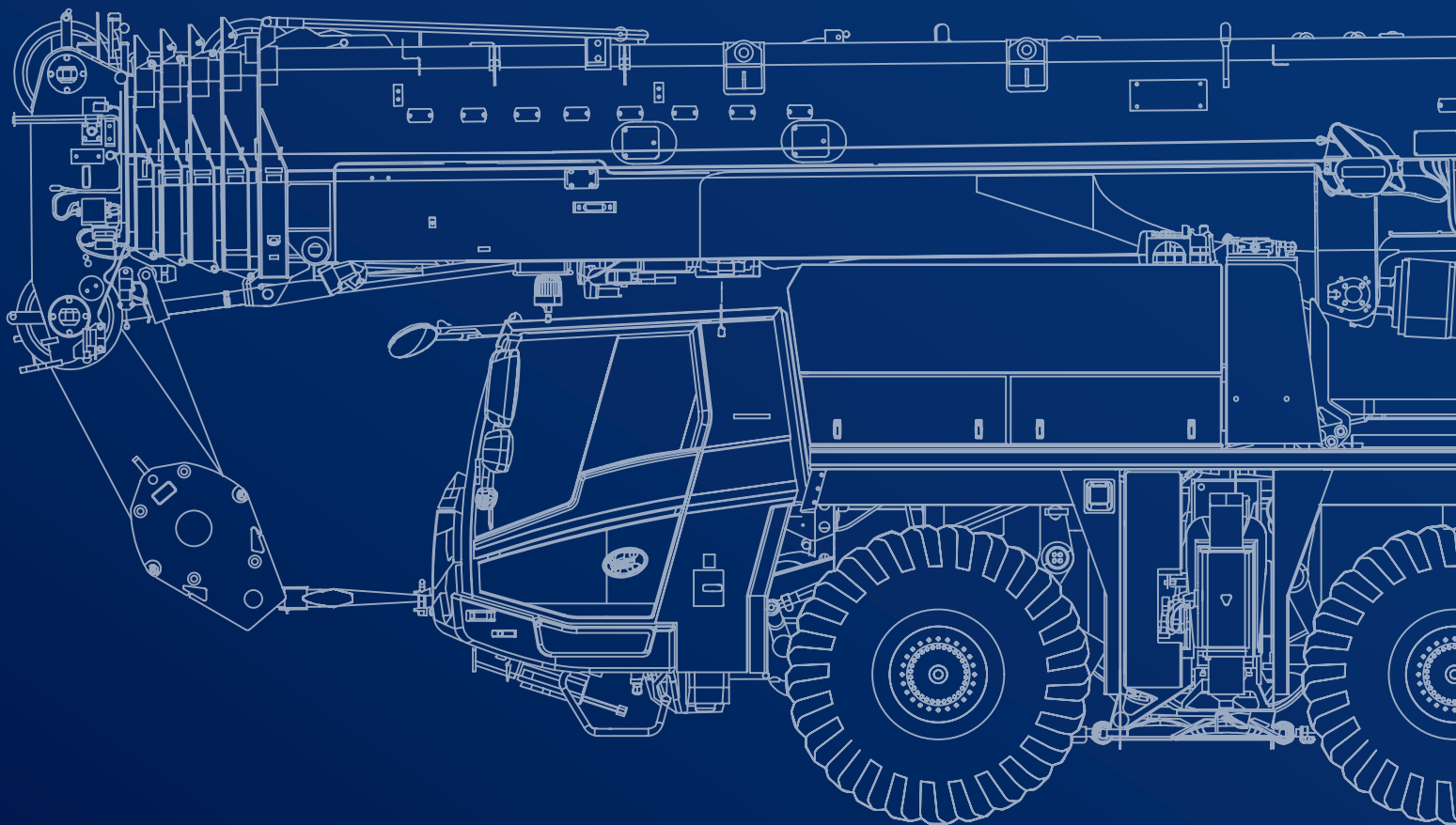


AC 5.140-1

160 US TON MAX. CRANE CAPACITY



- Suitable for alternative fuels





December 2024. Unless otherwise specified, all information in this brochure refers to a standard crane equipment, and it is intended as general information only. No liability is assumed. Errors reserved. Product specifications and prices are subject to changes without notice. The photographs and/or drawings in this brochure are for illustrative purposes only. For correct and safe crane operation, the original operating manual and lifting capacity charts are essential. Failure to follow the corresponding Operator's Manual when using our equipment or failure to otherwise act responsibly may result in property damage, serious injury or death. The sole warranty applicable with respect to our equipment is the standard warranty as per general terms and conditions of sales and service (ask your local Tadano dealer for details), and Tadano makes no other warranty, express or implied. All rights reserved. Any use of the trademarks, logos, brand names and model names used herein is prohibited.

© Tadano Ltd. 2024

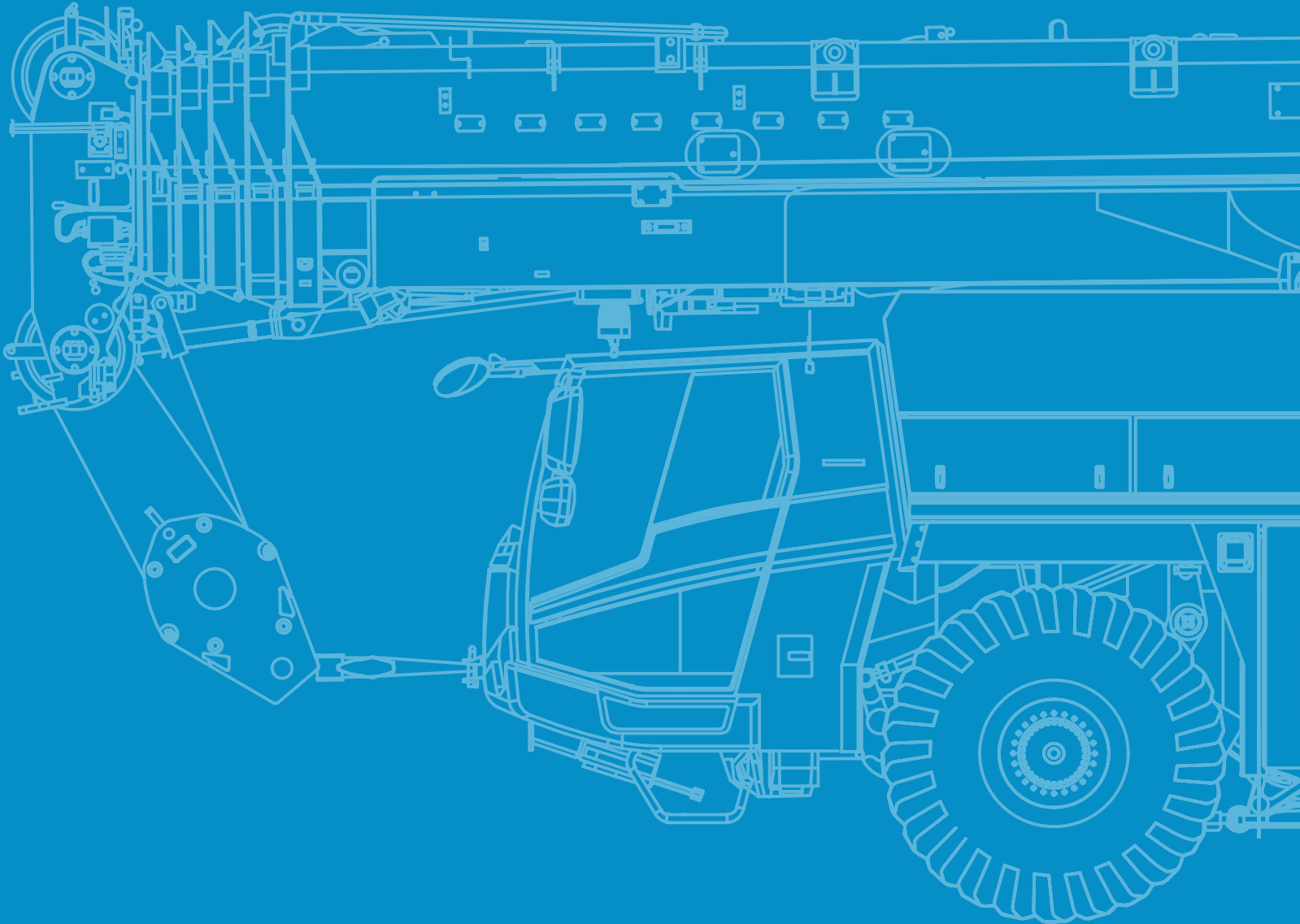
Contents

General	5
Vehicle dimensions	6
Boom combinations	7
On-road and off-road driving	9
Axle loads	10
Speeds and gradeability	10
Steering	10
Transportation	11
Counterweight	12-13
Configurations	12
Jib	14-15
Operation	17
Main boom	19
Slewing	19
Hoist	19
Outrigger cylinders	19
Hook Blocks	19
MB: Main boom	20-29
FJ: Folding swing-away jib	30-45
HTLJ: Hydraulically telescopable and tiltable jib	46-51
Notes to Lifting Capacity	52
Technical Description	53
Basic machine	54
Additional equipment	55

Key

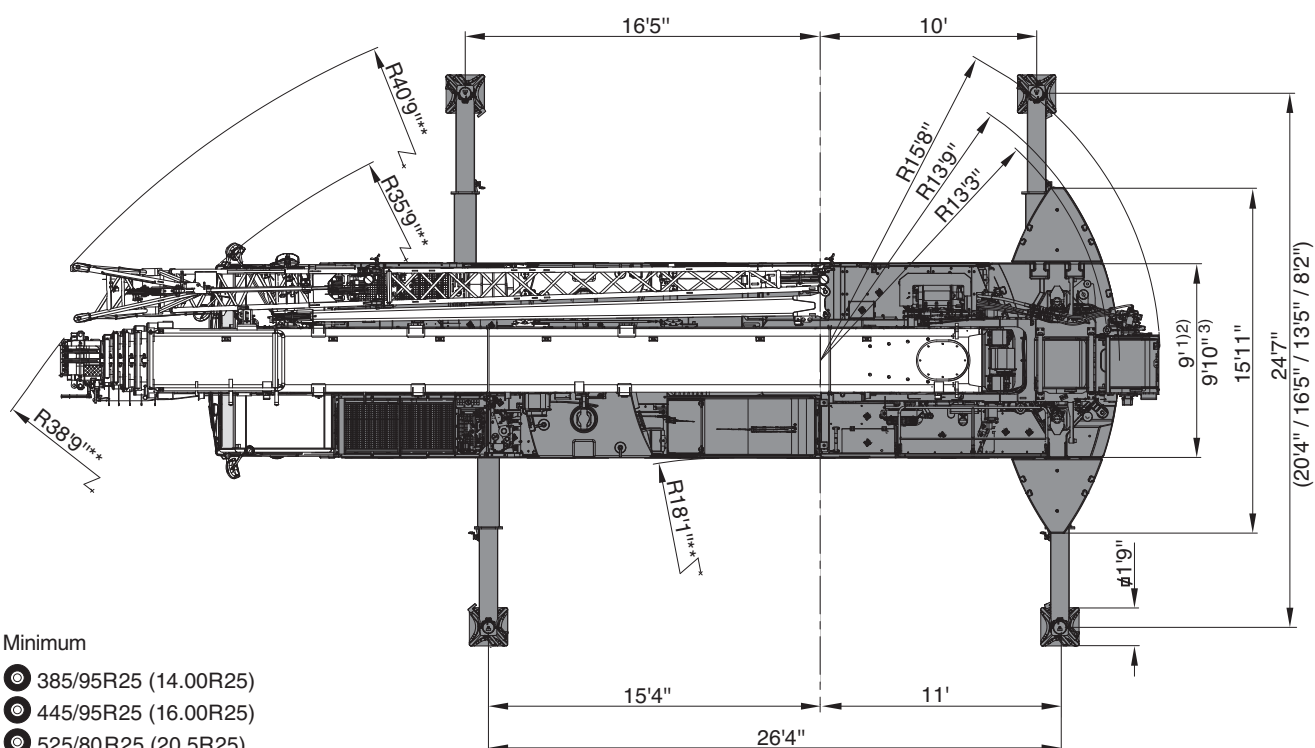
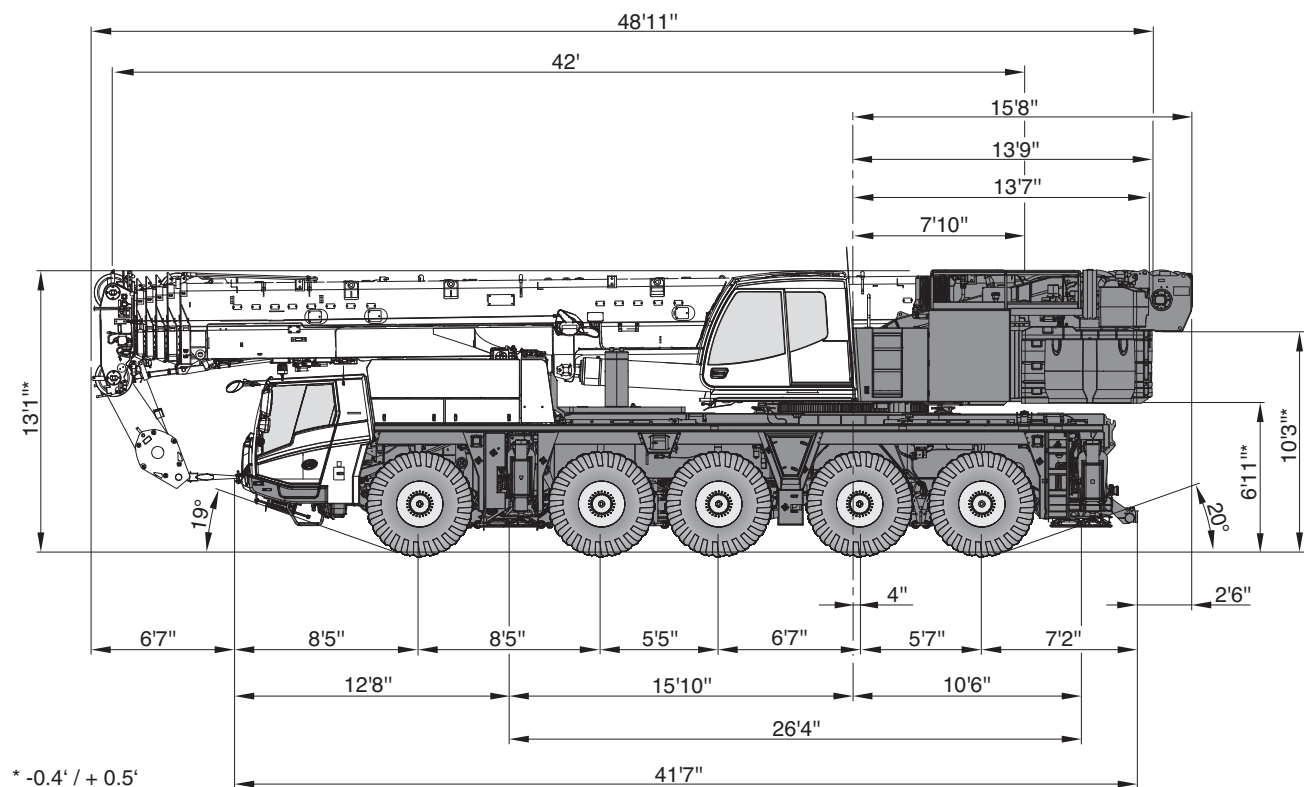
	Counterweight		Boom telescoping
	Lifting capacities on outriggers - 360°		Boom elevation
	Radius		Slewing
	Main boom		Max. line pull
	Folding swing-away jib		Rope diameter
	Max. axle loads		Rope length
	Mechanism		Hook block
	Tires		Number of lines
	Hook block		Possible load of hook block
	Hoist		Weight of hook block
	Travel speed		Distance head sheave axle – hook ground
	Gradeability		Number of sheaves in hook block
	Off road / On road		Max. outrigger load
	Working speeds		Length of stroke (support cylinders)

GENERAL TECHNICAL DATA



General

Vehicle dimensions

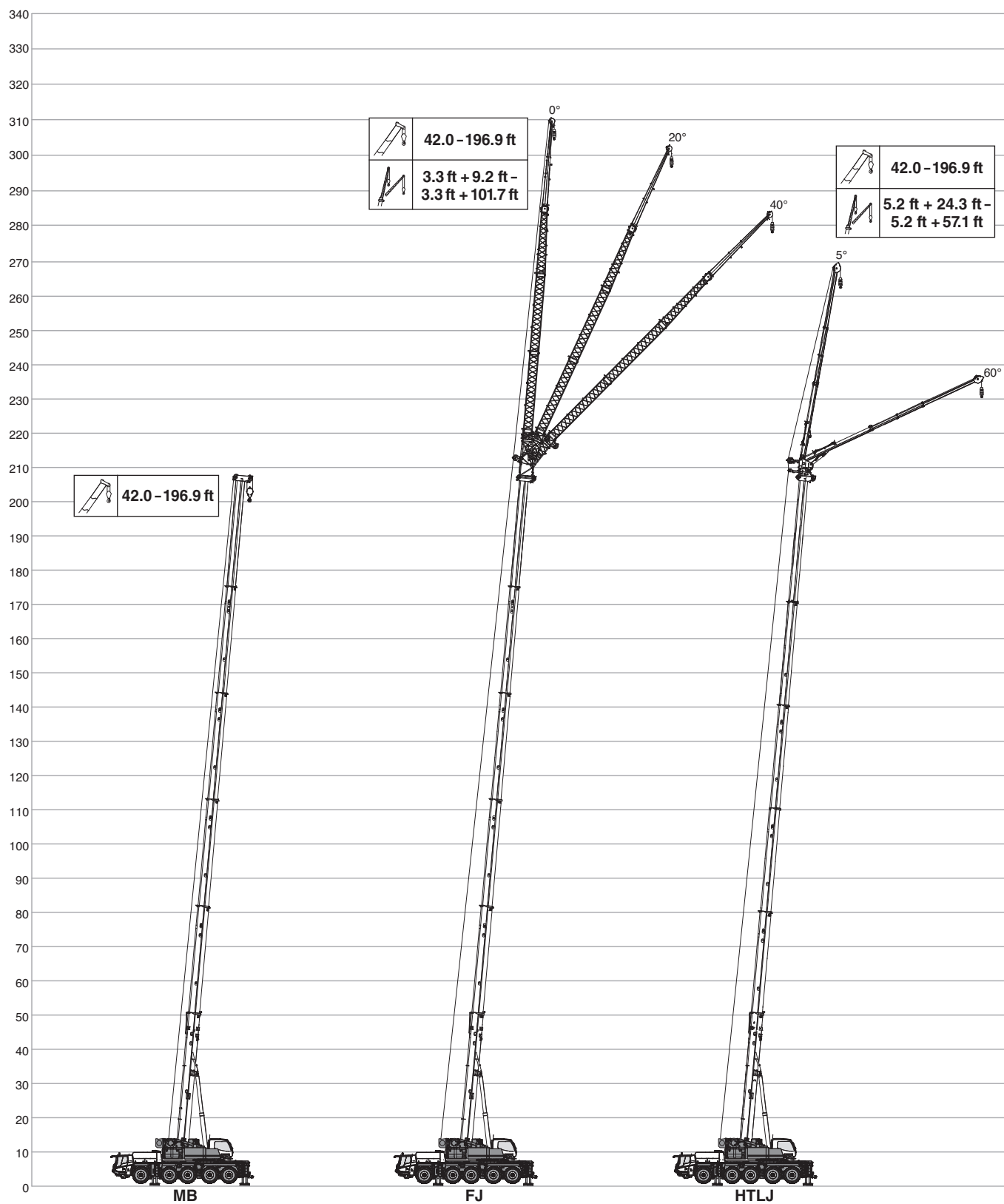


** Minimum

- 1) 385/95R25 (14.00R25)
- 2) 445/95R25 (16.00R25)
- 3) 525/80R25 (20.5R25)

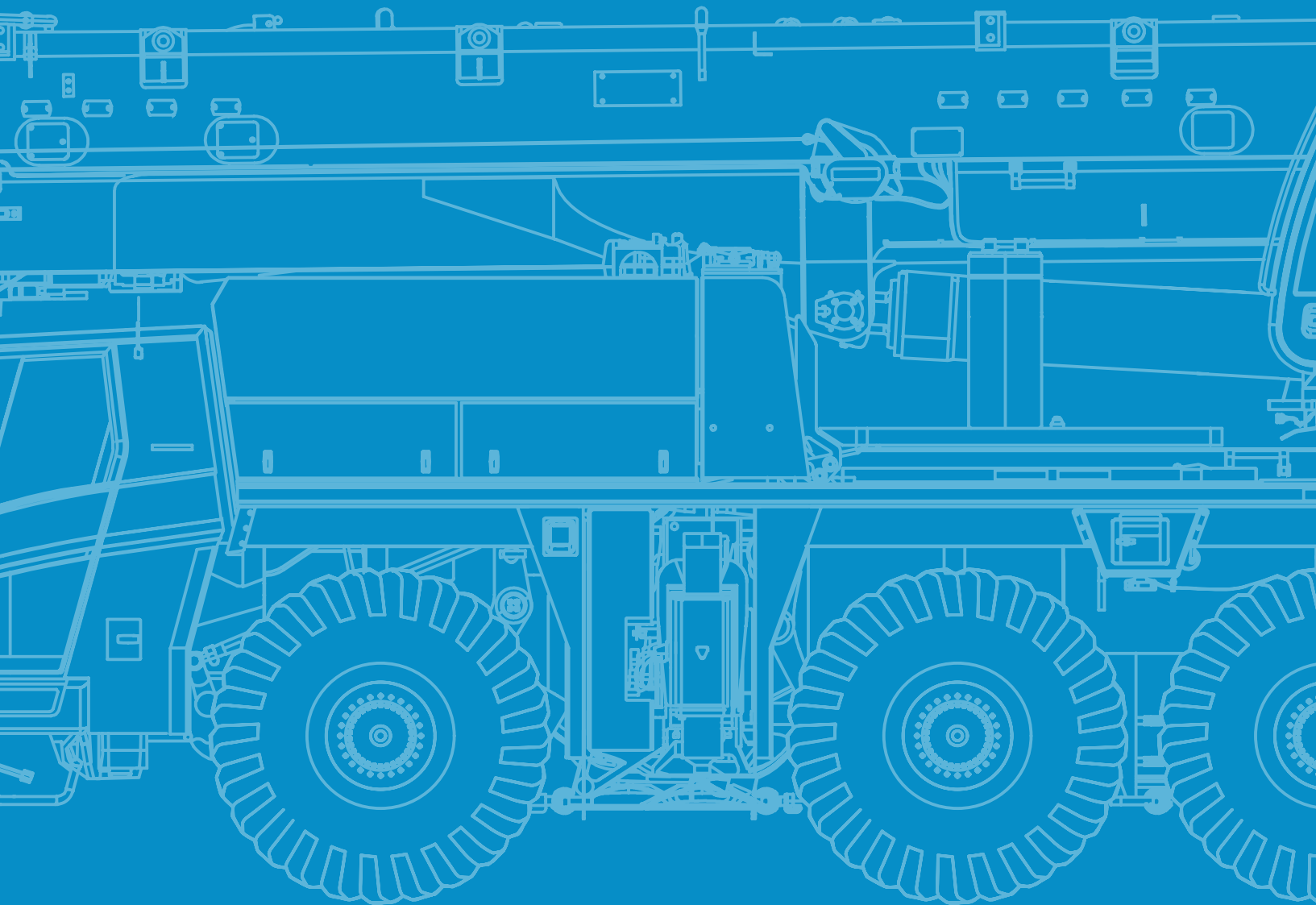
General

Boom combinations



Notes

TECHNICAL DATA FOR ON-ROAD AND OFF-ROAD DRIVING



On-road and off-road driving

Axle loads

	Total					
< 25,250 lbs	< 125,700 lbs	10 x 8	525/95R25	138,900 lbs	3.3 ft + 55.7 ft	6,400 lbs
< 26,500 lbs	< 132,300 lbs	10 x 8	445/95R25	138,900/22,050 lbs	3.3 ft + 55.7 ft	13,200 lbs
< 26,500 lbs	< 132,300 lbs	10 x 8	445/95R25	138,900 lbs	—	18,300 lbs
< 28,700 lbs	< 141,100 lbs	10 x 8	445/95R25	138,900/22,050 lbs	3.3 ft + 55.7 ft	22,050 lbs
< 36,400 lbs	< 166,500 lbs	10 x 8	445/95R25	138,900/22,050 lbs	3.3 ft + 55.7 ft	48,100 lbs

Speeds and gradeability

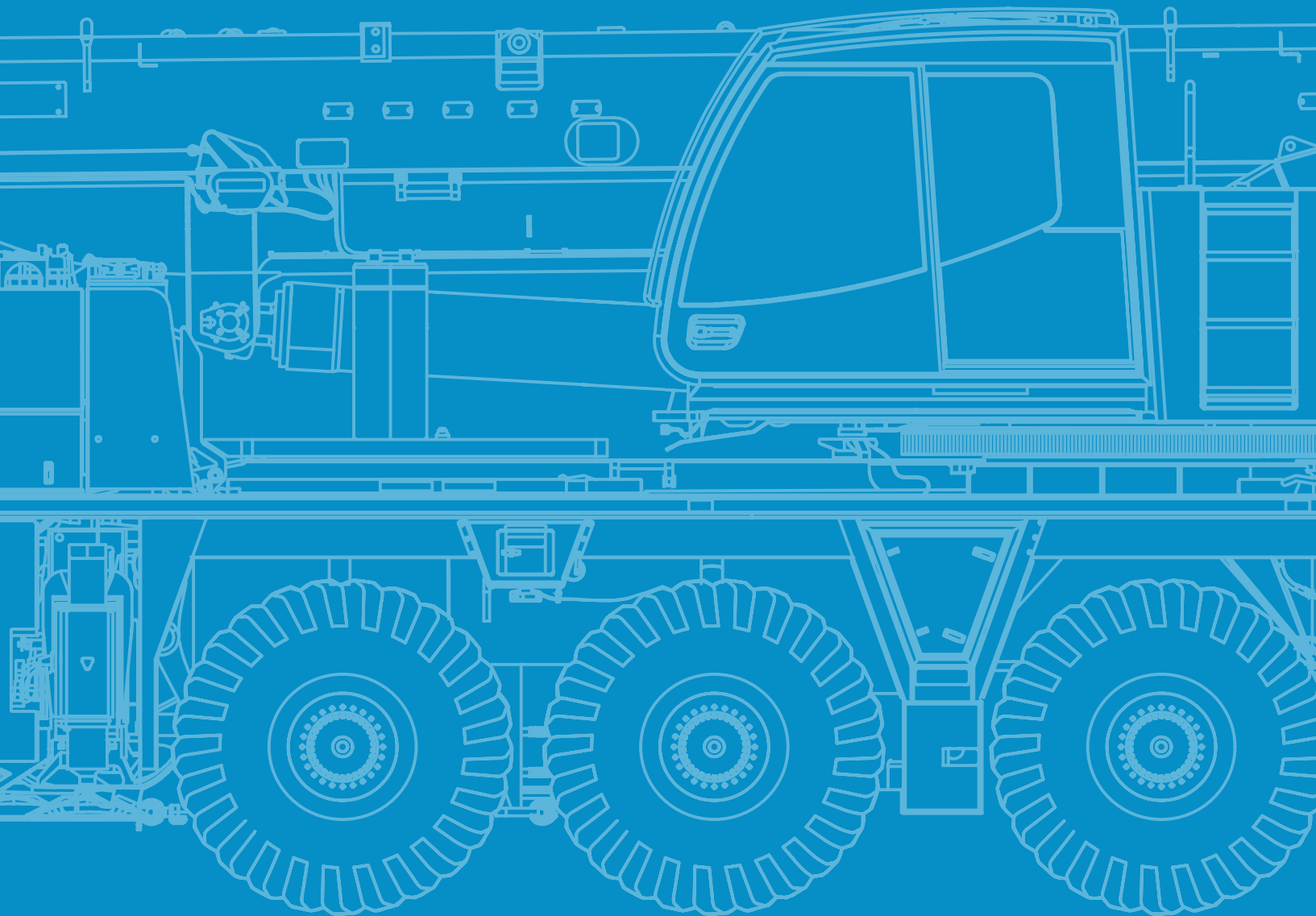
	385/95 R 25 14.00 R 25	445/95 R 25 16.00 R 25	525/80 R 25 20.50 R 25
 %	64 %	57 %	57 %
 %	72 %	63 %	63 %
 mph ¹⁾	49.7 mph ¹⁾	52.8 mph ¹⁾	52.8 mph ¹⁾
 mph ¹⁾	23.6 mph ¹⁾	26.1 mph ¹⁾	26.1 mph ¹⁾

¹⁾ Depending on tire type, size and country specific legislation

Steering

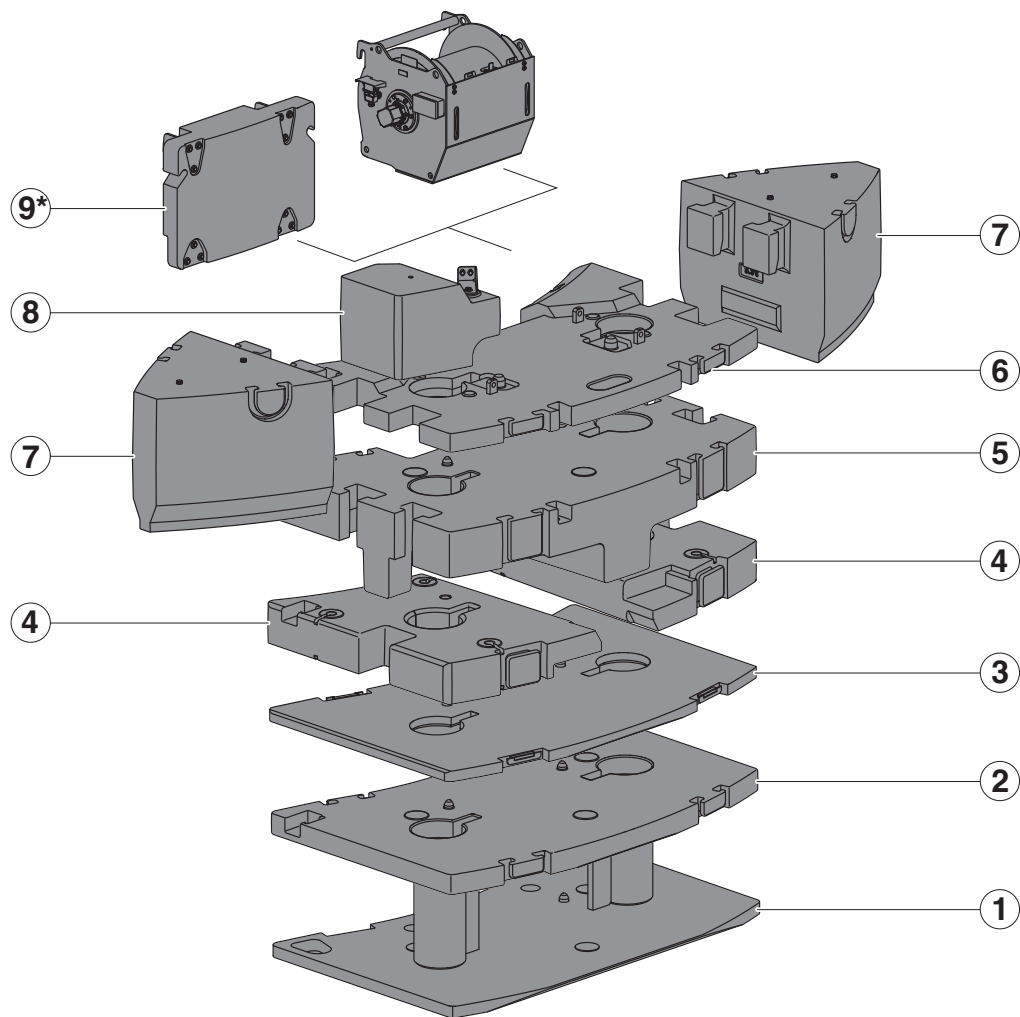
	 v < 18.6 mph
	 18.6 mph ≤ v ≤ 31.1 mph
	 v > 31.1 mph
	 Manually steered
	 Minimum turning radius
	 Crab steer mode
	 Rear veering suppression

TECHNICAL DATA FOR TRANSPORT



Transportation

Counterweight



Configurations

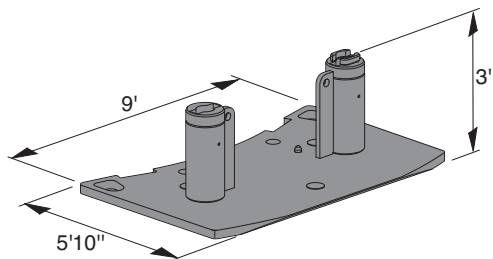
	6,400 lbs	13,200 lbs	18,300 lbs	22,050 lbs	27,100 lbs	34,800 lbs	48,100 lbs	53,600 lbs	56,900 lbs	70,100 lbs	93,500 lbs
① 6,800 lbs		1	1	1	1	1	1	1	1	1	1
② 8,800 lbs				1	1	1	1		1	1	1
③ 5,100 lbs			1		1	1	1	1	1	1	1
④ 6,600 lbs							2	2		2	2
⑤ 22,050 lbs								1	1	1	1
⑥ 7,700 lbs						1	1		1	1	1
⑦ 11,700 lbs											2
⑧ 3,100 lbs	1	1	1	1	1	1	1	1	1	1	1
⑨* 3,300 lbs	1	1	1	1	1	1	1	1	1	1	1

* Can be replaced by 2nd hoist

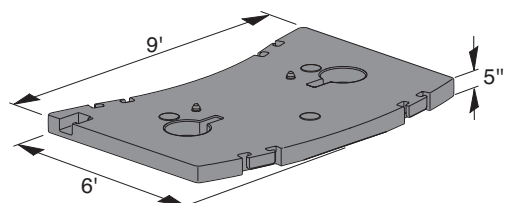
Transportation

Counterweight

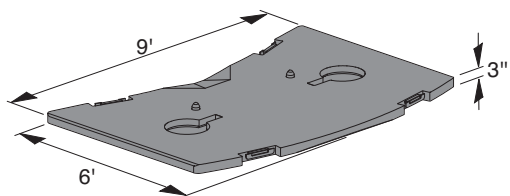
①



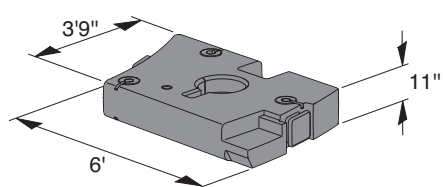
②



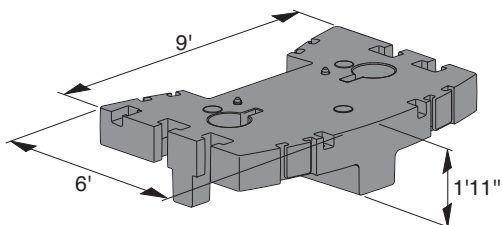
③



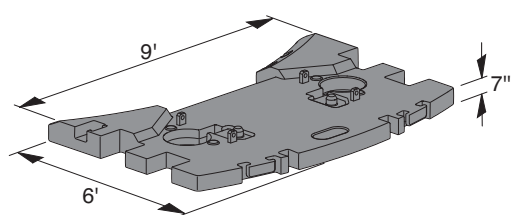
④



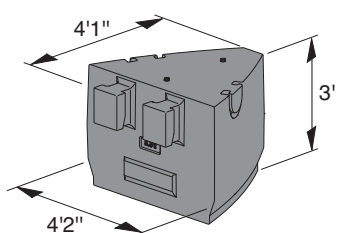
⑤



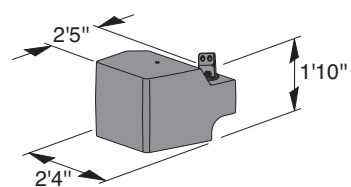
⑥



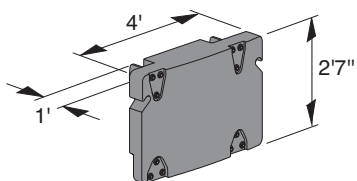
⑦



⑧



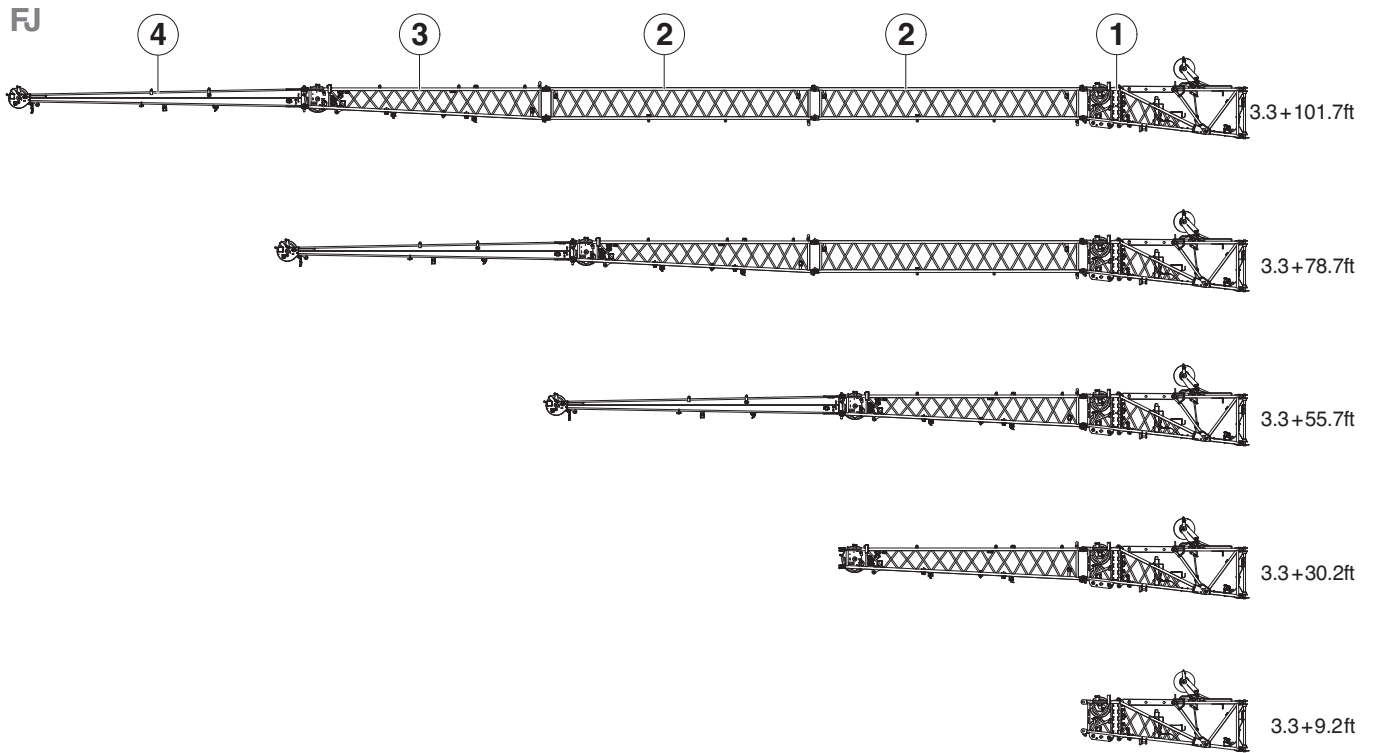
⑨*



* Can be replaced by 2nd hoist

Transportation

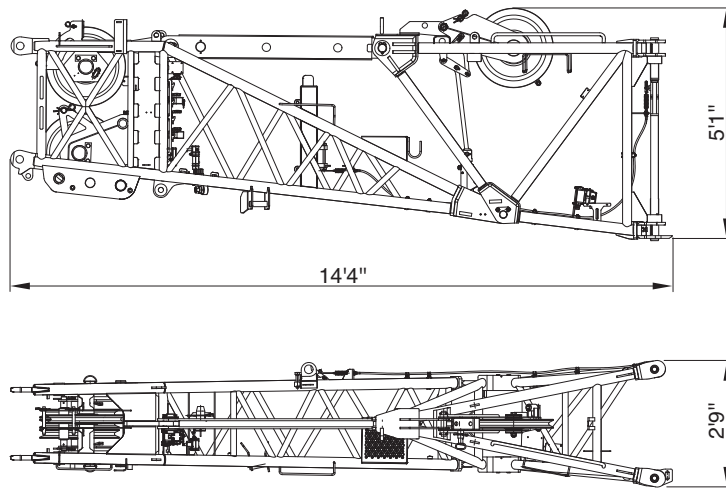
Jib



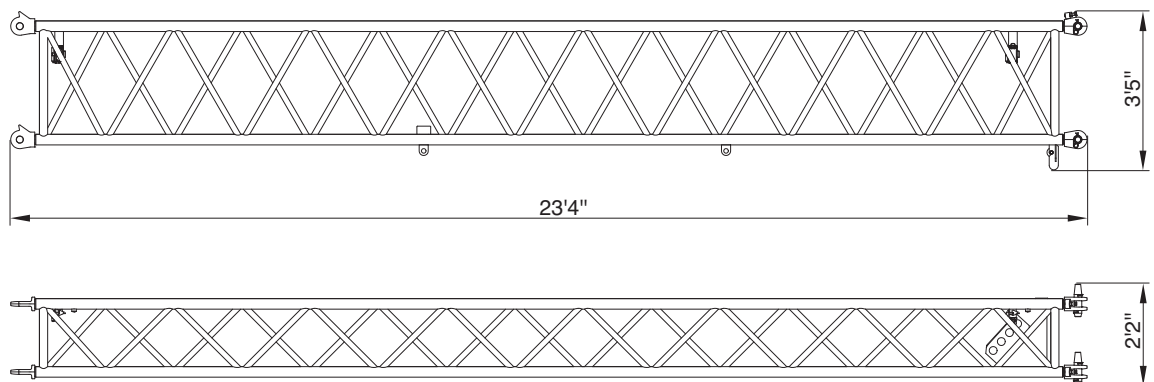
Transportation

Jib

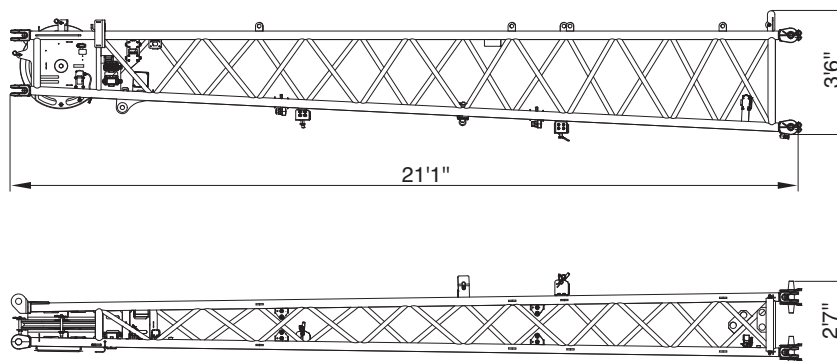
1
lbs
1,900



2
lbs
1,100



3
lbs
1,000



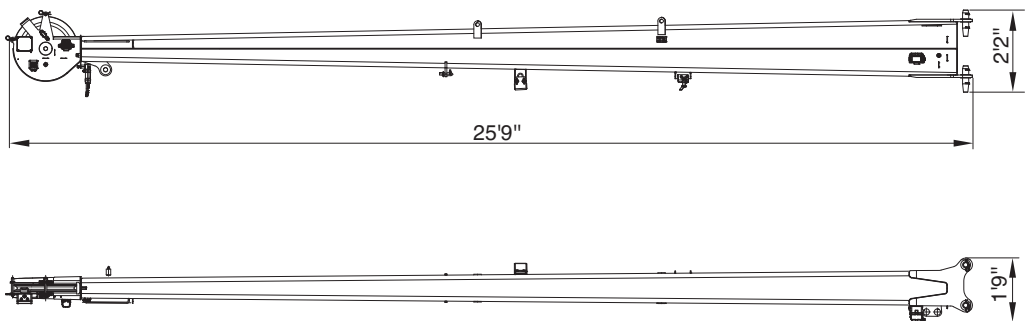
Transportation

Jib

4

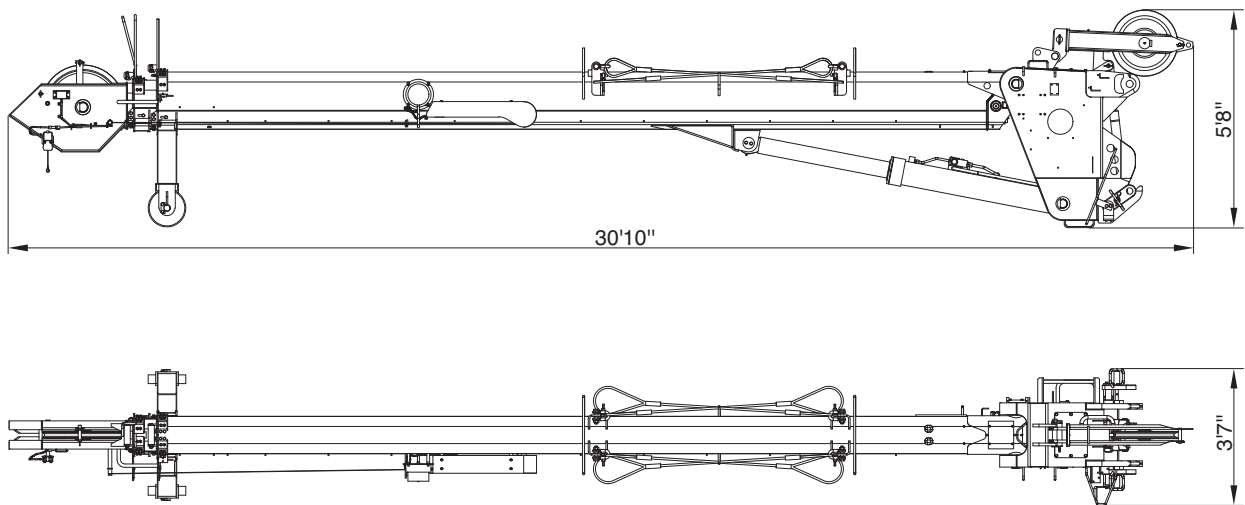
lbs

900

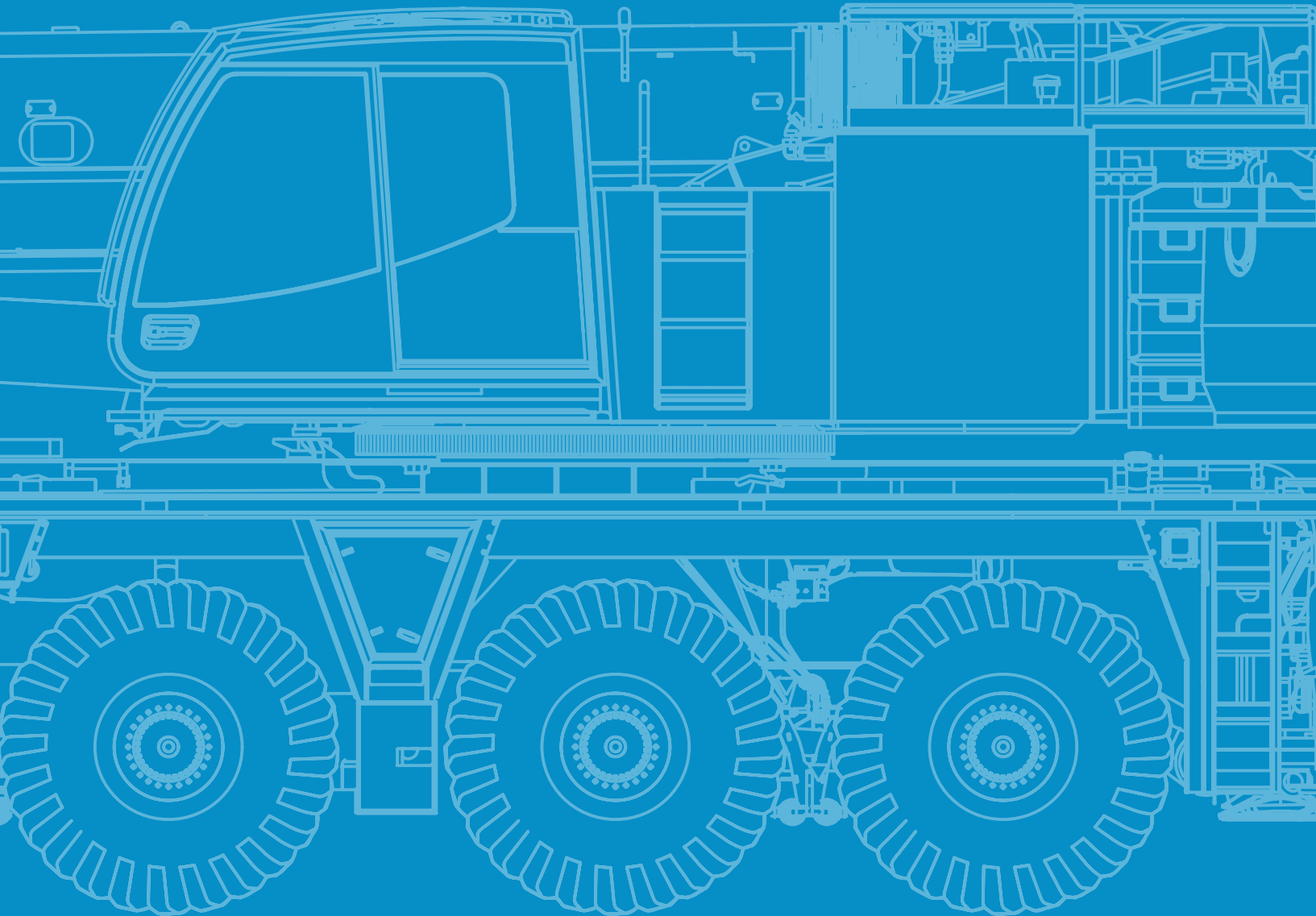


lbs

4,950



TECHNICAL DATA FOR OPERATION



Notes

Operation

Main boom



approx. 470 s (42.0 ft - 196.9 ft)



approx. 45 s (-0,5° - 84,9°)

Slewing



0 - 1.6 min⁻¹

Hoist

				
1	427 ft/min	19,109 lbf	0.83"	820 ft
2	427 ft/min	19,109 lbf	0.83"	820 ft

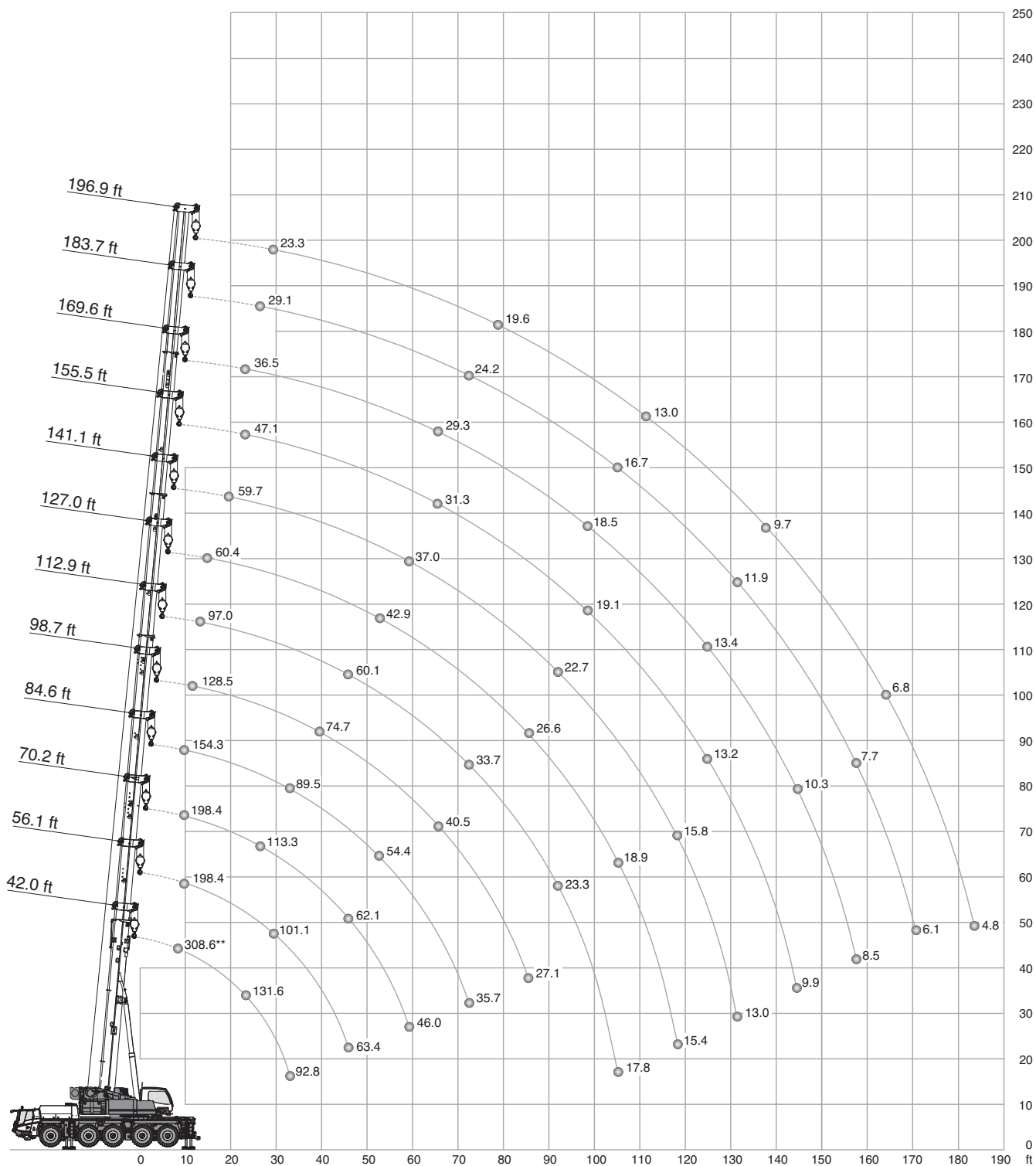
Outrigger cylinders

		
 Max.	150,000 lbs	176,400 lbs
	23.6"	23.6"

Hook Blocks



				
22,050 lbs	19,200 lbs	—	1	660
70,600 lbs	56,400 lbs	1	3	990
138,900 lbs	130,100 lbs	3	7	1,320
220,500 lbs	202,200 lbs	5	11	1,760
352,800 lbs	272,500 lbs	7	15	2,870



** Max. crane capacity – with additional special equipment

Operation

MB

 93,500 lbs		 24.6 ft x 26.2 ft										360°			ASME B30.5	
  42.0*	42.0	56.1	70.2	84.6	98.7	(ft)				141.1	155.5	169.6	183.7	196.9		
1,000 lbs																
ft															ft	
8.2	308.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2	
8.9	286.6	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	
9.8	245.8	231.4	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	9.8	
11.5	222.4	211.6	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	11.5	
13.1	203.0	194.8	194.4	193.5	154.3	125.0	97.0	-	-	-	-	-	-	-	13.1	
14.8	186.7	180.3	179.8	179.2	154.3	120.1	97.0	60.4	-	-	-	-	-	-	14.8	
16.4	172.6	167.5	167.3	166.4	154.3	113.3	97.0	72.3	-	-	-	-	-	-	16.4	
19.7	149.4	146.3	145.9	144.8	145.9	110.2	93.4	72.3	59.7	-	-	-	-	-	19.7	
23.0	131.6	128.5	128.7	126.9	128.0	109.3	84.8	72.3	59.7	47.1	36.5	-	-	-	23.0	
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	-	-	26.2	
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	-	29.5	
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	-	32.8	
36.1	-	-	81.7	81.5	80.6	82.2	70.3	58.2	54.6	46.9	36.5	29.1	23.3	-	36.1	
39.4	-	-	74.9	74.0	74.2	74.7	66.5	54.4	51.1	45.4	36.5	29.1	23.3	-	39.4	
45.9	-	-	63.4	62.1	63.7	62.6	60.1	48.0	44.9	42.3	35.4	29.1	23.3	-	45.9	
52.5	-	-	-	53.7	54.4	53.3	54.8	42.9	40.1	38.3	33.5	28.4	23.3	-	52.5	
59.1	-	-	-	46.0	45.6	46.5	46.0	38.5	37.0	34.6	31.5	27.1	23.3	-	59.1	
65.6	-	-	-	-	39.0	40.5	39.2	35.0	33.7	31.3	29.3	25.5	22.9	-	65.6	
72.2	-	-	-	-	35.7	35.0	33.7	32.1	30.8	28.2	26.4	24.2	21.1	-	72.2	
78.7	-	-	-	-	-	30.6	29.3	28.4	28.4	25.5	24.0	23.1	19.6	-	78.7	
85.3	-	-	-	-	-	27.1	25.7	26.6	25.7	23.3	22.0	21.6	18.0	-	85.3	
91.9	-	-	-	-	-	-	23.3	23.8	22.7	21.3	20.0	19.8	16.5	-	91.9	
98.4	-	-	-	-	-	-	22.2	21.1	20.0	19.1	18.5	18.0	15.2	-	98.4	
105.0	-	-	-	-	-	-	17.8	18.9	17.8	17.6	16.9	16.7	13.8	-	105.0	
111.5	-	-	-	-	-	-	-	16.9	16.7	16.5	15.6	15.6	13.0	-	111.5	
118.1	-	-	-	-	-	-	-	15.4	15.8	14.7	14.3	14.3	11.9	-	118.1	
124.7	-	-	-	-	-	-	-	-	14.3	13.2	13.4	13.2	11.0	-	124.7	
131.2	-	-	-	-	-	-	-	-	13.0	11.9	12.5	11.9	10.3	-	131.2	
137.8	-	-	-	-	-	-	-	-	-	10.8	11.4	10.5	9.7	-	137.8	
144.4	-	-	-	-	-	-	-	-	-	9.9	10.3	9.4	9.0	-	144.4	
150.9	-	-	-	-	-	-	-	-	-	-	9.4	8.5	8.3	-	150.9	
157.5	-	-	-	-	-	-	-	-	-	-	8.5	7.7	7.7	-	157.5	
164.0	-	-	-	-	-	-	-	-	-	-	-	6.8	6.8	-	164.0	
170.6	-	-	-	-	-	-	-	-	-	-	-	6.1	5.9	-	170.6	
177.2	-	-	-	-	-	-	-	-	-	-	-	-	5.2	-	177.2	
183.7	-	-	-	-	-	-	-	-	-	-	-	-	4.8	-	183.7	

* over rear

** Max. crane capacity – with additional special equipment

 70,100 lbs		 24.6 ft x 26.2 ft												360°		ASME B30.5	
 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				
ft		(ft)												ft			
		1,000 lbs															
8.9	286.6	-	-	-	-	-	-	-	-	-	-	-	-	8.9			
9.8	241.1	229.2	198.4	198.4	154.3	-	-	-	-	-	-	-	-	9.8			
11.5	218.2	209.6	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	11.5			
13.1	199.2	192.9	192.6	191.8	154.3	125.0	97.0	-	-	-	-	-	-	13.1			
14.8	183.2	178.5	178.3	177.4	154.3	120.1	97.0	60.4	-	-	-	-	-	14.8			
16.4	169.3	165.3	164.9	164.0	154.3	113.3	97.0	72.3	-	-	-	-	-	16.4			
19.7	146.6	142.6	142.1	140.8	142.1	110.2	93.4	72.3	59.7	-	-	-	-	19.7			
23.0	128.9	123.2	123.8	123.2	122.5	109.3	84.8	72.3	59.7	47.1	36.5	-	-	23.0			
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	-	26.2			
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	29.5			
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	32.8			
36.1	-	-	78.2	76.9	78.7	77.3	70.3	58.2	54.6	46.9	36.5	29.1	23.3	36.1			
39.4	-	-	70.1	68.5	70.7	69.2	66.5	54.4	51.1	45.4	36.5	29.1	23.3	39.4			
45.9	-	-	55.3	56.2	55.7	56.2	55.9	48.0	44.9	42.3	35.4	29.1	23.3	45.9			
52.5	-	-	-	45.8	45.8	46.9	45.6	42.9	40.1	38.3	33.5	28.4	23.3	52.5			
59.1	-	-	-	39.6	39.9	39.2	37.9	36.5	37.0	34.6	31.5	27.1	23.3	59.1			
65.6	-	-	-	-	33.7	33.2	31.7	32.4	31.9	31.0	29.3	25.5	22.9	65.6			
72.2	-	-	-	-	28.8	28.4	27.9	28.2	27.1	26.2	26.4	24.2	21.1	72.2			
78.7	-	-	-	-	-	24.4	25.5	24.4	23.1	23.8	23.1	23.1	19.6	78.7			
85.3	-	-	-	-	-	21.3	22.4	21.1	21.6	20.7	20.7	20.7	18.0	85.3			
91.9	-	-	-	-	-	-	19.8	18.5	19.1	18.0	18.9	18.0	16.5	91.9			
98.4	-	-	-	-	-	-	17.4	16.9	16.7	15.8	16.7	15.6	15.2	98.4			
105.0	-	-	-	-	-	-	15.6	16.0	14.9	14.7	14.7	13.8	13.8	105.0			
111.5	-	-	-	-	-	-	-	14.3	13.8	13.6	13.0	12.1	12.1	111.5			
118.1	-	-	-	-	-	-	-	13.0	12.7	12.1	11.6	10.5	10.5	118.1			
124.7	-	-	-	-	-	-	-	-	11.4	10.8	10.3	9.2	9.2	124.7			
131.2	-	-	-	-	-	-	-	-	10.3	9.7	9.0	8.1	8.1	131.2			
137.8	-	-	-	-	-	-	-	-	-	8.8	8.1	7.0	7.0	137.8			
144.4	-	-	-	-	-	-	-	-	-	7.7	7.0	6.1	6.1	144.4			
150.9	-	-	-	-	-	-	-	-	-	-	6.3	5.2	5.2	150.9			
157.5	-	-	-	-	-	-	-	-	-	-	5.5	4.6	4.6	157.5			
164.0	-	-	-	-	-	-	-	-	-	-	-	3.9	3.9	164.0			
170.6	-	-	-	-	-	-	-	-	-	-	-	3.3	3.3	170.6			
177.2	-	-	-	-	-	-	-	-	-	-	-	-	2.6	177.2			
183.7	-	-	-	-	-	-	-	-	-	-	-	-	2.2	183.7			

* over rear

 56,900 lbs		 24.6 ft x 26.2 ft										360°			ASME B30.5	
	 42.0*	42.0	56.1	70.2	84.6	98.7	(ft)			141.1	155.5	169.6	183.7	196.9		
ft		1,000 lbs														ft
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	
9.8	238.7	228.1	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	9.8	
11.5	216.0	208.5	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	11.5	
13.1	197.0	192.0	191.8	190.9	154.3	125.0	97.0	-	-	-	-	-	-	-	13.1	
14.8	181.2	176.8	176.3	175.4	154.3	120.1	97.0	60.4	-	-	-	-	-	-	14.8	
16.4	167.3	163.3	162.9	161.8	154.3	113.3	97.0	72.3	-	-	-	-	-	-	16.4	
19.7	145.0	138.8	139.5	137.1	138.4	110.2	93.4	72.3	59.7	-	-	-	-	-	19.7	
23.0	127.6	119.4	120.1	120.1	119.0	109.3	84.8	72.3	59.7	47.1	36.5	-	-	-	23.0	
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	-	-	26.2	
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	-	29.5	
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	-	32.8	
36.1	-	-	72.0	70.5	72.5	68.7	68.3	58.2	54.6	46.9	36.5	29.1	23.3	-	36.1	
39.4	-	-	62.8	63.7	63.2	62.6	61.2	54.4	51.1	45.4	36.5	29.1	23.3	-	39.4	
45.9	-	-	49.8	50.0	50.9	51.3	49.8	46.7	44.9	42.3	35.4	29.1	23.3	-	45.9	
52.5	-	-	-	42.1	42.3	41.6	40.1	38.5	39.0	36.8	33.5	28.4	23.3	-	52.5	
59.1	-	-	-	34.6	34.8	34.1	33.2	34.1	32.8	31.0	31.0	27.1	23.3	-	59.1	
65.6	-	-	-	-	29.1	28.6	29.9	28.6	27.3	28.2	26.6	25.5	22.9	-	65.6	
72.2	-	-	-	-	24.9	24.2	25.5	24.2	24.9	23.8	23.8	23.5	21.1	-	72.2	
78.7	-	-	-	-	-	21.1	22.0	21.1	21.3	20.5	21.1	20.2	19.6	-	78.7	
85.3	-	-	-	-	-	18.2	19.1	19.6	18.5	18.7	18.2	17.4	17.4	-	85.3	
91.9	-	-	-	-	-	-	16.7	17.1	16.9	16.5	15.8	14.9	14.9	-	91.9	
98.4	-	-	-	-	-	-	15.2	15.2	15.2	14.5	13.8	12.7	13.0	-	98.4	
105.0	-	-	-	-	-	-	14.1	13.4	13.4	12.7	12.1	11.2	11.2	-	105.0	
111.5	-	-	-	-	-	-	-	12.1	11.9	11.2	10.5	9.7	9.7	-	111.5	
118.1	-	-	-	-	-	-	-	10.8	10.5	9.9	9.2	8.3	8.3	-	118.1	
124.7	-	-	-	-	-	-	-	-	9.4	8.8	8.1	7.0	7.0	-	124.7	
131.2	-	-	-	-	-	-	-	-	8.3	7.7	7.0	6.1	6.1	-	131.2	
137.8	-	-	-	-	-	-	-	-	-	6.8	6.1	5.0	5.0	-	137.8	
144.4	-	-	-	-	-	-	-	-	-	5.9	5.2	4.4	4.4	-	144.4	
150.9	-	-	-	-	-	-	-	-	-	-	4.6	3.5	3.5	-	150.9	
157.5	-	-	-	-	-	-	-	-	-	-	3.9	2.8	2.8	-	157.5	
164.0	-	-	-	-	-	-	-	-	-	-	-	2.2	2.2	-	164.0	

* over rear

 53,600 lbs		 24.6 ft x 26.2 ft										360°			ASME B30.5	
	 42.0*	42.0	56.1	70.2	84.6	98.7	(ft)		127.0	141.1	155.5	169.6	183.7	196.9		
ft		1,000 lbs													ft	
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	
9.8	238.0	227.9	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	9.8	
11.5	215.3	208.3	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	11.5	
13.1	196.6	191.8	191.3	190.4	154.3	125.0	97.0	-	-	-	-	-	-	-	13.1	
14.8	180.7	176.3	175.9	174.8	154.3	120.1	97.0	60.4	-	-	-	-	-	-	14.8	
16.4	166.8	162.7	162.2	161.1	154.3	113.3	97.0	72.3	-	-	-	-	-	-	16.4	
19.7	144.6	137.7	138.4	136.2	137.3	110.2	93.4	72.3	59.7	-	-	-	-	-	19.7	
23.0	127.2	118.6	119.2	119.0	118.1	109.3	84.8	72.3	59.7	47.1	36.5	-	-	-	23.0	
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	-	-	26.2	
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	23.3	29.5	
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	23.3	32.8	
36.1	-	-	70.1	70.5	70.5	66.8	66.3	58.2	54.6	46.9	36.5	29.1	23.3	23.3	36.1	
39.4	-	-	61.0	61.9	61.5	62.6	59.3	54.4	51.1	45.4	36.5	29.1	23.3	23.3	39.4	
45.9	-	-	48.5	48.5	50.2	49.8	48.0	44.9	43.4	42.3	35.4	29.1	23.3	23.3	45.9	
52.5	-	-	-	40.5	40.7	40.1	38.8	37.9	37.4	35.4	33.5	28.4	23.3	23.3	52.5	
59.1	-	-	-	33.2	33.5	32.8	32.6	32.8	31.7	30.6	29.9	27.1	23.3	23.3	59.1	
65.6	-	-	-	-	27.9	27.5	28.6	27.3	26.8	27.1	25.5	25.5	22.9	22.9	65.6	
72.2	-	-	-	-	23.8	23.1	24.4	23.1	23.8	22.7	23.8	22.4	21.1	21.1	72.2	
78.7	-	-	-	-	-	20.2	20.9	21.1	20.5	20.5	20.2	19.4	19.1	19.1	78.7	
85.3	-	-	-	-	-	17.4	18.2	18.7	18.0	18.0	17.6	16.5	16.5	16.5	85.3	
91.9	-	-	-	-	-	-	16.3	16.5	16.3	15.8	15.2	14.1	14.1	14.1	91.9	
98.4	-	-	-	-	-	-	15.2	14.5	14.3	13.8	13.2	12.1	12.1	12.1	98.4	
105.0	-	-	-	-	-	-	13.4	13.0	12.7	12.1	11.4	10.5	10.5	10.5	105.0	
111.5	-	-	-	-	-	-	-	11.4	11.2	10.5	9.9	9.0	9.0	9.0	111.5	
118.1	-	-	-	-	-	-	-	10.3	9.9	9.2	8.5	7.7	7.7	7.7	118.1	
124.7	-	-	-	-	-	-	-	-	8.8	8.1	7.4	6.6	6.6	6.6	124.7	
131.2	-	-	-	-	-	-	-	-	7.9	7.2	6.6	5.5	5.5	5.5	131.2	
137.8	-	-	-	-	-	-	-	-	-	6.1	5.7	4.6	4.6	4.6	137.8	
144.4	-	-	-	-	-	-	-	-	-	5.5	4.8	3.9	3.9	3.9	144.4	
150.9	-	-	-	-	-	-	-	-	-	-	4.1	3.0	3.0	3.0	150.9	
157.5	-	-	-	-	-	-	-	-	-	-	3.5	2.4	2.4	2.4	157.5	
164.0	-	-	-	-	-	-	-	-	-	-	-	1.9	1.9	1.9	164.0	

* over rear

 48,100 lbs		 24.6 ft x 26.2 ft										360°			ASME B30.5	
	 42.0*	42.0	56.1	70.2	84.6	98.7	(ft)			141.1	155.5	169.6	183.7	196.9		
ft		1,000 lbs														ft
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	
9.8	236.7	227.2	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	9.8	
11.5	214.5	207.8	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	11.5	
13.1	195.7	190.9	190.4	189.5	154.3	125.0	97.0	-	-	-	-	-	-	-	13.1	
14.8	179.8	175.2	174.8	173.7	154.3	120.1	97.0	60.4	-	-	-	-	-	-	14.8	
16.4	166.2	160.9	160.4	159.3	154.3	113.3	97.0	72.3	-	-	-	-	-	-	16.4	
19.7	143.9	136.0	136.6	134.9	135.5	110.2	93.4	72.3	59.7	-	-	-	-	-	19.7	
23.0	126.5	117.0	117.7	117.5	116.4	109.3	84.8	72.3	59.7	47.1	36.5	-	-	-	23.0	
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	-	-	26.2	
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	-	29.5	
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	-	32.8	
36.1	-	-	66.5	67.4	67.0	66.3	62.6	58.2	54.6	46.9	36.5	29.1	23.3	-	36.1	
39.4	-	-	57.7	58.6	58.2	59.7	55.7	52.0	50.0	45.4	36.5	29.1	23.3	-	39.4	
45.9	-	-	45.6	47.3	47.8	47.1	44.9	41.8	42.1	39.6	35.4	29.1	23.3	-	45.9	
52.5	-	-	-	37.9	38.1	37.4	36.8	37.4	35.0	33.5	32.8	28.4	23.3	-	52.5	
59.1	-	-	-	31.0	31.3	30.6	31.9	30.6	29.5	29.7	27.7	27.1	23.3	-	59.1	
65.6	-	-	-	-	26.0	25.5	26.8	25.5	26.2	25.1	25.5	24.0	22.9	-	65.6	
72.2	-	-	-	-	22.7	21.8	22.7	22.9	22.2	22.7	22.0	20.7	20.2	-	72.2	
78.7	-	-	-	-	-	18.7	19.4	20.0	19.6	19.4	18.7	17.8	17.6	-	78.7	
85.3	-	-	-	-	-	16.0	17.4	17.4	17.4	16.7	16.0	14.9	15.2	-	85.3	
91.9	-	-	-	-	-	-	15.8	15.2	15.2	14.5	13.8	12.7	12.7	-	91.9	
98.4	-	-	-	-	-	-	13.8	13.4	13.2	12.5	11.9	11.0	11.0	-	98.4	
105.0	-	-	-	-	-	-	12.3	11.9	11.6	11.0	10.3	9.2	9.4	-	105.0	
111.5	-	-	-	-	-	-	-	10.5	10.1	9.4	9.0	7.9	7.9	-	111.5	
118.1	-	-	-	-	-	-	-	9.2	9.0	8.3	7.7	6.8	6.8	-	118.1	
124.7	-	-	-	-	-	-	-	-	7.9	7.2	6.6	5.7	5.7	-	124.7	
131.2	-	-	-	-	-	-	-	-	7.0	6.3	5.7	4.6	4.6	-	131.2	
137.8	-	-	-	-	-	-	-	-	-	5.5	4.8	3.7	3.7	-	137.8	
144.4	-	-	-	-	-	-	-	-	-	4.6	3.9	3.0	3.0	-	144.4	
150.9	-	-	-	-	-	-	-	-	-	-	3.3	2.4	2.4	-	150.9	
157.5	-	-	-	-	-	-	-	-	-	-	2.8	-	-	-	157.5	

* over rear

Operation

MB

 34,800 lbs		 24.6 ft x 26.2 ft										360°			ASME B30.5	
  42.0*	42.0	56.1	70.2	84.6	98.7	(ft)			141.1	155.5	169.6	183.7	196.9			
ft		1,000 lbs												ft		
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	
9.8	234.3	226.1	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	9.8	
11.5	212.0	206.7	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	11.5	
13.1	193.5	188.4	188.0	187.1	154.3	125.0	97.0	-	-	-	-	-	-	-	13.1	
14.8	177.9	171.9	171.2	170.1	154.3	120.1	97.0	60.4	-	-	-	-	-	-	14.8	
16.4	164.2	156.5	156.0	154.7	154.3	113.3	97.0	72.3	-	-	-	-	-	-	16.4	
19.7	142.4	131.8	132.4	132.4	128.3	110.2	93.4	72.3	59.7	-	-	-	-	-	19.7	
23.0	125.2	113.0	113.7	112.6	103.6	99.8	84.8	72.3	59.7	47.1	36.5	-	-	-	23.0	
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	-	-	26.2	
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	-	29.5	
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	-	32.8	
36.1	-	-	58.2	59.0	60.8	57.3	53.3	49.3	47.6	46.0	36.5	29.1	23.3	-	36.1	
39.4	-	-	50.7	52.6	52.9	50.9	47.1	45.8	43.8	41.0	36.5	29.1	23.3	-	39.4	
45.9	-	-	38.3	40.1	40.5	39.9	39.0	38.1	35.4	35.2	32.8	29.1	23.3	-	45.9	
52.5	-	-	-	31.7	31.9	31.5	32.8	31.5	31.3	29.3	29.1	27.3	23.3	-	52.5	
59.1	-	-	-	25.7	26.6	26.0	26.8	27.3	26.2	26.2	24.9	22.9	22.4	-	59.1	
65.6	-	-	-	-	22.9	21.3	22.4	22.9	22.9	22.2	21.1	19.4	19.1	-	65.6	
72.2	-	-	-	-	19.4	17.8	20.0	19.4	19.1	18.7	18.0	16.5	16.3	-	72.2	
78.7	-	-	-	-	-	16.5	16.9	16.5	16.3	15.8	15.2	14.1	13.8	-	78.7	
85.3	-	-	-	-	-	14.3	14.7	14.3	13.8	13.4	12.7	11.6	11.6	-	85.3	
91.9	-	-	-	-	-	-	12.7	12.3	12.1	11.4	10.8	9.7	9.7	-	91.9	
98.4	-	-	-	-	-	-	11.0	10.5	10.3	9.7	9.0	8.1	8.1	-	98.4	
105.0	-	-	-	-	-	-	9.7	9.2	9.0	8.3	7.7	6.6	6.8	-	105.0	
111.5	-	-	-	-	-	-	-	7.9	7.7	7.0	6.3	5.5	5.5	-	111.5	
118.1	-	-	-	-	-	-	-	7.0	6.6	5.9	5.2	4.4	4.4	-	118.1	
124.7	-	-	-	-	-	-	-	-	5.7	5.0	4.4	3.5	3.5	-	124.7	
131.2	-	-	-	-	-	-	-	-	4.8	4.1	3.5	2.6	2.6	-	131.2	
137.8	-	-	-	-	-	-	-	-	-	3.5	2.8	1.9	1.9	-	137.8	
144.4	-	-	-	-	-	-	-	-	-	2.8	2.2	-	-	-	144.4	

* over rear

Operation

MB

 27,100 lbs		 24.6 ft x 26.2 ft										360°			ASME B30.5	
	 42.0*	42.0	56.1	70.2	84.6	98.7	(ft)		127.0	141.1	155.5	169.6	183.7	196.9		
ft		(ft)												ft		
		1,000 lbs														
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	
9.8	232.8	225.5	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	9.8	
11.5	210.7	205.2	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	11.5	
13.1	192.4	186.9	186.5	185.1	154.3	125.0	97.0	-	-	-	-	-	-	-	13.1	
14.8	176.8	169.0	168.4	167.3	154.3	120.1	97.0	60.4	-	-	-	-	-	-	14.8	
16.4	163.3	153.6	154.5	152.1	153.0	113.3	97.0	72.3	-	-	-	-	-	-	16.4	
19.7	141.3	129.1	130.0	129.6	117.9	110.2	93.4	72.3	59.7	-	-	-	-	-	19.7	
23.0	120.1	110.4	111.3	103.6	99.6	91.7	84.2	72.3	59.7	47.1	36.5	-	-	-	23.0	
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	-	-	26.2	
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	29.5		
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	32.8		
36.1	-	-	53.5	55.5	54.8	51.8	48.5	47.6	44.0	41.2	36.5	29.1	23.3	36.1		
39.4	-	-	45.4	47.3	47.6	45.8	43.4	42.3	39.6	38.8	36.1	29.1	23.3	39.4		
45.9	-	-	34.1	35.9	36.1	35.7	36.8	33.9	33.7	31.5	31.0	29.1	23.3	45.9		
52.5	-	-	-	28.2	29.3	28.4	29.3	29.9	27.9	27.5	26.0	24.0	23.3	52.5		
59.1	-	-	-	22.9	24.4	22.9	24.6	24.4	24.4	23.3	21.8	20.0	19.6	59.1		
65.6	-	-	-	-	20.2	19.6	20.9	20.5	20.0	19.6	18.5	16.9	16.5	65.6		
72.2	-	-	-	-	16.9	17.1	17.6	17.1	16.7	16.3	15.6	14.3	13.8	72.2		
78.7	-	-	-	-	-	14.5	14.9	14.5	14.1	13.6	13.0	11.9	11.6	78.7		
85.3	-	-	-	-	-	12.3	12.7	12.3	12.1	11.4	10.8	9.7	9.7	85.3		
91.9	-	-	-	-	-	-	11.0	10.5	10.1	9.7	9.0	7.9	7.9	91.9		
98.4	-	-	-	-	-	-	9.4	9.0	8.5	8.1	7.4	6.3	6.3	98.4		
105.0	-	-	-	-	-	-	8.1	7.7	7.4	6.8	6.1	5.0	5.2	105.0		
111.5	-	-	-	-	-	-	-	6.6	6.1	5.7	5.0	3.9	3.9	111.5		
118.1	-	-	-	-	-	-	-	5.7	5.2	4.6	3.9	3.0	3.0	118.1		
124.7	-	-	-	-	-	-	-	-	4.4	3.7	3.0	2.2	2.2	124.7		
131.2	-	-	-	-	-	-	-	-	3.7	3.0	2.4	-	-	131.2		
137.8	-	-	-	-	-	-	-	-	-	2.4	-	-	-	137.8		

* over rear

Operation

MB

22,050 lbs		24.6 ft x 26.2 ft										360°			ASME B30.5
		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	
		(ft)													
		1,000 lbs													
ft															ft
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9
9.8	231.9	225.0	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	9.8
11.5	209.8	204.1	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	11.5
13.1	191.5	184.9	184.5	183.4	154.3	125.0	97.0	-	-	-	-	-	-	-	13.1
14.8	175.9	167.1	166.6	165.3	154.3	120.1	97.0	60.4	-	-	-	-	-	-	14.8
16.4	162.7	151.8	152.7	150.1	144.6	113.3	97.0	72.3	-	-	-	-	-	-	16.4
19.7	140.8	127.4	128.3	122.7	111.5	106.2	93.4	72.3	59.7	-	-	-	-	-	19.7
23.0	113.5	108.9	106.2	97.8	94.3	87.0	83.5	72.3	59.7	47.1	36.5	-	-	-	23.0
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	-	-	26.2
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	-	29.5
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	-	32.8
36.1	-	-	49.6	51.5	51.1	48.0	45.8	44.3	41.8	40.3	36.5	29.1	23.3	-	36.1
39.4	-	-	42.1	44.0	44.3	42.5	42.3	39.2	38.1	35.9	33.2	29.1	23.3	-	39.4
45.9	-	-	31.5	33.2	33.5	33.5	34.1	33.0	31.0	30.8	29.1	26.8	23.3	-	45.9
52.5	-	-	-	26.2	27.7	26.2	27.5	27.7	27.1	25.5	24.0	22.0	21.3	-	52.5
59.1	-	-	-	20.9	22.4	21.8	23.1	22.7	22.4	21.3	20.0	18.2	17.8	-	59.1
65.6	-	-	-	-	18.5	18.7	19.1	18.7	18.5	17.8	16.7	15.2	14.7	-	65.6
72.2	-	-	-	-	15.4	15.6	16.0	15.6	15.4	14.7	14.1	12.7	12.3	-	72.2
78.7	-	-	-	-	-	13.2	13.4	13.0	12.7	12.3	11.6	10.5	10.3	-	78.7
85.3	-	-	-	-	-	11.0	11.4	11.0	10.8	10.1	9.4	8.5	8.5	-	85.3
91.9	-	-	-	-	-	-	9.7	9.2	9.0	8.5	7.9	6.8	6.8	-	91.9
98.4	-	-	-	-	-	-	8.3	7.9	7.7	7.0	6.3	5.5	5.5	-	98.4
105.0	-	-	-	-	-	-	7.2	6.6	6.3	5.7	5.0	4.1	4.1	-	105.0
111.5	-	-	-	-	-	-	-	5.7	5.2	4.8	4.1	3.0	3.0	-	111.5
118.1	-	-	-	-	-	-	-	4.8	4.4	3.7	3.0	2.2	2.2	-	118.1
124.7	-	-	-	-	-	-	-	-	3.7	3.0	2.4	-	-	-	124.7
131.2	-	-	-	-	-	-	-	-	2.8	2.2	-	-	-	-	131.2

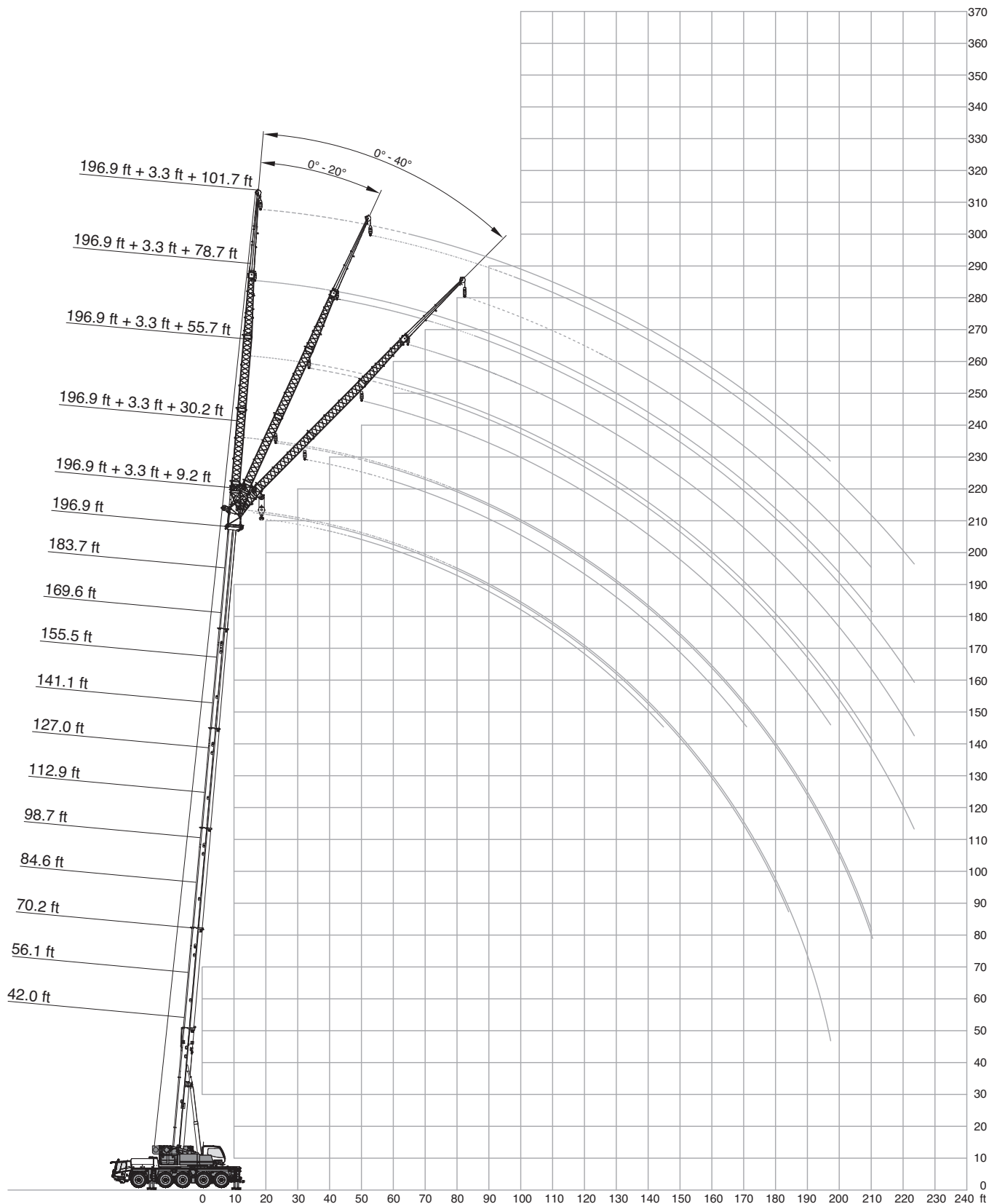
18,300 lbs		24.6 ft x 26.2 ft										360°			ASME B30.5
		42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9	
		(ft)													
		1,000 lbs													
ft															ft
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9
9.8	231.2	224.8	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	9.8
11.5	209.2	203.2	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	11.5
13.1	190.9	183.4	182.9	181.8	154.3	125.0	97.0	-	-	-	-	-	-	-	13.1
14.8	175.4	165.5	165.1	164.0	154.3	120.1	97.0	60.4	-	-	-	-	-	-	14.8
16.4	162.0	150.5	151.2	149.2	138.2	113.3	97.0	72.3	-	-	-	-	-	-	16.4
19.7	140.2	126.1	126.7	117.0	110.2	101.4	92.1	72.3	59.7	-	-	-	-	-	19.7
23.0	108.2	104.2	102.9	95.2	89.5	86.4	78.9	72.0	59.7	47.1	36.5	-	-	-	23.0
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	-	-	26.2
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	-	29.5
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	-	32.8
36.1	-	-	46.7	48.7	48.2	45.1	44.9	41.6	40.1	37.9	35.0	29.1	23.3	-	36.1
39.4	-	-	39.4	41.4	41.6	39.9	39.9	36.8	36.1	33.9	31.5	29.1	23.3	-	39.4
45.9	-	-	29.3	31.0	32.6	31.3	31.9	31.7	30.6	28.8	27.1	24.9	23.3	-	45.9
52.5	-	-	-	24.2	26.0	24.4	26.6	26.0	25.3	23.8	22.2	20.2	19.8	-	52.5
59.1	-	-	-	19.4	20.9	21.1	21.6	21.1	20.9	19.8	18.5	16.7	16.3	-	59.1
65.6	-	-	-	-	17.1	17.4	17.8	17.4	17.1	16.5	15.4	13.8	13.4	-	65.6
72.2	-	-	-	-	14.3	14.3	14.7	14.3	14.1	13.4	12.7	11.4	11.2	-	72.2
78.7	-	-	-	-	-	12.1	12.3	11.9	11.6	11.2	10.5	9.4	9.2	-	78.7
85.3	-	-	-	-	-	10.1	10.5	10.1	9.7	9.2	8.5	7.4	7.4	-	85.3
91.9	-	-	-	-	-	-	8.8	8.3	8.1	7.4	6.8	5.9	5.9	-	91.9
98.4	-	-	-	-	-	-	7.4	7.0	6.8	6.1	5.5	4.6	4.6	-	98.4
105.0	-	-	-	-	-	-	6.3	5.9	5.7	5.0	4.4	3.3	3.5	-	105.0
111.5	-	-	-	-	-	-	-	4.8	4.6	3.9	3.3	2.4	2.4	-	111.5
118.1	-	-	-	-	-	-	-	4.1	3.7	3.0	2.4	-	-	-	118.1
124.7	-	-	-	-	-	-	-	-	3.0	2.4	-	-	-	-	124.7
131.2	-	-	-	-	-	-	-	-	2.4	-	-	-	-	-	131.2

* over rear

MB

 6,400 lbs		 24.6 ft x 26.2 ft								360°				ASME B30.5		
		42.0*	42.0	56.1	70.2	84.6	98.7	(ft)				155.5	169.6	183.7	196.9	
ft		1,000 lbs														ft
8.9	243.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9
9.8	228.3	221.5	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	-	9.8
11.5	206.7	199.0	198.4	197.3	154.3	128.5	-	-	-	-	-	-	-	-	-	11.5
13.1	188.4	177.9	177.4	176.3	154.3	125.0	97.0	-	-	-	-	-	-	-	-	13.1
14.8	173.2	160.2	160.9	156.3	137.5	120.1	97.0	60.4	-	-	-	-	-	-	-	14.8
16.4	160.0	145.2	145.9	132.0	117.5	110.2	97.0	72.3	-	-	-	-	-	-	-	16.4
19.7	119.7	119.7	110.2	102.9	93.4	89.0	80.2	72.3	59.7	-	-	-	-	-	-	19.7
23.0	91.2	88.8	85.0	79.5	76.9	70.9	65.2	58.4	54.6	47.1	36.5	-	-	-	-	23.0
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	-	-	-	26.2
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	-	-	29.5
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	23.3	-	32.8
36.1	-	-	37.0	39.0	39.0	36.8	37.0	35.7	34.1	31.9	29.9	27.3	23.3	23.3	-	36.1
39.4	-	-	31.0	33.2	35.0	32.1	33.7	31.7	30.4	28.4	26.4	24.2	23.3	23.3	-	39.4
45.9	-	-	22.4	24.4	26.2	26.4	26.8	25.3	24.2	22.4	20.9	18.9	18.5	18.5	-	45.9
52.5	-	-	-	18.7	20.2	20.5	21.1	20.7	19.8	18.2	16.9	15.2	14.7	14.7	-	52.5
59.1	-	-	-	14.5	16.0	16.3	16.7	16.3	16.0	14.9	13.6	12.1	11.6	11.6	-	59.1
65.6	-	-	-	-	13.0	13.0	13.4	13.2	12.7	12.3	11.2	9.7	9.2	9.2	-	65.6
72.2	-	-	-	-	10.3	10.5	11.0	10.5	10.3	9.7	9.0	7.7	7.4	7.4	-	72.2
78.7	-	-	-	-	-	8.5	9.0	8.5	8.3	7.7	7.0	5.9	5.7	5.7	-	78.7
85.3	-	-	-	-	-	7.0	7.2	7.0	6.6	6.1	5.5	4.4	4.4	4.4	-	85.3
91.9	-	-	-	-	-	-	5.9	5.5	5.2	4.6	4.1	3.0	-	-	-	91.9
98.4	-	-	-	-	-	-	4.8	4.4	4.1	3.5	2.8	-	-	-	-	98.4
105.0	-	-	-	-	-	-	3.9	3.5	3.0	2.6	1.9	-	-	-	-	105.0
111.5	-	-	-	-	-	-	-	2.6	2.4	-	-	-	-	-	-	111.5
118.1	-	-	-	-	-	-	-	1.9	-	-	-	-	-	-	-	118.1

AC 5.140-1 | 29



 93,500 lbs			 24.6 ft x 26.2 ft			 3.3 ft + 9.2 ft			360°			ASME B30.5					
 		42.0 ft		70.2 ft			112.9 ft			155.5 ft			196.9 ft				
0°		20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
ft		1,000 lbs															ft
9.8	-	70.3	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8	
11.5	-	67.4	55.3	-	-	-	-	-	-	-	-	-	-	-	-	11.5	
13.1	87.0	64.8	53.7	-	72.9	-	-	-	-	-	-	-	-	-	-	13.1	
14.8	82.4	62.3	52.2	-	70.7	56.2	-	-	-	-	-	-	-	-	-	14.8	
16.4	78.0	60.1	50.9	-	68.7	55.3	-	65.9	-	-	-	-	-	-	-	16.4	
19.7	70.9	56.2	48.7	-	65.2	53.3	-	65.9	55.1	-	-	-	-	-	-	19.7	
23.0	65.0	52.9	46.7	77.1	62.1	51.5	-	65.9	53.7	-	-	-	-	-	-	23.0	
26.2	59.9	50.0	45.1	77.1	59.3	50.0	-	65.6	52.4	-	30.6	-	-	-	-	26.2	
29.5	55.7	47.6	43.8	73.8	56.6	48.5	-	63.7	51.3	-	30.6	30.6	-	-	-	29.5	
32.8	52.2	45.6	42.9	69.4	54.4	47.3	-	61.0	50.4	-	30.6	30.6	-	-	-	32.8	
36.1	49.3	44.0	42.5	65.6	52.4	46.2	-	56.8	49.3	-	30.6	30.6	-	-	-	36.1	
39.4	46.7	42.9	-	62.1	50.7	45.1	54.2	53.1	48.5	-	30.6	30.6	-	17.1	-	39.4	
45.9	43.4	-	-	56.6	47.6	43.6	47.8	46.9	46.2	-	30.6	30.6	-	17.1	17.1	45.9	
52.5	-	-	-	52.0	45.1	42.5	42.5	41.8	41.4	-	30.6	30.6	-	17.1	17.1	52.5	
59.1	-	-	-	43.6	43.4	42.1	39.4	37.6	37.4	30.6	30.6	30.4	-	17.1	17.1	59.1	
65.6	-	-	-	38.3	37.9	-	36.8	34.3	34.1	29.7	28.8	28.2	-	17.1	17.1	65.6	
72.2	-	-	-	33.0	-	-	32.8	32.1	31.3	27.3	26.8	26.4	-	17.1	17.1	72.2	
78.7	-	-	-	-	-	-	28.4	28.8	29.1	25.1	24.9	24.4	17.1	17.1	17.1	78.7	
85.3	-	-	-	-	-	-	25.1	25.3	25.5	23.1	22.9	22.9	17.1	17.1	17.1	85.3	
91.9	-	-	-	-	-	-	22.0	22.2	22.4	20.9	21.1	21.1	17.1	16.9	16.7	91.9	
98.4	-	-	-	-	-	-	19.6	19.8	-	18.5	18.7	18.9	16.3	15.8	15.8	98.4	
105.0	-	-	-	-	-	-	17.6	17.6	-	16.5	16.7	16.7	15.2	14.9	14.9	105.0	
111.5	-	-	-	-	-	-	16.0	16.0	-	15.6	15.4	15.4	14.5	14.3	14.1	111.5	
118.1	-	-	-	-	-	-	-	-	-	14.3	14.3	14.5	13.6	13.4	13.4	118.1	
124.7	-	-	-	-	-	-	-	-	-	12.7	12.7	13.0	12.3	12.5	12.5	124.7	
131.2	-	-	-	-	-	-	-	-	-	11.4	11.4	-	11.0	11.0	11.2	131.2	
144.4	-	-	-	-	-	-	-	-	-	9.7	9.7	-	8.5	8.8	8.8	144.4	
157.5	-	-	-	-	-	-	-	-	-	8.3	-	-	6.6	6.8	6.8	157.5	
170.6	-	-	-	-	-	-	-	-	-	-	-	-	5.0	5.2	-	170.6	
183.7	-	-	-	-	-	-	-	-	-	-	-	-	3.7	3.7	-	183.7	
196.9	-	-	-	-	-	-	-	-	-	-	-	-	2.6	-	-	196.9	

70,100 lbs			24.6 ft x 26.2 ft			3.3 ft + 9.2 ft			360°			ASME B30.5		
42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft		
0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
ft	1,000 lbs													ft
9.8	-	70.3	-	-	-	-	-	-	-	-	-	-	-	9.8
11.5	-	67.4	55.3	-	-	-	-	-	-	-	-	-	-	11.5
13.1	87.0	64.8	53.7	-	72.9	-	-	-	-	-	-	-	-	13.1
14.8	82.4	62.3	52.2	-	70.7	56.2	-	-	-	-	-	-	-	14.8
16.4	78.0	60.1	50.9	-	68.7	55.3	-	65.9	-	-	-	-	-	16.4
19.7	70.9	56.2	48.7	-	65.2	53.3	-	65.9	55.1	-	-	-	-	19.7
23.0	65.0	52.9	46.7	77.1	62.1	51.5	-	65.9	53.7	-	-	-	-	23.0
26.2	59.9	50.0	45.1	77.1	59.3	50.0	-	65.6	52.4	-	30.6	-	-	26.2
29.5	55.7	47.6	43.8	73.8	56.6	48.5	-	63.7	51.3	-	30.6	30.6	-	29.5
32.8	52.2	45.6	42.9	69.4	54.4	47.3	-	61.0	50.4	-	30.6	30.6	-	32.8
36.1	49.3	44.0	42.5	65.6	52.4	46.2	-	56.8	49.3	-	30.6	30.6	-	36.1
39.4	46.7	42.9	-	62.1	50.7	45.1	54.2	53.1	48.5	-	30.6	30.6	-	39.4
45.9	43.4	-	-	53.3	47.6	43.6	47.8	46.9	46.2	-	30.6	30.6	-	45.9
52.5	-	-	-	44.7	44.7	42.5	42.5	41.8	41.4	-	30.6	30.6	-	52.5
59.1	-	-	-	37.2	37.4	37.6	36.5	35.9	35.0	30.6	30.6	30.4	-	59.1
65.6	-	-	-	31.5	31.7	-	31.0	31.3	31.7	29.7	28.8	28.2	-	65.6
72.2	-	-	-	27.3	-	-	26.4	26.8	27.1	25.3	25.7	26.2	-	72.2
78.7	-	-	-	-	-	-	23.1	23.3	23.3	21.8	22.2	22.4	17.1	78.7
85.3	-	-	-	-	-	-	20.2	20.5	20.7	20.2	19.8	19.6	17.1	85.3
91.9	-	-	-	-	-	-	17.6	17.8	18.0	17.6	17.8	18.0	17.1	91.9
98.4	-	-	-	-	-	-	15.4	15.4	-	15.2	15.6	15.6	14.9	98.4
105.0	-	-	-	-	-	-	13.4	13.4	-	14.3	14.1	14.1	13.0	105.0
111.5	-	-	-	-	-	-	12.5	12.5	-	13.0	13.0	13.2	11.2	111.5
118.1	-	-	-	-	-	-	-	-	-	11.4	11.6	11.6	9.7	118.1
124.7	-	-	-	-	-	-	-	-	-	10.1	10.1	10.3	8.3	124.7
131.2	-	-	-	-	-	-	-	-	-	9.0	9.0	-	7.2	131.2
144.4	-	-	-	-	-	-	-	-	-	7.0	7.0	-	5.2	144.4
157.5	-	-	-	-	-	-	-	-	-	5.2	-	-	3.7	157.5
170.6	-	-	-	-	-	-	-	-	-	-	-	-	2.4	170.6

Operation

 48,000 lbs			 24.6 ft x 26.2 ft			 3.3 ft + 9.2 ft			360°			ASME B30.5					
		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs															ft
9.8	-	70.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8
11.5	-	67.4	55.3	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	87.0	64.8	53.7	-	72.9	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	82.4	62.3	52.2	-	70.7	56.2	-	-	-	-	-	-	-	-	-	-	14.8
16.4	78.0	60.1	50.9	-	68.7	55.3	-	65.9	-	-	-	-	-	-	-	-	16.4
19.7	70.9	56.2	48.7	-	65.2	53.3	-	65.9	55.1	-	-	-	-	-	-	-	19.7
23.0	65.0	52.9	46.7	77.1	62.1	51.5	-	65.9	53.7	-	-	-	-	-	-	-	23.0
26.2	59.9	50.0	45.1	77.1	59.3	50.0	-	65.6	52.4	-	30.6	-	-	-	-	-	26.2
29.5	55.7	47.6	43.8	73.8	56.6	48.5	-	63.7	51.3	-	30.6	30.6	-	-	-	-	29.5
32.8	52.2	45.6	42.9	69.4	54.4	47.3	-	61.0	50.4	-	30.6	30.6	-	-	-	-	32.8
36.1	49.3	44.0	42.5	63.9	52.4	46.2	-	56.8	49.3	-	30.6	30.6	-	-	-	-	36.1
39.4	46.7	42.9	-	57.0	50.7	45.1	50.7	52.0	48.5	-	30.6	30.6	-	17.1	-	-	39.4
45.9	43.4	-	-	44.7	45.1	43.6	44.0	41.6	42.3	-	30.6	30.6	-	17.1	17.1	-	45.9
52.5	-	-	-	36.1	36.5	36.8	35.4	36.1	36.5	-	30.6	30.6	-	17.1	17.1	-	52.5
59.1	-	-	-	31.0	30.2	30.2	29.5	30.2	30.4	27.3	27.3	27.7	-	17.1	17.1	-	59.1
65.6	-	-	-	26.4	26.6	-	24.6	25.1	25.5	24.2	24.6	24.2	-	17.1	17.1	-	65.6
72.2	-	-	-	22.4	-	-	20.7	21.1	21.3	20.7	21.1	21.3	-	17.1	17.1	-	72.2
78.7	-	-	-	-	-	-	17.4	17.6	18.0	18.7	18.5	18.2	16.3	16.7	17.1	-	78.7
85.3	-	-	-	-	-	-	16.0	15.8	15.8	16.0	16.3	16.5	14.1	14.5	14.7	-	85.3
91.9	-	-	-	-	-	-	14.9	14.7	14.7	13.8	14.1	14.3	12.1	12.3	12.5	-	91.9
98.4	-	-	-	-	-	-	13.4	13.4	-	11.9	12.1	12.3	10.1	10.3	10.5	-	98.4
105.0	-	-	-	-	-	-	11.6	11.9	-	10.1	10.3	10.5	8.5	8.8	9.0	-	105.0
111.5	-	-	-	-	-	-	10.3	10.3	-	8.8	9.0	9.0	7.0	7.2	7.4	-	111.5
118.1	-	-	-	-	-	-	-	-	-	7.4	7.7	7.7	5.9	6.1	6.1	-	118.1
124.7	-	-	-	-	-	-	-	-	-	6.3	6.6	6.6	4.8	5.0	5.0	-	124.7
131.2	-	-	-	-	-	-	-	-	-	5.5	5.5	-	3.7	3.9	4.1	-	131.2
144.4	-	-	-	-	-	-	-	-	-	3.7	3.9	-	2.2	2.4	2.4	-	144.4
157.5	-	-	-	-	-	-	-	-	-	2.6	-	-	-	-	-	-	157.5

 22,050 lbs				 24.6 ft x 26.2 ft				 3.3 ft + 9.2 ft				360°				ASME B30.5			
 		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft					
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°			
ft		1,000 lbs															ft		
9.8	-	70.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8		
11.5	-	67.4	55.3	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5		
13.1	87.0	64.8	53.7	-	72.9	-	-	-	-	-	-	-	-	-	-	-	13.1		
14.8	82.4	62.3	52.2	-	70.7	56.2	-	-	-	-	-	-	-	-	-	-	14.8		
16.4	78.0	60.1	50.9	-	68.7	55.3	-	65.9	-	-	-	-	-	-	-	-	16.4		
19.7	70.9	56.2	48.7	-	65.2	53.3	-	65.9	55.1	-	-	-	-	-	-	-	19.7		
23.0	65.0	52.9	46.7	77.1	62.1	51.5	-	65.9	53.7	-	-	-	-	-	-	-	23.0		
26.2	59.9	50.0	45.1	77.1	59.3	50.0	-	65.0	52.4	-	30.6	-	-	-	-	-	26.2		
29.5	55.7	47.6	43.8	67.9	56.6	48.5	-	54.8	51.3	-	30.6	30.6	-	-	-	-	29.5		
32.8	52.2	45.6	42.9	57.9	54.4	47.3	-	48.7	48.5	-	30.6	30.6	-	-	-	-	32.8		
36.1	48.7	44.0	42.5	49.3	50.2	46.2	-	44.7	42.1	-	30.6	30.6	-	-	-	-	36.1		
39.4	42.1	42.5	-	42.5	43.4	43.8	38.5	39.6	37.6	-	30.6	30.6	-	17.1	-	-	39.4		
45.9	31.7	-	-	34.1	34.8	33.5	30.6	31.5	32.1	-	27.3	27.3	-	17.1	17.1	-	45.9		
52.5	-	-	-	26.8	27.3	27.5	25.5	25.5	26.2	-	23.5	23.5	-	17.1	17.1	-	52.5		
59.1	-	-	-	21.6	21.8	22.0	22.4	22.0	22.2	20.0	20.7	20.9	-	16.9	17.1	-	59.1		
65.6	-	-	-	17.6	17.8	-	18.9	19.1	19.4	16.9	17.4	17.6	-	14.1	14.5	-	65.6		
72.2	-	-	-	14.5	-	-	15.6	16.0	16.0	14.1	14.5	14.7	-	11.6	11.9	-	72.2		
78.7	-	-	-	-	-	-	13.2	13.4	13.4	11.4	11.9	12.1	9.2	9.4	9.9	-	78.7		
85.3	-	-	-	-	-	-	11.0	11.2	11.4	9.4	9.7	9.9	7.4	7.9	8.1	-	85.3		
91.9	-	-	-	-	-	-	9.2	9.4	9.4	7.7	7.9	8.1	5.9	6.3	6.6	-	91.9		
98.4	-	-	-	-	-	-	7.9	7.9	-	6.3	6.6	6.6	4.6	4.8	5.0	-	98.4		
105.0	-	-	-	-	-	-	6.6	6.6	-	5.0	5.2	5.2	3.3	3.5	3.7	-	105.0		
111.5	-	-	-	-	-	-	5.5	5.5	-	3.9	4.1	4.1	-	-	-	-	111.5		
118.1	-	-	-	-	-	-	-	-	-	3.0	3.0	3.3	-	-	-	-	118.1		
124.7	-	-	-	-	-	-	-	-	-	2.2	2.4	2.4	-	-	-	-	124.7		

 13,200 lbs			 24.6 ft x 26.2 ft			 3.3 ft + 9.2 ft			360°			ASME B30.5					
 		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft			
ft		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	ft
1,000 lbs																	
9.8	-	70.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8
11.5	-	67.4	55.3	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	87.0	64.8	53.7	-	72.9	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	82.4	62.3	52.2	-	70.7	56.2	-	-	-	-	-	-	-	-	-	-	14.8
16.4	78.0	60.1	50.9	-	68.7	55.3	-	65.9	-	-	-	-	-	-	-	-	16.4
19.7	70.9	56.2	48.7	-	65.2	53.3	-	65.9	55.1	-	-	-	-	-	-	-	19.7
23.0	65.0	52.9	46.7	77.1	62.1	51.5	-	65.9	53.7	-	-	-	-	-	-	-	23.0
26.2	59.9	50.0	45.1	70.7	59.3	50.0	-	56.4	52.4	-	30.6	-	-	-	-	-	26.2
29.5	55.7	47.6	43.8	59.3	56.6	48.5	-	51.1	48.9	-	30.6	30.6	-	-	-	-	29.5
32.8	51.1	45.6	42.9	50.4	51.8	47.3	-	44.5	41.6	-	30.6	30.6	-	-	-	-	32.8
36.1	43.2	43.8	42.5	43.6	44.7	45.4	-	38.8	37.6	-	30.6	30.6	-	-	-	-	36.1
39.4	36.5	37.2	-	39.2	38.3	38.8	33.0	33.9	35.0	-	28.2	29.1	-	17.1	-	-	39.4
45.9	26.8	-	-	29.3	30.2	30.4	27.9	28.2	27.7	-	24.0	24.6	-	17.1	17.1	-	45.9
52.5	-	-	-	22.7	23.3	23.5	24.2	24.0	23.8	-	20.9	21.3	-	17.1	17.1	-	52.5
59.1	-	-	-	18.2	18.5	18.5	19.4	19.8	20.2	16.7	17.1	17.6	-	13.8	14.3	-	59.1
65.6	-	-	-	14.5	14.7	-	15.8	16.0	16.3	13.8	14.3	14.5	-	11.2	11.4	-	65.6
72.2	-	-	-	11.9	-	-	13.0	13.2	13.4	11.2	11.6	12.1	-	9.0	9.2	-	72.2
78.7	-	-	-	-	-	-	10.8	11.0	11.0	9.0	9.4	9.7	-	7.0	7.4	-	78.7
85.3	-	-	-	-	-	-	8.8	9.0	9.0	7.2	7.4	7.7	-	5.5	5.7	-	85.3
91.9	-	-	-	-	-	-	7.2	7.4	7.4	5.7	5.9	6.1	-	4.1	4.4	-	91.9
98.4	-	-	-	-	-	-	5.9	6.1	-	4.4	4.6	4.8	-	-	-	-	98.4
105.0	-	-	-	-	-	-	4.8	4.8	-	3.3	3.5	3.5	-	-	-	-	105.0
111.5	-	-	-	-	-	-	3.9	3.9	-	2.4	2.4	2.6	-	-	-	-	111.5

 6,400 lbs			 24.6 ft x 26.2 ft			 3.3 ft + 9.2 ft			360°			ASME B30.5					
		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
1,000 lbs																	
ft																ft	
9.8	-	70.3	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8	
11.5	-	67.4	55.3	-	-	-	-	-	-	-	-	-	-	-	-	11.5	
13.1	87.0	64.8	53.7	-	72.9	-	-	-	-	-	-	-	-	-	-	13.1	
14.8	82.4	62.3	52.2	-	70.7	56.2	-	-	-	-	-	-	-	-	-	14.8	
16.4	78.0	60.1	50.9	-	68.7	55.3	-	65.9	-	-	-	-	-	-	-	16.4	
19.7	70.9	56.2	48.7	-	65.2	53.3	-	65.9	55.1	-	-	-	-	-	-	19.7	
23.0	65.0	52.9	46.7	76.9	62.1	51.5	-	59.7	53.7	-	-	-	-	-	-	23.0	
26.2	59.9	50.0	45.1	62.3	59.3	50.0	-	52.9	50.9	-	30.6	-	-	-	-	26.2	
29.5	55.3	47.6	43.8	52.0	53.5	48.5	-	45.1	42.5	-	30.6	30.6	-	-	-	29.5	
32.8	45.6	45.6	42.9	46.2	45.4	46.5	-	38.8	37.6	-	30.6	30.6	-	-	-	32.8	
36.1	37.6	38.5	39.0	39.9	40.1	39.9	-	34.1	34.6	-	27.5	28.6	-	-	-	36.1	
39.4	31.5	32.1	-	34.1	35.2	35.7	31.0	31.5	31.5	-	26.0	26.8	-	17.1	-	39.4	
45.9	22.9	-	-	25.3	26.0	26.4	25.7	26.4	26.2	-	22.0	22.4	-	17.1	17.1	45.9	
52.5	-	-	-	19.6	20.0	20.2	20.9	21.3	21.8	-	17.6	18.0	-	14.1	14.5	52.5	
59.1	-	-	-	15.2	15.6	15.6	16.5	16.9	17.1	13.8	14.3	14.7	-	11.0	11.6	59.1	
65.6	-	-	-	12.1	12.1	-	13.2	13.6	13.8	11.2	11.6	12.1	-	8.5	9.0	65.6	
72.2	-	-	-	9.4	-	-	10.8	11.0	11.2	9.0	9.4	9.7	-	6.6	7.0	72.2	
78.7	-	-	-	-	-	-	8.5	8.8	9.0	7.0	7.4	7.7	-	5.0	5.2	78.7	
85.3	-	-	-	-	-	-	7.0	7.2	7.2	5.2	5.7	5.9	-	-	-	85.3	
91.9	-	-	-	-	-	-	5.5	5.7	5.7	3.9	4.1	4.4	-	-	-	91.9	
98.4	-	-	-	-	-	-	4.4	4.4	-	2.8	3.0	3.3	-	-	-	98.4	
105.0	-	-	-	-	-	-	3.3	3.5	-	-	1.9	2.2	-	-	-	105.0	
111.5	-	-	-	-	-	-	2.4	2.4	-	-	-	-	-	-	-	111.5	

Operation

 93,500 lbs			 24.6 ft x 26.2 ft			 3.3 ft + 30.2 ft			360°			ASME B30.5					
 		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs															ft
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	-	30.4	-	-	33.0	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	33.0	27.9	-	-	31.9	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	33.0	26.0	20.5	-	29.9	21.8	-	32.4	-	-	-	-	-	-	-	-	26.2
29.5	32.6	24.2	19.6	-	28.2	20.9	-	30.8	-	-	-	-	-	-	-	-	29.5
32.8	29.7	22.7	18.7	-	26.6	20.2	-	29.5	21.1	-	-	-	-	-	-	-	32.8
36.1	27.3	21.3	17.8	33.0	25.3	19.6	-	28.4	20.5	-	18.5	-	-	-	-	-	36.1
39.4	25.1	20.2	17.1	33.0	24.2	18.9	-	27.3	20.0	-	18.5	-	-	-	-	-	39.4
45.9	21.6	18.2	16.0	30.6	22.0	17.8	-	25.5	19.1	-	18.5	18.5	-	-	-	-	45.9
52.5	18.7	16.7	15.2	26.8	20.2	16.9	-	23.8	18.2	-	18.5	18.5	-	12.5	-	-	52.5
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	-	59.1
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	-	65.6
72.2	-	-	-	19.1	16.5	14.9	26.8	20.0	16.5	18.5	18.5	17.1	-	12.5	12.5	-	72.2
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	-	78.7
85.3	-	-	-	16.0	15.2	-	22.7	18.0	15.4	18.5	18.5	16.3	12.5	12.5	12.5	-	85.3
91.9	-	-	-	14.7	14.7	-	20.9	17.4	15.2	18.5	18.5	15.8	12.5	12.5	12.5	-	91.9
98.4	-	-	-	-	-	-	19.1	16.7	14.7	18.5	17.6	15.4	12.5	12.5	12.5	-	98.4
105.0	-	-	-	-	-	-	18.0	16.0	14.5	17.1	16.7	15.2	12.5	12.3	11.9	-	105.0
111.5	-	-	-	-	-	-	16.5	15.6	14.5	15.2	15.8	14.9	12.5	11.6	11.2	-	111.5
118.1	-	-	-	-	-	-	14.9	14.9	-	13.6	14.3	14.5	11.6	11.0	10.5	-	118.1
124.7	-	-	-	-	-	-	13.6	13.8	-	12.7	12.7	13.4	11.0	10.3	10.1	-	124.7
131.2	-	-	-	-	-	-	12.5	12.7	-	12.1	11.6	11.9	10.3	9.9	9.7	-	131.2
144.4	-	-	-	-	-	-	-	-	-	9.7	10.1	10.3	9.0	8.8	8.8	-	144.4
157.5	-	-	-	-	-	-	-	-	-	7.9	8.1	-	7.0	7.7	7.9	-	157.5
170.6	-	-	-	-	-	-	-	-	-	6.8	7.0	-	5.5	5.9	6.1	-	170.6
183.7	-	-	-	-	-	-	-	-	-	-	-	-	4.1	4.6	4.6	-	183.7
196.9	-	-	-	-	-	-	-	-	-	-	-	-	3.0	3.3	-	-	196.9
210.0	-	-	-	-	-	-	-	-	-	-	-	-	1.9	2.2	-	-	210.0

 70,100 lbs			 24.6 ft x 26.2 ft			 3.3 ft + 30.2 ft			360°			ASME B30.5				
		42.0 ft		70.2 ft			112.9 ft			155.5 ft			196.9 ft			
0°		20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
1,000 lbs																
ft																ft
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	-	30.4	-	-	33.0	-	-	-	-	-	-	-	-	-	-	19.7
23.0	33.0	27.9	-	-	31.9	-	-	-	-	-	-	-	-	-	-	23.0
26.2	33.0	26.0	20.5	-	29.9	21.8	-	32.4	-	-	-	-	-	-	-	26.2
29.5	32.6	24.2	19.6	-	28.2	20.9	-	30.8	-	-	-	-	-	-	-	29.5
32.8	29.7	22.7	18.7	-	26.6	20.2	-	29.5	21.1	-	-	-	-	-	-	32.8
36.1	27.3	21.3	17.8	33.0	25.3	19.6	-	28.4	20.5	-	18.5	-	-	-	-	36.1
39.4	25.1	20.2	17.1	33.0	24.2	18.9	-	27.3	20.0	-	18.5	-	-	-	-	39.4
45.9	21.6	18.2	16.0	30.6	22.0	17.8	-	25.5	19.1	-	18.5	18.5	-	-	-	45.9
52.5	18.7	16.7	15.2	26.8	20.2	16.9	-	23.8	18.2	-	18.5	18.5	-	12.5	-	52.5
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	59.1
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	65.6
72.2	-	-	-	19.1	16.5	14.9	25.3	20.0	16.5	18.5	18.5	17.1	-	12.5	12.5	72.2
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	78.7
85.3	-	-	-	16.0	15.2	-	20.7	18.0	15.4	18.5	18.5	16.3	12.5	12.5	12.5	85.3
91.9	-	-	-	14.7	14.7	-	18.5	17.4	15.2	16.9	18.0	15.8	12.5	12.5	12.5	91.9
98.4	-	-	-	-	-	-	16.3	16.7	14.7	16.0	15.8	15.4	12.5	12.5	12.5	98.4
105.0	-	-	-	-	-	-	14.3	15.2	14.5	14.1	14.5	14.5	12.5	12.3	11.9	105.0
111.5	-	-	-	-	-	-	12.7	13.4	13.6	12.5	13.2	13.4	11.6	11.6	11.2	111.5
118.1	-	-	-	-	-	-	11.2	11.6	-	11.9	11.6	12.1	10.1	11.0	10.5	118.1
124.7	-	-	-	-	-	-	9.9	10.3	-	10.5	10.8	10.5	8.8	9.7	10.1	124.7
131.2	-	-	-	-	-	-	9.2	9.2	-	9.4	10.1	10.1	7.7	8.3	9.0	131.2
144.4	-	-	-	-	-	-	-	-	-	7.4	7.9	8.1	5.7	6.3	6.8	144.4
157.5	-	-	-	-	-	-	-	-	-	5.9	6.1	-	4.1	4.6	5.0	157.5
170.6	-	-	-	-	-	-	-	-	-	4.4	4.6	-	2.8	3.3	3.5	170.6
183.7	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	2.2	183.7

Operation

FJ

 48,000 lbs				 24.6 ft x 26.2 ft				 3.3 ft + 30.2 ft				360°				ASME B30.5																		
 		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft																				
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°																		
ft																	1,000 lbs																	ft
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4																	
19.7	-	30.4	-	-	33.0	-	-	-	-	-	-	-	-	-	-	-	19.7																	
23.0	33.0	27.9	-	-	31.9	-	-	-	-	-	-	-	-	-	-	-	23.0																	
26.2	33.0	26.0	20.5	-	29.9	21.8	-	32.4	-	-	-	-	-	-	-	-	26.2																	
29.5	32.6	24.2	19.6	-	28.2	20.9	-	30.8	-	-	-	-	-	-	-	-	29.5																	
32.8	29.7	22.7	18.7	-	26.6	20.2	-	29.5	21.1	-	-	-	-	-	-	-	32.8																	
36.1	27.3	21.3	17.8	33.0	25.3	19.6	-	28.4	20.5	-	18.5	-	-	-	-	-	36.1																	
39.4	25.1	20.2	17.1	33.0	24.2	18.9	-	27.3	20.0	-	18.5	-	-	-	-	-	39.4																	
45.9	21.6	18.2	16.0	30.6	22.0	17.8	-	25.5	19.1	-	18.5	18.5	-	-	-	-	45.9																	
52.5	18.7	16.7	15.2	26.8	20.2	16.9	-	23.8	18.2	-	18.5	18.5	-	12.5	-	-	52.5																	
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	-	59.1																	
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	-	65.6																	
72.2	-	-	-	19.1	16.5	14.9	21.6	20.0	16.5	18.5	18.5	17.1	-	12.5	12.5	-	72.2																	
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	-	78.7																	
85.3	-	-	-	15.8	15.2	-	15.6	16.7	15.4	15.4	16.5	16.3	12.5	12.5	12.5	-	85.3																	
91.9	-	-	-	14.7	14.7	-	13.8	14.5	15.2	14.3	14.3	15.2	12.1	12.5	12.5	-	91.9																	
98.4	-	-	-	-	-	-	12.7	12.5	13.0	12.3	13.4	13.0	10.5	11.6	12.5	-	98.4																	
105.0	-	-	-	-	-	-	11.6	11.6	11.6	10.8	11.6	12.3	9.0	10.1	10.8	-	105.0																	
111.5	-	-	-	-	-	-	10.8	10.5	10.8	9.2	10.1	10.5	7.4	8.5	9.2	-	111.5																	
118.1	-	-	-	-	-	-	9.7	9.9	-	8.1	8.8	9.2	6.3	7.2	7.9	-	118.1																	
124.7	-	-	-	-	-	-	8.5	8.8	-	7.0	7.7	8.1	5.2	5.9	6.6	-	124.7																	
131.2	-	-	-	-	-	-	7.7	7.9	-	5.9	6.6	7.0	4.1	5.0	5.5	-	131.2																	
144.4	-	-	-	-	-	-	-	-	-	4.4	4.8	5.0	2.6	3.3	3.7	-	144.4																	
157.5	-	-	-	-	-	-	-	-	-	3.0	3.3	-	-	-	2.2	-	157.5																	
170.6	-	-	-	-	-	-	-	-	-	1.9	2.2	-	-	-	-	-	170.6																	

 22,050 lbs			 24.6 ft x 26.2 ft			 3.3 ft + 30.2 ft			360°			ASME B30.5				
	42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft	1,000 lbs															ft
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	-	30.4	-	-	33.0	-	-	-	-	-	-	-	-	-	-	19.7
23.0	33.0	27.9	-	-	31.9	-	-	-	-	-	-	-	-	-	-	23.0
26.2	33.0	26.0	20.5	-	29.9	21.8	-	32.4	-	-	-	-	-	-	-	26.2
29.5	32.6	24.2	19.6	-	28.2	20.9	-	30.8	-	-	-	-	-	-	-	29.5
32.8	29.7	22.7	18.7	-	26.6	20.2	-	29.5	21.1	-	-	-	-	-	-	32.8
36.1	27.3	21.3	17.8	33.0	25.3	19.6	-	28.4	20.5	-	18.5	-	-	-	-	36.1
39.4	25.1	20.2	17.1	33.0	24.2	18.9	-	27.3	20.0	-	18.5	-	-	-	-	39.4
45.9	21.6	18.2	16.0	30.6	22.0	17.8	-	25.5	19.1	-	18.5	18.5	-	-	-	45.9
52.5	18.7	16.7	15.2	26.6	20.2	16.9	-	23.8	18.2	-	18.5	18.5	-	12.5	-	52.5
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	59.1
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	65.6
72.2	-	-	-	16.0	16.5	14.9	16.3	16.5	16.3	14.1	14.3	15.6	-	12.5	12.5	72.2
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	78.7
85.3	-	-	-	11.6	12.1	-	11.6	12.5	13.4	10.1	11.2	12.1	7.4	8.8	9.9	85.3
91.9	-	-	-	9.9	10.3	-	9.9	10.5	11.4	8.3	9.4	10.1	5.9	7.2	8.1	91.9
98.4	-	-	-	-	-	-	8.3	9.0	9.7	6.8	7.7	8.5	4.6	5.7	6.8	98.4
105.0	-	-	-	-	-	-	7.2	7.7	8.3	5.5	6.3	7.0	3.5	4.6	5.5	105.0
111.5	-	-	-	-	-	-	6.1	6.6	7.0	4.6	5.2	5.9	-	3.5	4.4	111.5
118.1	-	-	-	-	-	-	5.0	5.5	-	3.5	4.1	4.8	-	-	3.3	118.1
124.7	-	-	-	-	-	-	4.4	4.6	-	2.6	3.3	3.7	-	-	-	124.7
131.2	-	-	-	-	-	-	3.5	3.7	-	1.9	2.6	2.8	-	-	-	131.2

13,200 lbs			24.6 ft x 26.2 ft			3.3 ft + 30.2 ft			360°			ASME B30.5					
		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs															ft
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	-	30.4	-	-	-	33.0	-	-	-	-	-	-	-	-	-	-	19.7
23.0	33.0	27.9	-	-	-	31.9	-	-	-	-	-	-	-	-	-	-	23.0
26.2	33.0	26.0	20.5	-	29.9	21.8	-	32.4	-	-	-	-	-	-	-	-	26.2
29.5	32.6	24.2	19.6	-	28.2	20.9	-	30.8	-	-	-	-	-	-	-	-	29.5
32.8	29.7	22.7	18.7	-	26.6	20.2	-	29.5	21.1	-	-	-	-	-	-	-	32.8
36.1	27.3	21.3	17.8	33.0	25.3	19.6	-	28.4	20.5	-	18.5	-	-	-	-	-	36.1
39.4	25.1	20.2	17.1	33.0	24.2	18.9	-	27.3	20.0	-	18.5	-	-	-	-	-	39.4
45.9	21.6	18.2	16.0	30.2	22.0	17.8	-	25.5	19.1	-	18.5	18.5	-	-	-	-	45.9
52.5	18.7	16.7	15.2	24.6	20.2	16.9	-	22.9	18.2	-	18.5	18.5	-	12.5	-	-	52.5
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	-	59.1
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	-	65.6
72.2	-	-	-	13.4	14.3	14.9	13.4	14.7	15.6	11.4	12.7	14.1	-	9.9	11.2	-	72.2
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	-	78.7
85.3	-	-	-	9.4	9.9	-	9.4	10.3	11.2	7.9	9.0	9.9	5.0	6.3	7.4	-	85.3
91.9	-	-	-	7.9	8.1	-	7.9	8.5	9.4	6.1	7.2	8.1	3.9	5.0	6.1	-	91.9
98.4	-	-	-	-	-	-	6.6	7.2	7.9	5.0	5.9	6.6	-	3.9	4.8	-	98.4
105.0	-	-	-	-	-	-	5.5	5.9	6.6	3.7	4.6	5.2	-	-	3.5	-	105.0
111.5	-	-	-	-	-	-	4.4	4.8	5.5	2.8	3.7	4.1	-	-	-	-	111.5
118.1	-	-	-	-	-	-	3.5	3.9	-	1.9	2.6	3.3	-	-	-	-	118.1
124.7	-	-	-	-	-	-	2.8	3.0	-	-	1.9	2.4	-	-	-	-	124.7
131.2	-	-	-	-	-	-	2.2	2.4	-	-	-	-	-	-	-	-	131.2

 6,400 lbs			 24.6 ft x 26.2 ft			 3.3 ft + 30.2 ft			360°			ASME B30.5					
		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
1,000 lbs																	
ft																ft	
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4	
19.7	-	30.4	-	-	33.0	-	-	-	-	-	-	-	-	-	-	19.7	
23.0	33.0	27.9	-	-	31.9	-	-	-	-	-	-	-	-	-	-	23.0	
26.2	33.0	26.0	20.5	-	29.9	21.8	-	32.4	-	-	-	-	-	-	-	26.2	
29.5	32.6	24.2	19.6	-	28.2	20.9	-	30.8	-	-	-	-	-	-	-	29.5	
32.8	29.7	22.7	18.7	-	26.6	20.2	-	29.5	21.1	-	-	-	-	-	-	32.8	
36.1	27.3	21.3	17.8	33.0	25.3	19.6	-	28.4	20.5	-	18.5	-	-	-	-	36.1	
39.4	25.1	20.2	17.1	33.0	24.2	18.9	-	27.3	20.0	-	18.5	-	-	-	-	39.4	
45.9	21.6	18.2	16.0	27.3	22.0	17.8	-	24.4	19.1	-	18.5	18.5	-	-	-	45.9	
52.5	18.7	16.7	15.2	21.3	20.2	16.9	-	21.1	18.2	-	16.5	18.0	-	12.5	-	52.5	
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	59.1	
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	65.6	
72.2	-	-	-	11.2	12.1	12.7	11.2	12.3	13.6	9.0	10.5	11.6	-	7.7	9.0	72.2	
78.7	-	-	-	9.2	9.9	10.3	9.2	10.1	11.2	7.4	8.5	9.7	-	5.9	7.2	78.7	
85.3	-	-	-	7.4	8.1	-	7.4	8.3	9.2	5.9	7.0	7.9	-	4.6	5.7	85.3	
91.9	-	-	-	6.1	6.6	-	6.1	6.8	7.7	4.6	5.7	6.3	-	-	4.4	91.9	
98.4	-	-	-	-	-	-	4.8	5.5	6.3	3.3	4.4	5.0	-	-	-	98.4	
105.0	-	-	-	-	-	-	3.9	4.4	5.0	2.4	3.3	3.9	-	-	-	105.0	
111.5	-	-	-	-	-	-	3.0	3.5	3.9	-	2.2	2.8	-	-	-	111.5	
118.1	-	-	-	-	-	-	2.4	2.6	-	-	-	-	-	-	-	118.1	
124.7	-	-	-	-	-	-	-	1.9	-	-	-	-	-	-	-	124.7	

 93,500 lbs			 24.6 ft x 26.2 ft			 3.3 ft + 55.7 ft			360°			ASME B30.5					
		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs															ft
11.5	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	17.1	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	16.7	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	15.8	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	14.7	11.9	-	16.0	-	-	14.1	-	-	-	-	-	-	-	-	-	26.2
29.5	13.8	11.2	-	15.4	11.4	-	14.1	-	-	-	-	-	-	-	-	-	29.5
32.8	13.2	10.5	-	14.5	11.0	-	14.1	-	-	-	-	-	-	-	-	-	32.8
36.1	12.3	10.1	-	13.8	10.5	-	14.1	10.5	-	10.3	-	-	-	-	-	-	36.1
39.4	11.6	9.7	-	13.4	10.1	-	14.1	10.3	-	10.3	-	-	-	-	-	-	39.4
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7	-	10.3	-	-	-	-	-	-	45.9
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	-	-	-	52.5
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	-	-	-	59.1
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	-	-	65.6
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	-	-	72.2
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	-	-	78.7
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	-	85.3
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	-	91.9
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	-	98.4
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	-	105.0
111.5	-	-	-	6.6	5.9	-	7.7	6.3	5.9	8.1	6.6	5.7	7.9	6.3	5.5	-	111.5
118.1	-	-	-	6.3	5.9	-	7.2	6.1	5.7	7.9	6.3	5.7	7.7	6.1	5.5	-	118.1
124.7	-	-	-	-	-	-	7.0	6.1	5.7	7.4	6.1	5.5	7.4	5.9	5.5	-	124.7
131.2	-	-	-	-	-	-	6.8	5.9	5.7	7.2	5.9	5.5	7.2	5.9	5.2	-	131.2
144.4	-	-	-	-	-	-	6.3	5.7	5.5	6.8	5.7	5.2	6.8	5.7	5.0	-	144.4
157.5	-	-	-	-	-	-	6.1	5.7	-	6.6	5.5	5.2	6.3	5.5	5.0	-	157.5
170.6	-	-	-	-	-	-	-	-	-	6.1	5.5	5.2	5.9	5.2	4.8	-	170.6
183.7	-	-	-	-	-	-	-	-	-	5.7	5.2	-	4.6	5.0	4.8	-	183.7
196.9	-	-	-	-	-	-	-	-	-	4.8	5.0	-	3.5	4.1	4.4	-	196.9
210.0	-	-	-	-	-	-	-	-	-	-	-	-	2.6	3.0	-	-	210.0
223.1	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	-	-	223.1

 70,100 lbs				 24.6 ft x 26.2 ft				 3.3 ft + 55.7 ft				360°				ASME B30.5	
 		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs															ft
11.5	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	17.1	-	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	16.7	-	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	15.8	-	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	14.7	11.9	-	-	16.0	-	-	14.1	-	-	-	-	-	-	-	-	26.2
29.5	13.8	11.2	-	-	15.4	11.4	-	14.1	-	-	-	-	-	-	-	-	29.5
32.8	13.2	10.5	-	-	14.5	11.0	-	14.1	-	-	-	-	-	-	-	-	32.8
36.1	12.3	10.1	-	-	13.8	10.5	-	14.1	10.5	-	10.3	-	-	-	-	-	36.1
39.4	11.6	9.7	-	-	13.4	10.1	-	14.1	10.3	-	10.3	-	-	-	-	-	39.4
45.9	10.5	8.8	7.7	-	12.1	9.4	7.9	13.2	9.7	-	10.3	-	-	-	-	-	45.9
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	-	-	52.5
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	-	-	59.1
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	-	65.6
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	-	72.2
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	-	78.7
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	85.3
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	91.9
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	98.4
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	105.0
111.5	-	-	-	-	6.6	5.9	-	7.7	6.3	5.9	8.1	6.6	5.7	7.9	6.3	5.5	111.5
118.1	-	-	-	-	6.3	5.9	-	7.2	6.1	5.7	7.9	6.3	5.7	7.7	6.1	5.5	118.1
124.7	-	-	-	-	-	-	-	7.0	6.1	5.7	7.4	6.1	5.5	7.4	5.9	5.5	124.7
131.2	-	-	-	-	-	-	-	6.8	5.9	5.7	7.2	5.9	5.5	7.2	5.9	5.2	131.2
144.4	-	-	-	-	-	-	-	6.3	5.7	5.5	6.8	5.7	5.2	6.3	5.7	5.0	144.4
157.5	-	-	-	-	-	-	-	6.1	5.7	-	6.3	5.5	5.2	4.6	5.5	5.0	157.5
170.6	-	-	-	-	-	-	-	-	-	-	5.0	5.2	5.0	3.3	4.1	4.8	170.6
183.7	-	-	-	-	-	-	-	-	-	-	3.9	4.4	-	2.2	2.8	3.3	183.7
196.9	-	-	-	-	-	-	-	-	-	-	3.0	3.3	-	-	-	2.2	196.9

Operation

 48,000 lbs				 24.6 ft x 26.2 ft				 3.3 ft + 55.7 ft				360°				ASME B30.5	
 		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs															
11.5	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	17.1	-	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	16.7	-	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	15.8	-	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	14.7	11.9	-	-	16.0	-	-	14.1	-	-	-	-	-	-	-	-	26.2
29.5	13.8	11.2	-	-	15.4	11.4	-	14.1	-	-	-	-	-	-	-	-	29.5
32.8	13.2	10.5	-	-	14.5	11.0	-	14.1	-	-	-	-	-	-	-	-	32.8
36.1	12.3	10.1	-	-	13.8	10.5	-	14.1	10.5	-	10.3	-	-	-	-	-	36.1
39.4	11.6	9.7	-	-	13.4	10.1	-	14.1	10.3	-	10.3	-	-	-	-	-	39.4
45.9	10.5	8.8	7.7	-	12.1	9.4	7.9	13.2	9.7	-	10.3	-	-	-	-	-	45.9
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	-	-	52.5
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	-	-	59.1
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	-	65.6
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	-	72.2
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	-	78.7
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	85.3
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	91.9
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	98.4
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	105.0
111.5	-	-	-	-	6.6	5.9	-	7.7	6.3	5.9	7.9	6.6	5.7	7.9	6.3	5.5	111.5
118.1	-	-	-	-	6.3	5.9	-	7.2	6.1	5.7	7.7	6.3	5.7	7.0	6.1	5.5	118.1
124.7	-	-	-	-	-	-	-	7.0	6.1	5.7	7.2	6.1	5.5	5.9	5.9	5.5	124.7
131.2	-	-	-	-	-	-	-	6.6	5.9	5.7	6.6	5.9	5.5	4.8	5.9	5.2	131.2
144.4	-	-	-	-	-	-	-	6.3	5.7	5.5	5.0	5.7	5.2	3.3	4.4	5.0	144.4
157.5	-	-	-	-	-	-	-	5.5	5.5	-	3.7	4.4	4.8	-	2.8	3.5	157.5
170.6	-	-	-	-	-	-	-	-	-	-	2.4	3.0	3.3	-	-	2.2	170.6
183.7	-	-	-	-	-	-	-	-	-	-	-	1.9	-	-	-	-	183.7

 22,050 lbs			 24.6 ft x 26.2 ft			 3.3 ft + 55.7 ft			360°			ASME B30.5					
 42.0 ft			 70.2 ft			 112.9 ft			 155.5 ft			 196.9 ft					
0° 20° 40°			0° 20° 40°			0° 20° 40°			0° 20° 40°			0° 20° 40°					
ft			1,000 lbs														ft
11.5	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5		
13.1	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1		
14.8	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8		
16.4	17.1	-	-	16.3	-	-	-	-	-	-	-	-	-	-	16.4		
19.7	16.7	-	-	16.3	-	-	-	-	-	-	-	-	-	-	19.7		
23.0	15.8	-	-	16.3	-	-	-	-	-	-	-	-	-	-	23.0		
26.2	14.7	11.9	-	16.0	-	-	14.1	-	-	-	-	-	-	-	26.2		
29.5	13.8	11.2	-	15.4	11.4	-	14.1	-	-	-	-	-	-	-	29.5		
32.8	13.2	10.5	-	14.5	11.0	-	14.1	-	-	-	-	-	-	-	32.8		
36.1	12.3	10.1	-	13.8	10.5	-	14.1	10.5	-	10.3	-	-	-	-	36.1		
39.4	11.6	9.7	-	13.4	10.1	-	14.1	10.3	-	10.3	-	-	-	-	39.4		
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7	-	10.3	-	-	-	-	45.9		
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	-	52.5		
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	-	59.1		
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	65.6		
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	72.2		
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	78.7		
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	85.3		
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	91.9		
98.4	-	-	-	7.0	6.3	5.9	8.1	6.8	6.1	7.7	6.8	5.9	5.0	6.6	98.4		
105.0	-	-	-	6.8	6.1	5.9	7.7	6.6	5.9	6.3	6.6	5.9	3.9	5.9	105.0		
111.5	-	-	-	6.6	5.9	-	7.0	6.3	5.7	5.2	6.3	5.7	-	4.8	111.5		
118.1	-	-	-	6.3	5.9	-	6.1	6.1	5.7	4.1	5.5	5.7	-	3.7	118.1		
124.7	-	-	-	-	-	-	5.2	5.9	5.5	3.5	4.6	5.5	-	-	124.7		
131.2	-	-	-	-	-	-	4.4	5.2	5.5	2.6	3.7	4.6	-	-	131.2		
144.4	-	-	-	-	-	-	3.3	3.7	3.9	-	2.2	2.8	-	-	144.4		
157.5	-	-	-	-	-	-	2.2	2.4	-	-	-	-	-	-	157.5		

Operation

FJ

 13,200 lbs				 24.6 ft x 26.2 ft				 3.3 ft + 55.7 ft				360°				ASME B30.5			
 		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft					
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°			
ft		1,000 lbs															ft		
11.5	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5		
13.1	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1		
14.8	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8		
16.4	17.1	-	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	16.4		
19.7	16.7	-	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	19.7		
23.0	15.8	-	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	23.0		
26.2	14.7	11.9	-	-	16.0	-	-	14.1	-	-	-	-	-	-	-	-	26.2		
29.5	13.8	11.2	-	-	15.4	11.4	-	14.1	-	-	-	-	-	-	-	-	29.5		
32.8	13.2	10.5	-	-	14.5	11.0	-	14.1	-	-	-	-	-	-	-	-	32.8		
36.1	12.3	10.1	-	-	13.8	10.5	-	14.1	10.5	-	10.3	-	-	-	-	-	36.1		
39.4	11.6	9.7	-	-	13.4	10.1	-	14.1	10.3	-	10.3	-	-	-	-	-	39.4		
45.9	10.5	8.8	7.7	-	12.1	9.4	7.9	13.2	9.7	-	10.3	-	-	-	-	-	45.9		
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	-	-	52.5		
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	-	-	59.1		
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	-	65.6		
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	-	72.2		
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	-	78.7		
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	85.3		
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	91.9		
98.4	-	-	-	-	7.0	6.3	5.9	7.7	6.8	6.1	5.7	6.6	5.9	-	5.0	5.9	98.4		
105.0	-	-	-	-	6.8	6.1	5.9	6.3	6.3	5.9	4.6	6.1	5.9	-	3.9	5.5	105.0		
111.5	-	-	-	-	5.9	5.9	-	5.5	6.1	5.7	3.5	5.0	5.7	-	-	4.4	111.5		
118.1	-	-	-	-	5.0	5.5	-	4.6	5.5	5.5	2.6	3.9	5.0	-	-	-	118.1		
124.7	-	-	-	-	-	-	-	3.7	4.6	5.2	1.9	3.0	3.9	-	-	-	124.7		
131.2	-	-	-	-	-	-	-	3.0	3.7	4.1	-	2.4	3.0	-	-	-	131.2		
144.4	-	-	-	-	-	-	-	1.9	2.4	2.6	-	-	-	-	-	-	144.4		

 6,400 lbs				 24.6 ft x 26.2 ft				 3.3 ft + 55.7 ft				360°				ASME B30.5			
 		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft					
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°			
ft		1,000 lbs															ft		
11.5	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5		
13.1	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1		
14.8	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8		
16.4	17.1	-	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	16.4		
19.7	16.7	-	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	19.7		
23.0	15.8	-	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	23.0		
26.2	14.7	11.9	-	-	16.0	-	-	14.1	-	-	-	-	-	-	-	-	26.2		
29.5	13.8	11.2	-	-	15.4	11.4	-	14.1	-	-	-	-	-	-	-	-	29.5		
32.8	13.2	10.5	-	-	14.5	11.0	-	14.1	-	-	-	-	-	-	-	-	32.8		
36.1	12.3	10.1	-	-	13.8	10.5	-	14.1	10.5	-	10.3	-	-	-	-	-	36.1		
39.4	11.6	9.7	-	-	13.4	10.1	-	14.1	10.3	-	10.3	-	-	-	-	-	39.4		
45.9	10.5	8.8	7.7	-	12.1	9.4	7.9	13.2	9.7	-	10.3	-	-	-	-	-	45.9		
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	-	-	52.5		
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	-	-	59.1		
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	-	65.6		
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	-	72.2		
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	-	78.7		
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	85.3		
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	91.9		
98.4	-	-	-	-	6.6	6.3	5.9	5.9	6.6	5.9	4.1	5.7	5.9	-	-	5.2	98.4		
105.0	-	-	-	-	5.5	6.1	5.9	5.0	6.1	5.7	3.0	4.6	5.7	-	-	-	105.0		
111.5	-	-	-	-	4.6	5.2	-	4.1	5.0	5.7	-	3.7	4.8	-	-	-	111.5		
118.1	-	-	-	-	3.9	4.1	-	3.3	4.1	4.8	-	2.6	3.7	-	-	-	118.1		
124.7	-	-	-	-	-	-	-	2.6	3.3	3.9	-	-	2.8	-	-	-	124.7		
131.2	-	-	-	-	-	-	-	1.9	2.6	3.0	-	-	-	-	-	-	131.2		

Operation

FJ

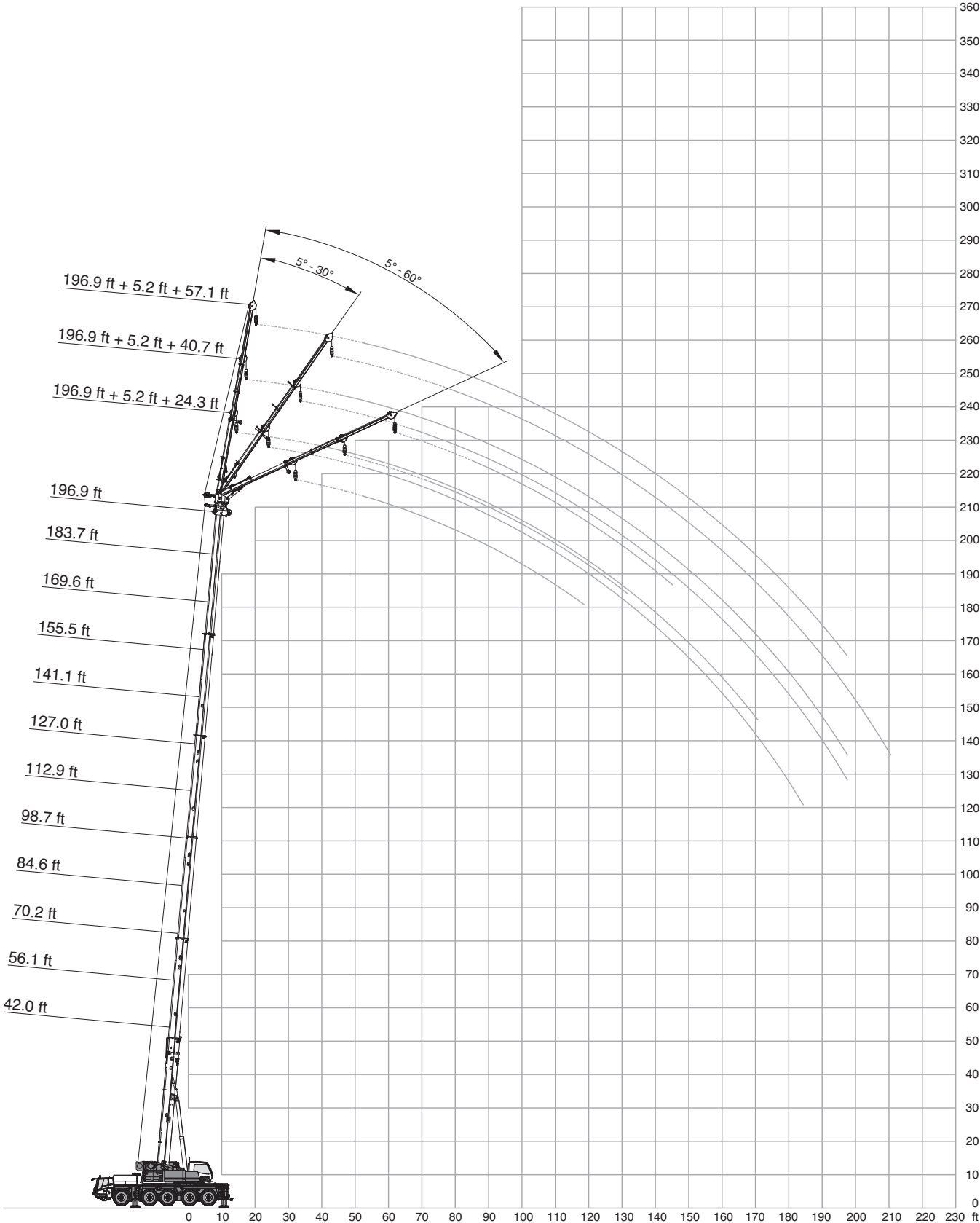
 93,500 lbs			 24.6 ft x 26.2 ft			 3.3 ft + 78.7 ft			360°			ASME B30.5					
		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs															ft
16.4	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	11.2	-	-	-	10.8	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	11.2	-	-	-	10.8	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	11.2	-	-	-	10.8	-	-	-	8.8	-	-	-	-	-	-	-	29.5
32.8	11.2	-	-	-	10.8	-	-	-	9.2	-	-	-	-	-	-	-	32.8
36.1	11.2	-	-	-	10.8	-	-	-	9.2	-	-	-	-	-	-	-	36.1
39.4	11.2	10.3	-	-	10.8	-	-	-	9.2	-	-	-	-	-	-	-	39.4
45.9	11.0	9.7	-	-	10.8	9.7	-	-	9.2	-	-	7.2	-	-	-	-	45.9
52.5	10.1	8.8	-	-	10.8	9.0	-	-	9.2	9.0	-	7.2	-	-	-	-	52.5
59.1	9.0	8.1	-	-	10.3	8.5	-	-	9.2	8.5	-	7.2	-	-	5.9	-	59.1
65.6	7.9	7.2	6.3	-	9.9	8.1	6.6	-	9.2	8.3	-	7.2	7.2	-	5.9	-	65.6
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	-	72.2
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	-	78.7
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	85.3
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	91.9
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	98.4
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	105.0
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	111.5
118.1	-	-	-	-	5.0	5.0	4.6	-	6.6	5.9	4.8	7.2	6.1	5.0	5.9	5.9	118.1
124.7	-	-	-	-	4.6	4.8	4.4	-	6.1	5.5	4.8	7.2	6.1	5.0	5.9	5.7	124.7
131.2	-	-	-	-	4.4	4.6	4.4	-	5.7	5.2	4.6	6.8	5.9	4.8	5.9	5.7	131.2
144.4	-	-	-	-	3.9	-	-	-	5.0	5.0	4.4	6.1	5.5	4.6	5.9	5.5	144.4
157.5	-	-	-	-	-	-	-	-	4.6	4.6	4.4	5.5	5.2	4.4	5.5	5.2	157.5
170.6	-	-	-	-	-	-	-	-	4.1	4.4	-	5.0	4.8	4.4	4.8	4.6	170.6
183.7	-	-	-	-	-	-	-	-	3.9	4.4	-	4.6	4.6	4.1	4.4	4.1	183.7
196.9	-	-	-	-	-	-	-	-	-	-	-	4.1	4.4	4.1	3.7	3.7	196.9
210.0	-	-	-	-	-	-	-	-	-	-	-	3.7	4.1	-	2.6	3.5	210.0
223.1	-	-	-	-	-	-	-	-	-	-	-	3.0	3.3	-	-	2.4	223.1

 70,100 lbs				 24.6 ft x 26.2 ft				 3.3 ft + 78.7 ft				360°				ASME B30.5																					
 		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft																							
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°																					
ft																		1,000 lbs																		ft	
16.4	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4																			
19.7	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7																			
23.0	11.2	-	-	-	10.8	-	-	-	-	-	-	-	-	-	-	-	-	23.0																			
26.2	11.2	-	-	-	10.8	-	-	-	-	-	-	-	-	-	-	-	-	26.2																			
29.5	11.2	-	-	-	10.8	-	-	-	8.8	-	-	-	-	-	-	-	-	29.5																			
32.8	11.2	-	-	-	10.8	-	-	-	9.2	-	-	-	-	-	-	-	-	32.8																			
36.1	11.2	-	-	-	10.8	-	-	-	9.2	-	-	-	-	-	-	-	-	36.1																			
39.4	11.2	10.3	-	-	10.8	-	-	-	9.2	-	-	-	-	-	-	-	-	39.4																			
45.9	11.0	9.7	-	-	10.8	9.7	-	-	9.2	-	-	-	7.2	-	-	-	-	45.9																			
52.5	10.1	8.8	-	-	10.8	9.0	-	-	9.2	9.0	-	-	7.2	-	-	-	-	52.5																			
59.1	9.0	8.1	-	-	10.3	8.5	-	-	9.2	8.5	-	-	7.2	-	-	5.9	-	59.1																			
65.6	7.9	7.2	6.3	-	9.9	8.1	6.6	-	9.2	8.3	-	-	7.2	7.2	-	5.9	-	65.6																			
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	-	72.2																			
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	-	78.7																			
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	85.3																			
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	91.9																			
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	98.4																			
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	105.0																			
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	111.5																			
118.1	-	-	-	-	5.0	5.0	4.6	-	6.6	5.9	4.8	-	7.2	6.1	5.0	5.9	5.9	118.1																			
124.7	-	-	-	-	4.6	4.8	4.4	-	6.1	5.5	4.8	-	7.2	6.1	5.0	5.9	5.7	124.7																			
131.2	-	-	-	-	4.4	4.6	4.4	-	5.7	5.2	4.6	-	6.8	5.9	4.8	5.9	5.7	131.2																			
144.4	-	-	-	-	3.9	-	-	-	5.0	5.0	4.4	-	6.1	5.5	4.6	5.9	5.5	144.4																			
157.5	-	-	-	-	-	-	-	-	4.6	4.6	4.4	-	5.5	5.2	4.4	4.8	5.2	157.5																			
170.6	-	-	-	-	-	-	-	-	4.1	4.4	-	-	4.8	4.8	4.4	3.5	4.6	170.6																			
183.7	-	-	-	-	-	-	-	-	3.9	4.4	-	-	4.1	4.6	4.1	2.2	3.3	183.7																			
196.9	-	-	-	-	-	-	-	-	-	-	-	-	3.0	3.7	3.9	-	2.2	196.9																			
210.0	-	-	-	-	-	-	-	-	-	-	-	-	2.2	2.6	-	-	-	210.0																			

Operation

 93,500 lbs				 24.6 ft x 26.2 ft				 3.3 ft + 101.7 ft				360°				ASME B30.5					
 		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft							
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°					
ft																		1,000 lbs		ft	
23.0	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0				
26.2	7.7	-	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	26.2				
29.5	7.7	-	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	29.5				
32.8	7.7	-	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	32.8				
36.1	7.7	-	-	-	7.2	-	-	6.3	-	-	-	-	-	-	-	-	36.1				
39.4	7.7	-	-	-	7.2	-	-	6.3	-	-	-	-	-	-	-	-	39.4				
45.9	7.7	-	-	-	7.2	-	-	6.3	-	-	-	-	-	-	-	-	45.9				
52.5	7.7	7.4	-	-	7.2	-	-	6.3	-	-	5.2	-	-	-	-	-	52.5				
59.1	7.4	6.6	-	-	7.2	7.0	-	6.3	-	-	5.2	-	-	-	-	-	59.1				
65.6	6.6	5.9	-	-	7.2	6.6	-	6.3	6.3	-	5.2	-	-	4.4	-	-	65.6				
72.2	5.7	5.5	-	-	7.0	5.9	-	6.3	6.3	-	5.2	-	-	4.4	-	-	72.2				
78.7	5.0	5.0	4.1	-	6.3	5.5	-	6.3	5.9	-	5.2	5.2	-	4.4	-	-	78.7				
85.3	4.6	4.6	3.9	-	5.7	5.0	4.1	6.3	5.7	-	5.2	5.2	-	4.4	-	-	85.3				
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	-	-	91.9				
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	-	98.4				
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	-	105.0				
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	-	111.5				
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	-	118.1				
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	-	124.7				
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	131.2				
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	144.4				
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	157.5				
170.6	-	-	-	-	-	-	-	2.8	2.8	2.6	3.3	3.3	2.6	3.7	3.3	2.6	170.6				
183.7	-	-	-	-	-	-	-	2.4	2.8	2.6	3.0	3.0	2.4	3.3	3.0	2.4	183.7				
196.9	-	-	-	-	-	-	-	2.2	2.6	-	2.8	2.8	2.4	3.0	2.8	2.4	196.9				
210.0	-	-	-	-	-	-	-	1.9	-	-	2.4	2.6	2.4	2.6	2.6	2.2	210.0				
223.1	-	-	-	-	-	-	-	-	-	-	2.2	2.6	-	-	2.2	2.2	223.1				
236.2	-	-	-	-	-	-	-	-	-	-	1.9	2.4	-	-	-	-	236.2				

 70,100 lbs				 24.6 ft x 26.2 ft				 3.3 ft + 101.7 ft				360°				ASME B30.5																				
 		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft																						
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°																				
ft																		1,000 lbs																		ft
23.0	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0																			
26.2	7.7	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	26.2																			
29.5	7.7	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	29.5																			
32.8	7.7	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	32.8																			
36.1	7.7	-	-	7.2	-	-	6.3	-	-	-	-	-	-	-	-	-	36.1																			
39.4	7.7	-	-	7.2	-	-	6.3	-	-	-	-	-	-	-	-	-	39.4																			
45.9	7.7	-	-	7.2	-	-	6.3	-	-	-	-	-	-	-	-	-	45.9																			
52.5	7.7	7.4	-	7.2	-	-	6.3	-	-	5.2	-	-	-	-	-	-	52.5																			
59.1	7.4	6.6	-	7.2	7.0	-	6.3	-	-	5.2	-	-	-	-	-	-	59.1																			
65.6	6.6	5.9	-	7.2	6.6	-	6.3	6.3	-	5.2	-	-	4.4	-	-	-	65.6																			
72.2	5.7	5.5	-	7.0	5.9	-	6.3	6.3	-	5.2	-	-	4.4	-	-	-	72.2																			
78.7	5.0	5.0	4.1	6.3	5.5	-	6.3	5.9	-	5.2	5.2	-	4.4	-	-	-	78.7																			
85.3	4.6	4.6	3.9	5.7	5.0	4.1	6.3	5.7	-	5.2	5.2	-	4.4	-	-	-	85.3																			
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	-	-	-	91.9																			
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	-	-	98.4																			
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	-	-	105.0																			
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	-	-	111.5																			
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	-	-	118.1																			
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	-	-	124.7																			
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	-	131.2																			
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	-	144.4																			
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	-	157.5																			
170.6	-	-	-	-	-	-	2.8	2.8	2.6	3.3	3.3	2.6	3.5	3.3	2.6	-	170.6																			
183.7	-	-	-	-	-	-	2.4	2.8	2.6	3.0	3.0	2.4	2.4	3.0	2.4	-	183.7																			
196.9	-	-	-	-	-	-	2.2	2.6	-	2.6	2.8	2.4	-	2.6	2.4	-	196.9																			
210.0	-	-	-	-	-	-	1.9	-	-	2.2	2.6	2.4	-	-	2.2	-	210.0																			
223.1	-	-	-	-	-	-	-	-	-	-	2.2	-	-	-	-	-	223.1																			



 93,500 lbs				 24.6 ft x 26.2 ft				 5.2 ft + 24.3 ft				360°				ASME B30.5			
 42.0 ft				 70.2 ft				 112.9 ft				 155.5 ft				 196.9 ft			
5° 30° 60°				5° 30° 60°				5° 30° 60°				5° 30° 60°				5° 30° 60°			
1,000 lbs																			
ft																			
9.8	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8			
11.5	16.0	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	11.5			
13.1	16.0	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	13.1			
14.8	16.0	-	-	16.0	-	-	16.0	-	-	-	-	-	-	-	-	14.8			
16.4	16.0	-	-	16.0	-	-	16.0	-	-	-	-	-	-	-	-	16.4			
19.7	16.0	16.0	-	16.0	16.0	-	16.0	-	-	-	-	-	-	-	-	19.7			
23.0	16.0	16.0	-	16.0	16.0	-	16.0	-	-	-	-	-	-	-	-	23.0			
26.2	16.0	15.4	9.7	16.0	16.0	-	16.0	16.0	-	16.0	-	-	-	-	-	26.2			
29.5	16.0	14.5	9.7	16.0	16.0	9.9	16.0	16.0	-	16.0	-	-	-	-	-	29.5			
32.8	16.0	13.8	9.4	16.0	15.8	9.7	16.0	16.0	9.9	16.0	-	-	-	-	-	32.8			
36.1	16.0	13.4	9.4	16.0	15.4	9.7	16.0	16.0	9.9	16.0	16.0	-	-	-	-	36.1			
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	-	-	39.4			
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	-	-	45.9			
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	52.5			
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	59.1			
65.6	-	-	-	13.6	11.9	-	16.0	13.6	9.2	16.0	15.2	9.4	11.9	11.2	9.4	65.6			
72.2	-	-	-	12.5	11.4	-	16.0	13.2	9.2	16.0	14.5	9.2	11.2	10.5	9.4	72.2			
78.7	-	-	-	11.4	11.2	-	16.0	12.5	9.2	16.0	14.1	9.2	10.5	10.1	9.4	78.7			
85.3	-	-	-	10.5	-	-	15.4	12.3	-	15.8	13.6	9.2	10.1	9.7	9.2	85.3			
91.9	-	-	-	10.1	-	-	14.3	11.9	-	15.2	13.2	9.2	9.4	9.2	9.0	91.9			
98.4	-	-	-	-	-	-	13.2	11.6	-	14.3	12.7	9.2	9.0	8.8	8.5	98.4			
105.0	-	-	-	-	-	-	12.5	11.4	-	13.4	12.3	-	8.5	8.3	8.3	105.0			
111.5	-	-	-	-	-	-	11.6	11.2	-	12.5	12.1	-	8.1	7.9	7.9	111.5			
118.1	-	-	-	-	-	-	11.2	11.2	-	11.4	11.9	-	7.7	7.4	7.4	118.1			
124.7	-	-	-	-	-	-	10.5	-	-	10.1	10.8	-	7.2	7.0	-	124.7			
131.2	-	-	-	-	-	-	10.1	-	-	9.0	9.2	-	6.6	6.6	-	131.2			
144.4	-	-	-	-	-	-	-	-	-	7.4	7.7	-	5.9	5.7	-	144.4			
157.5	-	-	-	-	-	-	-	-	-	5.7	5.9	-	4.8	5.0	-	157.5			
170.6	-	-	-	-	-	-	-	-	-	4.1	-	-	3.5	3.7	-	170.6			
183.7	-	-	-	-	-	-	-	-	-	-	-	-	1.9	2.2	-	183.7			

 70,100 lbs				 24.6 ft x 26.2 ft				 5.2 ft + 24.3 ft						360°			ASME B30.5	
		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft				
		5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°		
ft		1,000 lbs															ft	
9.8	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8	
11.5	16.0	-	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	11.5	
13.1	16.0	-	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	13.1	
14.8	16.0	-	-	-	16.0	-	-	16.0	-	-	-	-	-	-	-	-	14.8	
16.4	16.0	-	-	-	16.0	-	-	16.0	-	-	-	-	-	-	-	-	16.4	
19.7	16.0	16.0	-	-	16.0	16.0	-	16.0	-	-	-	-	-	-	-	-	19.7	
23.0	16.0	16.0	-	-	16.0	16.0	-	16.0	-	-	-	-	-	-	-	-	23.0	
26.2	16.0	15.4	9.7	-	16.0	16.0	-	16.0	16.0	-	16.0	-	-	-	-	-	26.2	
29.5	16.0	14.5	9.7	-	16.0	16.0	9.9	16.0	16.0	-	16.0	-	-	-	-	-	29.5	
32.8	16.0	13.8	9.4	-	16.0	15.8	9.7	16.0	16.0	9.9	16.0	-	-	-	-	-	32.8	
36.1	16.0	13.4	9.4	-	16.0	15.4	9.7	16.0	16.0	9.9	16.0	16.0	-	-	-	-	36.1	
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	-	-	39.4	
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	-	-	45.9	
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	52.5	
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	59.1	
65.6	-	-	-	-	13.6	11.9	-	16.0	13.6	9.2	16.0	15.2	9.4	11.9	11.2	9.4	65.6	
72.2	-	-	-	-	12.5	11.4	-	16.0	13.2	9.2	16.0	14.5	9.2	11.2	10.5	9.4	72.2	
78.7	-	-	-	-	11.4	11.2	-	16.0	12.5	9.2	16.0	14.1	9.2	10.5	10.1	9.4	78.7	
85.3	-	-	-	-	10.5	-	-	15.4	12.3	-	15.8	13.6	9.2	10.1	9.7	9.2	85.3	
91.9	-	-	-	-	10.1	-	-	14.3	11.9	-	15.2	13.2	9.2	9.4	9.2	9.0	91.9	
98.4	-	-	-	-	-	-	-	13.2	11.6	-	13.0	12.7	9.2	9.0	8.8	8.5	98.4	
105.0	-	-	-	-	-	-	-	12.5	11.4	-	11.6	11.9	-	8.5	8.3	8.3	105.0	
111.5	-	-	-	-	-	-	-	11.2	11.2	-	10.5	10.5	-	8.1	7.9	7.9	111.5	
118.1	-	-	-	-	-	-	-	9.7	9.9	-	9.0	9.7	-	7.7	7.4	7.4	118.1	
124.7	-	-	-	-	-	-	-	8.1	-	-	8.1	8.3	-	7.0	7.0	-	124.7	
131.2	-	-	-	-	-	-	-	7.0	-	-	7.4	7.4	-	5.9	6.6	-	131.2	
144.4	-	-	-	-	-	-	-	-	-	-	5.5	5.7	-	3.7	4.4	-	144.4	
157.5	-	-	-	-	-	-	-	-	-	-	3.7	3.9	-	2.2	2.6	-	157.5	
170.6	-	-	-	-	-	-	-	-	-	-	2.4	-	-	-	-	-	170.6	

 93,500 lbs				 24.6 ft x 26.2 ft				 5.2 ft + 40.7 ft				360°				ASME B30.5	
 		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft			
		5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	
ft		1,000 lbs															ft
11.5	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	9.4	-	-	-	9.4	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	9.4	-	-	-	9.4	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	9.4	-	-	-	9.4	-	-	9.4	-	-	-	-	-	-	-	-	19.7
23.0	9.4	-	-	-	9.4	-	-	9.4	-	-	-	-	-	-	-	-	23.0
26.2	9.4	-	-	-	9.4	-	-	9.4	-	-	-	-	-	-	-	-	26.2
29.5	9.4	9.4	-	-	9.4	9.4	-	9.4	-	-	-	-	-	-	-	-	29.5
32.8	9.4	9.0	-	-	9.4	9.4	-	9.4	-	-	9.4	-	-	-	-	-	32.8
36.1	9.4	8.5	-	-	9.4	9.4	-	9.4	9.4	-	9.4	-	-	-	-	-	36.1
39.4	9.4	8.1	-	-	9.4	9.0	-	9.4	9.4	-	9.4	-	-	-	-	-	39.4
45.9	9.0	7.2	-	-	9.4	8.3	5.2	9.4	9.2	-	9.4	-	-	8.3	-	-	45.9
52.5	7.9	6.8	-	-	9.4	7.7	5.0	9.4	8.5	5.2	9.4	8.5	-	8.3	-	-	52.5
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	-	-	59.1
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	-	65.6
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	72.2
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	78.7
85.3	-	-	-	-	6.6	5.9	-	9.0	6.8	4.8	9.4	7.0	4.8	8.3	6.8	5.0	85.3
91.9	-	-	-	-	5.9	5.7	-	8.3	6.6	4.8	9.4	7.0	4.8	8.3	6.6	4.8	91.9
98.4	-	-	-	-	5.7	5.7	-	7.9	6.3	-	9.0	6.8	4.8	8.1	6.6	4.8	98.4
105.0	-	-	-	-	5.2	-	-	7.2	6.1	-	8.8	6.6	4.8	7.7	6.3	4.8	105.0
111.5	-	-	-	-	-	-	-	6.8	5.9	-	8.3	6.3	4.8	7.4	6.1	4.8	111.5
118.1	-	-	-	-	-	-	-	6.6	5.7	-	8.1	6.1	-	7.0	5.9	4.8	118.1
124.7	-	-	-	-	-	-	-	6.1	5.7	-	7.7	6.1	-	6.6	5.9	4.8	124.7
131.2	-	-	-	-	-	-	-	5.9	5.7	-	7.4	5.9	-	6.1	5.7	4.8	131.2
144.4	-	-	-	-	-	-	-	5.2	-	-	6.8	5.7	-	5.2	5.2	-	144.4
157.5	-	-	-	-	-	-	-	-	-	-	6.1	5.7	-	4.6	4.6	-	157.5
170.6	-	-	-	-	-	-	-	-	-	-	5.2	5.5	-	4.1	4.1	-	170.6
183.7	-	-	-	-	-	-	-	-	-	-	3.9	-	-	3.0	3.5	-	183.7
196.9	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	2.2	-	196.9

 70,100 lbs			 24.6 ft x 26.2 ft			 5.2 ft + 40.7 ft			360°			ASME B30.5					
 		42.0 ft		70.2 ft			112.9 ft			155.5 ft			196.9 ft				
		5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	
ft		1,000 lbs															ft
11.5	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	9.4	-	-	-	9.4	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	9.4	-	-	-	9.4	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	9.4	-	-	-	9.4	-	-	9.4	-	-	-	-	-	-	-	-	19.7
23.0	9.4	-	-	-	9.4	-	-	9.4	-	-	-	-	-	-	-	-	23.0
26.2	9.4	-	-	-	9.4	-	-	9.4	-	-	-	-	-	-	-	-	26.2
29.5	9.4	9.4	-	-	9.4	9.4	-	9.4	-	-	-	-	-	-	-	-	29.5
32.8	9.4	9.0	-	-	9.4	9.4	-	9.4	-	-	9.4	-	-	-	-	-	32.8
36.1	9.4	8.5	-	-	9.4	9.4	-	9.4	9.4	-	9.4	-	-	-	-	-	36.1
39.4	9.4	8.1	-	-	9.4	9.0	-	9.4	9.4	-	9.4	-	-	-	-	-	39.4
45.9	9.0	7.2	-	-	9.4	8.3	5.2	9.4	9.2	-	9.4	-	-	8.3	-	-	45.9
52.5	7.9	6.8	-	-	9.4	7.7	5.0	9.4	8.5	5.2	9.4	8.5	-	8.3	-	-	52.5
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	-	-	59.1
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	-	65.6
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	72.2
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	78.7
85.3	-	-	-	-	6.6	5.9	-	9.0	6.8	4.8	9.4	7.0	4.8	8.3	6.8	5.0	85.3
91.9	-	-	-	-	5.9	5.7	-	8.3	6.6	4.8	9.4	7.0	4.8	8.3	6.6	4.8	91.9
98.4	-	-	-	-	5.7	5.7	-	7.9	6.3	-	9.0	6.8	4.8	8.1	6.6	4.8	98.4
105.0	-	-	-	-	5.2	-	-	7.2	6.1	-	8.8	6.6	4.8	7.7	6.3	4.8	105.0
111.5	-	-	-	-	-	-	-	6.8	5.9	-	8.3	6.3	4.8	7.4	6.1	4.8	111.5
118.1	-	-	-	-	-	-	-	6.6	5.7	-	8.1	6.1	-	7.0	5.9	4.8	118.1
124.7	-	-	-	-	-	-	-	6.1	5.7	-	7.7	6.1	-	6.6	5.9	4.8	124.7
131.2	-	-	-	-	-	-	-	5.9	5.7	-	7.4	5.9	-	6.1	5.7	4.8	131.2
144.4	-	-	-	-	-	-	-	5.2	-	-	6.3	5.7	-	4.8	5.2	-	144.4
157.5	-	-	-	-	-	-	-	-	-	-	4.8	5.5	-	3.3	3.9	-	157.5
170.6	-	-	-	-	-	-	-	-	-	-	3.5	3.7	-	-	2.4	-	170.6
183.7	-	-	-	-	-	-	-	-	-	-	2.2	-	-	-	-	-	183.7

Operation

HTLJ

 93,500 lbs			 24.6 ft x 26.2 ft			 5.2 ft + 57.1 ft			360°			ASME B30.5		
 42.0 ft			 70.2 ft			 112.9 ft			 155.5 ft			 196.9 ft		
5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
ft	1,000 lbs													ft
14.8	7.2	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	7.2	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	7.2	-	-	7.2	-	-	-	-	-	-	-	-	-	19.7
23.0	7.2	-	-	7.2	-	-	7.2	-	-	-	-	-	-	23.0
26.2	7.2	-	-	7.2	-	-	7.2	-	-	-	-	-	-	26.2
29.5	7.2	-	-	7.2	-	-	7.2	-	-	-	-	-	-	29.5
32.8	7.2	-	-	7.2	-	-	7.2	-	-	-	-	-	-	32.8
36.1	7.2	-	-	7.2	-	-	7.2	-	-	-	-	-	-	36.1
39.4	7.2	5.7	-	7.2	-	-	7.2	-	7.0	-	-	-	-	39.4
45.9	6.8	5.0	-	7.2	5.5	-	7.2	-	7.0	-	-	-	-	45.9
52.5	6.1	4.6	-	7.0	5.0	-	7.2	5.2	7.0	-	-	5.7	-	52.5
59.1	5.5	4.1	-	6.6	4.8	3.3	7.2	5.0	7.0	4.8	-	5.7	-	59.1
65.6	5.0	3.9	-	6.1	4.4	3.3	6.8	4.8	7.0	4.8	-	5.7	-	65.6
72.2	4.4	3.7	-	5.7	4.1	3.3	6.3	4.6	6.6	4.6	-	5.7	-	72.2
78.7	3.9	3.5	-	5.2	3.9	3.0	6.1	4.4	6.3	4.4	3.3	5.7	4.4	78.7
85.3	3.7	3.3	-	4.8	3.7	3.0	5.7	4.1	5.9	4.4	3.0	5.5	4.1	85.3
91.9	3.3	3.3	-	4.4	3.5	-	5.5	4.1	5.7	4.1	3.0	5.5	4.1	91.9
98.4	-	-	-	4.1	3.5	-	5.2	3.9	5.5	3.9	3.0	5.2	3.9	98.4
105.0	-	-	-	3.9	3.3	-	5.0	3.7	5.2	3.9	3.0	5.2	3.7	105.0
111.5	-	-	-	3.5	3.3	-	4.8	3.7	5.0	3.7	3.0	5.0	3.7	111.5
118.1	-	-	-	3.3	3.3	-	4.6	3.5	4.8	3.7	3.0	4.8	3.7	118.1
124.7	-	-	-	3.3	-	-	4.4	3.5	4.6	3.7	3.0	4.6	3.5	124.7
131.2	-	-	-	-	-	-	4.1	3.3	4.6	3.5	3.0	4.6	3.5	131.2
144.4	-	-	-	-	-	-	3.7	3.3	4.1	3.5	-	4.1	3.3	144.4
157.5	-	-	-	-	-	-	3.3	-	3.9	3.3	-	3.9	3.3	157.5
170.6	-	-	-	-	-	-	-	-	3.7	3.3	-	3.7	3.0	170.6
183.7	-	-	-	-	-	-	-	-	3.5	3.0	-	3.5	3.0	183.7
196.9	-	-	-	-	-	-	-	-	3.3	-	-	2.8	2.8	196.9
210.0	-	-	-	-	-	-	-	-	-	-	-	-	2.2	210.0

 70,100 lbs			 24.6 ft x 26.2 ft			 5.2 ft + 57.1 ft			360°			ASME B30.5		
 42.0 ft			 70.2 ft			 112.9 ft			 155.5 ft			 196.9 ft		
5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
ft	1,000 lbs													ft
14.8	7.2	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	7.2	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	7.2	-	-	7.2	-	-	-	-	-	-	-	-	-	19.7
23.0	7.2	-	-	7.2	-	-	7.2	-	-	-	-	-	-	23.0
26.2	7.2	-	-	7.2	-	-	7.2	-	-	-	-	-	-	26.2
29.5	7.2	-	-	7.2	-	-	7.2	-	-	-	-	-	-	29.5
32.8	7.2	-	-	7.2	-	-	7.2	-	-	-	-	-	-	32.8
36.1	7.2	-	-	7.2	-	-	7.2	-	-	-	-	-	-	36.1
39.4	7.2	5.7	-	7.2	-	-	7.2	-	7.0	-	-	-	-	39.4
45.9	6.8	5.0	-	7.2	5.5	-	7.2	-	7.0	-	-	-	-	45.9
52.5	6.1	4.6	-	7.0	5.0	-	7.2	5.2	7.0	-	-	5.7	-	52.5
59.1	5.5	4.1	-	6.6	4.8	3.3	7.2	5.0	7.0	4.8	-	5.7	-	59.1
65.6	5.0	3.9	-	6.1	4.4	3.3	6.8	4.8	7.0	4.8	-	5.7	-	65.6
72.2	4.4	3.7	-	5.7	4.1	3.3	6.3	4.6	6.6	4.6	-	5.7	-	72.2
78.7	3.9	3.5	-	5.2	3.9	3.0	6.1	4.4	6.3	4.4	3.3	5.7	4.4	78.7
85.3	3.7	3.3	-	4.8	3.7	3.0	5.7	4.1	5.9	4.4	3.0	5.5	4.1	85.3
91.9	3.3	3.3	-	4.4	3.5	-	5.5	4.1	5.7	4.1	3.0	5.5	4.1	91.9
98.4	-	-	-	4.1	3.5	-	5.2	3.9	5.5	3.9	3.0	5.2	3.9	98.4
105.0	-	-	-	3.9	3.3	-	5.0	3.7	5.2	3.9	3.0	5.2	3.7	105.0
111.5	-	-	-	3.5	3.3	-	4.8	3.7	5.0	3.7	3.0	5.0	3.7	111.5
118.1	-	-	-	3.3	3.3	-	4.6	3.5	4.8	3.7	3.0	4.8	3.7	118.1
124.7	-	-	-	3.3	-	-	4.4	3.5	4.6	3.7	3.0	4.6	3.5	124.7
131.2	-	-	-	-	-	-	4.1	3.3	4.6	3.5	3.0	4.6	3.5	131.2
144.4	-	-	-	-	-	-	3.7	3.3	4.1	3.5	-	4.1	3.3	144.4
157.5	-	-	-	-	-	-	3.3	-	3.9	3.3	-	3.9	3.3	157.5
170.6	-	-	-	-	-	-	-	-	3.7	3.3	-	2.6	3.0	170.6
183.7	-	-	-	-	-	-	-	-	3.3	3.0	-	-	2.4	183.7
196.9	-	-	-	-	-	-	-	-	2.2	-	-	-	-	196.9

Notes to Lifting Capacity

Ratings are in compliance with ASME B30.5.

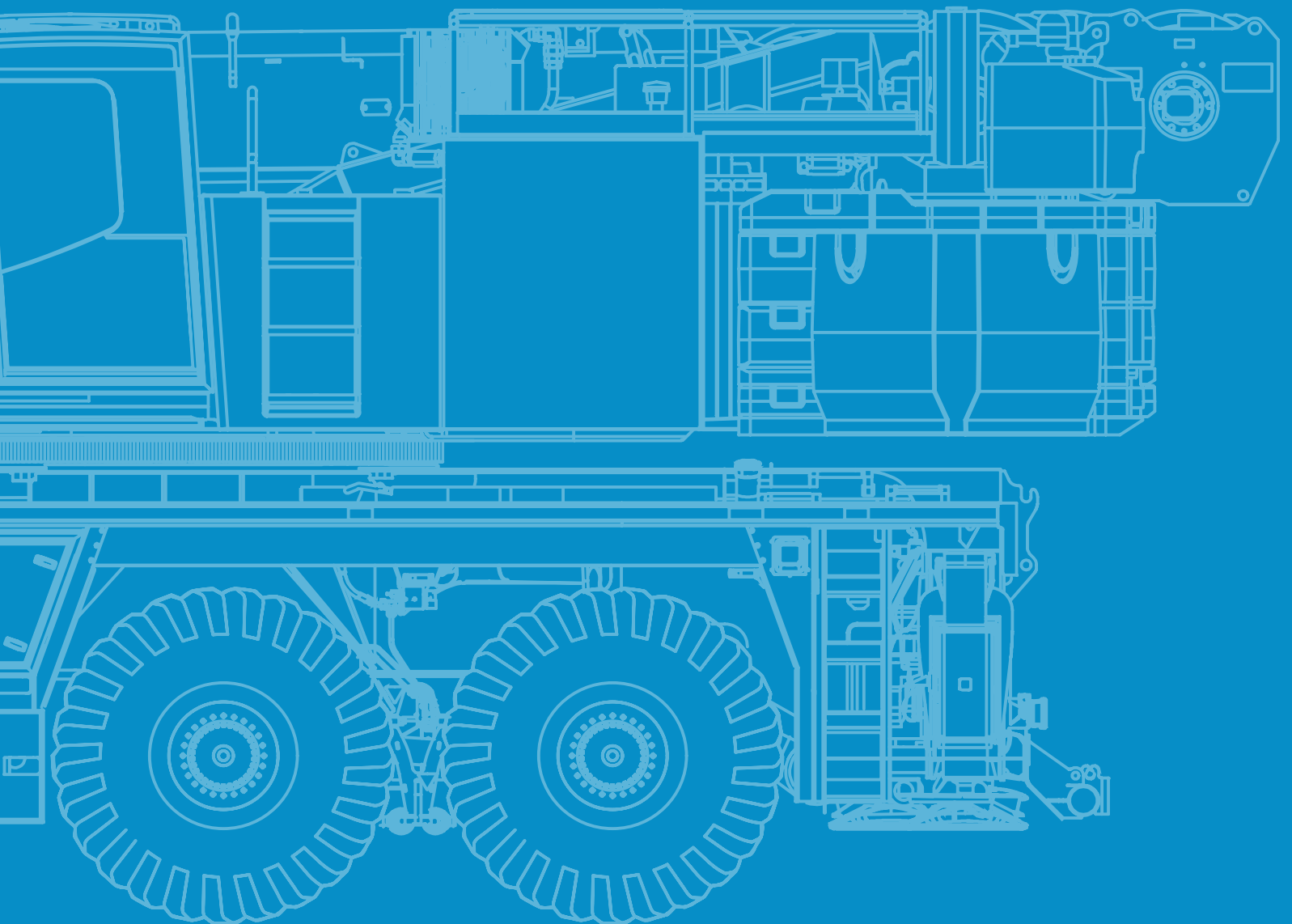
Lifting capacities do not exceed 85 % of tipping load.

Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings.

Consult operation manual for further details.

Note: Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.

TECHNICAL DESCRIPTION



Technical Description

Basic machine

Equipment carrier

Engine 390-5	Mercedes-Benz OM471LA; Diesel engine; Output 390 kW / 1600 ¹ /min (530 HP), torque 2600 Nm / 1300 ¹ /min; The engine complies with EU Stage V/Tier 4F; Exhaust system complete stainless steel with SCR catalyzer.
Fuel tank	159 gallons Diesel (no RME / biodiesel); 11 gallons Ad-Blue tank.
Transmission ZF TraXon	Automated gearbox with 12 forward speeds and 2 reverse; 2-stage transfer case with switchable longitudinal lock.
Axles 10 x 6 x 10	All 5 axles steered, axles 2, 4, 5 driven and equipped with selectable transverse lock.
Suspension	Hydropneumatic suspension with axle load compensation; Hydraulically lockable; Manual or automatic levelling alternatively.
Steering	Dual circuit hydro servocom steering with emergency steering pump; Active rear axle steering.
Brakes	Pneumatic dual circuit service brake with antilock system, acting on all wheels; Disc brakes; Additional, double-speed decompression brake; Spring-loaded parking brake.
Tires	Tires size 385/95 R25 (14.00R25); Steel rim 9,5-25/1,7"
Cab 2490	Type 8.2 ft; Adjustable driver seat, armrests and pneumatic suspension; Height and tilt-adjustable steering wheel; Auxiliary/passenger seat; Powered door windows; Tinted glass; Radio; Seat heating; Heating engine-dependent; Aircondition.
Rear view camera	Display in carrier cab; Cameras installed on rear of vehicle.
Drive lights	Including low beam, upper beam, daytime running lights, fog lights and cornering lights.
Central lubrication	Automatic central lubrication system for the lubricating points at the carrier.
Outriggers	H-4-Point design; Vertical and horizontal movement fully hydraulic; Manual or automatic levelling alternatively; 5 outrigger bases: 8.2 ft, 13.5 ft, 16.4 ft, 20.3 ft and 24.6 ft. 4 square outrigger pads with transport position at vertical cylinder.
Outrigger basis monitoring	Individual monitoring of horizontal stroke; Deviation warning in crane cab.
Outrigger load indicator	The outrigger load is indicated in the operator cab and the outrigger control box.
Electronic immobiliser system	Prevents uncontrolled carrier mobilisation; Incl. 4 ignition keys.
Pneumatic tire filling plug	For self-filling of the wheels.

Equipment superstructure

Engine 129-5	Mercedes-Benz OM934LA; Diesel engine; Output 129 kW / 1800 ¹ /min (175 HP), torque 750 Nm / 1200-1600 ¹ /min; The engine complies with EU Stage V/Tier 4F; Exhaust system complete stainless steel with SCR catalyzer.
Telescopic boom MB60	42.0 ft - 196.9 ft; Single cylinder telescoping system, automatic telescoping; Attachments for all equipment and extensions; 6 sheaves integrated in boom head for max. capacity of 255,100 lbs.
Boom luffing	1 luffing cylinder with automatic lowering brake valve.
Rotary drive	Single slewing gear unit with spring-loaded multi-disc brake.
H1	Hoist with spring-loaded multi-disc brake; Resolver (hoist rotation indicator).
Counterweight 93,500 lbs	11 pieces.
Control system	Enabling 4 simultaneous working movements; Electric pilot controls via 2 two-axis joysticks; Different control modes selectable for hydraulic circuits.
Operator aids	AML-F, with integrated electronic load moment indicator in accordance with EN13000; Color display; Displaying of current operating conditions, load charts, fault indicator; Signal lights indicating LMI-load; Crane data logger.
SmartChart	Smart crane control system for main boom and rooster sheave operation enabling higher lifting capacities especially over outriggers. Enables safe use of the full capacity of the crane even in asymmetric outrigger configurations. Visualization of full working area in operator cabin. In-cab lift simulation.
Working range limiter	Displaying and programmability of the work range limits by AML-F.
Lift adjuster	Safety device which prevents the load from swinging out when the load is picked up and the released hook block from swinging when the load is set down; Activated by switch in operator cabin.
Cab 872	Type 2.86 ft; 12° tiltable seat incl. control panel; Fold-out front window; Extendable side pedestal, front pedestal; Handrails; Tinted safety glass; Pull-down sun visor; Radio; Seat heating; Heating engine-dependent and engine-independent; Aircondition.
Central lubrication	Central lubrication system for the lubricating points at the superstructure.

Technical Description

Additional equipment

Carrier

Axles 10 x 8 x 10	All 5 axles steered, axles 2-5 driven and equipped with selectable transverse lock.
Tires	10 tires; Tire size 445/95R25 (16.00R25) or 525/80 (20.5R25).

Superstructure

2. hoist (H2)	Spring-loaded multi-disc brake; Integrated resolver (hoist rotation indicator); Quick couplings; Incl. hoist monitoring.
Load supervision camera	Camera mounted on main boom head to supervise the hook block and load from above; Incl. boom head light on boom head.
Heavy-lift attachment	2 additional sheaves; Dis-/connectable; For total 7 sheaves at boom head; Max. capacity 272,500 lbs.

Handling

Remote control	Control of superstructure movements via wireless remote control.
-----------------------	--

Extensions

FJ 3.3 ft + 9.2 ft	Folding swing-away jib, manual offset 20°/40°; 3-sheaves head; Incl. transport storage.
FJ 3.3 ft + 55.7 ft	Folding swing-away jib, manual offset 20°/40°; 1-sheave head; Incl. transport storage.
FJ 23.0 ft inserts	Up to 2 x 23.0 ft intermediate section for usage with FJ.
FJ hydraulic	Hydraulic, stepless offset 0°-40°, instead of the manual offset; Available for FJ 3.3 ft + 9.2 ft – FJ 3.3 ft + 101.7 ft.
HTLJ 5.2 ft + 57.1 ft	Hydraulically telescopable and offsetable main boom extension; Length 5.2 ft + 24.3 ft – 5.2 ft + 57.1 ft; Hydraulic offset 5°-60°.

Hook Blocks

Hook block 352,800 lbs 7-sheaves	Max. capacity 272,500 lbs; 2,870 lbs; Double hook, red with white signal stripes.
Hook block 220,500 lbs, 5-sheaves	Max. capacity 202,200 lbs; 1,760 lbs; Double hook, red with white signal stripes.
Hook block 138,900 lbs, 3-sheaves	Max. capacity 130,100 lbs; 1,320 lbs; Double hook, red with white signal stripes.
Hook block 70,600 lbs, 1-sheave	Max. capacity 56,400 lbs; 990 lbs; Single hook, red with white signal stripes.
Hook 22,050 lbs	Max. capacity 19,200 lbs; 660 lbs; Single hook, red.

Further additional equipment on request!

Weight data may deviate from posted values based on road / travel configuration, equipment configuration, and component weight tolerances.

tac.sales@tadano.com
www.tadano.com

Tadano Ltd.

Kanda Square 18th Floor, 2-2-1 Kanda-Nishikicho, Chiyoda-ku, Tokyo 101-0054, Japan
Phone: +81-3-6811-7309 (International Division)

Tadano America Corporation

4242 West Greens Road, Houston, TX 77066
Phone: +1 (281) 869-00300 · Fax: +1 (281) 869-0040



Reaching new heights

