<http://www.tadanofaun.de> E-mail: info@tadanofaun.de

TADANO LTD. (International Division)

4-12, Kamezawa 2-chome, Sumida-ku Tokyo 130-0014, Japan
Phone: 81-3-3621-7750 Fax: 81-3-3621-7785
<http://www.tadano-global.com> E-mail: tdnihq@tadano.co.jp