TADANO

TECHNICAL DATA | IMPERIAL

AC 5.140-1

160 US TONNE MAX. CRANE CAPACITY

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GENERAL TECHNICAL DATA

CARACTÉRISTIQUES TECHNIQUES GÉNÉRALES
DATOS TÉCNICOS GENERALES

Boom systems · Systèmes de flèche · Sistema de pluma

ft / m
347.7 / 106
341.2 / 104
334.6 / 102
328.1 / 100
321.5 / 98
315.0 / 96
308.4 / 94
301.8 / 92
295.3 / 90
288.7 / 88
282.2 / 86
275.6 / 84
269.0 / 82
262.5 / 80
255.9 / 78
249.3 / 76
242.8 / 74
236.2 / 72
229.7 / 70
223.1 / 68
216.5 / 66
210.0 / 64
203.4 / 62
196.9 / 60
190.3 / 58
183.7 / 56
177.2 / 54
170.6 / 52
164.0 / 50
157.5 / 48
150.9 / 46
144.4 / 44
137.8 / 42
131.2 / 40
124.7 / 38
118.1 / 36
111.5 / 34
105.0 / 32
98.4 / 30
91.9 / 28
85.3 / 26
78.7 / 24
72.2 / 22
65.6 / 20
59.1 / 18
52.5 / 16
45.9 / 14
39.4 / 12
32.8 / 10
26.2 / 8
19.7 / 6
13.1 / 4
6.6 / 2
0 / 0

Vehicle dimensions · Dimensions du véhicule · Dimensiones del vehículo

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

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

13.5' [4101]
3.6' [1092]
Ø 0.2' [50]
8.8' [2681]
32.3' [9854]
7.2' [2195]
5.6' [1700]
6.6' [2000]
5.4' [1650]
8.4' [2560]
8.5' [2576]
63.6' [19385]

TECHNICAL DATA FOR ON-ROAD AND OFF-ROAD DRIVING

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

Axle loads

Boom to front		TOTAL	1	2	3	4	5
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	**1. Standard equipment + 2. Optional equipment + 3. Others**	**122,278/ 55465**	**25,307/ 11479**	**25,315/ 11483**	**23,831/ 10810**	**23,943/ 10860**	**23,882/ 10833**
1. Standard Equipment	See page 52; no counterweight	109,096/ 49486	22,750/ 10319	23,376/ 10603	20,885/ 9473	21,084/ 9564	21,001/ 9526
2. Optional Equipment (selection)	Tyres 525/80R25 (20.50 R25) instead of 445/95R25 (16.00 R25)	1,506/ 683	300/ 136	300/ 136	303/ 137	302/ 137	302/ 137
	Drive 10x8 instead of Drive 10x6	883/ 400	744/ 337	137/ 62	1/ 0	1/ 0	1/ 0
	Towing hook at rear with couplings for lights and brake	76/ 34	-29/ -13	-29/ -13	46/ 21	44/ 20	45/ 20
	Toolbox at rear (without wood storage)	192/ 87	-83/ -38	-83/ -37	121/ 55	117/ 53	119/ 54
	Auxiliary winch including rope	3,257/ 1477	-1,461/ -663	-1,450/ -658	2,096/ 951	2,027/ 919	2,045/ 927
	Hose drum for hydraulic jib (detachable)	472/ 214	390/ 177	388/ 176	-104/ -47	-101/ -46	-101/ -46
	Hydraulic boom extension 3.3 ft / 1.0 m + 55.8 ft / 17.0 m	4,072/ 1847	2,614/ 1186	2,595/ 1177	-387/ -175	-374/ -170	-377/ -171
	Additional oil cooler	97/ 44	-7/ -3	-7/ -3	38/ 17	36/ 17	37/ 17
	Single top	141/ 64	149/ 67	148/ 67	-53/ -24	-51/ -23	-51/ -23
	Swivel hook 11 US / 10 t (in storage on carrier)	655/ 297	60/ 27	60/ 27	182/ 83	176/ 80	177/ 80
3. Others	Driver	225/ 102	181/ 82	179/ 81	-46/ -21	-44/ -20	-45/ -20
	Fuel in carrier	1,138/ 516	-237/ -107	-235/ -107	547/ 248	529/ 240	534/ 242
	Fuel in superstructure	468/ 213	-64/ -29	-63/ -29	202/ 92	196/ 89	198/ 90
Additional weight information	Hook block 35.3 US t / 32 t (transport position)	994/ 451	993/ 450	986/ 447	-335/ -152	-324/ -147	-326/ -148
	Hook block 69.4 US t / 63 t (transport position)	1,323/ 600	1,322/ 600	1,312/ 595	-446/ -202	-431/ -195	-435/ -197
	Counterweight No. 1; 6,834 lbs / 3.1 t (on carrier)	6,835/ 3101	2,356/ 1069	2,338/ 1061	728/ 330	704/ 319	710/ 322
	Counterweight No. 2; 8,818 lbs / 4.0 t (on carrier)	8,821/ 4001	3,040/ 1379	3,018/ 1369	939/ 426	908/ 412	916/ 415
	Counterweight No. 3; 5,071 lbs / 2.3 t (on carrier)	4,922/ 2233	1,696/ 769	1,683/ 764	524/ 238	507/ 230	512/ 232
	2x Counterweight No. 4; 6,614 lbs / 3.0 t (on carrier)	12,833/ 5821	4,399/ 1996	4,367/ 1981	1,382/ 627	1,336/ 606	1,348/ 612
	Counterweight No. 5; 22,046 lbs / 10.0 t (on carrier)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035
	Counterweight No. 6; 7,716 lbs / 3.5 t (on superstructure)	7,722/ 3502	-2,688/ -1219	-2,668/ -1210	4,445/ 2016	4,297/ 1949	4,336/ 1967
	Counterweight No. 8; 3,086 lbs / 1.4 t (on superstructure)	2,834/ 1285	-1,121/ -509	-1,113/ -505	1,722/ 781	1,665/ 755	1,680/ 762
	Counterweight No. 9; 3,307 lbs / 1.5 t (on superstructure)	3,304/ 1499	-1,405/ -637	-1,394/ -633	2,074/ 941	2,006/ 910	2,023/ 918

Axle loads

Boom over rear, supported by dolly (34.1 ft / 10.4 m behind boom pivot point)		TOTAL	1	2	3	4	5	
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	**1. Standard equipment + 2. Optional equipment + 3. Others**	**122,278/ 55465**	**20,841/ 9453**	**20,881/ 9471**	**18,390/ 8342**	**18,678/ 8472**	**18,570/ 8423**	**24,918/ 11303**
1. Standard Equipment	See page 52; no counterweight	109,096/ 49486	18,212/ 8261	18,870/ 8559	16,852/ 7644	17,182/ 7794	17,063/ 7740	20,918/ 9488
2. Optional Equipment (selection)	Tyres 525/80R25 (20.50 R25) instead of 445/95R25 (16.00 R25)	1,506/ 683	300/ 136	300/ 136	303/ 137	302/ 137	302/ 137	0/ 0
	Drive 10x8 instead of Drive 10x6	883/ 400	744/ 337	137/ 62	1/ 0	1/ 0	1/ 0	0/ 0
	Towing hook at rear with couplings for lights and brake	76/ 34	-29/ -13	-29/ -13	46/ 21	44/ 20	45/ 20	0/ 0
	Toolbox at rear (without wood storage)	192/ 87	-83/ -38	-83/ -37	121/ 55	117/ 53	119/ 54	0/ 0
	Auxiliary winch including rope	3,257/ 1477	1,455/ 660	1,445/ 655	121/ 55	117/ 53	118/ 54	0/ 0
	Hose drum for hydraulic jib (detachable)	472/ 214	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	470/ 213
	Hydraulic boom extension 3.3 ft / 1.0 m + 55.8 ft / 17.0 m	4,072/ 1847	177/ 80	176/ 80	122/ 55	118/ 54	119/ 54	3,360/ 1524
	Additional oil cooler	97/ 44	7/ 3	7/ 3	28/ 13	27/ 12	28/ 13	0/ 0
	Single top	141/ 64	-7/ -3	-7/ -3	-5/ -2	-5/ -2	-5/ -2	170/ 77
	Swivel hook 11 US / 10 t (in storage on carrier)	655/ 297	60/ 27	60/ 27	182/ 83	176/ 80	177/ 80	0/ 0
3. Others	Driver	225/ 102	181/ 82	179/ 81	-46/ -21	-44/ -20	-45/ -20	0/ 0
	Fuel in carrier	1,138/ 516	-237/ -107	-235/ -107	547/ 248	529/ 240	534/ 242	0/ 0
	Fuel in superstructure	468/ 213	62/ 28	62/ 28	117/ 53	113/ 51	114/ 52	0/ 0
Additional weight information	Hook block 35.3 US t / 32 t (hanging at main boom)	994/ 451	-57/ -26	-56/ -26	-39/ -18	-38/ -17	-38/ -17	1,222/ 554
	Hook block 69.4 US t / 63 t (hanging at main boom)	1,323/ 600	-76/ -34	-75/ -34	-52/ -24	-50/ -23	-51/ -23	1,627/ 738
	Counterweight No. 1; 6,834 lbs / 3.1 t (on carrier)	6,835/ 3101	2,356/ 1069	2,338/ 1061	728/ 330	704/ 319	710/ 322	0/ 0
	Counterweight No. 2; 8,818 lbs / 4.0 t (on carrier)	8,821/ 4001	3,040/ 1379	3,018/ 1369	939/ 426	908/ 412	916/ 415	0/ 0
	Counterweight No. 3; 5,071 lbs / 2.3 t (on carrier)	4,922/ 2233	1,696/ 769	1,683/ 764	524/ 238	507/ 230	512/ 232	0/ 0
	2x Counterweight No. 4; 6,614 lbs / 3.0 t (on carrier)	12,833/ 5821	4,399/ 1996	4,367/ 1981	1,382/ 627	1,336/ 606	1,348/ 612	0/ 0
	Counterweight No. 5; 22,046 lbs / 10.0 t (on carrier)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035	0/ 0
	Counterweight No. 6; 7,716 lbs / 3.5 t (on superstructure)	7,722/ 3502	2,662/ 1207	2,642/ 1199	822/ 373	794/ 360	801/ 364	0/ 0
	Counterweight No. 8; 3,086 lbs / 1.4 t (on superstructure)	2,834/ 1285	1,112/ 504	1,104/ 501	210/ 95	203/ 92	205/ 93	0/ 0
	Counterweight No. 9; 3,307 lbs / 1.5 t (on superstructure)	3,304/ 1499	1,394/ 632	1,383/ 628	179/ 81	173/ 79	175/ 79	0/ 0

Charges par essieu

Flèche vers l'avant		TOTAL	1	2	3	4	5
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	**1. Équipement standard + 2. équipement spécial + 3. autres**	**122,278/ 55465**	**25,307/ 11479**	**25,315/ 11483**	**23,831/ 10810**	**23,943/ 10860**	**23,882/ 10833**
1. Équipement standard	Voir page 53; sans contrepoids	109,096/ 49486	22,750/ 10319	23,376/ 10603	20,885/ 9473	21,084/ 9564	21,001/ 9526
2. Équipement spécial (sélection)	Pneus 525/80R25 (20.50 R25) au lieu de 445/95R25 (16.00 R25)	1,506/ 683	300/ 136	300/ 136	303/ 137	302/ 137	302/ 137
	Entraînement 10x8 au lieu de 10x6	883/ 400	744/ 337	137/ 62	1/ 0	1/ 0	1/ 0
	Crochet de remorquage pour chariot de transport, y compris accouplements pour éclairage et frein	76/ 34	-29/ -13	-29/ -13	46/ 21	44/ 20	45/ 20
	Boîte d'outillage à l'arrière de l'engin (sans boîte de rangement de bois)	192/ 87	-83/ -38	-83/ -37	121/ 55	117/ 53	119/ 54
	Treuil auxiliaire y compris câble métallique	3,257/ 1477	-1,461/ -663	-1,450/ -658	2,096/ 951	2,027/ 919	2,045/ 927
	Tambour de flexible pour rallonge de flèche hydraulique (détachable)	472/ 214	390/ 177	388/ 176	-104/ -47	-101/ -46	-101/ -46
	Rallonge de flèche hydraulique fixée 3.3 ft / 1.0 m + 55.8 ft / 17.0 m	4,072/ 1847	2,614/ 1186	2,595/ 1177	-387/ -175	-374/ -170	-377/ -171
	Radiateur supplémentaire	97/ 44	-7/ -3	-7/ -3	38/ 17	36/ 17	37/ 17
	Poulie simple	141/ 64	149/ 67	148/ 67	-53/ -24	-51/ -23	-51/ -23
	Moufle 11.0 US t / 10 t (déposée sur le châssis)	655/ 297	60/ 27	60/ 27	182/ 83	176/ 80	177/ 80
3. Autres	Conducteur	225/ 102	181/ 82	179/ 81	-46/ -21	-44/ -20	-45/ -20
	Carburant dans le châssis	1,138/ 516	-237/ -107	-235/ -107	547/ 248	529/ 240	534/ 242
	Carburant dans la superstructure	468/ 213	-64/ -29	-63/ -29	202/ 92	196/ 89	198/ 90
Poids supplémentaires	Moufle 35.3 US t / 32 t (position de transport)	994/ 451	993/ 450	986/ 447	-335/ -152	-324/ -147	-326/ -148
	Moufle 69.4 US t / 63 t (position de transport)	1,323/ 600	1,322/ 600	1,312/ 595	-446/ -202	-431/ -195	-435/ -197
	Contrepoids n° 1; 6,834 lbs / 3.1 t (sur châssis)	6,835/ 3101	2,356/ 1069	2,338/ 1061	728/ 330	704/ 319	710/ 322
	Contrepoids n° 2; 8,818 lbs / 4.0 t (sur châssis)	8,821/ 4001	3,040/ 1379	3,018/ 1369	939/ 426	908/ 412	916/ 415
	Contrepoids n° 3; 5,071 lbs / 2.3 t (sur châssis)	4,922/ 2233	1,696/ 769	1,683/ 764	524/ 238	507/ 230	512/ 232
	2x Contrepoids n° 4; 6,614 lbs / 3.0 t (sur châssis)	12,833/ 5821	4,399/ 1996	4,367/ 1981	1,382/ 627	1,336/ 606	1,348/ 612
	Contrepoids n° 5; 22,046 lbs / 10.0 t (sur châssis)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035
	Contrepoids n° 6; 7,716 lbs / 3.5 t (sur superstructure)	7,722/ 3502	-2,688/ -1219	-2,668/ -1210	4,445/ 2016	4,297/ 1949	4,336/ 1967
	Contrepoids n° 8; 3,086 lbs / 1.4 t (sur superstructure)	2,834/ 1285	-1,121/ -509	-1,113/ -505	1,722/ 781	1,665/ 755	1,680/ 762
	Contrepoids n° 9; 3,307 lbs / 1.5 t (sur superstructure)	3,304/ 1499	-1,405/ -637	-1,394/ -633	2,074/ 941	2,006/ 910	2,023/ 918

Charges par essieu

Flèche vers l'arrière, soutenue par chariot de transport "Dolly" (34.1 ft / 10.4 m derrière le point d'articulation de la flèche)		TOTAL	1	2	3	4	5	
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	**1. Équipement standard + 2. équipement spécial + 3. autres**	**122,278/ 55465**	**20,841/ 9453**	**20,881/ 9471**	**18,390/ 8342**	**18,678/ 8472**	**18,570/ 8423**	**24,918/ 11303**
1. Équipement standard	Voir page 53; sans contrepoids	109,096/ 49486	18,212/ 8261	18,870/ 8559	16,852/ 7644	17,182/ 7794	17,063/ 7740	20,918/ 9488
2. Équipement spécial (sélection)	Pneus 525/80R25 (20.50 R25) au lieu de 445/95R25 (16.00 R25)	1,506/ 683	300/ 136	300/ 136	303/ 137	302/ 137	302/ 137	0/ 0
	Entraînement 10x8 au lieu de 10x6	883/ 400	744/ 337	137/ 62	1/ 0	1/ 0	1/ 0	0/ 0
	Crochet de remorquage pour chariot de transport, y compris accouplements pour éclairage et frein	76/ 34	-29/ -13	-29/ -13	46/ 21	44/ 20	45/ 20	0/ 0
	Boîte d'outillage à l'arrière de l'engin (sans boîte de rangement de bois)	192/ 87	-83/ -38	-83/ -37	121/ 55	117/ 53	119/ 54	0/ 0
	Treuil auxiliaire y compris câble métallique	3,257/ 1477	1,455/ 660	1,445/ 655	121/ 55	117/ 53	118/ 54	0/ 0
	Tambour de flexible pour rallonge de flèche hydraulique (détachable)	472/ 214	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	470/ 213
	Rallonge de flèche hydraulique fixée 3.3 ft / 1.0 m + 55.8 ft / 17.0 m	4,072/ 1847	177/ 80	176/ 80	122/ 55	118/ 54	119/ 54	3,360/ 1524
	Radiateur supplémentaire	97/ 44	7/ 3	7/ 3	28/ 13	27/ 12	28/ 13	0/ 0
	Poulie simple	141/ 64	-7/ -3	-7/ -3	-5/ -2	-5/ -2	-5/ -2	170/ 77
	Moufle 11.0 US t / 10 t (déposée sur le châssis)	655/ 297	60/ 27	60/ 27	182/ 83	176/ 80	177/ 80	0/ 0
3. Autres	Conducteur	225/ 102	181/ 82	179/ 81	-46/ -21	-44/ -20	-45/ -20	0/ 0
	Carburant dans le châssis	1,138/ 516	-237/ -107	-235/ -107	547/ 248	529/ 240	534/ 242	0/ 0
	Carburant dans la superstructure	468/ 213	62/ 28	62/ 28	117/ 53	113/ 51	114/ 52	0/ 0
Poids supplémentaires	Moufle 35.3 US t / 32 t (suspendue sur la flèche principale)	994/ 451	-57/ -26	-56/ -26	-39/ -18	-38/ -17	-38/ -17	1,222/ 554
	Moufle 69.4 US t / 63 t (suspendue sur la flèche principale)	1,323/ 600	-76/ -34	-75/ -34	-52/ -24	-50/ -23	-51/ -23	1,627/ 738
	Contrepoids n° 1; 6,834 lbs / 3.1 t (sur châssis)	6,835/ 3101	2,356/ 1069	2,338/ 1061	728/ 330	704/ 319	710/ 322	0/ 0
	Contrepoids n° 2; 8,818 lbs / 4.0 t (sur châssis)	8,821/ 4001	3,040/ 1379	3,018/ 1369	939/ 426	908/ 412	916/ 415	0/ 0
	Contrepoids n° 3; 5,071 lbs / 2.3 t (sur châssis)	4,922/ 2233	1,696/ 769	1,683/ 764	524/ 238	507/ 230	512/ 232	0/ 0
	2x Contrepoids n° 4; 6,614 lbs / 3.0 t (sur châssis)	12,833/ 5821	4,399/ 1996	4,367/ 1981	1,382/ 627	1,336/ 606	1,348/ 612	0/ 0
	Contrepoids n° 5; 22,046 lbs / 10.0 t (sur châssis)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035	0/ 0
	Contrepoids n° 6; 7,716 lbs / 3.5 t (sur superstructure)	7,722/ 3502	2,662/ 1207	2,642/ 1199	822/ 373	794/ 360	801/ 364	0/ 0
	Contrepoids n° 8; 3,086 lbs / 1.4 t (sur superstructure)	2,834/ 1285	1,112/ 504	1,104/ 501	210/ 95	203/ 92	205/ 93	0/ 0
	Contrepoids n° 9; 3,307 lbs / 1.5 t (sur superstructure)	3,304/ 1499	1,394/ 632	1,383/ 628	179/ 81	173/ 79	175/ 79	0/ 0

Cargas por eje

Pluma dirigida hacia delante		TOTAL	1	2	3	4	5
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	**1. Equipamiento estándar + 2. Equipamiento especial + 3. Otros**	**122,278/ 55465**	**25,307/ 11479**	**25,315/ 11483**	**23,831/ 10810**	**23,943/ 10860**	**23,882/ 10833**
1. Equipamiento estándar	Ver páginas 54; sin contrapeso	109,096/ 49486	22,750/ 10319	23,376/ 10603	20,885/ 9473	21,084/ 9564	21,001/ 9526
2. Equipamiento especial (selección)	Neumáticos 525/80R25 (20.50 R25) en lugar de 445/95R25 (16.00 R25)	1,506/ 683	300/ 136	300/ 136	303/ 137	302/ 137	302/ 137
	Tracción 10x8 en lugar de 10x6	883/ 400	744/ 337	137/ 62	1/ 0	1/ 0	1/ 0
	Dispositivo de enganche para remolque, incluyendo los acoplamientos para iluminación y frenos	76/ 34	-29/ -13	-29/ -13	46/ 21	44/ 20	45/ 20
	Caja de herramientas en la parte trasera (sin caja para maderos)	192/ 87	-83/ -38	-83/ -37	121/ 55	117/ 53	119/ 54
	Torno auxiliar incluyendo el cable	3,257/ 1477	-1,461/ -663	-1,450/ -658	2,096/ 951	2,027/ 919	2,045/ 927
	Tambor de manguera para alargamiento de pluma hidráulico (desmontable)	472/ 214	390/ 177	388/ 176	-104/ -47	-101/ -46	-101/ -46
	Alargamiento de pluma hidráulica fijado 3.3 ft / 1.0 m + 55.8 ft / 17.0 m	4,072/ 1847	2,614/ 1186	2,595/ 1177	-387/ -175	-374/ -170	-377/ -171
	Radiator de aceite adicional	97/ 44	-7/ -3	-7/ -3	38/ 17	36/ 17	37/ 17
	Rodillo antepuesto	141/ 64	149/ 67	148/ 67	-53/ -24	-51/ -23	-51/ -23
	Motón 11.0 US t / 10 t (depositado en el chasis)	655/ 297	60/ 27	60/ 27	182/ 83	176/ 80	177/ 80
3. Otros	Conductor	225/ 102	181/ 82	179/ 81	-46/ -21	-44/ -20	-45/ -20
	Combustible en el chasis	1,138/ 516	-237/ -107	-235/ -107	547/ 248	529/ 240	534/ 242
	Combustible en la superestructura	468/ 213	-64/ -29	-63/ -29	202/ 92	196/ 89	198/ 90
Pesos adicionales	Motón 35.3 US t / 32 t (posición de transporte)	994/ 451	993/ 450	986/ 447	-335/ -152	-324/ -147	-326/ -148
	Motón 69.4 US t / 63 t (posición de transporte)	1,323/ 600	1,322/ 600	1,312/ 595	-446/ -202	-431/ -195	-435/ -197
	Contrapeso N° 1; 6,834 lbs / 3.1 t (encima del chasis)	6,835/ 3101	2,356/ 1069	2,338/ 1061	728/ 330	704/ 319	710/ 322
	Contrapeso N° 2; 8,818 lbs / 4.0 t (encima del chasis)	8,821/ 4001	3,040/ 1379	3,018/ 1369	939/ 426	908/ 412	916/ 415
	Contrapeso N° 3; 5,071 lbs / 2.3 t (encima del chasis)	4,922/ 2233	1,696/ 769	1,683/ 764	524/ 238	507/ 230	512/ 232
	2x Contrapeso N° 4; 6,614 lbs / 3.0 t (encima del chasis)	12,833/ 5821	4,399/ 1996	4,367/ 1981	1,382/ 627	1,336/ 606	1,348/ 612
	Contrapeso N° 5; 22,046 lbs / 10.0 t (encima del chasis)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035
	Contrapeso N° 6; 7,716 lbs / 3.5 t (encima del superestructura)	7,722/ 3502	-2,688/ -1219	-2,668/ -1210	4,445/ 2016	4,297/ 1949	4,336/ 1967
	Contrapeso N° 8; 3,086 lbs / 1.4 t (encima del superestructura)	2,834/ 1285	-1,121/ -509	-1,113/ -505	1,722/ 781	1,665/ 755	1,680/ 762
	Contrapeso N° 9; 3,307 lbs / 1.5 t (encima del superestructura)	3,304/ 1499	-1,405/ -637	-1,394/ -633	2,074/ 941	2,006/ 910	2,023/ 918

Cargas por eje

Pluma hacia atrás, apoyada por carro tipo dolly (34.1 ft / 10.4 m detrás punto de articulación de la pluma)		TOTAL	1	2	3	4	5	
		lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg
Total	**1. Equipamiento estándar + 2. Equipamiento especial + 3. Otros**	**122,278/ 55465**	**20,841/ 9453**	**20,881/ 9471**	**18,390/ 8342**	**18,678/ 8472**	**18,570/ 8423**	**24,918/ 11303**
1. Equipamiento estándar	Ver páginas 54; sin contrapeso	109,096/ 49486	18,212/ 8261	18,870/ 8559	16,852/ 7644	17,182/ 7794	17,063/ 7740	20,918/ 9488
2. Equipamiento especial (selección)	Neumáticos 525/80R25 (20.50 R25) en lugar de 445/95R25 (16.00 R25)	1,506/ 683	300/ 136	300/ 136	303/ 137	302/ 137	302/ 137	0/ 0
	Tracción 10x8 en lugar de 10x6	883/ 400	744/ 337	137/ 62	1/ 0	1/ 0	1/ 0	0/ 0
	Dispositivo de enganche para remolque, incluyendo los acoplamientos para iluminación y frenos	76/ 34	-29/ -13	-29/ -13	46/ 21	44/ 20	45/ 20	0/ 0
	Caja de herramientas en la parte trasera (sin caja para maderos)	192/ 87	-83/ -38	-83/ -37	121/ 55	117/ 53	119/ 54	0/ 0
	Torno auxiliar incluyendo el cable	3,257/ 1477	1,455/ 660	1,445/ 655	121/ 55	117/ 53	118/ 54	0/ 0
	Tambor de manguera para alargamiento de pluma hidráulico (desmontable)	472/ 214	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	470/ 213
	Alargamiento de pluma hidráulica fijado 3.3 ft / 1.0 m + 55.8 ft / 17.0 m	4,072/ 1847	177/ 80	176/ 80	122/ 55	118/ 54	119/ 54	3,360/ 1524
	Radiator de aceite adicional	97/ 44	7/ 3	7/ 3	28/ 13	27/ 12	28/ 13	0/ 0
	Rodillo antepuesto	141/ 64	-7/ -3	-7/ -3	-5/ -2	-5/ -2	-5/ -2	170/ 77
	Motón 11.0 US t / 10 t (depositado en el chasis)	655/ 297	60/ 27	60/ 27	182/ 83	176/ 80	177/ 80	0/ 0
3. Otros	Conductor	225/ 102	181/ 82	179/ 81	-46/ -21	-44/ -20	-45/ -20	0/ 0
	Combustible en el chasis	1,138/ 516	-237/ -107	-235/ -107	547/ 248	529/ 240	534/ 242	0/ 0
	Combustible en la superestructura	468/ 213	62/ 28	62/ 28	117/ 53	113/ 51	114/ 52	0/ 0
Pesos adicionales	Motón 35.3 US t / 32 t (suspendido desde la pluma principal)	994/ 451	-57/ -26	-56/ -26	-39/ -18	-38/ -17	-38/ -17	1,222/ 554
	Motón 69.4 US t / 63 t (suspendido desde la pluma principal)	1,323/ 600	-76/ -34	-75/ -34	-52/ -24	-50/ -23	-51/ -23	1,627/ 738
	Contrapeso N° 1; 6,834 lbs / 3.1 t (encima del chasis)	6,835/ 3101	2,356/ 1069	2,338/ 1061	728/ 330	704/ 319	710/ 322	0/ 0
	Contrapeso N° 2; 8,818 lbs / 4.0 t (encima del chasis)	8,821/ 4001	3,040/ 1379	3,018/ 1369	939/ 426	908/ 412	916/ 415	0/ 0
	Contrapeso N° 3; 5,071 lbs / 2.3 t (encima del chasis)	4,922/ 2233	1,696/ 769	1,683/ 764	524/ 238	507/ 230	512/ 232	0/ 0
	2x Contrapeso N° 4; 6,614 lbs / 3.0 t (encima del chasis)	12,833/ 5821	4,399/ 1996	4,367/ 1981	1,382/ 627	1,336/ 606	1,348/ 612	0/ 0
	Contrapeso N° 5; 22,046 lbs / 10.0 t (encima del chasis)	22,046/ 10000	7,611/ 3452	7,555/ 3427	2,339/ 1061	2,261/ 1026	2,281/ 1035	0/ 0
	Contrapeso N° 6; 7,716 lbs / 3.5 t (encima del superestructura)	7,722/ 3502	2,662/ 1207	2,642/ 1199	822/ 373	794/ 360	801/ 364	0/ 0
	Contrapeso N° 8; 3,086 lbs / 1.4 t (encima del superestructura)	2,834/ 1285	1,112/ 504	1,104/ 501	210/ 95	203/ 92	205/ 93	0/ 0
	Contrapeso N° 9; 3,307 lbs / 1.5 t (encima del superestructura)	3,304/ 1499	1,394/ 632	1,383/ 628	179/ 81	173/ 79	175/ 79	0/ 0

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

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

445/95 R 25 525/80 R 25	52,8 mph max. 85 km/h max.	26.1 mph max. 42 km/h max.	57 %	63 %

Steering · Direction · Dirección

		v < 18.6 mph v < 30 km/h
		18.6 mph ≤ v ≤ 31.1 mph 30 km/h ≤ v ≤ 50 km/h
		v > 31.1 mph v > 50 km/h
		Manual steering · Direction manuelle · Dirección manual
		Smallest turning circle · Rayon de braquage mini · Mínimo radio
		Diagonal steering · Marche en crabe · Marcha cangrejo
		Rear veering suppression · Suppression de déboîtement AR Supresión de movimiento transversal de parte posterior

TECHNICAL DATA FOR TRANSPORT

CARACTÉRISTIQUES TECHNIQUES POUR LE TRANSPORT
DATOS TÉCNICOS PARA EL TRANSPORTE

Counterweight · Contrepoids · Contrapeso

		6,393 lbs	13,228 lbs	18,298 lbs	22,046 lbs	27,117 lbs	34,833 lbs	48,061 lbs	53,572 lbs	56,879 lbs	70,107 lbs	93,476 lbs
		2.9 t	6.0 t	8.3 t	10.0 t	12.3 t	15.8 t	21.8 t	24.3 t	25.8 t	31.8 t	42.4 t
1	6,834 lbs 3.1 t	-	1	1	1	1	1	1	1	1	1	1
2	8,818 lbs 4.0 t	-	-	-	1	1	1	1	-	1	1	1
3	5,071 lbs 2.3 t	-	-	1	-	1	1	1	1	1	1	1
4	6,614 lbs 3.0 t	-	-	-	-	-	-	2	2	-	2	2
5	22,046 lbs 10.0 t	-	-	-	-	-	-	-	1	1	1	1
6	7,716 lbs 3.5 t	-	-	-	-	-	1	1	-	1	1	1
7	11,684 lbs 5.3 t	-	-	-	-	-	-	-	-	-	-	2
8	3,086 lbs 1.4 t	1	1	1	1	1	1	1	1	1	1	1
9	3,307 lbs 1.5 t	1	1	1	1	1	1	1	1	1	1	1

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

1

2

3

4

5

6

7

8

9*

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

Jibs · Fléchettes · Plumines

	ft	m	
12.5 – 105.0 ft HYDRO 12.5 – 105.0 ft 3.8 – 32.0 m HYDRO 3.8 – 32.0 m	3.3 ft + 9.2 ft	1.0 + 2.8 m	1
	3.3 ft + 30.2 ft	1.0 + 9.2 m	1 + 3
	3.3 ft + 55.8 ft	1.0 + 17 m	1 + 3 + 4
	3.3 ft + 78.7 ft	1.0 + 24 m	1 + 2 + 3 + 4
	3.3 ft + 101.7 ft	1.0 + 31 m	1 + 2 + 2 + 3 + 4

1

lbs	kg
1,896	860

2

lbs	kg
1,058	480

3

lbs 1,036 kg 470

4

lbs 917 kg 416

lbs 4.938

kg 2240

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

lbs	kg
547	248

Auxiliary winch · Treuil supplémentaire · Cabrestante auxiliar

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

** with rope · avec câble · con cable*

TECHNICAL DATA FOR OPERATION

CARACTÉRISTIQUES TECHNIQUES POUR L'UTILISATION
DATOS TÉCNICOS PARA EL USO

Operation · Utilisation · Uso

Main boom · Flèche principale · Pluma principal

	-0.5° – 84.9°	~ 45 s
	42.0 ft – 196.9 ft 12.8 m – 60.0 m	~ 470 s

Swing mechanism · Groupe de rotation · Mecanismo de giro

360°	0 – 1.6 min^{-1}	LOCK	0° / 180°

Winches · Treuils · Cabrestantes

1	0 – 427 ft/min 0 – 130 m/min	0.83 in / 820.2 ft 21 mm / 250 m	19,109 lbs / 85 kN
2	0 – 427 ft/min 0 – 130 m/min	0.83 in / 820.2 ft 21 mm / 250 m	19,109 lbs / 85 kN

Hook blocks · Moufles · Pastecas de carga

CAP	lbs / t			lbs / kg
176.4 US t* / 160 t*	272,491 / 123.6	7	15	2,866 / 1300
110.2 US t* / 100 t*	202,164 / 91.7	5	11	1,764 / 800
69.4 US t* / 63 t*	130,073 / 59.0	3	7	1,323 / 600
69.4 US t* / 63 t	130,073 / 59.0	3	7	1,323 / 600
35.3 US t / 32 t	56,438 / 25.6	1	3	992 / 450
11.0 US t / 10 t	19,180 / 8.7	-	1	661 / 300

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

Working range · Rayon de travail · Zona de trabajo

Lifting capacities · Charges de levage · Cargas

93,476 lbs **ASME**

lbs x 1,000

ft	42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9
8.2	308.6**												
8.9	286.6**												
9.8	245.8**	231.4**	198.4	198.4	154.3								
11.5	222.4**	211.6	198.4	198.4	154.3	128.5							
13.1	203.0	194.8	194.4	193.5	154.3	125.0	97.0						
14.8	186.7	180.3	179.8	179.2	154.3	120.1	97.0	60.4					
16.4	172.6	167.5	167.3	166.4	154.3	113.3	97.0	72.3					
19.7	149.4	146.3	145.9	144.8	145.9	110.2	93.4	72.3	59.7				
23.0	131.6	128.5	128.7	126.9	128.0	109.3	84.8	72.3	59.7	47.1	36.5		
26.2	117.0	113.3	113.9	113.3	112.8	101.8	81.7	72.0	59.7	47.1	36.5	29.1	
29.5	105.3	100.5	101.1	100.9	100.0	95.4	78.7	67.2	59.7	47.1	36.5	29.1	23.3
32.8	92.8	89.5	90.6	90.3	89.5	89.9	74.5	62.3	57.7	47.1	36.5	29.1	23.3
36.1			81.7	81.5	80.6	82.2	70.3	58.2	54.6	46.9	36.5	29.1	23.3
39.4			74.9	74.0	74.2	74.7	66.5	54.4	51.1	45.4	36.5	29.1	23.3
45.9			63.4	62.1	63.7	62.6	60.1	48.0	44.9	42.3	35.4	29.1	23.3
52.5				53.7	54.4	53.3	54.8	42.9	40.1	38.3	33.5	28.4	23.3
59.1				46.0	45.6	46.5	46.0	38.5	37.0	34.6	31.5	27.1	23.3
65.6					39.0	40.5	39.2	35.0	33.7	31.3	29.3	25.5	22.9
72.2					35.7	35.0	33.7	32.1	30.8	28.2	26.4	24.2	21.1
78.7						30.6	29.3	28.4	28.4	25.5	24.0	23.1	19.6
85.3						27.1	25.7	26.6	25.7	23.3	22.0	21.6	18.0
91.9							23.3	23.8	22.7	21.3	20.0	19.8	16.5
98.4							22.2	21.1	20.0	19.1	18.5	18.0	15.2
105.0							17.8	18.9	17.8	17.6	16.9	16.7	13.8
111.5								16.9	16.7	16.5	15.6	15.6	13.0
118.1								15.4	15.8	14.7	14.3	14.3	11.9
124.7									14.3	13.2	13.4	13.2	11.0
131.2									13.0	11.9	12.5	11.9	10.3
137.8										10.8	11.4	10.5	9.7
144.4										9.9	10.3	9.4	9.0
150.9											9.4	8.5	8.3
157.5											8.5	7.7	7.7
164.0												6.8	6.8
170.6												6.1	5.9
177.2													5.2
183.7													4.8

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

70,107 lbs **ASME**

lbs x 1,000

ft	42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9
8.9	286.6**												
9.8	241.1**	229.2**	198.4	198.4	154.3								
11.5	218.2	209.6	198.4	198.4	154.3	128.5							
13.1	199.2	192.9	192.6	191.8	154.3	125.0	97.0						
14.8	183.2	178.5	178.3	177.4	154.3	120.1	97.0	60.4					
16.4	169.3	165.3	164.9	164.0	154.3	113.3	97.0	72.3					
19.7	146.6	142.6	142.1	140.8	142.1	110.2	93.4	72.3	59.7				
23.0	128.9	123.2	123.8	123.2	122.5	109.3	84.8	72.3	59.7	47.1	36.5		
26.2	114.8	107.8	108.4	108.2	107.1	101.8	81.7	72.0	59.7	47.1	36.5	29.1	
29.5	103.1	95.2	95.9	95.6	94.7	95.4	78.7	67.2	59.7	47.1	36.5	29.1	23.3
32.8	92.8	85.0	85.7	85.5	84.4	86.2	74.5	62.3	57.7	47.1	36.5	29.1	23.3
36.1			78.2	76.9	78.7	77.3	70.3	58.2	54.6	46.9	36.5	29.1	23.3
39.4			70.1	68.5	70.7	69.2	66.5	54.4	51.1	45.4	36.5	29.1	23.3
45.9			55.3	56.2	55.7	56.2	55.9	48.0	44.9	42.3	35.4	29.1	23.3
52.5				45.8	45.8	46.9	45.6	42.9	40.1	38.3	33.5	28.4	23.3
59.1				39.6	39.9	39.2	37.9	36.5	37.0	34.6	31.5	27.1	23.3
65.6					33.7	33.2	31.7	32.4	31.9	31.0	29.3	25.5	22.9
72.2					28.8	28.4	27.9	28.2	27.1	26.2	26.4	24.2	21.1
78.7						24.4	25.5	24.4	23.1	23.8	23.1	23.1	19.6
85.3						21.3	22.4	21.1	21.6	20.7	20.7	20.7	18.0
91.9							19.8	18.5	19.1	18.0	18.9	18.0	16.5
98.4							17.4	16.9	16.7	15.8	16.7	15.6	15.2
105.0							15.6	16.0	14.9	14.7	14.7	13.8	13.8
111.5								14.3	13.8	13.6	13.0	12.1	12.1
118.1								13.0	12.7	12.1	11.6	10.5	10.5
124.7									11.4	10.8	10.3	9.2	9.2
131.2									10.3	9.7	9.0	8.1	8.1
137.8										8.8	8.1	7.0	7.0
144.4										7.7	7.0	6.1	6.1
150.9											6.3	5.2	5.2
157.5											5.5	4.6	4.6
164.0												3.9	3.9
170.6												3.3	3.3
177.2													2.6
183.7													2.2

56,879 lbs **ASME**

lbs x 1,000

ft	42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9
8.9	264.5**												
9.8	238.7**	228.1**	198.4	198.4	154.3								
11.5	216.0	208.5	198.4	198.4	154.3	128.5							
13.1	197.0	192.0	191.8	190.9	154.3	125.0	97.0						
14.8	181.2	176.8	176.3	175.4	154.3	120.1	97.0	60.4					
16.4	167.3	163.3	162.9	161.8	154.3	113.3	97.0	72.3					
19.7	145.0	138.8	139.5	137.1	138.4	110.2	93.4	72.3	59.7				
23.0	127.6	119.4	120.1	120.1	119.0	109.3	84.8	72.3	59.7	47.1	36.5		
26.2	113.5	104.2	104.9	104.9	103.8	101.8	81.7	72.0	59.7	47.1	36.5	29.1	
29.5	100.5	92.1	92.8	92.5	91.4	89.2	78.7	67.2	59.7	47.1	36.5	29.1	23.3
32.8	83.5	81.7	83.9	82.2	83.1	78.0	74.5	62.3	57.7	47.1	36.5	29.1	23.3
36.1			72.0	70.5	72.5	68.7	68.3	58.2	54.6	46.9	36.5	29.1	23.3
39.4			62.8	63.7	63.2	62.6	61.2	54.4	51.1	45.4	36.5	29.1	23.3
45.9			49.8	50.0	50.9	51.3	49.8	46.7	44.9	42.3	35.4	29.1	23.3
52.5				42.1	42.3	41.6	40.1	38.5	39.0	36.8	33.5	28.4	23.3
59.1				34.6	34.8	34.1	33.2	34.1	32.8	31.0	31.0	27.1	23.3
65.6					29.1	28.6	29.9	28.6	27.3	28.2	26.6	25.5	22.9
72.2					24.9	24.2	25.5	24.2	24.9	23.8	23.8	23.5	21.1
78.7						21.1	22.0	21.1	21.3	20.5	21.1	20.2	19.6
85.3						18.2	19.1	19.6	18.5	18.7	18.2	17.4	17.4
91.9							16.7	17.1	16.9	16.5	15.8	14.9	14.9
98.4							15.2	15.2	15.2	14.5	13.8	12.7	13.0
105.0							14.1	13.4	13.4	12.7	12.1	11.2	11.2
111.5								12.1	11.9	11.2	10.5	9.7	9.7
118.1								10.8	10.5	9.9	9.2	8.3	8.3
124.7									9.4	8.8	8.1	7.0	7.0
131.2									8.3	7.7	7.0	6.1	6.1
137.8										6.8	6.1	5.0	5.0
144.4										5.9	5.2	4.4	4.4
150.9											4.6	3.5	3.5
157.5											3.9	2.8	2.8
164.0												2.2	2.2

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

53,572 lbs **ASME**

lbs x 1,000

ft	42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9
8.9	264.5**												
9.8	238.0**	227.9**	198.4	198.4	154.3								
11.5	215.3	208.3	198.4	198.4	154.3	128.5							
13.1	196.6	191.8	191.3	190.4	154.3	125.0	97.0						
14.8	180.7	176.3	175.9	174.8	154.3	120.1	97.0	60.4					
16.4	166.8	162.7	162.2	161.1	154.3	113.3	97.0	72.3					
19.7	144.6	137.7	138.4	136.2	137.3	110.2	93.4	72.3	59.7				
23.0	127.2	118.6	119.2	119.0	118.1	109.3	84.8	72.3	59.7	47.1	36.5		
26.2	113.3	103.3	104.2	104.0	102.9	100.7	81.7	72.0	59.7	47.1	36.5	29.1	
29.5	97.4	91.2	91.9	91.7	89.5	86.6	78.7	67.2	59.7	47.1	36.5	29.1	23.3
32.8	80.9	79.3	81.7	80.0	80.9	75.6	74.5	62.3	57.7	47.1	36.5	29.1	23.3
36.1			70.1	70.5	70.5	66.8	66.3	58.2	54.6	46.9	36.5	29.1	23.3
39.4			61.0	61.9	61.5	62.6	59.3	54.4	51.1	45.4	36.5	29.1	23.3
45.9			48.5	48.5	50.2	49.8	48.0	44.9	43.4	42.3	35.4	29.1	23.3
52.5				40.5	40.7	40.1	38.8	37.9	37.4	35.4	33.5	28.4	23.3
59.1				33.2	33.5	32.8	32.6	32.8	31.7	30.6	29.9	27.1	23.3
65.6					27.9	27.5	28.6	27.3	26.8	27.1	25.5	25.5	22.9
72.2					23.8	23.1	24.4	23.1	23.8	22.7	23.8	22.4	21.1
78.7						20.2	20.9	21.1	20.5	20.5	20.2	19.4	19.1
85.3						17.4	18.2	18.7	18.0	18.0	17.6	16.5	16.5
91.9							16.3	16.5	16.3	15.8	15.2	14.1	14.1
98.4							15.2	14.5	14.3	13.8	13.2	12.1	12.1
105.0							13.4	13.0	12.7	12.1	11.4	10.5	10.5
111.5								11.4	11.2	10.5	9.9	9.0	9.0
118.1								10.3	9.9	9.2	8.5	7.7	7.7
124.7									8.8	8.1	7.4	6.6	6.6
131.2									7.9	7.2	6.6	5.5	5.5
137.8										6.1	5.7	4.6	4.6
144.4										5.5	4.8	3.9	3.9
150.9											4.1	3.0	3.0
157.5											3.5	2.4	2.4
164.0												1.9	1.9

48,061 lbs **ASME**

lbs x 1,000

ft	42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9
8.9	264.5**												
9.8	236.7**	227.2**	198.4	198.4	154.3								
11.5	214.5	207.8	198.4	198.4	154.3	128.5							
13.1	195.7	190.9	190.4	189.5	154.3	125.0	97.0						
14.8	179.8	175.2	174.8	173.7	154.3	120.1	97.0	60.4					
16.4	166.2	160.9	160.4	159.3	154.3	113.3	97.0	72.3					
19.7	143.9	136.0	136.6	134.9	135.5	110.2	93.4	72.3	59.7				
23.0	126.5	117.0	117.7	117.5	116.4	109.3	84.8	72.3	59.7	47.1	36.5		
26.2	112.6	101.8	102.5	102.5	98.5	95.6	81.7	72.0	59.7	47.1	36.5	29.1	
29.5	92.5	89.7	90.6	90.3	88.1	82.2	78.7	67.2	59.7	47.1	36.5	29.1	23.3
32.8	76.7	75.3	77.8	75.8	76.7	71.6	70.7	62.3	57.7	47.1	36.5	29.1	23.3
36.1			66.5	67.4	67.0	66.3	62.6	58.2	54.6	46.9	36.5	29.1	23.3
39.4			57.7	58.6	58.2	59.7	55.7	52.0	50.0	45.4	36.5	29.1	23.3
45.9			45.6	47.3	47.8	47.1	44.9	41.8	42.1	39.6	35.4	29.1	23.3
52.5				37.9	38.1	37.4	36.8	37.4	35.0	33.5	32.8	28.4	23.3
59.1				31.0	31.3	30.6	31.9	30.6	29.5	29.7	27.7	27.1	23.3
65.6					26.0	25.5	26.8	25.5	26.2	25.1	25.5	24.0	22.9
72.2					22.7	21.8	22.7	22.9	22.2	22.7	22.0	20.7	20.2
78.7						18.7	19.4	20.0	19.6	19.4	18.7	17.8	17.6
85.3						16.0	17.4	17.4	17.4	16.7	16.0	14.9	15.2
91.9							15.8	15.2	15.2	14.5	13.8	12.7	12.7
98.4							13.8	13.4	13.2	12.5	11.9	11.0	11.0
105.0							12.3	11.9	11.6	11.0	10.3	9.2	9.4
111.5								10.5	10.1	9.4	9.0	7.9	7.9
118.1								9.2	9.0	8.3	7.7	6.8	6.8
124.7									7.9	7.2	6.6	5.7	5.7
131.2									7.0	6.3	5.7	4.6	4.6
137.8										5.5	4.8	3.7	3.7
144.4										4.6	3.9	3.0	3.0
150.9											3.3	2.4	2.4
157.5											2.8		

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

34,833 lbs **ASME**

lbs x 1,000

ft	42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9
8.9	264.5**												
9.8	234.3**	226.1**	198.4	198.4	154.3								
11.5	212.0	206.7	198.4	198.4	154.3	128.5							
13.1	193.5	188.4	188.0	187.1	154.3	125.0	97.0						
14.8	177.9	171.9	171.2	170.1	154.3	120.1	97.0	60.4					
16.4	164.2	156.5	156.0	154.7	154.3	113.3	97.0	72.3					
19.7	142.4	131.8	132.4	132.4	128.3	110.2	93.4	72.3	59.7				
23.0	125.2	113.0	113.7	112.6	103.6	99.8	84.8	72.3	59.7	47.1	36.5		
26.2	100.5	97.4	98.5	93.2	90.3	83.7	81.7	72.0	59.7	47.1	36.5	29.1	
29.5	80.6	78.9	81.7	80.9	77.1	75.6	70.1	65.0	59.7	47.1	36.5	29.1	23.3
32.8	66.5	65.9	68.3	69.2	66.1	65.4	60.8	56.4	53.7	47.1	36.5	29.1	23.3
36.1			58.2	59.0	60.8	57.3	53.3	49.3	47.6	46.0	36.5	29.1	23.3
39.4			50.7	52.6	52.9	50.9	47.1	45.8	43.8	41.0	36.5	29.1	23.3
45.9			38.3	40.1	40.5	39.9	39.0	38.1	35.4	35.2	32.8	29.1	23.3
52.5				31.7	31.9	31.5	32.8	31.5	31.3	29.3	29.1	27.3	23.3
59.1				25.7	26.6	26.0	26.8	27.3	26.2	26.2	24.9	22.9	22.4
65.6					22.9	21.3	22.4	22.9	22.9	22.2	21.1	19.4	19.1
72.2					19.4	17.8	20.0	19.4	19.1	18.7	18.0	16.5	16.3
78.7						16.5	16.9	16.5	16.3	15.8	15.2	14.1	13.8
85.3						14.3	14.7	14.3	13.8	13.4	12.7	11.6	11.6
91.9							12.7	12.3	12.1	11.4	10.8	9.7	9.7
98.4							11.0	10.5	10.3	9.7	9.0	8.1	8.1
105.0							9.7	9.2	9.0	8.3	7.7	6.6	6.8
111.5								7.9	7.7	7.0	6.3	5.5	5.5
118.1								7.0	6.6	5.9	5.2	4.4	4.4
124.7									5.7	5.0	4.4	3.5	3.5
131.2									4.8	4.1	3.5	2.6	2.6
137.8										3.5	2.8	1.9	1.9
144.4										2.8	2.2		

27,117 lbs **ASME**

lbs x 1,000

ft	42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9
8.9	264.5**												
9.8	232.8**	225.5**	198.4	198.4	154.3								
11.5	210.7	205.2	198.4	198.4	154.3	128.5							
13.1	192.4	186.9	186.5	185.1	154.3	125.0	97.0						
14.8	176.8	169.0	168.4	167.3	154.3	120.1	97.0	60.4					
16.4	163.3	153.6	154.5	152.1	153.0	113.3	97.0	72.3					
19.7	141.3	129.1	130.0	129.6	117.9	110.2	93.4	72.3	59.7				
23.0	120.1	110.4	111.3	103.6	99.6	91.7	84.2	72.3	59.7	47.1	36.5		
26.2	92.1	89.7	92.5	87.5	82.8	80.6	74.5	68.5	59.7	47.1	36.5	29.1	
29.5	73.6	72.5	75.1	74.5	70.1	68.5	63.2	58.4	55.5	47.1	36.5	29.1	23.3
32.8	60.6	59.9	62.8	63.4	62.8	59.0	54.6	50.4	49.3	46.9	36.5	29.1	23.3
36.1			53.5	55.5	54.8	51.8	48.5	47.6	44.0	41.2	36.5	29.1	23.3
39.4			45.4	47.3	47.6	45.8	43.4	42.3	39.6	38.8	36.1	29.1	23.3
45.9			34.1	35.9	36.1	35.7	36.8	33.9	33.7	31.5	31.0	29.1	23.3
52.5				28.2	29.3	28.4	29.3	29.9	27.9	27.5	26.0	24.0	23.3
59.1				22.9	24.4	22.9	24.6	24.4	24.4	23.3	21.8	20.0	19.6
65.6					20.2	19.6	20.9	20.5	20.0	19.6	18.5	16.9	16.5
72.2					16.9	17.1	17.6	17.1	16.7	16.3	15.6	14.3	13.8
78.7						14.5	14.9	14.5	14.1	13.6	13.0	11.9	11.6
85.3						12.3	12.7	12.3	12.1	11.4	10.8	9.7	9.7
91.9							11.0	10.5	10.1	9.7	9.0	7.9	7.9
98.4							9.4	9.0	8.5	8.1	7.4	6.3	6.3
105.0							8.1	7.7	7.4	6.8	6.1	5.0	5.2
111.5								6.6	6.1	5.7	5.0	3.9	3.9
118.1								5.7	5.2	4.6	3.9	3.0	3.0
124.7									4.4	3.7	3.0	2.2	2.2
131.2									3.7	3.0	2.4		
137.8										2.4			

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

22,046 lbs **ASME**

lbs x 1,000

ft	42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9
8.9	264.5**												
9.8	231.9**	225.0**	198.4	198.4	154.3								
11.5	209.8	204.1	198.4	198.4	154.3	128.5							
13.1	191.5	184.9	184.5	183.4	154.3	125.0	97.0						
14.8	175.9	167.1	166.6	165.3	154.3	120.1	97.0	60.4					
16.4	162.7	151.8	152.7	150.1	144.6	113.3	97.0	72.3					
19.7	140.8	127.4	128.3	122.7	111.5	106.2	93.4	72.3	59.7				
23.0	113.5	108.9	106.2	97.8	94.3	87.0	83.5	72.3	59.7	47.1	36.5		
26.2	86.8	84.6	87.7	83.3	77.3	75.6	69.4	63.9	59.7	47.1	36.5	29.1	
29.5	69.2	68.3	70.9	69.4	68.3	63.9	58.8	54.2	51.5	47.1	36.5	29.1	23.3
32.8	56.8	55.5	59.5	61.5	58.6	55.1	51.5	50.2	46.5	43.4	36.5	29.1	23.3
36.1			49.6	51.5	51.1	48.0	45.8	44.3	41.8	40.3	36.5	29.1	23.3
39.4			42.1	44.0	44.3	42.5	42.3	39.2	38.1	35.9	33.2	29.1	23.3
45.9			31.5	33.2	33.5	33.5	34.1	33.0	31.0	30.8	29.1	26.8	23.3
52.5				26.2	27.7	26.2	27.5	27.7	27.1	25.5	24.0	22.0	21.3
59.1				20.9	22.4	21.8	23.1	22.7	22.4	21.3	20.0	18.2	17.8
65.6					18.5	18.7	19.1	18.7	18.5	17.8	16.7	15.2	14.7
72.2					15.4	15.6	16.0	15.6	15.4	14.7	14.1	12.7	12.3
78.7						13.2	13.4	13.0	12.7	12.3	11.6	10.5	10.3
85.3						11.0	11.4	11.0	10.8	10.1	9.4	8.5	8.5
91.9							9.7	9.2	9.0	8.5	7.9	6.8	6.8
98.4							8.3	7.9	7.7	7.0	6.3	5.5	5.5
105.0							7.2	6.6	6.3	5.7	5.0	4.1	4.1
111.5								5.7	5.2	4.8	4.1	3.0	3.0
118.1								4.8	4.4	3.7	3.0	2.2	2.2
124.7									3.7	3.0	2.4		
131.2									2.8	2.2			

18,298 lbs **ASME**

lbs x 1,000

ft	42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9
8.9	264.5**												
9.8	231.2**	224.8**	198.4	198.4	154.3								
11.5	209.2	203.2	198.4	198.4	154.3	128.5							
13.1	190.9	183.4	182.9	181.8	154.3	125.0	97.0						
14.8	175.4	165.5	165.1	164.0	154.3	120.1	97.0	60.4					
16.4	162.0	150.5	151.2	149.2	138.2	113.3	97.0	72.3					
19.7	140.2	126.1	126.7	117.0	110.2	101.4	92.1	72.3	59.7				
23.0	108.2	104.2	102.9	95.2	89.5	86.4	78.9	72.0	59.7	47.1	36.5		
26.2	82.4	80.6	83.1	78.7	75.8	71.4	65.4	59.9	56.6	47.1	36.5	29.1	
29.5	65.6	64.5	67.9	66.1	64.5	60.4	56.2	54.0	50.4	46.7	36.5	29.1	23.3
32.8	54.0	52.0	56.2	57.9	55.3	52.0	48.7	47.3	43.6	41.0	36.5	29.1	23.3
36.1			46.7	48.7	48.2	45.1	44.9	41.6	40.1	37.9	35.0	29.1	23.3
39.4			39.4	41.4	41.6	39.9	39.9	36.8	36.1	33.9	31.5	29.1	23.3
45.9			29.3	31.0	32.6	31.3	31.9	31.7	30.6	28.8	27.1	24.9	23.3
52.5				24.2	26.0	24.4	26.6	26.0	25.3	23.8	22.2	20.2	19.8
59.1				19.4	20.9	21.1	21.6	21.1	20.9	19.8	18.5	16.7	16.3
65.6					17.1	17.4	17.8	17.4	17.1	16.5	15.4	13.8	13.4
72.2					14.3	14.3	14.7	14.3	14.1	13.4	12.7	11.4	11.2
78.7						12.1	12.3	11.9	11.6	11.2	10.5	9.4	9.2
85.3						10.1	10.5	10.1	9.7	9.2	8.5	7.4	7.4
91.9							8.8	8.3	8.1	7.4	6.8	5.9	5.9
98.4							7.4	7.0	6.8	6.1	5.5	4.6	4.6
105.0							6.3	5.9	5.7	5.0	4.4	3.3	3.5
111.5								4.8	4.6	3.9	3.3	2.4	2.4
118.1								4.1	3.7	3.0	2.4		
124.7									3.0	2.4			
131.2									2.4				

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

13,228 lbs **ASME**

lbs x 1,000

ft	42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9
8.9	264.5**												
9.8	230.1**	223.7**	198.4	198.4	154.3								
11.5	208.3	202.3	198.4	198.4	154.3	128.5							
13.1	190.2	181.4	180.9	179.8	154.3	125.0	97.0						
14.8	174.6	163.8	164.4	162.0	151.6	120.1	97.0	60.4					
16.4	161.3	148.5	149.2	145.5	129.8	113.3	97.0	72.3					
19.7	132.2	124.3	120.5	110.0	104.7	94.7	85.3	72.3	59.7				
23.0	101.4	98.1	96.3	90.1	82.8	80.2	72.9	66.5	59.7	47.1	36.5		
26.2	77.1	75.8	76.9	72.7	71.2	66.1	61.2	55.9	52.2	47.1	36.5	29.1	
29.5	61.2	59.3	63.2	63.0	59.7	55.7	52.0	50.4	46.2	42.9	36.5	29.1	23.3
32.8	50.2	47.3	51.5	53.5	51.1	47.8	47.3	43.6	42.1	39.4	36.5	29.1	23.3
36.1			42.7	44.7	44.5	41.6	41.6	38.3	37.4	34.6	31.9	29.1	23.3
39.4			36.1	37.9	38.3	37.0	36.8	36.1	34.6	32.6	30.6	28.2	23.3
45.9			26.6	28.6	30.2	28.6	30.8	29.1	27.9	26.2	24.6	22.4	21.8
52.5				22.0	23.5	24.0	24.4	24.0	23.1	21.6	20.0	18.2	17.8
59.1				17.4	18.9	19.1	19.6	19.1	18.9	17.8	16.5	14.9	14.5
65.6					15.4	15.6	16.0	15.6	15.4	14.7	13.6	12.1	11.9
72.2					12.7	12.7	13.2	12.7	12.5	12.1	11.2	9.9	9.7
78.7						10.5	11.0	10.5	10.3	9.7	9.0	8.1	7.9
85.3						8.8	9.2	8.8	8.5	7.9	7.2	6.3	6.3
91.9							7.7	7.2	7.0	6.3	5.7	4.8	4.8
98.4							6.3	5.9	5.7	5.0	4.4	3.5	3.5
105.0							5.5	4.8	4.6	3.9	3.3	2.4	
111.5								3.9	3.7	3.0	2.4		
118.1								3.3	2.8	2.2			
124.7									2.2				

6,393 lbs **ASME**

lbs x 1,000

ft	42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9
8.9	243.6**												
9.8	228.3**	221.5**	198.4	198.4	154.3								
11.5	206.7	199.0	198.4	197.3	154.3	128.5							
13.1	188.4	177.9	177.4	176.3	154.3	125.0	97.0						
14.8	173.2	160.2	160.9	156.3	137.5	120.1	97.0	60.4					
16.4	160.0	145.2	145.9	132.0	117.5	110.2	97.0	72.3					
19.7	119.7	119.7	110.2	102.9	93.4	89.0	80.2	72.3	59.7				
23.0	91.2	88.8	85.0	79.5	76.9	70.9	65.2	58.4	54.6	47.1	36.5		
26.2	69.2	67.0	67.6	66.8	62.8	58.4	55.1	52.0	47.6	43.6	36.5	29.1	
29.5	54.6	51.3	55.9	55.5	52.6	48.9	48.2	44.3	42.5	39.6	36.3	29.1	23.3
32.8	44.5	40.7	44.9	46.9	44.9	42.5	41.6	40.1	38.3	34.6	31.5	29.1	23.3
36.1			37.0	39.0	39.0	36.8	37.0	35.7	34.1	31.9	29.9	27.3	23.3
39.4			31.0	33.2	35.0	32.1	33.7	31.7	30.4	28.4	26.4	24.2	23.3
45.9			22.4	24.4	26.2	26.4	26.8	25.3	24.2	22.4	20.9	18.9	18.5
52.5				18.7	20.2	20.5	21.1	20.7	19.8	18.2	16.9	15.2	14.7
59.1				14.5	16.0	16.3	16.7	16.3	16.0	14.9	13.6	12.1	11.6
65.6					13.0	13.0	13.4	13.2	12.7	12.3	11.2	9.7	9.2
72.2					10.3	10.5	11.0	10.5	10.3	9.7	9.0	7.7	7.4
78.7						8.5	9.0	8.5	8.3	7.7	7.0	5.9	5.7
85.3						7.0	7.2	7.0	6.6	6.1	5.5	4.4	4.4
91.9							5.9	5.5	5.2	4.6	4.1	3.0	
98.4							4.8	4.4	4.1	3.5	2.8		
105.0							3.9	3.5	3.0	2.6	1.9		
111.5								2.6	2.4				
118.1								1.9					

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

Working range · Rayon de travail · Zona de trabajo

Lifting capacities · Charges de levage · Cargas

93,476 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 9.2 ft			70.2 ft + 3.3 ft + 9.2 ft			112.9 ft + 3.3 ft + 9.2 ft			155.5 ft + 3.3 ft + 9.2 ft			196.6 ft + 3.3 ft + 9.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8		70.3													
11.5		67.4	55.3												
13.1	87.0	64.8	53.7		72.9										
14.8	82.4	62.3	52.2		70.7	56.2									
16.4	78.0	60.1	50.9		68.7	55.3		65.9							
19.7	70.9	56.2	48.7		65.2	53.3		65.9	55.1						
23.0	65.0	52.9	46.7	77.1	62.1	51.5		65.9	53.7						
26.2	59.9	50.0	45.1	77.1	59.3	50.0		65.6	52.4		30.6				
29.5	55.7	47.6	43.8	73.8	56.6	48.5		63.7	51.3		30.6	30.6			
32.8	52.2	45.6	42.9	69.4	54.4	47.3		61.0	50.4		30.6	30.6			
36.1	49.3	44.0	42.5	65.6	52.4	46.2		56.8	49.3		30.6	30.6			
39.4	46.7	42.9		62.1	50.7	45.1	54.2	53.1	48.5		30.6	30.6		17.1	
45.9	43.4			56.6	47.6	43.6	47.8	46.9	46.2		30.6	30.6		17.1	17.1
52.5				52.0	45.1	42.5	42.5	41.8	41.4		30.6	30.6		17.1	17.1
59.1				43.6	43.4	42.1	39.4	37.6	37.4	30.6	30.6	30.4		17.1	17.1
65.6				38.3	37.9		36.8	34.3	34.1	29.7	28.8	28.2		17.1	17.1
72.2				33.0			32.8	32.1	31.3	27.3	26.8	26.4		17.1	17.1
78.7							28.4	28.8	29.1	25.1	24.9	24.4	17.1	17.1	17.1
85.3							25.1	25.3	25.5	23.1	22.9	22.9	17.1	17.1	17.1
91.9							22.0	22.2	22.4	20.9	21.1	21.1	17.1	16.9	16.7
98.4							19.6	19.8		18.5	18.7	18.9	16.3	15.8	15.8
105.0							17.6	17.6		16.5	16.7	16.7	15.2	14.9	14.9
111.5							16.0	16.0		15.6	15.4	15.4	14.5	14.3	14.1
118.1										14.3	14.3	14.5	13.6	13.4	13.4
124.7										12.7	12.7	13.0	12.3	12.5	12.5
131.2										11.4	11.4		11.0	11.0	11.2
144.4										9.7	9.7		8.5	8.8	8.8
157.5										8.3			6.6	6.8	6.8
170.6													5.0	5.2	
183.7													3.7	3.7	
196.9													2.6		

70,107 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 9.2 ft			70.2 ft + 3.3 ft + 9.2 ft			112.9 ft + 3.3 ft + 9.2 ft			155.5 ft + 3.3 ft + 9.2 ft			196.6 ft + 3.3 ft + 9.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8		70.3													
11.5		67.4	55.3												
13.1	87.0	64.8	53.7		72.9										
14.8	82.4	62.3	52.2		70.7	56.2									
16.4	78.0	60.1	50.9		68.7	55.3		65.9							
19.7	70.9	56.2	48.7		65.2	53.3		65.9	55.1						
23.0	65.0	52.9	46.7	77.1	62.1	51.5		65.9	53.7						
26.2	59.9	50.0	45.1	77.1	59.3	50.0		65.6	52.4		30.6				
29.5	55.7	47.6	43.8	73.8	56.6	48.5		63.7	51.3		30.6	30.6			
32.8	52.2	45.6	42.9	69.4	54.4	47.3		61.0	50.4		30.6	30.6			
36.1	49.3	44.0	42.5	65.6	52.4	46.2		56.8	49.3		30.6	30.6			
39.4	46.7	42.9		62.1	50.7	45.1	54.2	53.1	48.5		30.6	30.6		17.1	
45.9	43.4			53.3	47.6	43.6	47.8	46.9	46.2		30.6	30.6		17.1	17.1
52.5				44.7	44.7	42.5	42.5	41.8	41.4		30.6	30.6		17.1	17.1
59.1				37.2	37.4	37.6	36.5	35.9	35.0	30.6	30.6	30.4		17.1	17.1
65.6				31.5	31.7		31.0	31.3	31.7	29.7	28.8	28.2		17.1	17.1
72.2				27.3			26.4	26.8	27.1	25.3	25.7	26.2		17.1	17.1
78.7							23.1	23.3	23.3	21.8	22.2	22.4	17.1	17.1	17.1
85.3							20.2	20.5	20.7	20.2	19.8	19.6	17.1	17.1	17.1
91.9							17.6	17.8	18.0	17.6	17.8	18.0	17.1	16.9	16.7
98.4							15.4	15.4		15.2	15.6	15.6	14.9	15.2	15.4
105.0							13.4	13.4		14.3	14.1	14.1	13.0	13.2	13.4
111.5							12.5	12.5		13.0	13.0	13.2	11.2	11.4	11.6
118.1										11.4	11.6	11.6	9.7	9.9	10.1
124.7										10.1	10.1	10.3	8.3	8.5	8.8
131.2										9.0	9.0		7.2	7.4	7.4
144.4										7.0	7.0		5.2	5.5	5.5
157.5										5.2			3.7	3.7	3.7
170.6													2.4	2.4	

48,061 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 9.2 ft			70.2 ft + 3.3 ft + 9.2 ft			112.9 ft + 3.3 ft + 9.2 ft			155.5 ft + 3.3 ft + 9.2 ft			196.6 ft + 3.3 ft + 9.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8		70.3													
11.5		67.4	55.3												
13.1	87.0	64.8	53.7		72.9										
14.8	82.4	62.3	52.2		70.7	56.2									
16.4	78.0	60.1	50.9		68.7	55.3		65.9							
19.7	70.9	56.2	48.7		65.2	53.3		65.9	55.1						
23.0	65.0	52.9	46.7	77.1	62.1	51.5		65.9	53.7						
26.2	59.9	50.0	45.1	77.1	59.3	50.0		65.6	52.4		30.6				
29.5	55.7	47.6	43.8	73.8	56.6	48.5		63.7	51.3		30.6	30.6			
32.8	52.2	45.6	42.9	69.4	54.4	47.3		61.0	50.4		30.6	30.6			
36.1	49.3	44.0	42.5	63.9	52.4	46.2		56.8	49.3		30.6	30.6			
39.4	46.7	42.9		57.0	50.7	45.1	50.7	52.0	48.5		30.6	30.6		17.1	
45.9	43.4			44.7	45.1	43.6	44.0	41.6	42.3		30.6	30.6		17.1	17.1
52.5				36.1	36.5	36.8	35.4	36.1	36.5		30.6	30.6		17.1	17.1
59.1				31.0	30.2	30.2	29.5	30.2	30.4	27.3	27.3	27.7		17.1	17.1
65.6				26.4	26.6		24.6	25.1	25.5	24.2	24.6	24.2		17.1	17.1
72.2				22.4			20.7	21.1	21.3	20.7	21.1	21.3		17.1	17.1
78.7							17.4	17.6	18.0	18.7	18.5	18.2	16.3	16.7	17.1
85.3							16.0	15.8	15.8	16.0	16.3	16.5	14.1	14.5	14.7
91.9							14.9	14.7	14.7	13.8	14.1	14.3	12.1	12.3	12.5
98.4							13.4	13.4		11.9	12.1	12.3	10.1	10.3	10.5
105.0							11.6	11.9		10.1	10.3	10.5	8.5	8.8	9.0
111.5							10.3	10.3		8.8	9.0	9.0	7.0	7.2	7.4
118.1										7.4	7.7	7.7	5.9	6.1	6.1
124.7										6.3	6.6	6.6	4.8	5.0	5.0
131.2										5.5	5.5		3.7	3.9	4.1
144.4										3.7	3.9		2.2	2.4	2.4
157.5										2.6					

22,046 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 9.2 ft			70.2 ft + 3.3 ft + 9.2 ft			112.9 ft + 3.3 ft + 9.2 ft			155.5 ft + 3.3 ft + 9.2 ft			196.6 ft + 3.3 ft + 9.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8		70.3													
11.5		67.4	55.3												
13.1	87.0	64.8	53.7		72.9										
14.8	82.4	62.3	52.2		70.7	56.2									
16.4	78.0	60.1	50.9		68.7	55.3		65.9							
19.7	70.9	56.2	48.7		65.2	53.3		65.9	55.1						
23.0	65.0	52.9	46.7	77.1	62.1	51.5		65.9	53.7						
26.2	59.9	50.0	45.1	77.1	59.3	50.0		65.0	52.4		30.6				
29.5	55.7	47.6	43.8	67.9	56.6	48.5		54.8	51.3		30.6	30.6			
32.8	52.2	45.6	42.9	57.9	54.4	47.3		48.7	48.5		30.6	30.6			
36.1	48.7	44.0	42.5	49.3	50.2	46.2		44.7	42.1		30.6	30.6			
39.4	42.1	42.5		42.5	43.4	43.8	38.5	39.6	37.6		30.6	30.6		17.1	
45.9	31.7			34.1	34.8	33.5	30.6	31.5	32.1		27.3	27.3		17.1	17.1
52.5				26.8	27.3	27.5	25.5	25.5	26.2		23.5	23.5		17.1	17.1
59.1				21.6	21.8	22.0	22.4	22.0	22.2	20.0	20.7	20.9		16.9	17.1
65.6				17.6	17.8		18.9	19.1	19.4	16.9	17.4	17.6		14.1	14.5
72.2				14.5			15.6	16.0	16.0	14.1	14.5	14.7		11.6	11.9
78.7							13.2	13.4	13.4	11.4	11.9	12.1	9.2	9.4	9.9
85.3							11.0	11.2	11.4	9.4	9.7	9.9	7.4	7.9	8.1
91.9							9.2	9.4	9.4	7.7	7.9	8.1	5.9	6.3	6.6
98.4							7.9	7.9		6.3	6.6	6.6	4.6	4.8	5.0
105.0							6.6	6.6		5.0	5.2	5.2	3.3	3.5	3.7
111.5							5.5	5.5		3.9	4.1	4.1			
118.1										3.0	3.0	3.3			
124.7										2.2	2.4	2.4			

13,228 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 9.2 ft			70.2 ft + 3.3 ft + 9.2 ft			112.9 ft + 3.3 ft + 9.2 ft			155.5 ft + 3.3 ft + 9.2 ft			196.6 ft + 3.3 ft + 9.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8		70.3													
11.5		67.4	55.3												
13.1	87.0	64.8	53.7		72.9										
14.8	82.4	62.3	52.2		70.7	56.2									
16.4	78.0	60.1	50.9		68.7	55.3		65.9							
19.7	70.9	56.2	48.7		65.2	53.3		65.9	55.1						
23.0	65.0	52.9	46.7	77.1	62.1	51.5		65.9	53.7						
26.2	59.9	50.0	45.1	70.7	59.3	50.0		56.4	52.4		30.6				
29.5	55.7	47.6	43.8	59.3	56.6	48.5		51.1	48.9		30.6	30.6			
32.8	51.1	45.6	42.9	50.4	51.8	47.3		44.5	41.6		30.6	30.6			
36.1	43.2	43.8	42.5	43.6	44.7	45.4		38.8	37.6		30.6	30.6			
39.4	36.5	37.2		39.2	38.3	38.8	33.0	33.9	35.0		28.2	29.1		17.1	
45.9	26.8			29.3	30.2	30.4	27.9	28.2	27.7		24.0	24.6		17.1	17.1
52.5				22.7	23.3	23.5	24.2	24.0	23.8		20.9	21.3		17.1	17.1
59.1				18.2	18.5	18.5	19.4	19.8	20.2	16.7	17.1	17.6		13.8	14.3
65.6				14.5	14.7		15.8	16.0	16.3	13.8	14.3	14.5		11.2	11.4
72.2				11.9			13.0	13.2	13.4	11.2	11.6	12.1		9.0	9.2
78.7							10.8	11.0	11.0	9.0	9.4	9.7		7.0	7.4
85.3							8.8	9.0	9.0	7.2	7.4	7.7		5.5	5.7
91.9							7.2	7.4	7.4	5.7	5.9	6.1		4.1	4.4
98.4							5.9	6.1		4.4	4.6	4.8			
105.0							4.8	4.8		3.3	3.5	3.5			
111.5							3.9	3.9		2.4	2.4	2.6			

6,393 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 9.2 ft			70.2 ft + 3.3 ft + 9.2 ft			112.9 ft + 3.3 ft + 9.2 ft			155.5 ft + 3.3 ft + 9.2 ft			196.6 ft + 3.3 ft + 9.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8		70.3													
11.5		67.4	55.3												
13.1	87.0	64.8	53.7		72.9										
14.8	82.4	62.3	52.2		70.7	56.2									
16.4	78.0	60.1	50.9		68.7	55.3		65.9							
19.7	70.9	56.2	48.7		65.2	53.3		65.9	55.1						
23.0	65.0	52.9	46.7	76.9	62.1	51.5		59.7	53.7						
26.2	59.9	50.0	45.1	62.3	59.3	50.0		52.9	50.9		30.6				
29.5	55.3	47.6	43.8	52.0	53.5	48.5		45.1	42.5		30.6	30.6			
32.8	45.6	45.6	42.9	46.2	45.4	46.5		38.8	37.6		30.6	30.6			
36.1	37.6	38.5	39.0	39.9	40.1	39.9		34.1	34.6		27.5	28.6			
39.4	31.5	32.1		34.1	35.2	35.7	31.0	31.5	31.5		26.0	26.8		17.1	
45.9	22.9			25.3	26.0	26.4	25.7	26.4	26.2		22.0	22.4		17.1	17.1
52.5				19.6	20.0	20.2	20.9	21.3	21.8		17.6	18.0		14.1	14.5
59.1				15.2	15.6	15.6	16.5	16.9	17.1	13.8	14.3	14.7		11.0	11.6
65.6				12.1	12.1		13.2	13.6	13.8	11.2	11.6	12.1		8.5	9.0
72.2				9.4			10.8	11.0	11.2	9.0	9.4	9.7		6.6	7.0
78.7							8.5	8.8	9.0	7.0	7.4	7.7		5.0	5.2
85.3							7.0	7.2	7.2	5.2	5.7	5.9			
91.9							5.5	5.7	5.7	3.9	4.1	4.4			
98.4							4.4	4.4		2.8	3.0	3.3			
105.0							3.3	3.5			1.9	2.2			
111.5							2.4	2.4							

93,476 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 30.2 ft			70.2 ft + 3.3 ft + 30.2 ft			112.9 ft + 3.3 ft + 30.2 ft			155.5 ft + 3.3 ft + 30.2 ft			196.6 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4		33.0													
19.7		30.4			33.0										
23.0	33.0	27.9			31.9										
26.2	33.0	26.0	20.5		29.9	21.8		32.4							
29.5	32.6	24.2	19.6		28.2	20.9		30.8							
32.8	29.7	22.7	18.7		26.6	20.2		29.5	21.1						
36.1	27.3	21.3	17.8	33.0	25.3	19.6		28.4	20.5		18.5				
39.4	25.1	20.2	17.1	33.0	24.2	18.9		27.3	20.0		18.5				
45.9	21.6	18.2	16.0	30.6	22.0	17.8		25.5	19.1		18.5	18.5			
52.5	18.7	16.7	15.2	26.8	20.2	16.9		23.8	18.2		18.5	18.5		12.5	
59.1	16.5	15.4		23.8	18.9	16.0	32.6	22.2	17.6	18.5	18.5	18.0		12.5	12.5
65.6	14.7	14.7		21.1	17.6	15.4	29.5	21.1	16.9	18.5	18.5	17.6		12.5	12.5
72.2				19.1	16.5	14.9	26.8	20.0	16.5	18.5	18.5	17.1		12.5	12.5
78.7				17.4	15.8	14.7	24.6	18.9	15.8	18.5	18.5	16.7	12.5	12.5	12.5
85.3				16.0	15.2		22.7	18.0	15.4	18.5	18.5	16.3	12.5	12.5	12.5
91.9				14.7	14.7		20.9	17.4	15.2	18.5	18.5	15.8	12.5	12.5	12.5
98.4							19.1	16.7	14.7	18.5	17.6	15.4	12.5	12.5	12.5
105.0							18.0	16.0	14.5	17.1	16.7	15.2	12.5	12.3	11.9
111.5							16.5	15.6	14.5	15.2	15.8	14.9	12.5	11.6	11.2
118.1							14.9	14.9		13.6	14.3	14.5	11.6	11.0	10.5
124.7							13.6	13.8		12.7	12.7	13.4	11.0	10.3	10.1
131.2							12.5	12.7		12.1	11.6	11.9	10.3	9.9	9.7
144.4										9.7	10.1	10.3	9.0	8.8	8.8
157.5										7.9	8.1		7.0	7.7	7.9
170.6										6.8	7.0		5.5	5.9	6.1
183.7													4.1	4.6	4.6
196.9													3.0	3.3	
210.0													1.9	2.2	

70,107 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 30.2 ft			70.2 ft + 3.3 ft + 30.2 ft			112.9 ft + 3.3 ft + 30.2 ft			155.5 ft + 3.3 ft + 30.2 ft			196.6 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4		33.0													
19.7		30.4			33.0										
23.0	33.0	27.9			31.9										
26.2	33.0	26.0	20.5		29.9	21.8		32.4							
29.5	32.6	24.2	19.6		28.2	20.9		30.8							
32.8	29.7	22.7	18.7		26.6	20.2		29.5	21.1						
36.1	27.3	21.3	17.8	33.0	25.3	19.6		28.4	20.5		18.5				
39.4	25.1	20.2	17.1	33.0	24.2	18.9		27.3	20.0		18.5				
45.9	21.6	18.2	16.0	30.6	22.0	17.8		25.5	19.1		18.5	18.5			
52.5	18.7	16.7	15.2	26.8	20.2	16.9		23.8	18.2		18.5	18.5		12.5	
59.1	16.5	15.4		23.8	18.9	16.0	32.6	22.2	17.6	18.5	18.5	18.0		12.5	12.5
65.6	14.7	14.7		21.1	17.6	15.4	29.5	21.1	16.9	18.5	18.5	17.6		12.5	12.5
72.2				19.1	16.5	14.9	25.3	20.0	16.5	18.5	18.5	17.1		12.5	12.5
78.7				17.4	15.8	14.7	23.1	18.9	15.8	18.5	18.5	16.7	12.5	12.5	12.5
85.3				16.0	15.2		20.7	18.0	15.4	18.5	18.5	16.3	12.5	12.5	12.5
91.9				14.7	14.7		18.5	17.4	15.2	16.9	18.0	15.8	12.5	12.5	12.5
98.4							16.3	16.7	14.7	16.0	15.8	15.4	12.5	12.5	12.5
105.0							14.3	15.2	14.5	14.1	14.5	14.5	12.5	12.3	11.9
111.5							12.7	13.4	13.6	12.5	13.2	13.4	11.6	11.6	11.2
118.1							11.2	11.6		11.9	11.6	12.1	10.1	11.0	10.5
124.7							9.9	10.3		10.5	10.8	10.5	8.8	9.7	10.1
131.2							9.2	9.2		9.4	10.1	10.1	7.7	8.3	9.0
144.4										7.4	7.9	8.1	5.7	6.3	6.8
157.5										5.9	6.1		4.1	4.6	5.0
170.6										4.4	4.6		2.8	3.3	3.5
183.7														1.9	2.2

48,061 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 30.2 ft			70.2 ft + 3.3 ft + 30.2 ft			112.9 ft + 3.3 ft + 30.2 ft			155.5 ft + 3.3 ft + 30.2 ft			196.6 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4		33.0													
19.7		30.4			33.0										
23.0	33.0	27.9			31.9										
26.2	33.0	26.0	20.5		29.9	21.8		32.4							
29.5	32.6	24.2	19.6		28.2	20.9		30.8							
32.8	29.7	22.7	18.7		26.6	20.2		29.5	21.1						
36.1	27.3	21.3	17.8	33.0	25.3	19.6		28.4	20.5		18.5				
39.4	25.1	20.2	17.1	33.0	24.2	18.9		27.3	20.0		18.5				
45.9	21.6	18.2	16.0	30.6	22.0	17.8		25.5	19.1		18.5	18.5			
52.5	18.7	16.7	15.2	26.8	20.2	16.9		23.8	18.2		18.5	18.5		12.5	
59.1	16.5	15.4		23.8	18.9	16.0	29.1	22.2	17.6	18.5	18.5	18.0		12.5	12.5
65.6	14.7	14.7		21.1	17.6	15.4	25.7	21.1	16.9	18.5	18.5	17.6		12.5	12.5
72.2				19.1	16.5	14.9	21.6	20.0	16.5	18.5	18.5	17.1		12.5	12.5
78.7				17.4	15.8	14.7	18.5	18.9	15.8	16.5	18.0	16.7	12.5	12.5	12.5
85.3				15.8	15.2		15.6	16.7	15.4	15.4	16.5	16.3	12.5	12.5	12.5
91.9				14.7	14.7		13.8	14.5	15.2	14.3	14.3	15.2	12.1	12.5	12.5
98.4							12.7	12.5	13.0	12.3	13.4	13.0	10.5	11.6	12.5
105.0							11.6	11.6	11.6	10.8	11.6	12.3	9.0	10.1	10.8
111.5							10.8	10.5	10.8	9.2	10.1	10.5	7.4	8.5	9.2
118.1							9.7	9.9		8.1	8.8	9.2	6.3	7.2	7.9
124.7							8.5	8.8		7.0	7.7	8.1	5.2	5.9	6.6
131.2							7.7	7.9		5.9	6.6	7.0	4.1	5.0	5.5
144.4										4.4	4.8	5.0	2.6	3.3	3.7
157.5										3.0	3.3				2.2
170.6										1.9	2.2				

22,046 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 30.2 ft			70.2 ft + 3.3 ft + 30.2 ft			112.9 ft + 3.3 ft + 30.2 ft			155.5 ft + 3.3 ft + 30.2 ft			196.6 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4		33.0													
19.7		30.4			33.0										
23.0	33.0	27.9			31.9										
26.2	33.0	26.0	20.5		29.9	21.8		32.4							
29.5	32.6	24.2	19.6		28.2	20.9		30.8							
32.8	29.7	22.7	18.7		26.6	20.2		29.5	21.1						
36.1	27.3	21.3	17.8	33.0	25.3	19.6		28.4	20.5		18.5				
39.4	25.1	20.2	17.1	33.0	24.2	18.9		27.3	20.0		18.5				
45.9	21.6	18.2	16.0	30.6	22.0	17.8		25.5	19.1		18.5	18.5			
52.5	18.7	16.7	15.2	26.6	20.2	16.9		23.8	18.2		18.5	18.5		12.5	
59.1	16.5	15.4		22.9	18.9	16.0	21.6	22.2	17.6	16.5	18.5	18.0		12.5	12.5
65.6	14.7	14.7		19.4	17.6	15.4	18.2	18.9	16.9	15.2	16.5	17.1		12.5	12.5
72.2				16.0	16.5	14.9	16.3	16.5	16.3	14.1	14.3	15.6		12.5	12.5
78.7				13.6	14.3	14.7	13.6	14.5	14.5	12.1	13.2	14.3	9.0	10.5	11.6
85.3				11.6	12.1		11.6	12.5	13.4	10.1	11.2	12.1	7.4	8.8	9.9
91.9				9.9	10.3		9.9	10.5	11.4	8.3	9.4	10.1	5.9	7.2	8.1
98.4							8.3	9.0	9.7	6.8	7.7	8.5	4.6	5.7	6.8
105.0							7.2	7.7	8.3	5.5	6.3	7.0	3.5	4.6	5.5
111.5							6.1	6.6	7.0	4.6	5.2	5.9		3.5	4.4
118.1							5.0	5.5		3.5	4.1	4.8			3.3
124.7							4.4	4.6		2.6	3.3	3.7			
131.2							3.5	3.7		1.9	2.6	2.8			

13,228 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 30.2 ft			70.2 ft + 3.3 ft + 30.2 ft			112.9 ft + 3.3 ft + 30.2 ft			155.5 ft + 3.3 ft + 30.2 ft			196.6 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4		33.0													
19.7		30.4			33.0										
23.0	33.0	27.9			31.9										
26.2	33.0	26.0	20.5		29.9	21.8		32.4							
29.5	32.6	24.2	19.6		28.2	20.9		30.8							
32.8	29.7	22.7	18.7		26.6	20.2		29.5	21.1						
36.1	27.3	21.3	17.8	33.0	25.3	19.6		28.4	20.5		18.5				
39.4	25.1	20.2	17.1	33.0	24.2	18.9		27.3	20.0		18.5				
45.9	21.6	18.2	16.0	30.2	22.0	17.8		25.5	19.1		18.5	18.5			
52.5	18.7	16.7	15.2	24.6	20.2	16.9		22.9	18.2		18.5	18.5		12.5	
59.1	16.5	15.4		19.8	18.9	16.0	20.0	20.5	17.6	14.9	16.5	17.4		12.5	12.5
65.6	14.7	14.7		16.3	17.4	15.4	16.3	17.1	16.9	13.6	14.3	15.4		12.1	12.5
72.2				13.4	14.3	14.9	13.4	14.7	15.6	11.4	12.7	14.1		9.9	11.2
78.7				11.2	11.9	12.3	11.2	12.3	13.4	9.4	10.8	11.9	6.6	8.1	9.2
85.3				9.4	9.9		9.4	10.3	11.2	7.9	9.0	9.9	5.0	6.3	7.4
91.9				7.9	8.1		7.9	8.5	9.4	6.1	7.2	8.1	3.9	5.0	6.1
98.4							6.6	7.2	7.9	5.0	5.9	6.6		3.9	4.8
105.0							5.5	5.9	6.6	3.7	4.6	5.2			3.5
111.5							4.4	4.8	5.5	2.8	3.7	4.1			
118.1							3.5	3.9		1.9	2.6	3.3			
124.7							2.8	3.0			1.9	2.4			
131.2							2.2	2.4							

6,393 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 30.2 ft			70.2 ft + 3.3 ft + 30.2 ft			112.9 ft + 3.3 ft + 30.2 ft			155.5 ft + 3.3 ft + 30.2 ft			196.6 ft + 3.3 ft + 30.2 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4		33.0													
19.7		30.4			33.0										
23.0	33.0	27.9			31.9										
26.2	33.0	26.0	20.5		29.9	21.8		32.4							
29.5	32.6	24.2	19.6		28.2	20.9		30.8							
32.8	29.7	22.7	18.7		26.6	20.2		29.5	21.1						
36.1	27.3	21.3	17.8	33.0	25.3	19.6		28.4	20.5		18.5				
39.4	25.1	20.2	17.1	33.0	24.2	18.9		27.3	20.0		18.5				
45.9	21.6	18.2	16.0	27.3	22.0	17.8		24.4	19.1		18.5	18.5			
52.5	18.7	16.7	15.2	21.3	20.2	16.9		21.1	18.2		16.5	18.0		12.5	
59.1	16.5	15.4		16.9	18.2	16.0	16.9	18.5	17.6	13.6	14.3	15.8		12.1	12.5
65.6	13.4	13.8		13.8	14.7	15.4	13.8	15.2	16.5	11.2	12.7	14.1		9.7	11.2
72.2				11.2	12.1	12.7	11.2	12.3	13.6	9.0	10.5	11.6		7.7	9.0
78.7				9.2	9.9	10.3	9.2	10.1	11.2	7.4	8.5	9.7		5.9	7.2
85.3				7.4	8.1		7.4	8.3	9.2	5.9	7.0	7.9		4.6	5.7
91.9				6.1	6.6		6.1	6.8	7.7	4.6	5.7	6.3			4.4
98.4							4.8	5.5	6.3	3.3	4.4	5.0			
105.0							3.9	4.4	5.0	2.4	3.3	3.9			
111.5							3.0	3.5	3.9		2.2	2.8			
118.1							2.4	2.6							
124.7								1.9							

93,476 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 55.7 ft			70.2 ft + 3.3 ft + 55.7 ft			112.9 ft + 3.3 ft + 55.7 ft			155.5 ft + 3.3 ft + 55.7 ft			196.6 ft + 3.3 ft + 55.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.5	17.1														
13.1	17.1														
14.8	17.1														
16.4	17.1			16.3											
19.7	16.7			16.3											
23.0	15.8			16.3											
26.2	14.7	11.9		16.0			14.1								
29.5	13.8	11.2		15.4	11.4		14.1								
32.8	13.2	10.5		14.5	11.0		14.1								
36.1	12.3	10.1		13.8	10.5		14.1	10.5		10.3					
39.4	11.6	9.7		13.4	10.1		14.1	10.3		10.3					
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7		10.3					
52.5	9.4	8.1	7.2	11.2	8.8	7.4	12.5	9.2	7.4	10.3	9.0		7.9		
59.1	8.8	7.4	6.8	10.3	8.3	7.0	11.6	8.8	7.2	10.3	8.5		7.9		
65.6	8.1	7.0	6.6	9.7	7.7	6.8	11.0	8.3	7.0	10.3	8.1	6.8	7.9	7.7	
72.2	7.4	6.8	6.3	9.0	7.4	6.6	10.3	7.9	6.8	10.3	7.9	6.6	7.9	7.4	
78.7	7.0	6.3	6.1	8.3	7.0	6.3	9.7	7.7	6.6	9.9	7.7	6.3	7.9	7.2	
85.3	6.6	6.1	6.1	7.9	6.8	6.1	9.2	7.2	6.3	9.4	7.2	6.3	7.9	7.0	6.1
91.9	6.3	6.1		7.4	6.6	6.1	8.8	7.0	6.1	9.2	7.0	6.1	7.9	6.8	5.9
98.4				7.0	6.3	5.9	8.3	6.8	6.1	8.8	6.8	5.9	7.9	6.6	5.9
105.0				6.8	6.1	5.9	7.9	6.6	5.9	8.3	6.6	5.9	7.9	6.3	5.7
111.5				6.6	5.9		7.7	6.3	5.9	8.1	6.6	5.7	7.9	6.3	5.5
118.1				6.3	5.9		7.2	6.1	5.7	7.9	6.3	5.7	7.7	6.1	5.5
124.7							7.0	6.1	5.7	7.4	6.1	5.5	7.4	5.9	5.5
131.2							6.8	5.9	5.7	7.2	5.9	5.5	7.2	5.9	5.2
144.4							6.3	5.7	5.5	6.8	5.7	5.2	6.8	5.7	5.0
157.5							6.1	5.7		6.6	5.5	5.2	6.3	5.5	5.0
170.6										6.1	5.5	5.2	5.9	5.2	4.8
183.7										5.7	5.2		4.6	5.0	4.8
196.9										4.8	5.0		3.5	4.1	4.4
210.0													2.6	3.0	
223.1														1.9	

70,107 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 55.7 ft			70.2 ft + 3.3 ft + 55.7 ft			112.9 ft + 3.3 ft + 55.7 ft			155.5 ft + 3.3 ft + 55.7 ft			196.6 ft + 3.3 ft + 55.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.5	17.1														
13.1	17.1														
14.8	17.1														
16.4	17.1			16.3											
19.7	16.7			16.3											
23.0	15.8			16.3											
26.2	14.7	11.9		16.0			14.1								
29.5	13.8	11.2		15.4	11.4		14.1								
32.8	13.2	10.5		14.5	11.0		14.1								
36.1	12.3	10.1		13.8	10.5		14.1	10.5		10.3					
39.4	11.6	9.7		13.4	10.1		14.1	10.3		10.3					
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7		10.3					
52.5	9.4	8.1	7.2	11.2	8.8	7.4	12.5	9.2	7.4	10.3	9.0		7.9		
59.1	8.8	7.4	6.8	10.3	8.3	7.0	11.6	8.8	7.2	10.3	8.5		7.9		
65.6	8.1	7.0	6.6	9.7	7.7	6.8	11.0	8.3	7.0	10.3	8.1	6.8	7.9	7.7	
72.2	7.4	6.8	6.3	9.0	7.4	6.6	10.3	7.9	6.8	10.3	7.9	6.6	7.9	7.4	
78.7	7.0	6.3	6.1	8.3	7.0	6.3	9.7	7.7	6.6	9.9	7.7	6.3	7.9	7.2	
85.3	6.6	6.1	6.1	7.9	6.8	6.1	9.2	7.2	6.3	9.4	7.2	6.3	7.9	7.0	6.1
91.9	6.3	6.1		7.4	6.6	6.1	8.8	7.0	6.1	9.2	7.0	6.1	7.9	6.8	5.9
98.4				7.0	6.3	5.9	8.3	6.8	6.1	8.8	6.8	5.9	7.9	6.6	5.9
105.0				6.8	6.1	5.9	7.9	6.6	5.9	8.3	6.6	5.9	7.9	6.3	5.7
111.5				6.6	5.9		7.7	6.3	5.9	8.1	6.6	5.7	7.9	6.3	5.5
118.1				6.3	5.9		7.2	6.1	5.7	7.9	6.3	5.7	7.7	6.1	5.5
124.7							7.0	6.1	5.7	7.4	6.1	5.5	7.4	5.9	5.5
131.2							6.8	5.9	5.7	7.2	5.9	5.5	7.2	5.9	5.2
144.4							6.3	5.7	5.5	6.8	5.7	5.2	6.3	5.7	5.0
157.5							6.1	5.7		6.3	5.5	5.2	4.6	5.5	5.0
170.6										5.0	5.2	5.0	3.3	4.1	4.8
183.7										3.9	4.4		2.2	2.8	3.3
196.9										3.0	3.3				2.2

48,061 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 55.7 ft			70.2 ft + 3.3 ft + 55.7 ft			112.9 ft + 3.3 ft + 55.7 ft			155.5 ft + 3.3 ft + 55.7 ft			196.6 ft + 3.3 ft + 55.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.5	17.1														
13.1	17.1														
14.8	17.1														
16.4	17.1			16.3											
19.7	16.7			16.3											
23.0	15.8			16.3											
26.2	14.7	11.9		16.0			14.1								
29.5	13.8	11.2		15.4	11.4		14.1								
32.8	13.2	10.5		14.5	11.0		14.1								
36.1	12.3	10.1		13.8	10.5		14.1	10.5		10.3					
39.4	11.6	9.7		13.4	10.1		14.1	10.3		10.3					
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7		10.3					
52.5	9.4	8.1	7.2	11.2	8.8	7.4	12.5	9.2	7.4	10.3	9.0		7.9		
59.1	8.8	7.4	6.8	10.3	8.3	7.0	11.6	8.8	7.2	10.3	8.5		7.9		
65.6	8.1	7.0	6.6	9.7	7.7	6.8	11.0	8.3	7.0	10.3	8.1	6.8	7.9	7.7	
72.2	7.4	6.8	6.3	9.0	7.4	6.6	10.3	7.9	6.8	10.3	7.9	6.6	7.9	7.4	
78.7	7.0	6.3	6.1	8.3	7.0	6.3	9.7	7.7	6.6	9.9	7.7	6.3	7.9	7.2	
85.3	6.6	6.1	6.1	7.9	6.8	6.1	9.2	7.2	6.3	9.4	7.2	6.3	7.9	7.0	6.1
91.9	6.3	6.1		7.4	6.6	6.1	8.8	7.0	6.1	9.2	7.0	6.1	7.9	6.8	5.9
98.4				7.0	6.3	5.9	8.3	6.8	6.1	8.8	6.8	5.9	7.9	6.6	5.9
105.0				6.8	6.1	5.9	7.9	6.6	5.9	8.3	6.6	5.9	7.9	6.3	5.7
111.5				6.6	5.9		7.7	6.3	5.9	7.9	6.6	5.7	7.9	6.3	5.5
118.1				6.3	5.9		7.2	6.1	5.7	7.7	6.3	5.7	7.0	6.1	5.5
124.7							7.0	6.1	5.7	7.2	6.1	5.5	5.9	5.9	5.5
131.2							6.6	5.9	5.7	6.6	5.9	5.5	4.8	5.9	5.2
144.4							6.3	5.7	5.5	5.0	5.7	5.2	3.3	4.4	5.0
157.5							5.5	5.5		3.7	4.4	4.8		2.8	3.5
170.6										2.4	3.0	3.3			2.2
183.7											1.9				

22,046 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 55.7 ft			70.2 ft + 3.3 ft + 55.7 ft			112.9 ft + 3.3 ft + 55.7 ft			155.5 ft + 3.3 ft + 55.7 ft			196.6 ft + 3.3 ft + 55.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.5	17.1														
13.1	17.1														
14.8	17.1														
16.4	17.1			16.3											
19.7	16.7			16.3											
23.0	15.8			16.3											
26.2	14.7	11.9		16.0			14.1								
29.5	13.8	11.2		15.4	11.4		14.1								
32.8	13.2	10.5		14.5	11.0		14.1								
36.1	12.3	10.1		13.8	10.5		14.1	10.5		10.3					
39.4	11.6	9.7		13.4	10.1		14.1	10.3		10.3					
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7		10.3					
52.5	9.4	8.1	7.2	11.2	8.8	7.4	12.5	9.2	7.4	10.3	9.0		7.9		
59.1	8.8	7.4	6.8	10.3	8.3	7.0	11.6	8.8	7.2	10.3	8.5		7.9		
65.6	8.1	7.0	6.6	9.7	7.7	6.8	11.0	8.3	7.0	10.3	8.1	6.8	7.9	7.7	
72.2	7.4	6.8	6.3	9.0	7.4	6.6	10.3	7.9	6.8	10.3	7.9	6.6	7.9	7.4	
78.7	7.0	6.3	6.1	8.3	7.0	6.3	9.7	7.7	6.6	9.7	7.7	6.3	7.9	7.2	
85.3	6.6	6.1	6.1	7.9	6.8	6.1	9.0	7.2	6.3	9.2	7.2	6.3	7.7	7.0	6.1
91.9	6.3	6.1		7.4	6.6	6.1	8.5	7.0	6.1	8.5	7.0	6.1	6.3	6.8	5.9
98.4				7.0	6.3	5.9	8.1	6.8	6.1	7.7	6.8	5.9	5.0	6.6	5.9
105.0				6.8	6.1	5.9	7.7	6.6	5.9	6.3	6.6	5.9	3.9	5.9	5.7
111.5				6.6	5.9		7.0	6.3	5.7	5.2	6.3	5.7		4.8	5.5
118.1				6.3	5.9		6.1	6.1	5.7	4.1	5.5	5.7		3.7	5.0
124.7							5.2	5.9	5.5	3.5	4.6	5.5			4.1
131.2							4.4	5.2	5.5	2.6	3.7	4.6			
144.4							3.3	3.7	3.9		2.2	2.8			
157.5							2.2	2.4							

13,228 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 55.7 ft			70.2 ft + 3.3 ft + 55.7 ft			112.9 ft + 3.3 ft + 55.7 ft			155.5 ft + 3.3 ft + 55.7 ft			196.6 ft + 3.3 ft + 55.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.5	17.1														
13.1	17.1														
14.8	17.1														
16.4	17.1			16.3											
19.7	16.7			16.3											
23.0	15.8			16.3											
26.2	14.7	11.9		16.0			14.1								
29.5	13.8	11.2		15.4	11.4		14.1								
32.8	13.2	10.5		14.5	11.0		14.1								
36.1	12.3	10.1		13.8	10.5		14.1	10.5		10.3					
39.4	11.6	9.7		13.4	10.1		14.1	10.3		10.3					
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7		10.3					
52.5	9.4	8.1	7.2	11.2	8.8	7.4	12.5	9.2	7.4	10.3	9.0		7.9		
59.1	8.8	7.4	6.8	10.3	8.3	7.0	11.6	8.8	7.2	10.3	8.5		7.9		
65.6	8.1	7.0	6.6	9.7	7.7	6.8	11.0	8.3	7.0	10.3	8.1	6.8	7.9	7.7	
72.2	7.4	6.8	6.3	9.0	7.4	6.6	10.1	7.9	6.8	9.4	7.9	6.6	7.9	7.4	
78.7	7.0	6.3	6.1	8.3	7.0	6.3	9.7	7.7	6.6	8.5	7.7	6.3	7.0	7.2	
85.3	6.6	6.1	6.1	7.9	6.8	6.1	8.8	7.2	6.3	8.3	7.2	6.3	5.5	7.0	6.1
91.9	6.3	6.1		7.4	6.6	6.1	8.3	7.0	6.1	7.0	7.0	6.1	4.1	6.3	5.9
98.4				7.0	6.3	5.9	7.7	6.8	6.1	5.7	6.6	5.9		5.0	5.9
105.0				6.8	6.1	5.9	6.3	6.3	5.9	4.6	6.1	5.9		3.9	5.5
111.5				5.9	5.9		5.5	6.1	5.7	3.5	5.0	5.7			4.4
118.1				5.0	5.5		4.6	5.5	5.5	2.6	3.9	5.0			
124.7							3.7	4.6	5.2	1.9	3.0	3.9			
131.2							3.0	3.7	4.1		2.4	3.0			
144.4							1.9	2.4	2.6						

6,393 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 55.7 ft			70.2 ft + 3.3 ft + 55.7 ft			112.9 ft + 3.3 ft + 55.7 ft			155.5 ft + 3.3 ft + 55.7 ft			196.6 ft + 3.3 ft + 55.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.5	17.1														
13.1	17.1														
14.8	17.1														
16.4	17.1			16.3											
19.7	16.7			16.3											
23.0	15.8			16.3											
26.2	14.7	11.9		16.0			14.1								
29.5	13.8	11.2		15.4	11.4		14.1								
32.8	13.2	10.5		14.5	11.0		14.1								
36.1	12.3	10.1		13.8	10.5		14.1	10.5		10.3					
39.4	11.6	9.7		13.4	10.1		14.1	10.3		10.3					
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7		10.3					
52.5	9.4	8.1	7.2	11.2	8.8	7.4	12.5	9.2	7.4	10.3	9.0		7.9		
59.1	8.8	7.4	6.8	10.3	8.3	7.0	11.6	8.8	7.2	10.3	8.5		7.9		
65.6	8.1	7.0	6.6	9.7	7.7	6.8	10.8	8.3	7.0	9.4	8.1	6.8	7.9	7.7	
72.2	7.4	6.8	6.3	9.0	7.4	6.6	10.1	7.9	6.8	8.5	7.9	6.6	6.6	7.4	
78.7	7.0	6.3	6.1	8.3	7.0	6.3	9.2	7.7	6.6	7.9	7.7	6.3	5.0	7.2	
85.3	6.6	6.1	6.1	7.9	6.8	6.1	8.8	7.2	6.3	6.3	7.2	6.3		5.9	6.1
91.9	6.3	6.1		7.4	6.6	6.1	7.2	7.0	6.1	5.2	6.8	6.1		4.6	5.9
98.4				6.6	6.3	5.9	5.9	6.6	5.9	4.1	5.7	5.9			5.2
105.0				5.5	6.1	5.9	5.0	6.1	5.7	3.0	4.6	5.7			
111.5				4.6	5.2		4.1	5.0	5.7		3.7	4.8			
118.1				3.9	4.1		3.3	4.1	4.8		2.6	3.7			
124.7							2.6	3.3	3.9			2.8			
131.2							1.9	2.6	3.0						

93,476 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 78.7 ft			70.2 ft + 3.3 ft + 78.7 ft			112.9 ft + 3.3 ft + 78.7 ft			155.5 ft + 3.3 ft + 78.7 ft			196.6 ft + 3.3 ft + 78.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4	11.2														
19.7	11.2														
23.0	11.2			10.8											
26.2	11.2			10.8											
29.5	11.2			10.8			8.8								
32.8	11.2			10.8			9.2								
36.1	11.2			10.8			9.2								
39.4	11.2	10.3		10.8			9.2								
45.9	11.0	9.7		10.8	9.7		9.2			7.2					
52.5	10.1	8.8		10.8	9.0		9.2	9.0		7.2					
59.1	9.0	8.1		10.3	8.5		9.2	8.5		7.2			5.9		
65.6	7.9	7.2	6.3	9.9	8.1	6.6	9.2	8.3		7.2	7.2		5.9		
72.2	7.0	6.8	5.9	9.0	7.7	6.1	9.2	7.9	6.3	7.2	7.2		5.9		
78.7	6.3	6.1	5.5	8.1	7.0	5.9	9.2	7.7	6.1	7.2	7.2		5.9		
85.3	5.7	5.7	5.0	7.4	6.6	5.5	9.0	7.2	5.9	7.2	7.0		5.9	5.9	
91.9	5.2	5.2	4.8	6.8	6.1	5.2	8.5	7.0	5.7	7.2	7.0	5.7	5.9	5.9	
98.4	4.8	5.0	4.6	6.1	5.9	5.0	8.1	6.8	5.5	7.2	6.8	5.5	5.9	5.9	
105.0	4.4	4.8	4.4	5.7	5.5	4.8	7.4	6.3	5.2	7.2	6.6	5.2	5.9	5.9	5.5
111.5	4.1	4.6		5.2	5.2	4.6	7.0	6.1	5.0	7.2	6.3	5.2	5.9	5.9	5.2
118.1				5.0	5.0	4.6	6.6	5.9	4.8	7.2	6.1	5.0	5.9	5.9	5.0
124.7				4.6	4.8	4.4	6.1	5.5	4.8	7.2	6.1	5.0	5.9	5.7	5.0
131.2				4.4	4.6	4.4	5.7	5.2	4.6	6.8	5.9	4.8	5.9	5.7	4.8
144.4				3.9			5.0	5.0	4.4	6.1	5.5	4.6	5.9	5.5	4.6
157.5							4.6	4.6	4.4	5.5	5.2	4.4	5.5	5.2	4.4
170.6							4.1	4.4		5.0	4.8	4.4	4.8	4.6	4.1
183.7							3.9	4.4		4.6	4.6	4.1	4.4	4.1	4.1
196.9										4.1	4.4	4.1	3.7	3.7	3.7
210.0										3.7	4.1		2.6	3.5	3.5
223.1										3.0	3.3			2.4	2.8

70,107 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 78.7 ft			70.2 ft + 3.3 ft + 78.7 ft			112.9 ft + 3.3 ft + 78.7 ft			155.5 ft + 3.3 ft + 78.7 ft			196.6 ft + 3.3 ft + 78.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4	11.2														
19.7	11.2														
23.0	11.2			10.8											
26.2	11.2			10.8											
29.5	11.2			10.8			8.8								
32.8	11.2			10.8			9.2								
36.1	11.2			10.8			9.2								
39.4	11.2	10.3		10.8			9.2								
45.9	11.0	9.7		10.8	9.7		9.2			7.2					
52.5	10.1	8.8		10.8	9.0		9.2	9.0		7.2					
59.1	9.0	8.1		10.3	8.5		9.2	8.5		7.2			5.9		
65.6	7.9	7.2	6.3	9.9	8.1	6.6	9.2	8.3		7.2	7.2		5.9		
72.2	7.0	6.8	5.9	9.0	7.7	6.1	9.2	7.9	6.3	7.2	7.2		5.9		
78.7	6.3	6.1	5.5	8.1	7.0	5.9	9.2	7.7	6.1	7.2	7.2		5.9		
85.3	5.7	5.7	5.0	7.4	6.6	5.5	9.0	7.2	5.9	7.2	7.0		5.9	5.9	
91.9	5.2	5.2	4.8	6.8	6.1	5.2	8.5	7.0	5.7	7.2	7.0	5.7	5.9	5.9	
98.4	4.8	5.0	4.6	6.1	5.9	5.0	8.1	6.8	5.5	7.2	6.8	5.5	5.9	5.9	
105.0	4.4	4.8	4.4	5.7	5.5	4.8	7.4	6.3	5.2	7.2	6.6	5.2	5.9	5.9	5.5
111.5	4.1	4.6		5.2	5.2	4.6	7.0	6.1	5.0	7.2	6.3	5.2	5.9	5.9	5.2
118.1				5.0	5.0	4.6	6.6	5.9	4.8	7.2	6.1	5.0	5.9	5.9	5.0
124.7				4.6	4.8	4.4	6.1	5.5	4.8	7.2	6.1	5.0	5.9	5.7	5.0
131.2				4.4	4.6	4.4	5.7	5.2	4.6	6.8	5.9	4.8	5.9	5.7	4.8
144.4				3.9			5.0	5.0	4.4	6.1	5.5	4.6	5.9	5.5	4.6
157.5							4.6	4.6	4.4	5.5	5.2	4.4	4.8	5.2	4.4
170.6							4.1	4.4		4.8	4.8	4.4	3.5	4.6	4.1
183.7							3.9	4.4		4.1	4.6	4.1	2.2	3.3	4.1
196.9										3.0	3.7	3.9		2.2	2.8
210.0										2.2	2.6				

93,476 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 101.7 ft			70.2 ft + 3.3 ft + 101.7 ft			112.9 ft + 3.3 ft + 101.7 ft			155.5 ft + 3.3 ft + 101.7 ft			196.6 ft + 3.3 ft + 101.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
23.0	7.7														
26.2	7.7			7.2											
29.5	7.7			7.2											
32.8	7.7			7.2											
36.1	7.7			7.2			6.3								
39.4	7.7			7.2			6.3								
45.9	7.7			7.2			6.3								
52.5	7.7	7.4		7.2			6.3			5.2					
59.1	7.4	6.6		7.2	7.0		6.3			5.2					
65.6	6.6	5.9		7.2	6.6		6.3	6.3		5.2			4.4		
72.2	5.7	5.5		7.0	5.9		6.3	6.3		5.2			4.4		
78.7	5.0	5.0	4.1	6.3	5.5		6.3	5.9		5.2	5.2		4.4		
85.3	4.6	4.6	3.9	5.7	5.0	4.1	6.3	5.7		5.2	5.2		4.4		
91.9	4.1	4.1	3.7	5.2	4.8	3.9	6.3	5.2	3.9	5.2	5.2		4.4		
98.4	3.7	3.9	3.5	4.6	4.4	3.7	6.1	5.0	3.7	5.2	5.2		4.4	4.4	
105.0	3.3	3.5	3.3	4.4	4.1	3.5	5.5	4.6	3.7	5.2	4.8	3.7	4.4	4.1	
111.5	3.0	3.3	3.0	3.9	3.9	3.3	5.0	4.4	3.5	5.2	4.6	3.5	4.4	4.1	
118.1	2.8	3.0	2.8	3.5	3.7	3.0	4.8	4.1	3.3	5.2	4.4	3.5	4.4	4.1	
124.7	2.4	2.8	2.6	3.3	3.5	3.0	4.4	3.9	3.3	5.2	4.4	3.3	4.4	4.1	
131.2	2.2	2.8	2.6	3.0	3.3	2.8	4.1	3.7	3.0	4.8	4.1	3.3	4.4	3.9	3.0
144.4				2.6	2.8	2.6	3.5	3.5	2.8	4.4	3.7	3.0	4.4	3.9	2.8
157.5				2.2	2.6	2.6	3.0	3.3	2.8	3.7	3.5	2.8	4.1	3.5	2.8
170.6							2.8	2.8	2.6	3.3	3.3	2.6	3.7	3.3	2.6
183.7							2.4	2.8	2.6	3.0	3.0	2.4	3.3	3.0	2.4
196.9							2.2	2.6		2.8	2.8	2.4	3.0	2.8	2.4
210.0							1.9			2.4	2.6	2.4	2.6	2.6	2.2
223.1										2.2	2.6			2.2	2.2
236.2										1.9	2.4				

70,107 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 3.3 ft + 101.7 ft			70.2 ft + 3.3 ft + 101.7 ft			112.9 ft + 3.3 ft + 101.7 ft			155.5 ft + 3.3 ft + 101.7 ft			196.6 ft + 3.3 ft + 101.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
23.0	7.7														
26.2	7.7			7.2											
29.5	7.7			7.2											
32.8	7.7			7.2											
36.1	7.7			7.2			6.3								
39.4	7.7			7.2			6.3								
45.9	7.7			7.2			6.3								
52.5	7.7	7.4		7.2			6.3			5.2					
59.1	7.4	6.6		7.2	7.0		6.3			5.2					
65.6	6.6	5.9		7.2	6.6		6.3	6.3		5.2			4.4		
72.2	5.7	5.5		7.0	5.9		6.3	6.3		5.2			4.4		
78.7	5.0	5.0	4.1	6.3	5.5		6.3	5.9		5.2	5.2		4.4		
85.3	4.6	4.6	3.9	5.7	5.0	4.1	6.3	5.7		5.2	5.2		4.4		
91.9	4.1	4.1	3.7	5.2	4.8	3.9	6.3	5.2	3.9	5.2	5.2		4.4		
98.4	3.7	3.9	3.5	4.6	4.4	3.7	6.1	5.0	3.7	5.2	5.2		4.4	4.4	
105.0	3.3	3.5	3.3	4.4	4.1	3.5	5.5	4.6	3.7	5.2	4.8	3.7	4.4	4.1	
111.5	3.0	3.3	3.0	3.9	3.9	3.3	5.0	4.4	3.5	5.2	4.6	3.5	4.4	4.1	
118.1	2.8	3.0	2.8	3.5	3.7	3.0	4.8	4.1	3.3	5.2	4.4	3.5	4.4	4.1	
124.7	2.4	2.8	2.6	3.3	3.5	3.0	4.4	3.9	3.3	5.2	4.4	3.3	4.4	4.1	
131.2	2.2	2.8	2.6	3.0	3.3	2.8	4.1	3.7	3.0	4.8	4.1	3.3	4.4	3.9	3.0
144.4				2.6	2.8	2.6	3.5	3.5	2.8	4.4	3.7	3.0	4.4	3.9	2.8
157.5				2.2	2.6	2.6	3.0	3.3	2.8	3.7	3.5	2.8	4.1	3.5	2.8
170.6							2.8	2.8	2.6	3.3	3.3	2.6	3.5	3.3	2.6
183.7							2.4	2.8	2.6	3.0	3.0	2.4	2.4	3.0	2.4
196.9							2.2	2.6		2.6	2.8	2.4		2.6	2.4
210.0							1.9			2.2	2.6	2.4			2.2
223.1											2.2				

Working range · Rayon de travail · Zona de trabajo

Lifting capacities · Charges de levage · Cargas

93,476 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 5.2 ft + 24.3 ft			70.2 ft + 5.2 ft + 24.3 ft			112.9 ft + 5.2 ft + 24.3 ft			155.5 ft + 5.2 ft + 24.3 ft			196.9 ft + 5.2 ft + 24.3 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
9.8	16.0														
11.5	16.0			16.0											
13.1	16.0			16.0											
14.8	16.0			16.0			16.0								
16.4	16.0			16.0			16.0								
19.7	16.0	16.0		16.0	16.0		16.0								
23.0	16.0	16.0		16.0	16.0		16.0								
26.2	16.0	15.4	9.7	16.0	16.0		16.0	16.0		16.0					
29.5	16.0	14.5	9.7	16.0	16.0	9.9	16.0	16.0		16.0					
32.8	16.0	13.8	9.4	16.0	15.8	9.7	16.0	16.0	9.9	16.0					
36.1	16.0	13.4	9.4	16.0	15.4	9.7	16.0	16.0	9.9	16.0	16.0				
39.4	15.6	12.7	9.4	16.0	14.7	9.4	16.0	16.0	9.7	16.0	16.0	9.9	11.9		
45.9	13.4	11.9		16.0	13.8	9.4	16.0	15.8	9.7	16.0	16.0	9.7	11.9		
52.5	11.9	11.4		16.0	13.0	9.2	16.0	14.9	9.4	16.0	16.0	9.7	11.9	11.9	9.7
59.1	10.8			15.2	12.3		16.0	14.3	9.4	16.0	15.6	9.4	11.9	11.6	9.7
65.6				13.6	11.9		16.0	13.6	9.2	16.0	15.2	9.4	11.9	11.2	9.4
72.2				12.5	11.4		16.0	13.2	9.2	16.0	14.5	9.2	11.2	10.5	9.4
78.7				11.4	11.2		16.0	12.5	9.2	16.0	14.1	9.2	10.5	10.1	9.4
85.3				10.5			15.4	12.3		15.8	13.6	9.2	10.1	9.7	9.2
91.9				10.1			14.3	11.9		15.2	13.2	9.2	9.4	9.2	9.0
98.4							13.2	11.6		14.3	12.7	9.2	9.0	8.8	8.5
105.0							12.5	11.4		13.4	12.3		8.5	8.3	8.3
111.5							11.6	11.2		12.5	12.1		8.1	7.9	7.9
118.1							11.2	11.2		11.4	11.9		7.7	7.4	7.4
124.7							10.5			10.1	10.8		7.2	7.0	
131.2							10.1			9.0	9.2		6.6	6.6	
144.4										7.4	7.7		5.9	5.7	
157.5										5.7	5.9		4.8	5.0	
170.6										4.1			3.5	3.7	
183.7													1.9	2.2	

70,107 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 5.2 ft + 24.3 ft			70.2 ft + 5.2 ft + 24.3 ft			112.9 ft + 5.2 ft + 24.3 ft			155.5 ft + 5.2 ft + 24.3 ft			196.9 ft + 5.2 ft + 24.3 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
9.8	16.0														
11.5	16.0			16.0											
13.1	16.0			16.0											
14.8	16.0			16.0			16.0								
16.4	16.0			16.0			16.0								
19.7	16.0	16.0		16.0	16.0		16.0								
23.0	16.0	16.0		16.0	16.0		16.0								
26.2	16.0	15.4	9.7	16.0	16.0		16.0	16.0		16.0					
29.5	16.0	14.5	9.7	16.0	16.0	9.9	16.0	16.0		16.0					
32.8	16.0	13.8	9.4	16.0	15.8	9.7	16.0	16.0	9.9	16.0					
36.1	16.0	13.4	9.4	16.0	15.4	9.7	16.0	16.0	9.9	16.0	16.0				
39.4	15.6	12.7	9.4	16.0	14.7	9.4	16.0	16.0	9.7	16.0	16.0	9.9	11.9		
45.9	13.4	11.9		16.0	13.8	9.4	16.0	15.8	9.7	16.0	16.0	9.7	11.9		
52.5	11.9	11.4		16.0	13.0	9.2	16.0	14.9	9.4	16.0	16.0	9.7	11.9	11.9	9.7
59.1	10.8			15.2	12.3		16.0	14.3	9.4	16.0	15.6	9.4	11.9	11.6	9.7
65.6				13.6	11.9		16.0	13.6	9.2	16.0	15.2	9.4	11.9	11.2	9.4
72.2				12.5	11.4		16.0	13.2	9.2	16.0	14.5	9.2	11.2	10.5	9.4
78.7				11.4	11.2		16.0	12.5	9.2	16.0	14.1	9.2	10.5	10.1	9.4
85.3				10.5			15.4	12.3		15.8	13.6	9.2	10.1	9.7	9.2
91.9				10.1			14.3	11.9		15.2	13.2	9.2	9.4	9.2	9.0
98.4							13.2	11.6		13.0	12.7	9.2	9.0	8.8	8.5
105.0							12.5	11.4		11.6	11.9		8.5	8.3	8.3
111.5							11.2	11.2		10.5	10.5		8.1	7.9	7.9
118.1							9.7	9.9		9.0	9.7		7.7	7.4	7.4
124.7							8.1			8.1	8.3		7.0	7.0	
131.2							7.0			7.4	7.4		5.9	6.6	
144.4										5.5	5.7		3.7	4.4	
157.5										3.7	3.9		2.2	2.6	
170.6										2.4					

93,476 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 5.2 ft + 40.7 ft			70.2 ft + 5.2 ft + 40.7 ft			112.9 ft + 5.2 ft + 40.7 ft			155.5 ft + 5.2 ft + 40.7 ft			196.9 ft + 5.2 ft + 40.7 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
11.5	9.4														
13.1	9.4														
14.8	9.4			9.4											
16.4	9.4			9.4											
19.7	9.4			9.4			9.4								
23.0	9.4			9.4			9.4								
26.2	9.4			9.4			9.4								
29.5	9.4	9.4		9.4	9.4		9.4								
32.8	9.4	9.0		9.4	9.4		9.4			9.4					
36.1	9.4	8.5		9.4	9.4		9.4	9.4		9.4					
39.4	9.4	8.1		9.4	9.0		9.4	9.4		9.4					
45.9	9.0	7.2		9.4	8.3	5.2	9.4	9.2		9.4			8.3		
52.5	7.9	6.8		9.4	7.7	5.0	9.4	8.5	5.2	9.4	8.5		8.3		
59.1	7.0	6.3		9.4	7.2	5.0	9.4	8.3	5.0	9.4	8.1	5.2	8.3		
65.6	6.3	5.9		8.5	6.8	5.0	9.4	7.9	5.0	9.4	7.9	5.0	8.3	7.4	
72.2	5.7	5.7		7.7	6.3	5.0	9.4	7.4	5.0	9.4	7.7	5.0	8.3	7.2	5.0
78.7	5.2			7.0	6.1		9.4	7.0	4.8	9.4	7.4	5.0	8.3	7.0	5.0
85.3				6.6	5.9		9.0	6.8	4.8	9.4	7.0	4.8	8.3	6.8	5.0
91.9				5.9	5.7		8.3	6.6	4.8	9.4	7.0	4.8	8.3	6.6	4.8
98.4				5.7	5.7		7.9	6.3		9.0	6.8	4.8	8.1	6.6	4.8
105.0				5.2			7.2	6.1		8.8	6.6	4.8	7.7	6.3	4.8
111.5							6.8	5.9		8.3	6.3	4.8	7.4	6.1	4.8
118.1							6.6	5.7		8.1	6.1		7.0	5.9	4.8
124.7							6.1	5.7		7.7	6.1		6.6	5.9	4.8
131.2							5.9	5.7		7.4	5.9		6.1	5.7	4.8
144.4							5.2			6.8	5.7		5.2	5.2	
157.5										6.1	5.7		4.6	4.6	
170.6										5.2	5.5		4.1	4.1	
183.7										3.9			3.0	3.5	
196.9													1.9	2.2	

70,107 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 5.2 ft + 40.7 ft			70.2 ft + 5.2 ft + 40.7 ft			112.9 ft + 5.2 ft + 40.7 ft			155.5 ft + 5.2 ft + 40.7 ft			196.9 ft + 5.2 ft + 40.7 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
11.5	9.4														
13.1	9.4														
14.8	9.4			9.4											
16.4	9.4			9.4											
19.7	9.4			9.4			9.4								
23.0	9.4			9.4			9.4								
26.2	9.4			9.4			9.4								
29.5	9.4	9.4		9.4	9.4		9.4								
32.8	9.4	9.0		9.4	9.4		9.4			9.4					
36.1	9.4	8.5		9.4	9.4		9.4	9.4		9.4					
39.4	9.4	8.1		9.4	9.0		9.4	9.4		9.4					
45.9	9.0	7.2		9.4	8.3	5.2	9.4	9.2		9.4			8.3		
52.5	7.9	6.8		9.4	7.7	5.0	9.4	8.5	5.2	9.4	8.5		8.3		
59.1	7.0	6.3		9.4	7.2	5.0	9.4	8.3	5.0	9.4	8.1	5.2	8.3		
65.6	6.3	5.9		8.5	6.8	5.0	9.4	7.9	5.0	9.4	7.9	5.0	8.3	7.4	
72.2	5.7	5.7		7.7	6.3	5.0	9.4	7.4	5.0	9.4	7.7	5.0	8.3	7.2	5.0
78.7	5.2			7.0	6.1		9.4	7.0	4.8	9.4	7.4	5.0	8.3	7.0	5.0
85.3				6.6	5.9		9.0	6.8	4.8	9.4	7.0	4.8	8.3	6.8	5.0
91.9				5.9	5.7		8.3	6.6	4.8	9.4	7.0	4.8	8.3	6.6	4.8
98.4				5.7	5.7		7.9	6.3		9.0	6.8	4.8	8.1	6.6	4.8
105.0				5.2			7.2	6.1		8.8	6.6	4.8	7.7	6.3	4.8
111.5							6.8	5.9		8.3	6.3	4.8	7.4	6.1	4.8
118.1							6.6	5.7		8.1	6.1		7.0	5.9	4.8
124.7							6.1	5.7		7.7	6.1		6.6	5.9	4.8
131.2							5.9	5.7		7.4	5.9		6.1	5.7	4.8
144.4							5.2			6.3	5.7		4.8	5.2	
157.5										4.8	5.5		3.3	3.9	
170.6										3.5	3.7			2.4	
183.7										2.2					

93,476 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 5.2 ft + 57.1 ft			70.2 ft + 5.2 ft + 57.1 ft			112.9 ft + 5.2 ft + 57.1 ft			155.5 ft + 5.2 ft + 57.1 ft			196.9 ft + 5.2 ft + 57.1 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
14.8	7.2														
16.4	7.2														
19.7	7.2			7.2											
23.0	7.2			7.2			7.2								
26.2	7.2			7.2			7.2								
29.5	7.2			7.2			7.2								
32.8	7.2			7.2			7.2								
36.1	7.2			7.2			7.2								
39.4	7.2	5.7		7.2			7.2			7.0					
45.9	6.8	5.0		7.2	5.5		7.2			7.0					
52.5	6.1	4.6		7.0	5.0		7.2	5.2		7.0			5.7		
59.1	5.5	4.1		6.6	4.8	3.3	7.2	5.0		7.0	4.8		5.7		
65.6	5.0	3.9		6.1	4.4	3.3	6.8	4.8	3.3	7.0	4.8		5.7		
72.2	4.4	3.7		5.7	4.1	3.3	6.3	4.6	3.3	6.6	4.6		5.7		
78.7	3.9	3.5		5.2	3.9	3.0	6.1	4.4	3.3	6.3	4.4	3.3	5.7	4.4	
85.3	3.7	3.3		4.8	3.7	3.0	5.7	4.1	3.0	5.9	4.4	3.0	5.5	4.1	3.0
91.9	3.3	3.3		4.4	3.5		5.5	4.1	3.0	5.7	4.1	3.0	5.5	4.1	3.0
98.4				4.1	3.5		5.2	3.9	3.0	5.5	3.9	3.0	5.2	3.9	3.0
105.0				3.9	3.3		5.0	3.7	3.0	5.2	3.9	3.0	5.2	3.7	3.0
111.5				3.5	3.3		4.8	3.7	3.0	5.0	3.7	3.0	5.0	3.7	3.0
118.1				3.3	3.3		4.6	3.5		4.8	3.7	3.0	4.8	3.7	3.0
124.7				3.3			4.4	3.5		4.6	3.7	3.0	4.6	3.5	3.0
131.2							4.1	3.3		4.6	3.5	3.0	4.6	3.5	3.0
144.4							3.7	3.3		4.1	3.5		4.1	3.3	3.0
157.5							3.3			3.9	3.3		3.9	3.3	
170.6										3.7	3.3		3.7	3.0	
183.7										3.5	3.0		3.5	3.0	
196.9										3.3			2.8	2.8	
210.0														2.2	

70,107 lbs **ASME**

lbs x 1,000

ft	42.0 ft + 5.2 ft + 57.1 ft			70.2 ft + 5.2 ft + 57.1 ft			112.9 ft + 5.2 ft + 57.1 ft			155.5 ft + 5.2 ft + 57.1 ft			196.9 ft + 5.2 ft + 57.1 ft		
	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
14.8	7.2														
16.4	7.2														
19.7	7.2			7.2											
23.0	7.2			7.2			7.2								
26.2	7.2			7.2			7.2								
29.5	7.2			7.2			7.2								
32.8	7.2			7.2			7.2								
36.1	7.2			7.2			7.2								
39.4	7.2	5.7		7.2			7.2			7.0					
45.9	6.8	5.0		7.2	5.5		7.2			7.0					
52.5	6.1	4.6		7.0	5.0		7.2	5.2		7.0			5.7		
59.1	5.5	4.1		6.6	4.8	3.3	7.2	5.0		7.0	4.8		5.7		
65.6	5.0	3.9		6.1	4.4	3.3	6.8	4.8	3.3	7.0	4.8		5.7		
72.2	4.4	3.7		5.7	4.1	3.3	6.3	4.6	3.3	6.6	4.6		5.7		
78.7	3.9	3.5		5.2	3.9	3.0	6.1	4.4	3.3	6.3	4.4	3.3	5.7	4.4	
85.3	3.7	3.3		4.8	3.7	3.0	5.7	4.1	3.0	5.9	4.4	3.0	5.5	4.1	3.0
91.9	3.3	3.3		4.4	3.5		5.5	4.1	3.0	5.7	4.1	3.0	5.5	4.1	3.0
98.4				4.1	3.5		5.2	3.9	3.0	5.5	3.9	3.0	5.2	3.9	3.0
105.0				3.9	3.3		5.0	3.7	3.0	5.2	3.9	3.0	5.2	3.7	3.0
111.5				3.5	3.3		4.8	3.7	3.0	5.0	3.7	3.0	5.0	3.7	3.0
118.1				3.3	3.3		4.6	3.5		4.8	3.7	3.0	4.8	3.7	3.0
124.7				3.3			4.4	3.5		4.6	3.7	3.0	4.6	3.5	3.0
131.2							4.1	3.3		4.6	3.5	3.0	4.6	3.5	3.0
144.4							3.7	3.3		4.1	3.5		4.1	3.3	3.0
157.5							3.3			3.9	3.3		3.9	3.3	
170.6										3.7	3.3		2.6	3.0	
183.7										3.3	3.0			2.4	
196.9										2.2					

EQUIPMENT

ÉQUIPEMENT
EQUIPAMIENTO

Equipment

Carrier

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

Outriggers: 4-point double telescopic hydraulic outriggers incl. asymmetric outrigger base and automatic length detection. Controls on both side of carrier and in superstructure cab. Outrigger base 24.6 ft/ 7.5 m (20.3 ft/ 6.2 m, 16.4 ft/ 5.0 m, 13.5 ft/ 4.1 m, 8.2 ft/ 2.5 m) x 26.2 ft/ 8.0 m.

Engine: Mercedes-Benz 6 cylinder model OM 471 LA (EU Stage V / EPA Tier 4f), water-cooled diesel engine, engine displacement 12.8 l, rated at 530 HP (390 kW) at 1600 min^{-1}. Torque 1,918 ft-lbs/ 2600 Nm (265 kpm) at 1300 min^{-1}. Engine rating acc. to ECE R120. Fuel tank: 159 gal/ 600 l. AdBlue tank: 11 gal/ 40 l.

Transmission: Main transmission: mechanical ZF TraXon 12.1 transmission, with integrated intarder, electro-pneumatically actuated dry clutch and fully automatic transmission control system. 12 forward gears and 2 reverse gears. If necessary, semi-automatic mode (Tip-Tronic) is possible with manual gear selection.

Transfer case: Two-stage.

Drive: 10 x 6

Axles:

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

Suspension: Hydro-pneumatic suspension with levelling adjustment.

Brake system: Air-operated dual-circuit disc brake system with electrical wear indicator and air drier. Parking brake: spring loaded type acting on 2nd, 4th and 5th axles. Intarder and engine brake as continuous service brake.

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

Steering system: ZF Servocom, dual-circuit hydraulic steering with emergency steering pump. Mechanical steering of 1st and 2nd axles and automatic steering of the 3rd and 4th axles up to a travel speed of 18.6 mph/ 30 km/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, 2 batteries, outrigger area lighting, acoustic back-up alarm, lighting system with Bi halogen headlights; LED daytime running light; LED foglights, CAN bus system.

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

Superstructure

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

Engine: Mercedes-Benz 4 cylinder diesel engine, type OM 934 LA (EU Stage V / EPA Tier 4f), water-cooled. The engine speed can be varied progressively via a pedal. Engine displacement 5.1 l. Rated at 175 HP (129 kW) at 1800 min^{-1}. Torque 553 ft-lbs/ 750 Nm (77 kpm) at 1200 - 1600 min^{-1}. Engine rating acc. to ECE R120.
Fuel tank: 55.7 gal/ 211 l. AdBlue tank: 6.6 gal/ 25 l.

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

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

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

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

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

Slewing system: Axial-piston constant-rate motor, three-stage planetary gear with parking brake. Open hydraulic circuit with swing mechanism lock-out. Swing speed steplessly variable from 0 to 1.6 min^{-1}.

Counterweight: Total 93,476 lbs/ 42.4 t, divisible. Controlled from superstructure cab.

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

Electrical system: 24 V DC system, 2 batteries.

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

Dolly kit: Slewing gear unfixed & boom socket.

Optional equipment: (at extra charge) Jib 3.3 ft/ 1 m + 9.2 ft/ 2.8 m to 3.3 ft/ 1 m + 101.7 ft/ 31 m, offsets 0°, 20° and 40° or hydraulically 0°- 40°, HTLJ jib 5.2 ft/ 1.6 m + 24.3 ft/ 7.4 m to 5.2 ft/ 1.6 m + 57.1 ft/ 17.4 m (hydraulically tiltable and telescopable 5° to 60°), 11 US t/ 10 t hook tackle, selection of hook blocks from 35.3 US t/ 32 t to 176.4 US t/ 160 t, 2nd winch, supplementary oil cooler, special paint and lettering, supported forces display. Further optional equipment available upon request.

Châssis

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

Calage: Dispositif de calage horizontal et vertical double en 4 points, entièrement déployable hydrauliquement, y compris distance entre appuis asymétrique et détection de longueur automatique, commande des mouvements sur les deux côtés du porteur et depuis la cabine de la superstructure. Calage 24.6 ft/ 7.5 m (20.3 ft/ 6.2 m, 16.4 ft/ 5.0 m, 13.5 ft/ 4.1 m, 8.2 ft/ 2.5 m) x 26.2 ft/ 8.0 m.

Moteur: Mercedes-Benz diesel 6 cylindres, modèle OM 471 LA (EU Stage V / EPA Tier 4f), refroidi à eau, cylindrée 12,8 l, puissance 530 CV (390 kW) à 1600 min^{-1}. Couple 1,918 ft-lbs/ 2600 Nm (265 kpm) à 1300 min^{-1}. Puissance moteur selon ECE R120. Capacité du réservoir: 159 gal/ 600 l. Capacité du réservoir AdBlue: 11 gal/ 40 l.

Boîte de vitesse: Boîte principale ZF-TraXon 12.1, boîte de vitesses mécanique avec intarder intégré, embrayage à sec électro-pneumatique et commande des vitesses complètement automatique avec 12 vitesses AV et 2 vitesses AR. Si nécessaire, mode partiellement automatique (Tip-Tronic) avec sélection de vitesses manuelle possible.

Boîte de transfert: Boîte de transfert à 2 gammes.

Entraînement: 10 x 6

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

Suspension: Hydro-pneumatique, avec réglage de niveau.

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

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

Direction: Marque ZF Servocom hydraulique à double circuit, avec pompe de secours pour direction Direction mécanique des 1er et 2ème essieux et direction automatique des 3ème et 4ème essieux jusqu'à une vitesse de 18.6 mph/ 30 km/h et du 5ème essieu jusqu'à 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, système du bus CAN.

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

Superstructure

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

Moteur: Mercedes-Benz diesel 4 cylindres, modèle OM 934 LA (EU Stage V / EPA Tier 4f), refroidi par eau. Réglage du nombre de tours en continu par pédale, cylindrée 5,1 l, puissance 175 CV (129 kW) à 1800 min^{-1}. Couple 553 ft-lbs/ 750 Nm (77 kpm) à 1200 - 1600 min^{-1}. Puissance moteur selon ECE R120. Capacité du réservoir: 55.7 gal/ 211 l. Capacité du réservoir AdBlue: 6.6 gal/ 25 l.

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

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

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

Mécanisme de relevage: Un vérin différentiel pourvu d'une valve d'équilibrage limitant la vitesse de descente. Mécanisme de levage: Moteur à cylindrée variable à piston axial, tambour de levage avec boîte planétaire incorporé et frein d'arrêt à disques multiples hydraulique à ressort, libéré lors du levage. Indicateur de rotation du treuil. Câble de levage avec dispositif "Super-Stop".

Groupe de rotation: Moteur à cylindrée constante à pistons axiaux, avec engrenage planétaire de trois étages avec frein d'arrêt. Circuit hydraulique ouvert avec déconnexion du groupe de rotation. Vitesse de rotation réglable progressivement de 0 à 1,6 min^{-1}.

Contrepoids: Total 93,476 lbs/ 42,4 t, divisible. Commande à partir de la cabine de grue.

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

Système électrique: 24 V courant continu, 2 batteries.

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

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

Équipement supplémentaire: (avec supplément de prix) Rallonge de flèche 3.3 ft/ 1 m + 9.2 ft/ 2,8 m à 3.3 ft/ 1 m + 101.7 ft/ 31 m au choix inclinable 0°, 20° et 40° ou hydrauliquement 0° à 40°, rallonge de fleche HTLJ 5.2 ft/ 1,6 m + 24.3 ft/ 7,4 m à 5.2 ft/ 1,6 m + 57.1 ft/ 17,4 m (inclinable et télescopable hydrauliquement de 5° à 60°, ensemble des crochets porte-charge de 11 US t/ 10 t, moufles de 35.3 US t/ 32 t à 176.4 US t/ 160 t, 2ème treuil de levage, radiateur d'huile supplémentaire, peinture spéciale et inscription, affichage des forces d'appui. Autres équipements supplémentaires sur demande.

Equipamiento

Chasis

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

Estabilización: Estabilizadores telescópicos hidráulicos dobles de 4 puntos, incl. base de apoyo asimétrica y detección automática de longitud, posibilidad de manejo desde ambos lados del chasis portante y desde la cabina de la grúa. Extensión de los estabilizadores: 24.6 ft/ 7.5 m (20.3 ft/ 6.2 m, 16.4 ft/ 5.0 m, 13.5 ft/ 4.1 m, 8.2 ft/ 2.5 m) x 26.2 ft/ 8.0 m.

Motor: Mercedes-Benz de 6 cilindros diesel, modelo OM 471 LA (EU Stage V / EPA Tier 4f), refrigerado por agua, cilindrada 12,8 l, potencia: 530 CV (390 kW) a 1.600 min^{-1}. Par: 1,918 ft-lbs/ 2.600 Nm (265 kpm) a 1.300 min^{-1}. Potencia del motor según ECE R120. Depósito de combustible: 159 gal/ 600 l. Depósito AdBlue: 11 gal/ 40 l.

Transmisión: Transmisión principal mecánica del tipo ZF-TraXon 12.1 con intarder integrado, con embrague en seco accionado de modo electro-neumático y cambio automático de 12 marchas hacia delante y 2 marchas atrás. En caso necesario, operación semiautomática (Tip-Tronic) con selección manual de las marchas.

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

Tracción: 10 x 6

Ejes:

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

Suspensión de los ejes: Suspensión hidroneumática con regulación de nivel.

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

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

Dirección: Dirección hidráulica ZF Servocom de doble circuito con bomba hidráulica de emergencia. Dirección mecánica al 1° y 2° eje y direccionable al 3° y 4° eje hasta una velocidad de 18.6 mph/ 30 km/h y al 5° eje hasta 31.1 mph/ 50 km/h.

Cabina del chasis: 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 bihalógenos, luz LED de marcha diurna, faro LED antiniebla, sistema de bus CAN.

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

Superestructura

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

Motor: Mercedes-Benz de 4 cilindros diesel, modelo OM 934 LA (EU Stage V / EPA Tier 4f), refrigerado por agua. Las revoluciones aumentan de forma gradual accionando el acelerador, cilindrada 5,1 l, potencia: 175 CV (129 kW) a 1.800 min^{-1}. Par: 553 ft-lbs/ 750 Nm (77 kpm) a 1.200 - 1.600 min^{-1}. Potencia del motor según ECE R120. Depósito de combustible: 55.7 gal/ 211 l. Depósito AdBlue: 6.6 gal/ 25 l.

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

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

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

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

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

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

Contrapeso: Peso total: 93,476 lbs/ 42,4 t, divisible. Se acciona desde la cabina de la superestructura.

Cabina de la grúa: Cabina de grúa espaciosa en construcción de acero y plástico, cristales tintados de seguridad, puesto de trabajo inclinable con asiento de conductor regulable, amortiguado mecanicamente y calefactable, calefacción adicional independiente del motor con precalefacción del motor, climatizador, radio / reproductor de CD, elementos de control y mando para el manejo de la grúa. Accionamiento de estabilizadores y funciones chasis-motor.

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

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

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

Equipamiento adicional: (con suplemento de precio) Plumín de 3.3 ft/ 1 m + 9.2 ft/ 2,8 m a 3.3 ft/ 1 m + 101.7 ft/ 31 m, regulable opcionalmente de 0°, 20° y 40° (o hidráulicamente 0° a 40°), alargamiento de pluma HTLJ de 5.2 ft/ 1,6 m + 24.3 ft/ 7,4 m a 5.2 ft/ 1,6 m + 57.1 ft/ 17,4 m (telescopable y regulable hidráulicamente de 5° a 60°), accesorios de gancho de 11 US t/ 10 t, pastecas de carga de 35.3 US t/ 32 t a 176.4 US t/ 160 t, 2° cabrestante, radiador de aceite adicional, pintura especial y rotulación, indicador de la fuerza de apoyo. Otros equipamientos adicionales sobre pedido.

ADDITIONAL INFORMATION

INFORMATIONS SUPPLÉMENTAIRES
INFORMACIÓN ADICIONAL

Additional information · Informations supplémentaires · Información adicional

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

1. *The rated lifting capacities conform to ASME B30.5-1.1. Capacities shown are for reference only. Please refer to the original lifting capacity charts for operations.*
2. *For operation in wind, as these limits change with configuration changes, please refer to the cranes lifting capacity charts to determine safe operating limits.*
3. *The lifting capacities are indicated in 1,000 lbs.*
4. *The weight of load handling devices such as hook blocks, slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.*
5. *The lifting capacities for the telescopic boom apply to a crane with no jib being stowed or mounted on the crane.*
6. *The working radius is the horizontal distance from the centre of rotation to the centre of the freely suspended non-oscillating load.*

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

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1. *Las cargas nominales son en conformidad con ASME B30.5-1.1. Las cargas indicadas son únicamente valores indicativos. Para los trabajos, consúltese las tablas de carga originales.*
2. *En función de la longitud de la pluma, las tablas de carga permiten velocidades del viento hasta un máximo de 49 fps/ 15 m/s. Debido a las diferentes secuencias de extensión de los telescopios, puede haber algunas variaciones insignificantes con respecto a las longitudes de pluma indicadas en las tablas de carga.*
3. *Las capacidades de carga indicadas en las tablas se indican en 1,000 lbs.*
4. *Hay que deducir los pesos del gancho, eslingas y de otros dispositivos para fijación de cargas de los valores indicados en las tablas.*
5. *Las capacidades de carga referentes a la pluma telescópica valen solamente si el alargamiento de pluma está desmontado.*
6. *Como alcance se entiende la distancia horizontal desde el centro de la corona de giro hasta el centro de la carga suspendida libremente y no oscilante.*

General remarks · Remarques générales · Notas adicionales

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

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

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

Symbols · Glossaire des symboles · Glosario de simbolos

TOTAL	Gross weight · Poids total · Peso total		Fly jib section · Élément de fléchette · Plumín
	Axle load · Charge à l'essieu · Carga por eje		Hydraulic telescopic and luffing jib HTLJ Fléchette télescopique relevable hydrauliquement HTLJ Plumín hidráulicamente telescopable y regulable HTLJ
	Drive · Entraînement · Tracción		Dolly · Chariot de transport dolly · Carro tipo dolly
	Tyres · Pneus · Neumáticos	360°	Swing area · Rayon de rotation · Zona de giro
	Gradeability · Capacilé de gravissement de pente Superación de pendientes	LOCK	Hydraulically lockable · Verrouillable hydrauliquement Con embulonamiento hidráulico
/	Off road / On road · Tout-terrain / Mode “Route” Todo terreno / En carretera	1	Main winch · Mécanisme de levage Cabrestante principal
	Speed · Vitesse · Velocidad	2	Auxiliary winch · Treuil supplémentaire Cabrestante auxiliar
24.6 ft	Outriggers · Calage · Estabilizadores	CAP	Rated capacity Capacité nominale Capacidad nominal
/ lbs	Counterweight · Contrepoids · Contrapeso	lbs t	Lifting capacity · Charge de levage · Carga Portata
	Counterweight element · Élément de contrepoids Parte del contrapeso		Rope sheaves · Poulies de câbles · Poleas de cable
ft	Length · Longueur · Longitud		Parts of line · Brins de câble · Ramales de cable
	Boom elevation · Mécanisme de relevage Elevación de pluma	lbs kg	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
ft	Radius · Portée · Radio		Maximum wire rope pulling force Force de traction maxi. du câble de levage Fuerza de tracción maxima del cable de elevación
	Fixed jib · Fléchette rigide · Plumín regulable	lbs kg	Weight · Poids · Peso
	Tiltable jib · Fléchette inclinable · Plumín fijo	US t t	= short tons · tonnes américaines · toneladas cortas = metric tons · tonnes métriques · toneladas métricas
HYDRO	Hydraulically tiltable jib Fléchette inclinable hydrauliquement Plumín regulable hidráulicamente	ASME	Standard by The American Society of Mechanical Engineers Norme délivrée par The American Society of Mechanical Engineers Norma emitida por The American Society of Mechanical Engineers

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