

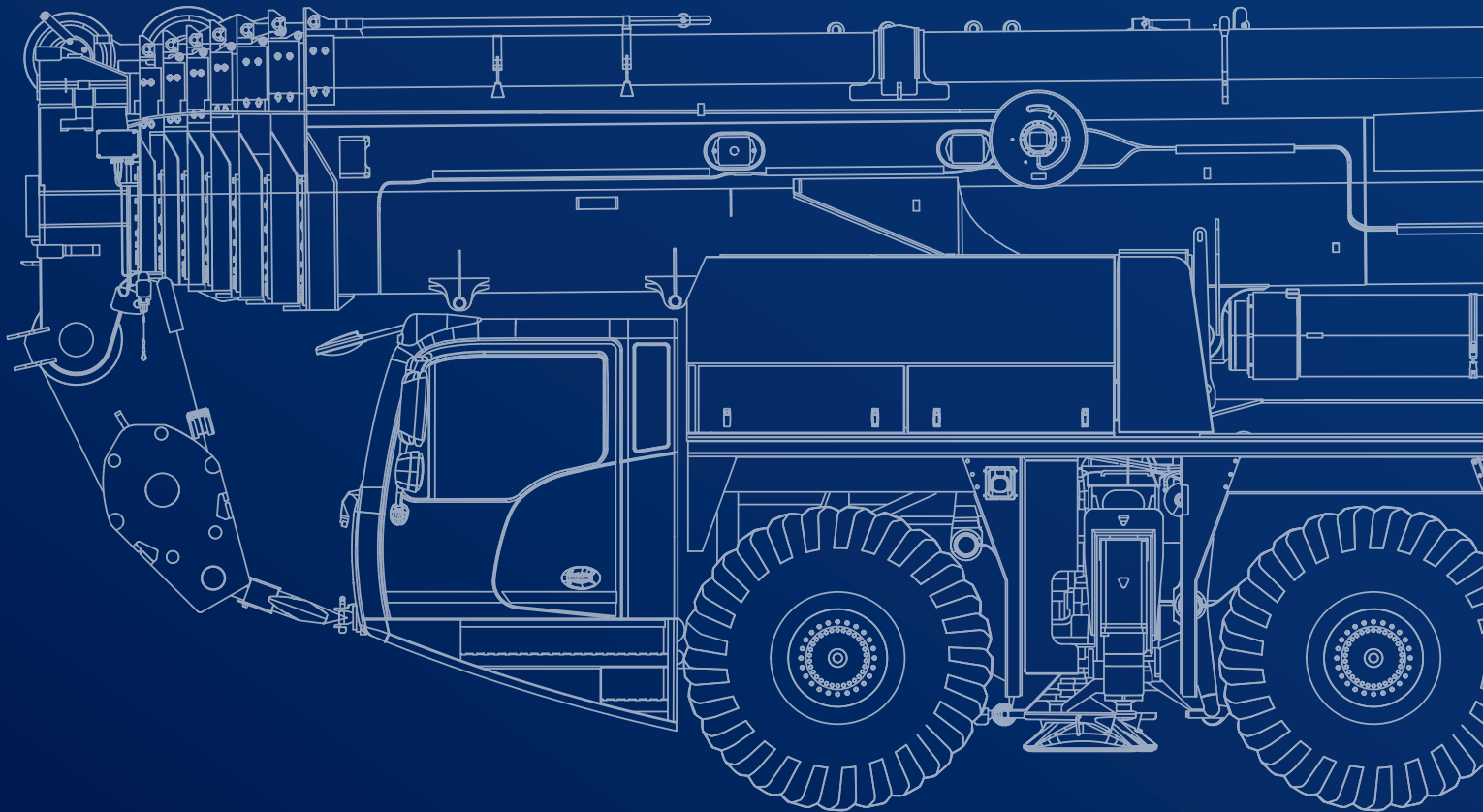


TECHNICAL DATA | IMPERIAL

AC 5.250L-2

300 US TON MAX. CRANE CAPACITY

- Suitable for alternative fuels

**PRELIMINARY**



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.

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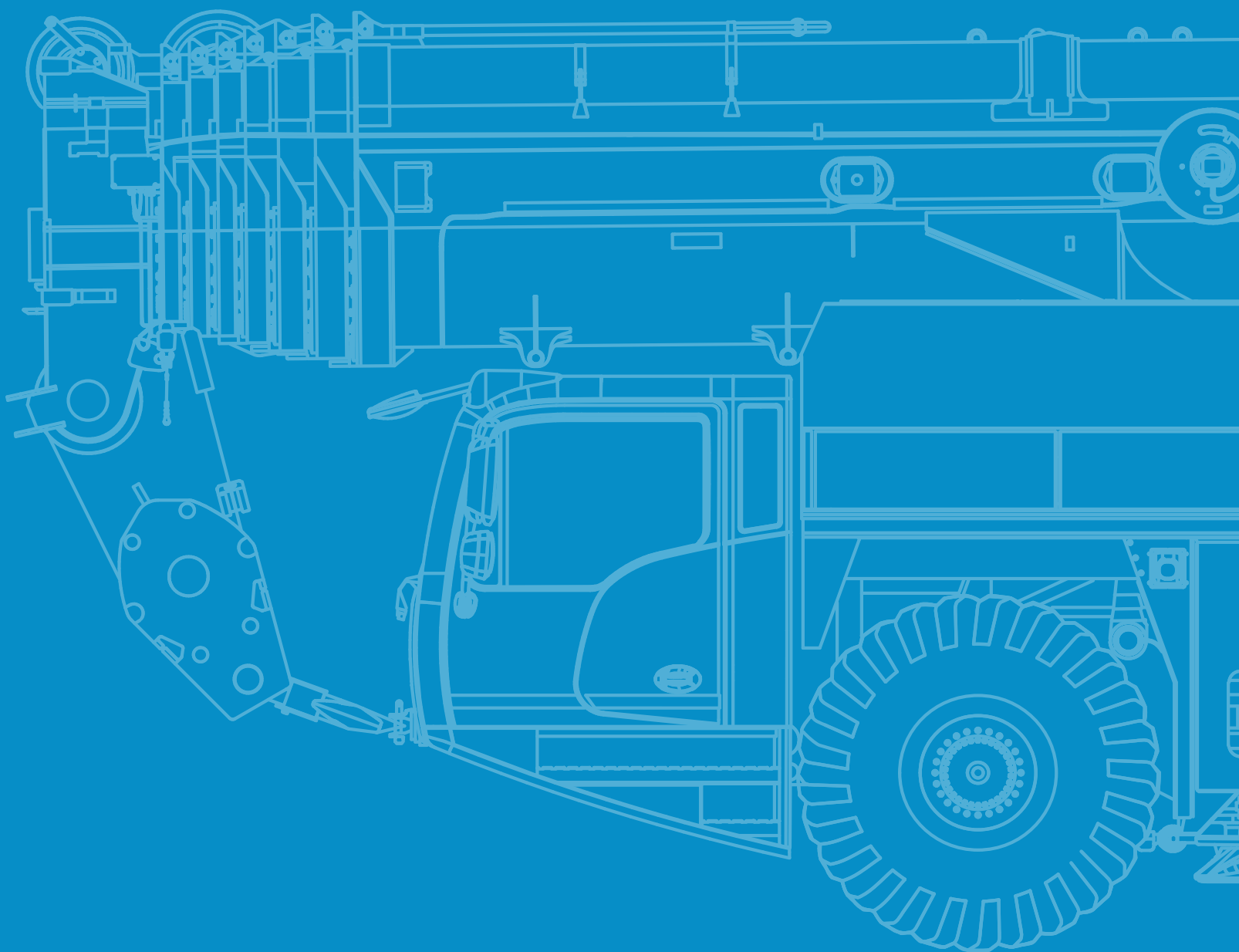
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Key

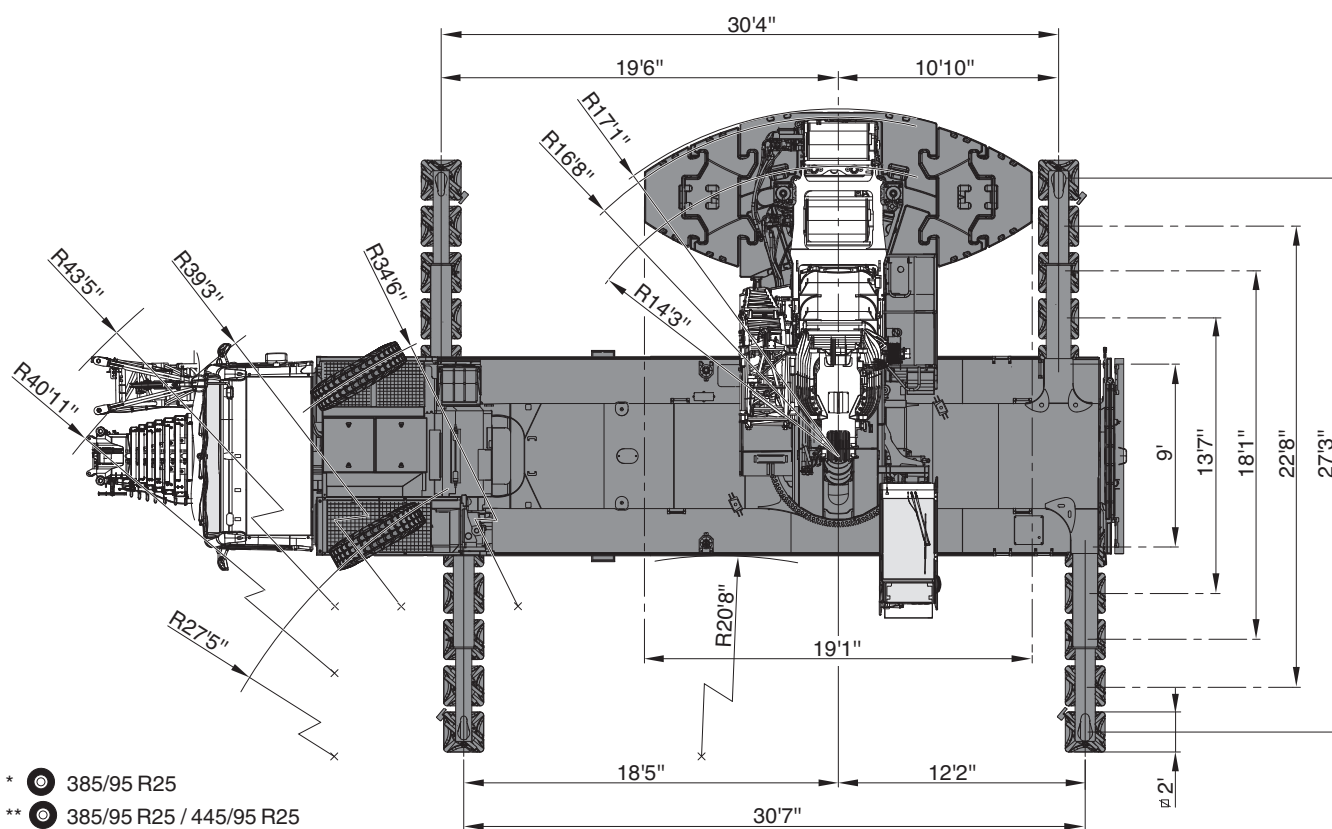
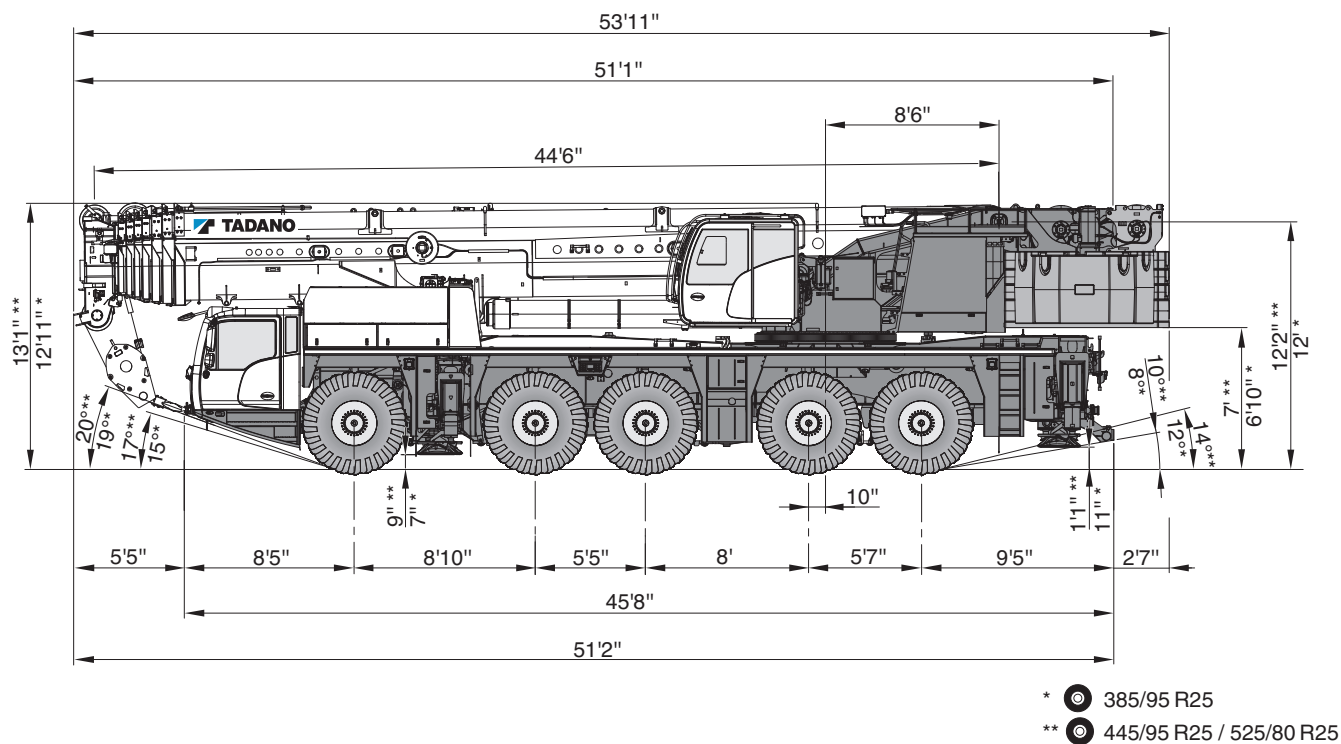
	Counterweight		Dolly
	Lifting capacities on outriggers · 360°		Working speeds
	Radius		Slewing
	Main boom		Max. line pull
	Folding swing-away jib		Rope diameter
	Runner		Rope length
	Max. axle loads		Hook block
	Mechanism		Number of lines
	Tires		Possible load of hook block
	Hook block		Weight of hook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

GENERAL TECHNICAL DATA



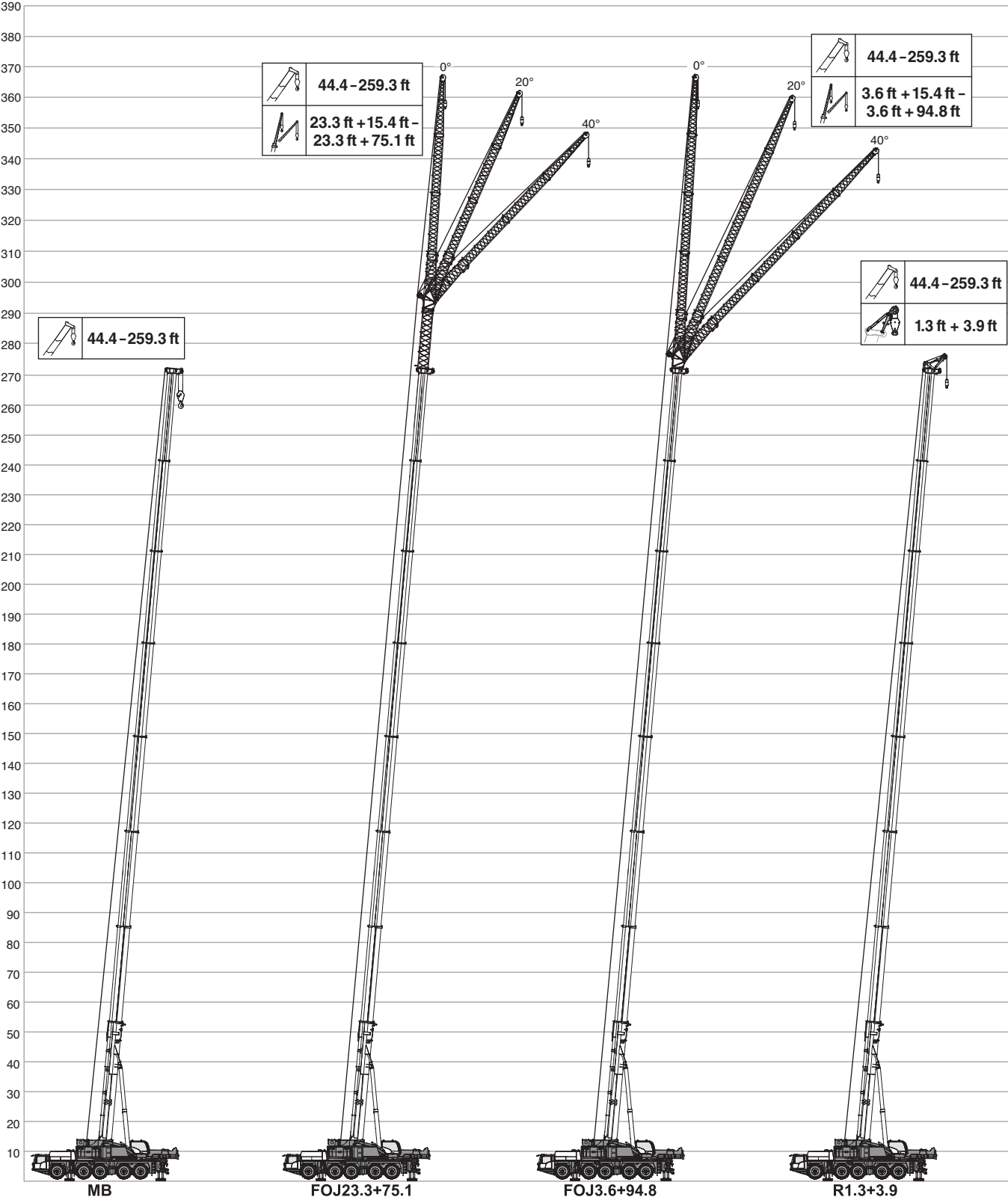
General

Vehicle dimensions

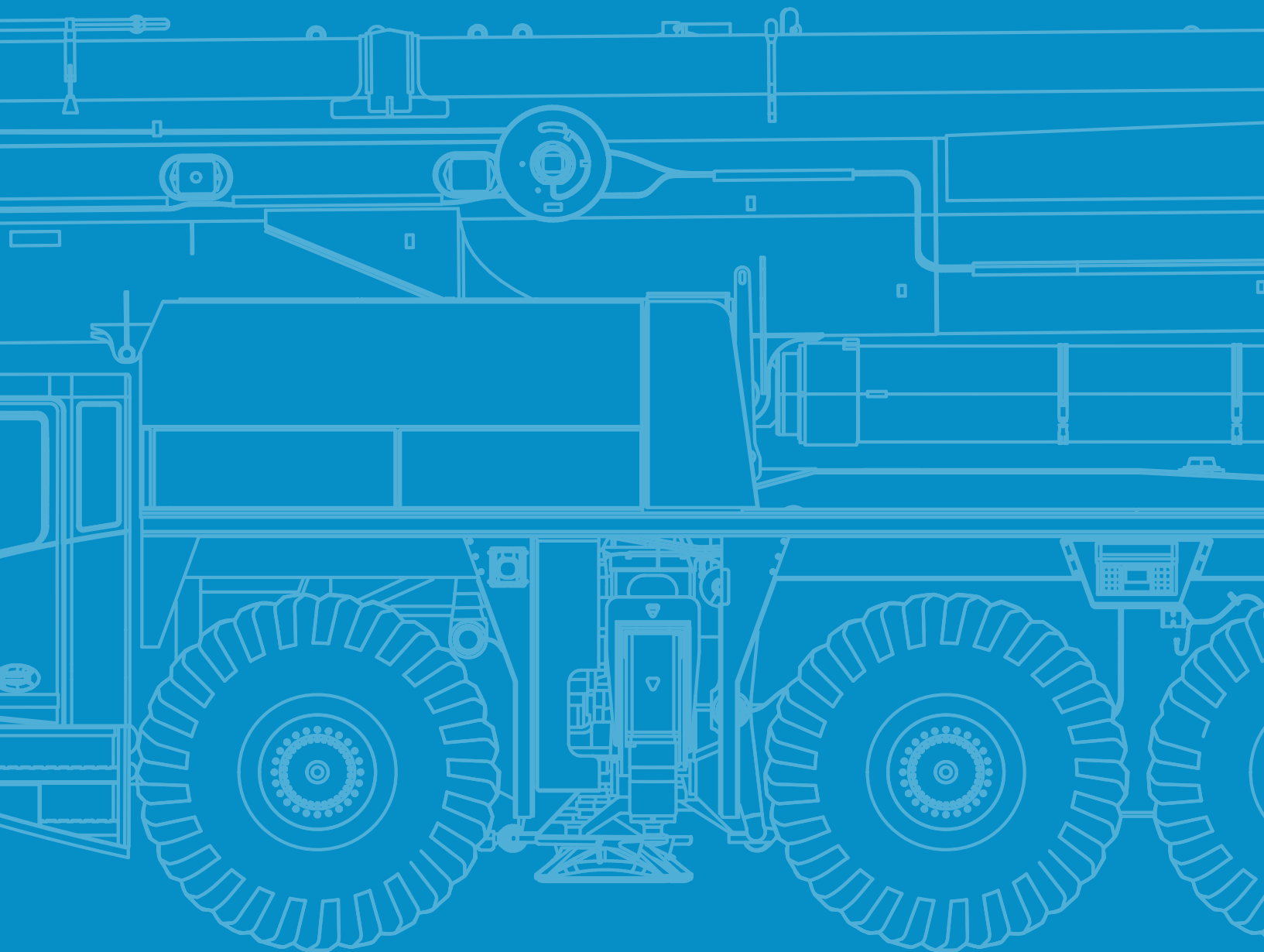


General

Boom Combinations



TECHNICAL DATA FOR ON-ROAD AND OFF-ROAD DRIVING



On-road and off-road driving

Axle loads

	Total								
< 20,000 lbs	on request								X
26,500 lbs	< 132,300 lbs	10 x 6 x 10	445/95R25	10-0-21	—	—	0 lbs	661 lbs	—
26,500 lbs	< 132,300 lbs	10 x 6 x 10	445/95R25	32-1-21 Vario	X	—	0 lbs	551 lbs	—
26,500 lbs	< 132,300 lbs	10 x 8 x 10	445/95R25	—	—	—	0 lbs	441 lbs	—
28,700 lbs	< 136,700 lbs	10 x 8 x 10	445/95R25	32-1-21	X	3.6 ft + 15.4 ft	0 lbs	1,430 lbs	—
36,400 lbs	181,900 lbs	10 x 8 x 10	445/95R25	32-1-21	X	3.6 ft + 35.8 ft	44,100 lbs	1,100 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
 % 	59 %	53 %	53 %
 % 	66 %	58 %	58 %
	49.7 mph ¹⁾	52.8 mph ¹⁾	52.8 mph ¹⁾

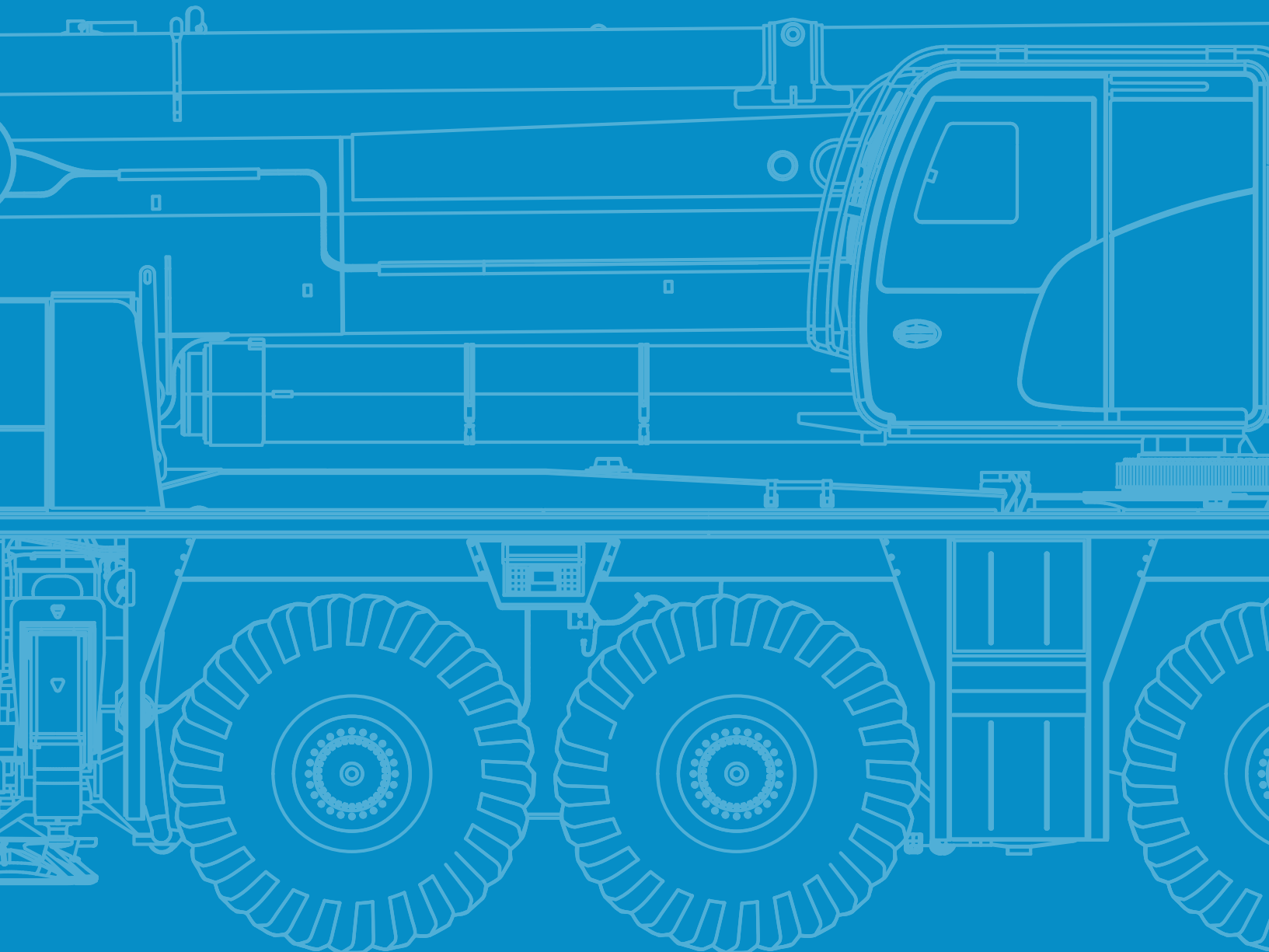
¹⁾ Depending on tire type, size and country specific legislation

Steering

	v < 18.6 mph
	18.6 mph ≤ v ≤ 24.9 mph
	v > 24.9 mph
	Manually steered
	Minimum turning radius
	Crab steer mode
	Off-wall

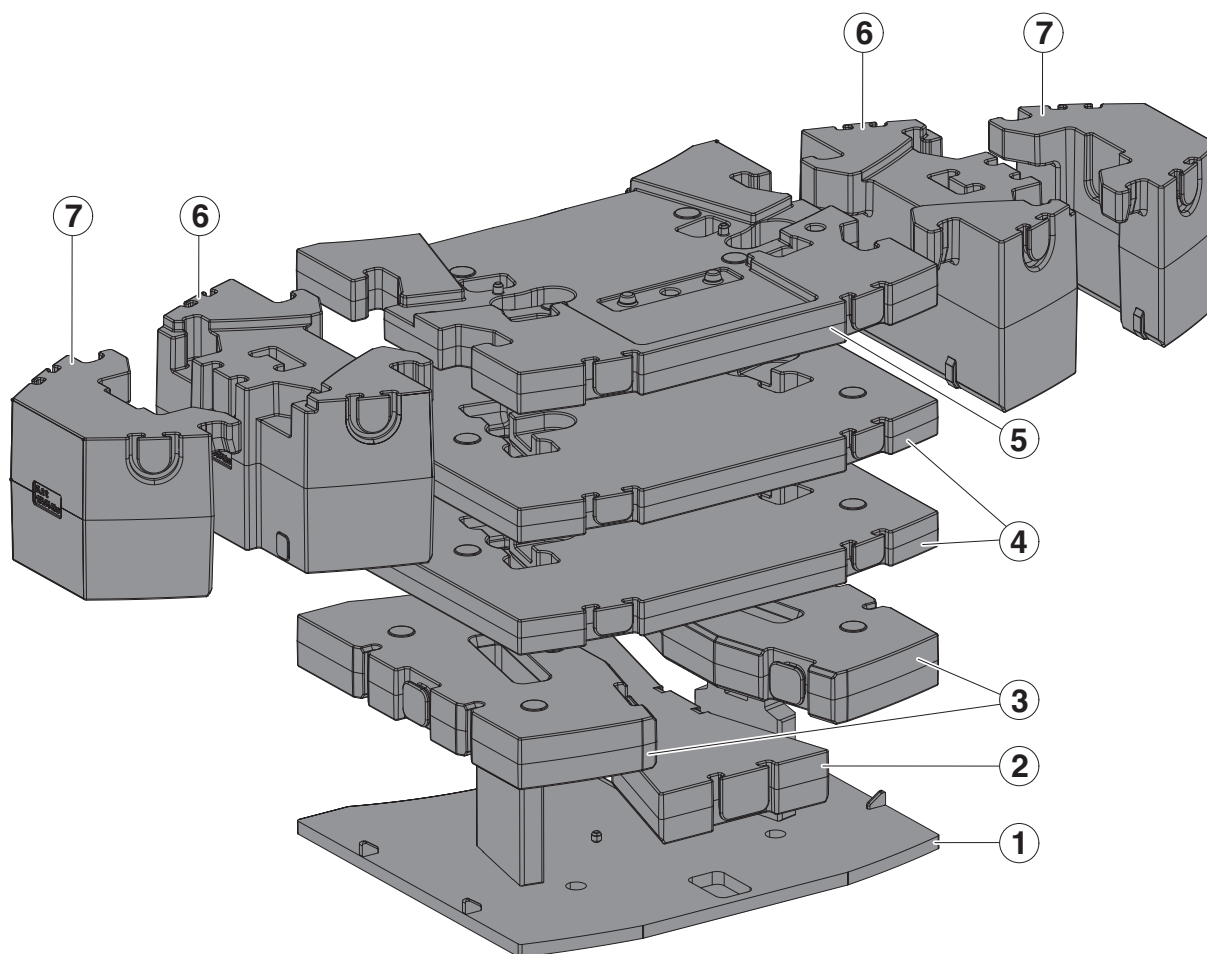


TECHNICAL DATA FOR TRANSPORT



Transportation

Counterweight

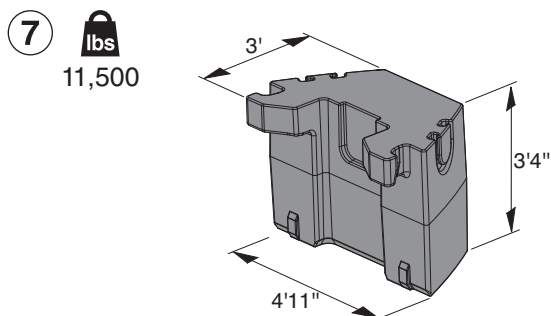
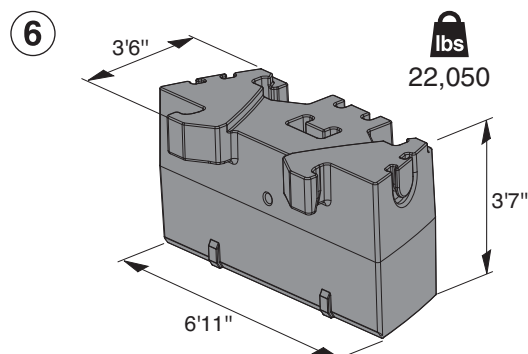
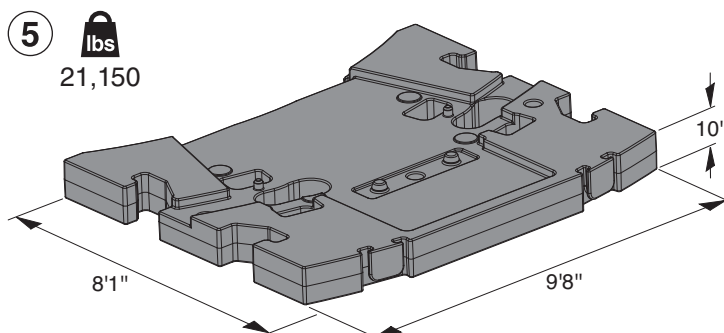
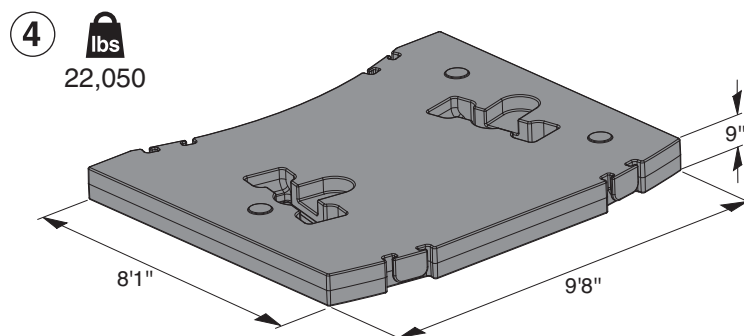
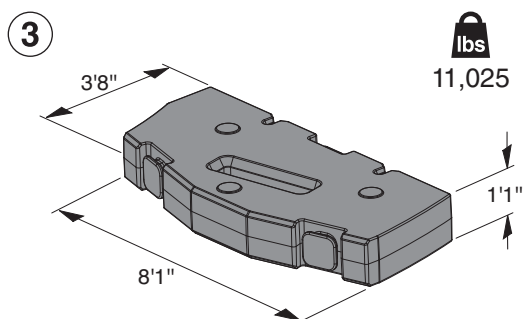
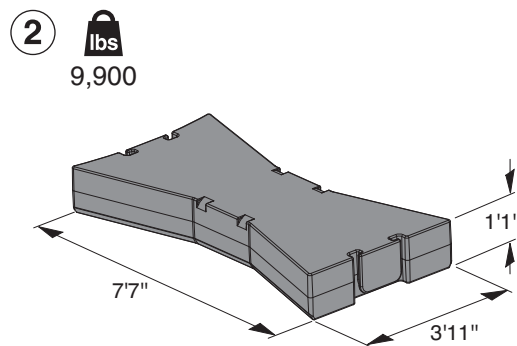
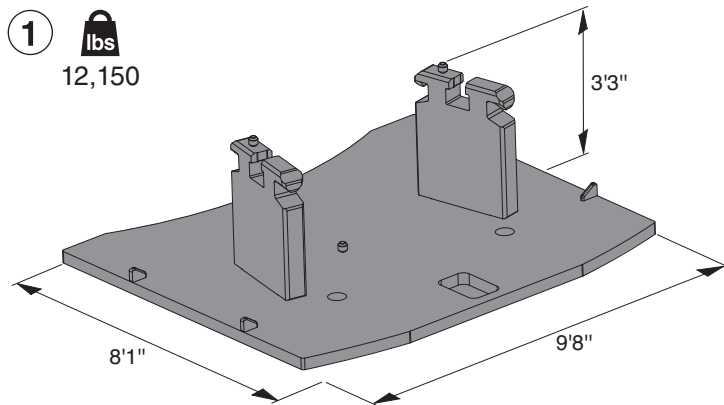


Configurations

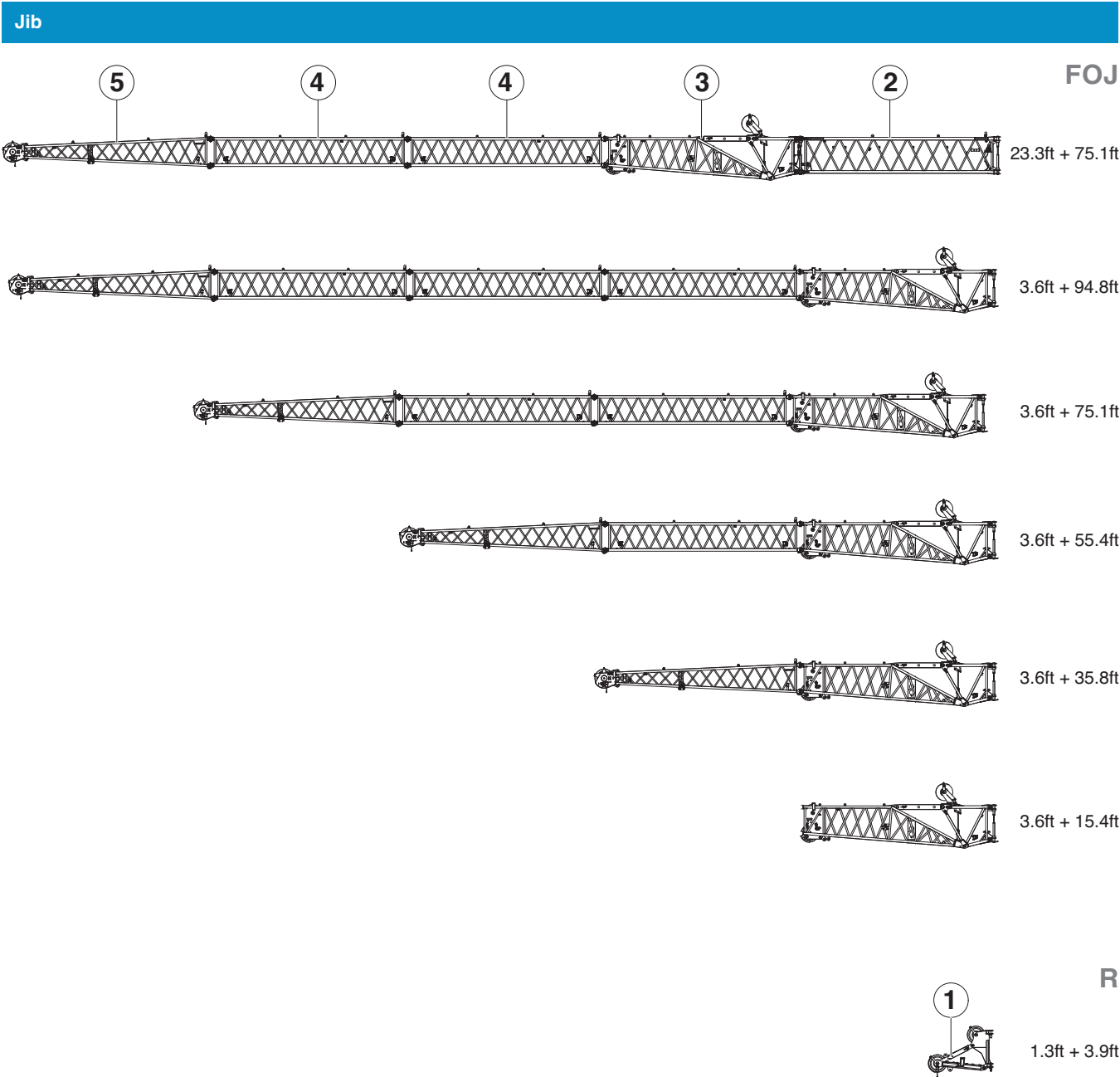
lbs	12,150	34,200	44,100	56,250	66,150	78,300	88,200	99,450	109,400	122,450	132,350	143,550	153,450	166,550	176,400
① 12,150 lbs	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
② 9,900 lbs			1		1		1		1		1		1		1
③ 11,025 lbs		2	2	2	2	2	2	2	2	2	2	2	2	2	2
④ 22,050 lbs				1	1	2	2	2	2	2	2	2	2	2	2
⑤ 21,150 lbs								1	1	1	1	1	1	1	1
⑥ 22,050 lbs												2	2	2	2
⑦ 11,500 lbs										2	2			2	2

Transportation

Counterweight



Transportation

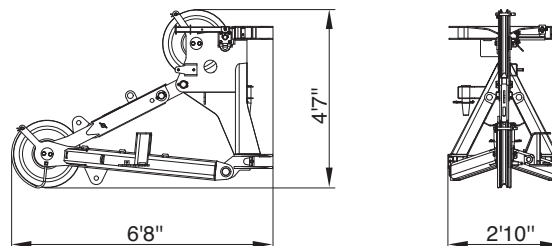


Transportation

Jib

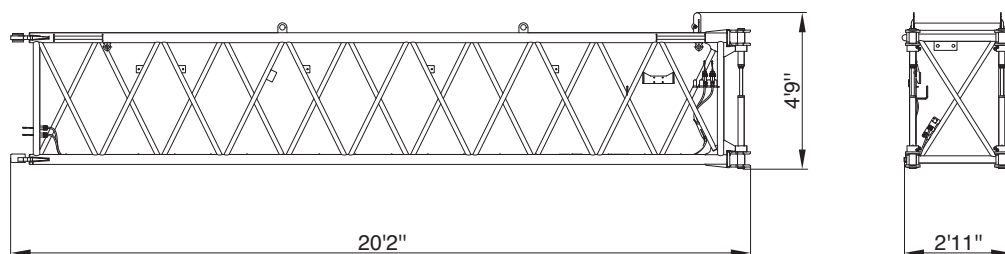
1

lbs
770



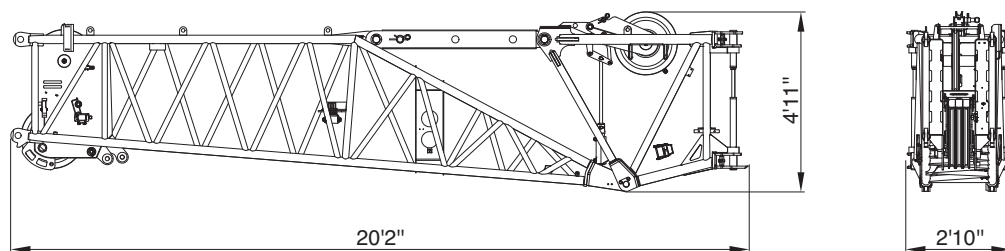
2

lbs
1,320



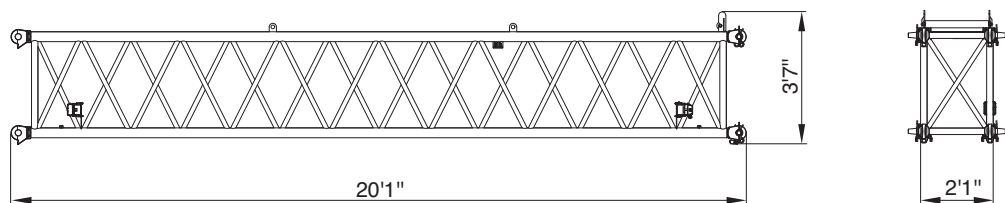
3

lbs
2,320



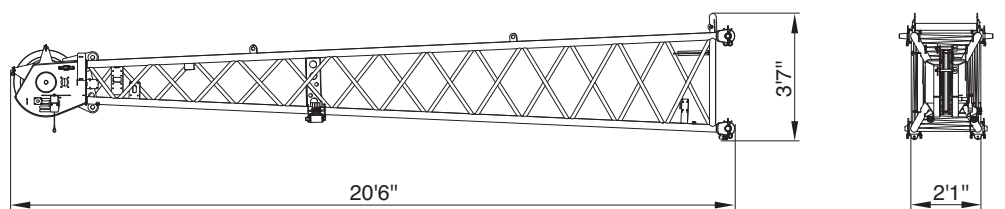
4

lbs
1,000



5

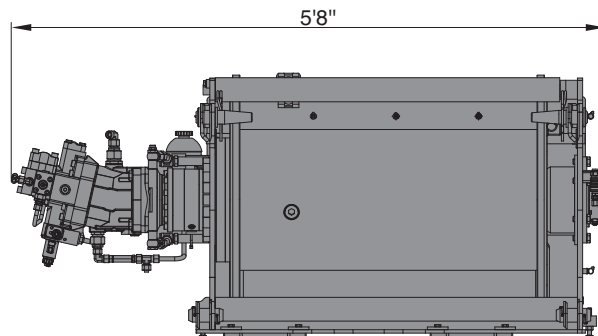
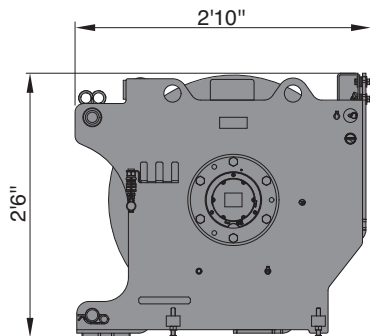
lbs
880



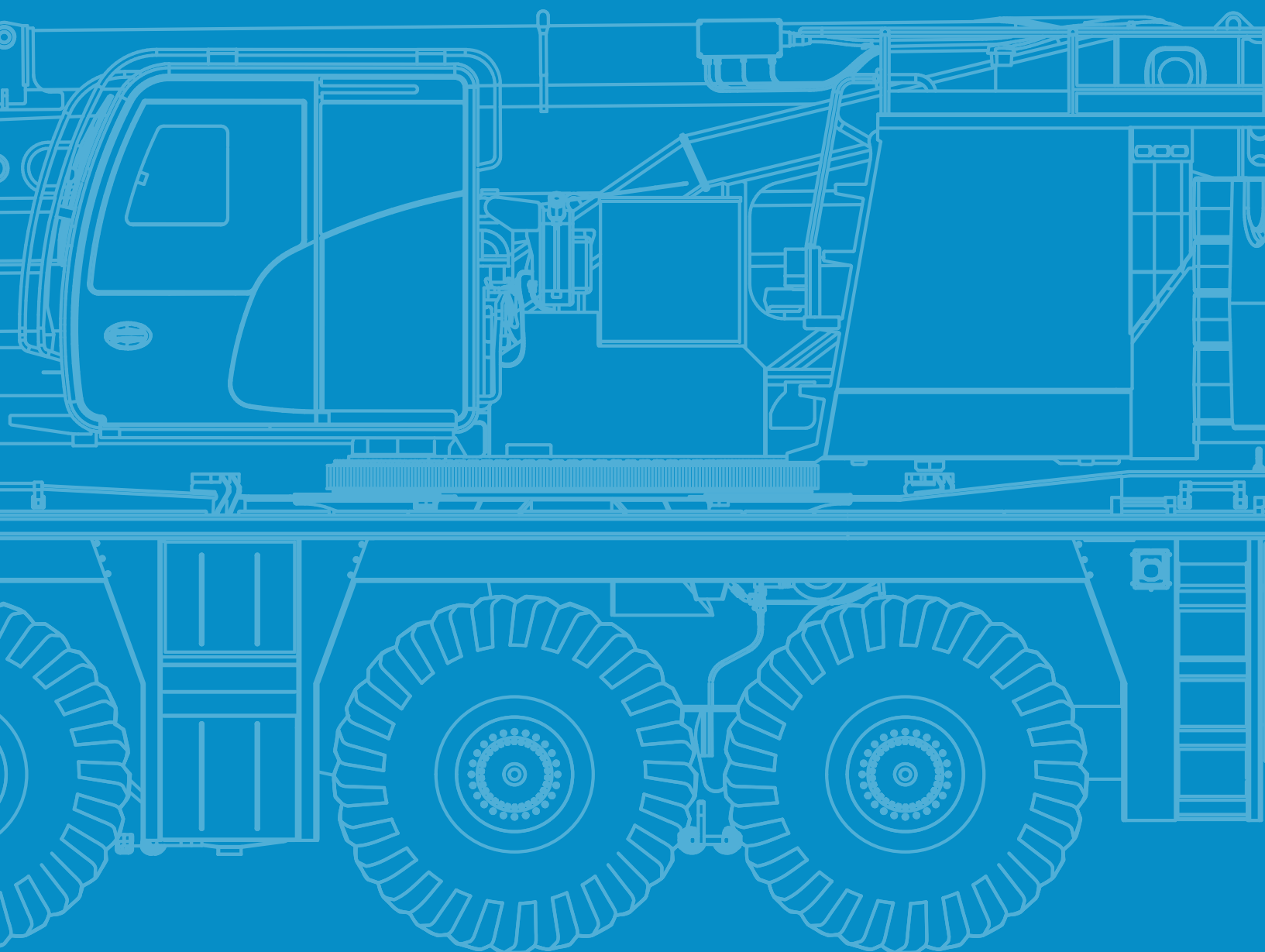
Transportation

Hoist 2


3,640



TECHNICAL DATA FOR OPERATION



Operation

Main boom



approx. 797 s (44.4 ft - 259.3 ft)



approx. 56 s (-1°-85°)

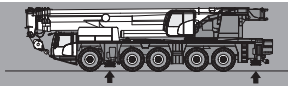
Slewing

0 - 1,1 min⁻¹

Hoist

				
	393.7 ft/min	22,076 lbf	0.83"	1050 ft
	393.7 ft/min	22,076 lbf	0.83"	1050 ft

Outrigger cylinders

		
	187,400 lbs	255,800 lbs
	17.5"	22.0"

Hook Blocks

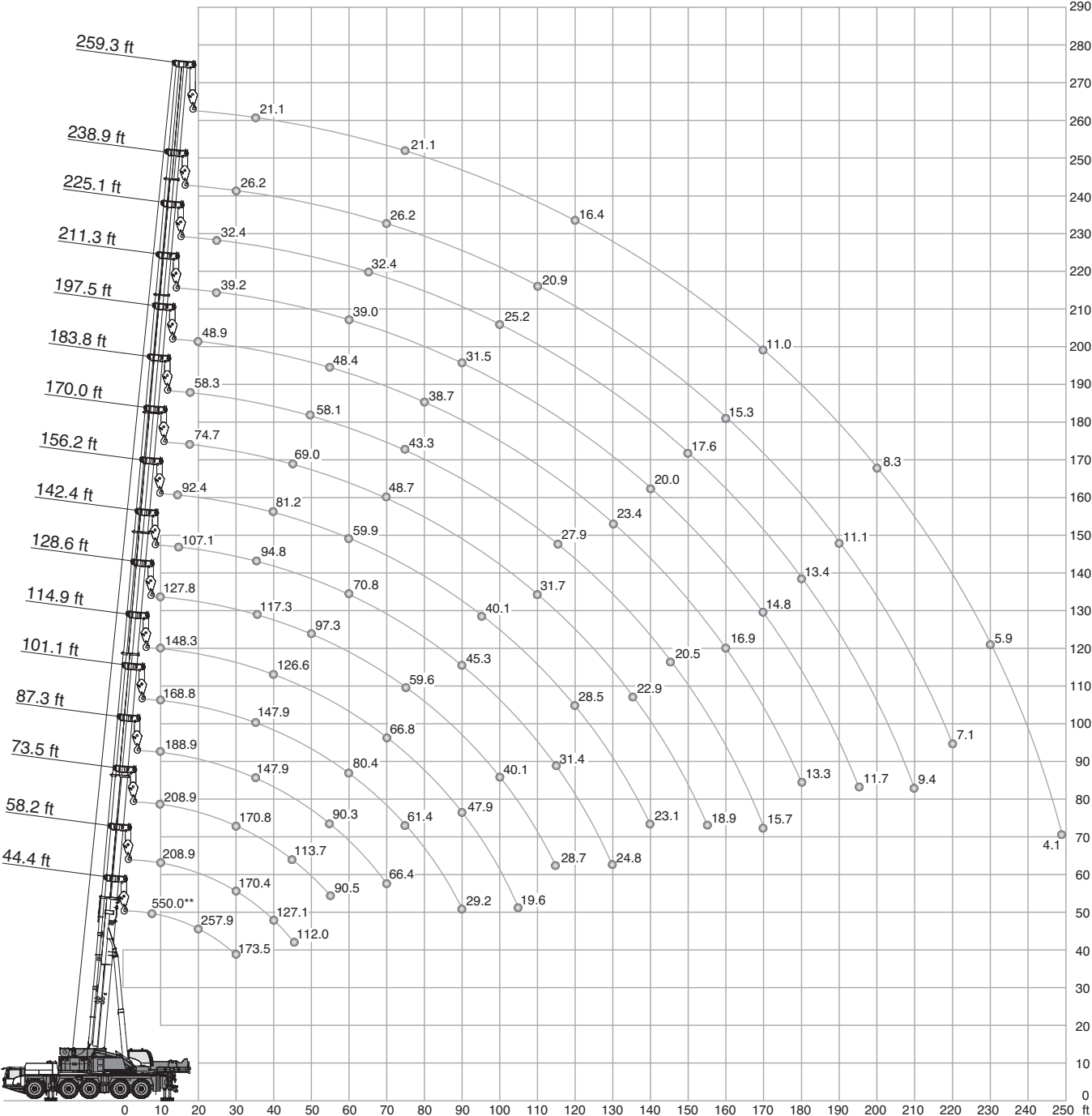


					
22,050 lbs	21,800 lbs	—	1	660 lbs	12.1 ft
70,500 lbs	64,800 lbs	1	3	990 lbs	8.2 ft
176,400 lbs	148,400 lbs	3	7	1,760 lbs	8.9 ft
275,600 lbs	228,700 lbs	5	11	2,540 lbs	9.2 ft
352,800 lbs	305,800 lbs	7	15	2,870 lbs	9.5 ft



Operation





** Max. crane capacity – with additional special equipment

Operation

MB

 176,400 lbs				 30.55 ft x 27.2 ft										360°					ASME B30.5			
 44.4 ¹⁾		44.4	58.2	73.5	87.3	101.1	114.9	128.6	142.4	156.2	170.0	183.8	197.5	211.3	225.1	238.9	259.3					
ft		(ft)																	ft			
		1,000 lbs																				
8.2	550.0**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2				
9.8	305.7*	305.7*	208.9	208.9	188.9	168.8	148.3	127.8	-	-	-	-	-	-	-	-	-	9.8				
10	305.7*	305.7*	208.9	208.9	188.9	168.8	148.3	127.8	-	-	-	-	-	-	-	-	-	10				
12	305.7*	305.7*	208.9	208.9	188.9	168.8	148.3	127.8	-	-	-	-	-	-	-	-	-	12				
14	302.6*	300.8*	208.9	208.9	188.9	168.8	148.3	127.8	107.1	92.4	-	-	-	-	-	-	-	14				
16	295.7*	290.1*	208.9	208.9	188.9	168.8	148.3	127.8	107.1	94.0	-	-	-	-	-	-	-	16				
18	277.9*	269.1*	208.9	208.9	188.9	168.8	148.3	127.8	107.1	94.3	74.7	58.3	-	-	-	-	-	18				
20	257.9*	246.2*	208.9	208.9	188.9	168.8	148.3	127.8	107.1	94.3	74.7	60.1	48.9	-	-	-	-	20				
25	213.0*	201.7	199.4	199.6	188.9	168.8	148.3	127.8	107.1	94.3	74.7	60.1	48.9	39.2	32.4	-	-	25				
30	173.5	168.7	170.4	170.8	170.0	167.1	148.3	124.8	104.8	93.9	74.7	60.1	48.9	39.2	32.4	26.2	-	30				
35	-	-	146.1	146.3	147.9	147.9	143.3	117.3	94.8	88.4	74.7	60.1	48.9	39.2	32.4	26.2	21.1	35				
40	-	-	127.1	127.9	129.9	128.8	126.6	110.6	87.5	81.2	74.1	60.1	48.9	39.2	32.4	26.2	21.1	40				
45	-	-	112.0	113.7	113.7	112.6	110.8	104.4	82.8	74.8	69.0	60.1	48.9	39.2	32.4	26.2	21.1	45				
50	-	-	-	101.2	101.0	99.9	98.1	97.3	78.4	69.2	64.1	58.1	48.9	39.2	32.4	26.2	21.1	50				
55	-	-	-	90.5	90.3	89.2	88.5	88.9	74.4	64.3	59.7	55.1	48.4	39.2	32.4	26.2	21.1	55				
60	-	-	-	-	81.2	80.4	81.2	79.9	70.8	59.9	55.7	51.8	47.2	39.0	32.4	26.2	21.1	60				
65	-	-	-	-	73.6	74.5	73.6	72.1	67.6	55.8	52.0	48.6	45.1	38.2	32.4	26.2	21.1	65				
70	-	-	-	-	66.4	67.5	66.8	64.7	64.5	52.4	48.7	45.9	42.8	36.9	31.7	26.2	21.1	70				
75	-	-	-	-	-	61.4	60.7	59.6	59.9	49.3	45.7	43.3	40.7	35.4	30.6	25.9	21.1	75				
80	-	-	-	-	-	56.3	55.3	55.8	54.2	46.5	43.1	40.8	38.7	34.0	29.4	25.4	21.1	80				
85	-	-	-	-	-	51.6	51.0	51.0	49.4	44.1	41.1	38.4	36.6	32.7	28.3	24.9	20.9	85				
90	-	-	-	-	-	29.2	47.9	46.9	45.3	42.0	38.9	36.4	34.6	31.5	27.2	24.1	20.3	90				
95	-	-	-	-	-	-	44.6	43.3	41.7	40.1	36.8	34.5	32.9	30.3	26.2	23.3	19.8	95				
100	-	-	-	-	-	-	36.8	40.1	38.5	37.9	34.9	32.7	31.2	29.0	25.2	22.4	19.4	100				
105	-	-	-	-	-	-	19.6	37.2	35.7	35.0	33.2	31.0	29.5	27.5	24.4	21.6	18.7	105				
110	-	-	-	-	-	-	-	34.7	33.2	33.0	31.7	29.3	28.1	26.1	23.6	20.9	18.0	110				
115	-	-	-	-	-	-	-	28.7	31.4	30.8	30.2	27.9	26.8	24.9	22.7	20.2	17.2	115				
120	-	-	-	-	-	-	-	-	30.2	28.5	28.5	26.6	25.6	23.9	21.9	19.5	16.4	120				
125	-	-	-	-	-	-	-	-	28.9	26.5	26.5	25.4	24.5	23.0	21.3	18.9	15.8	125				
130	-	-	-	-	-	-	-	-	24.8	25.4	24.6	24.4	23.4	21.9	20.6	18.3	15.1	130				
135	-	-	-	-	-	-	-	-	-	24.4	22.9	23.0	21.9	21.0	20.0	17.7	14.4	135				
140	-	-	-	-	-	-	-	-	-	23.1	21.5	21.7	20.7	20.0	19.2	17.2	13.9	140				
145	-	-	-	-	-	-	-	-	-	-	20.4	20.5	19.9	19.0	18.4	16.6	13.3	145				
150	-	-	-	-	-	-	-	-	-	-	19.7	19.1	19.2	18.0	17.6	16.1	12.8	150				
155	-	-	-	-	-	-	-	-	-	-	18.9	18.0	18.0	17.1	16.8	15.8	12.3	155				
160	-	-	-	-	-	-	-	-	-	-	-	17.1	16.9	16.4	15.9	15.3	11.8	160				
165	-	-	-	-	-	-	-	-	-	-	-	16.4	15.8	15.8	14.8	14.8	11.3	165				
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180	-	-	-	-	-	-	-	-	-	-	-	-	13.3	13.2	13.4	12.7	10.0	180				
185	-	-	-	-	-	-	-	-	-	-	-	-	-	12.6	13.0	11.9	9.6	185				
190	-	-	-	-	-	-	-	-	-	-	-	-	-	12.1	12.3	11.1	9.0	190				
195	-	-	-	-	-	-	-	-	-	-	-	-	-	11.7	11.5	10.4	8.6	195				
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.8	9.7	8.3	200				
205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.1	9.0	205				
210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.4	8.3	210				
215	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.6	215				
220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.1	220				
225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	225				
230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	230				
235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	235				
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240				
245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	245				
249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	249				

1) over rear

* with heavy lift attachment

** Max. crane capacity – with additional special equipment



Operation



 109,400 lbs		 30.55 ft x 27.2 ft		360° / Max.**												ASME B30.5	
 360° (ft) 44.4	Max. 44.4	360° 58.2	Max. 58.2	360° 73.5	Max. 73.5	360° 87.3	Max. 87.3	360° 101.1	Max. 101.1	360° 114.9	Max. 114.9	360° 128.6	Max. 128.6	360° 142.4	Max. 142.4		
ft	1,000 lbs															ft	
9.8	305.7*	305.7*	208.9	208.9	208.9	208.9	188.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	-	-	9.8
10	305.7*	305.7*	208.9	208.9	208.9	208.9	188.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	-	-	10
12	305.7*	305.7*	208.9	208.9	208.9	208.9	188.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	-	-	12
14	295.6*	300.8*	208.9	208.9	208.9	208.9	188.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	107.1	107.1	14
16	273.0*	290.1*	208.9	208.9	208.9	208.9	188.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	107.1	107.1	16
18	249.6*	264.6*	208.9	208.9	208.9	208.9	188.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	107.1	107.1	18
20	226.7*	236.5*	208.1	208.5	208.2	208.5	188.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	107.1	107.1	20
25	183.8	185.8	185.4	187.4	185.6	187.6	180.7	181.0	168.8	168.8	148.3	148.3	127.8	127.8	107.1	107.1	25
30	152.3	152.3	153.9	153.9	154.4	154.4	156.3	156.3	155.1	155.2	145.6	146.7	124.8	124.8	104.8	104.8	30
35	-	-	130.1	130.1	132.2	132.2	132.0	132.0	128.4	130.3	120.1	128.1	115.8	117.3	94.8	94.8	35
40	-	-	108.9	109.0	110.5	111.5	110.1	111.1	108.1	110.0	106.1	107.3	100.1	109.1	87.5	87.5	40
45	-	-	90.3	91.5	91.8	92.9	91.3	92.5	92.1	93.7	91.6	92.6	86.0	90.8	82.8	82.8	45
50	-	-	-	-	78.0	79.2	78.6	80.1	79.6	81.2	78.6	79.9	77.2	79.5	74.9	76.5	50
55	-	-	-	-	67.4	68.7	68.9	70.5	69.2	70.7	68.5	70.1	68.8	70.2	66.3	68.5	55
60	-	-	-	-	-	-	61.0	62.6	60.6	62.1	61.0	62.8	59.9	61.5	58.3	59.8	60
65	-	-	-	-	-	-	53.9	55.5	54.7	56.2	53.9	55.5	52.8	54.4	51.9	53.0	65
70	-	-	-	-	-	-	48.8	50.2	49.1	50.5	48.4	49.7	47.3	48.5	46.7	47.9	70
75	-	-	-	-	-	-	-	36.2	44.2	45.5	43.5	44.8	42.5	43.8	42.5	43.4	75
80	-	-	-	-	-	-	-	-	40.0	41.2	39.2	40.4	38.8	40.1	38.9	39.5	80
85	-	-	-	-	-	-	-	-	36.3	37.6	35.6	36.7	36.3	36.5	35.2	36.3	85
90	-	-	-	-	-	-	-	-	24.8	25.2	32.8	33.7	33.3	34.0	32.8	33.3	90
95	-	-	-	-	-	-	-	-	-	-	30.5	31.5	30.4	31.4	30.2	30.9	95
100	-	-	-	-	-	-	-	-	-	-	26.8	27.6	28.0	29.1	27.6	28.7	100
105	-	-	-	-	-	-	-	-	-	-	19.6	19.6	26.2	27.3	25.3	26.4	105
110	-	-	-	-	-	-	-	-	-	-	-	-	24.1	25.2	23.3	24.4	110
115	-	-	-	-	-	-	-	-	-	-	-	-	21.1	21.7	21.9	22.6	115
120	-	-	-	-	-	-	-	-	-	-	-	-	-	16.1	20.6	21.3	120
125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.3	20.4	125
130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.3	19.0	130
135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1	135

* with heavy lift attachment

** Max. values are valid only for specific superstructure positions

Operation

MB

 109,400 lbs		 30.55 ft x 27.2 ft		360° / Max.**										ASME B30.5				
 360° (ft)	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	
ft	1,000 lbs																	ft
14	92.4	92.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
16	94.0	94.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
18	94.3	94.3	74.7	74.7	58.3	58.3	-	-	-	-	-	-	-	-	-	-	-	18
20	94.3	94.3	74.7	74.7	60.1	60.1	48.9	48.9	-	-	-	-	-	-	-	-	-	20
25	94.3	94.3	74.7	74.7	60.1	60.1	48.9	48.9	39.2	39.2	32.4	32.4	-	-	-	-	-	25
30	93.9	93.9	74.7	74.7	60.1	60.1	48.9	48.9	39.2	39.2	32.4	32.4	26.2	26.2	-	-	-	30
35	88.4	88.4	74.7	74.7	60.1	60.1	48.9	48.9	39.2	39.2	32.4	32.4	26.2	26.2	21.1	21.6	-	35
40	81.2	81.2	74.1	74.1	60.1	60.1	48.9	48.9	39.2	39.2	32.4	32.4	26.2	26.2	21.1	21.6	-	40
45	74.8	74.8	69.0	69.0	60.1	60.1	48.9	48.9	39.2	39.2	32.4	32.4	26.2	26.2	21.1	21.6	-	45
50	69.2	69.2	64.1	64.1	58.1	58.1	48.9	48.9	39.2	39.2	32.4	32.4	26.2	26.2	21.1	21.6	-	50
55	63.4	63.8	59.1	59.7	55.1	55.1	48.4	48.4	39.2	39.2	32.4	32.4	26.2	26.2	21.1	21.6	-	55
60	57.0	58.2	54.0	55.4	51.7	51.8	47.2	47.2	39.0	39.0	32.4	32.4	26.2	26.2	21.1	21.6	-	60
65	50.6	51.9	49.6	50.0	47.8	48.6	45.1	45.1	38.2	38.2	32.4	32.4	26.2	26.2	21.1	21.6	-	65
70	45.9	46.8	45.4	46.2	43.4	44.9	42.1	42.8	36.9	36.9	31.7	31.7	26.2	26.2	21.1	21.6	-	70
75	41.8	42.6	41.2	42.2	39.9	41.4	38.6	40.0	35.4	35.4	30.6	30.6	25.9	25.9	21.1	21.6	-	75
80	38.1	39.0	37.3	38.1	36.9	38.0	35.3	36.7	33.7	34.0	29.4	29.4	25.4	25.4	21.1	21.5	-	80
85	35.2	35.6	34.3	35.6	33.2	34.3	32.9	33.4	31.6	32.7	28.3	28.3	24.9	24.9	20.9	20.9	-	85
90	32.2	33.1	31.3	32.3	31.1	31.6	30.3	31.1	29.3	30.3	27.2	27.2	24.1	24.1	20.3	20.4	-	90
95	29.3	30.4	29.0	29.7	28.7	29.2	27.8	28.7	26.8	27.7	26.0	26.2	23.3	23.3	19.8	19.9	-	95
100	27.0	27.8	26.9	27.6	26.1	27.1	25.5	26.4	24.7	25.5	24.3	25.0	22.4	22.4	19.4	19.4	-	100
105	25.3	25.5	24.6	25.7	24.0	25.1	23.5	24.2	23.3	24.0	22.0	23.3	21.6	21.6	18.7	18.7	-	105
110	23.5	24.3	22.9	24.0	22.5	23.3	22.2	22.7	21.3	22.3	20.8	21.3	20.8	20.9	18.0	18.0	-	110
115	21.8	22.7	21.2	22.3	21.0	21.7	20.5	21.4	19.9	20.6	19.9	20.0	19.2	20.0	17.2	17.2	-	115
120	20.3	21.1	19.8	20.8	19.6	20.5	18.9	20.1	18.8	19.2	18.8	19.2	17.4	18.8	16.4	16.4	-	120
125	18.8	19.9	18.8	19.3	17.9	19.3	17.6	18.4	18.1	18.2	17.3	18.6	15.9	17.3	15.7	15.8	-	125
130	17.4	18.5	17.3	18.3	16.6	17.9	17.0	17.2	16.8	17.5	15.8	17.1	14.6	15.9	14.6	15.1	-	130
135	16.5	17.3	16.0	17.1	15.8	16.6	16.3	16.4	15.5	16.6	14.5	15.8	13.3	14.9	13.4	14.4	-	135
140	15.6	16.3	14.9	16.1	15.2	15.4	15.3	15.8	14.3	15.5	13.3	14.7	12.0	14.0	12.2	13.6	-	140
145	-	14.8	13.7	15.1	14.6	14.6	14.2	15.3	13.3	14.4	12.2	13.5	10.9	13.3	11.1	12.6	-	145
150	-	9.9	13.3	14.0	13.8	14.2	13.2	14.3	12.1	13.4	11.2	12.5	9.9	12.5	10.1	11.6	-	150
155	-	-	12.9	13.1	12.9	13.7	12.1	13.4	11.2	12.5	10.2	11.5	9.0	11.5	9.0	10.7	-	155
160	-	-	-	-	12.1	13.1	11.2	12.6	10.4	11.7	9.2	10.8	8.1	10.6	8.1	9.9	-	160
165	-	-	-	-	11.2	12.4	10.4	11.7	9.5	10.8	8.4	10.4	7.2	9.8	7.3	9.0	-	165
170	-	-	-	-	10.4	11.7	9.8	10.9	8.6	10.0	7.8	10.0	6.4	9.1	6.7	8.2	-	170
175	-	-	-	-	-	-	9.1	10.2	8.0	9.3	7.0	9.4	5.8	8.3	5.9	7.5	-	175
180	-	-	-	-	-	-	8.4	9.5	7.3	8.6	6.3	8.7	5.1	7.6	5.1	6.8	-	180
185	-	-	-	-	-	-	-	-	6.7	8.0	5.7	8.0	4.5	7.0	4.5	6.1	-	185
190	-	-	-	-	-	-	-	-	6.1	7.4	5.0	7.4	3.9	6.3	3.9	5.5	-	190
195	-	-	-	-	-	-	-	-	5.5	7.1	4.6	7.0	3.3	5.9	3.3	5.0	-	195
200	-	-	-	-	-	-	-	-	-	-	4.1	6.5	2.7	5.4	2.7	4.5	-	200
205	-	-	-	-	-	-	-	-	-	-	3.5	6.0	-	4.9	-	4.0	-	205
210	-	-	-	-	-	-	-	-	-	-	3.0	5.5	-	4.4	-	3.5	-	210
215	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9	-	3.0	-	215
220	-	-	-	-	-	-	-	-	-	-	-	-	-	3.5	-	2.6	-	220

* with heavy lift attachment

** Max. values are valid only for specific superstructure positions

Operation



		44,100 lbs				30.55 ft x 27.2 ft				360° / Max.**				ASME B30.5				
		360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	
ft	(ft)	44.4	44.4	58.2	58.2	73.5	73.5	87.3	87.3	101.1	101.1	114.9	114.9	128.6	128.6	142.4	142.4	ft
1,000 lbs																		
9.8	305.7*	305.7*	208.9	208.9	208.9	208.9	188.9	188.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	-	-	9.8
10	305.0*	305.7*	208.9	208.9	208.9	208.9	188.9	188.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	-	-	10
12	297.5*	305.7*	208.9	208.9	208.9	208.9	188.9	188.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	-	-	12
14	279.7*	290.9*	208.9	208.9	208.9	208.9	188.9	188.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	107.1	107.1	14
16	249.2*	258.1*	208.9	208.9	208.9	208.9	188.9	188.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	107.1	107.1	16
18	224.7*	229.8*	208.0	208.7	203.3	208.9	184.7	188.9	168.8	168.8	148.3	148.3	148.3	127.8	127.8	107.1	107.1	18
20	202.6	203.9	203.6	205.6	194.0	206.0	177.5	187.8	166.1	168.8	146.9	148.3	148.3	127.4	127.8	107.1	107.1	20
25	152.7	152.7	150.7	155.7	143.0	157.1	133.8	156.6	126.9	152.7	120.7	142.7	112.3	127.8	127.8	102.0	107.1	25
30	107.2	107.3	112.4	112.7	109.3	114.7	106.1	114.5	102.0	116.4	98.1	114.7	92.5	112.0	112.0	87.0	104.3	30
35	-	-	85.9	87.2	88.8	89.6	87.4	91.4	84.8	91.1	80.8	91.3	76.4	89.3	89.3	72.8	87.5	35
40	-	-	68.3	70.1	71.4	73.4	72.7	74.1	71.1	74.9	67.8	74.1	64.4	72.7	72.7	61.3	71.3	40
45	-	-	55.6	57.6	58.7	60.7	59.8	61.9	59.6	62.0	57.4	61.3	56.1	60.4	60.4	53.4	59.6	45
50	-	-	-	-	49.3	51.3	50.4	52.6	50.5	52.6	49.9	52.6	49.0	52.0	52.0	46.7	51.6	50
55	-	-	-	-	41.6	43.8	42.7	45.1	43.1	45.3	43.6	45.4	42.8	45.3	45.3	41.1	44.8	55
60	-	-	-	-	-	-	36.5	39.0	37.3	39.6	37.9	39.3	37.4	39.6	39.6	36.7	38.8	60
65	-	-	-	-	-	-	31.6	34.1	32.7	34.7	32.7	35.1	32.5	34.9	34.9	32.6	34.6	65
70	-	-	-	-	-	-	27.7	30.2	28.8	31.2	28.8	31.3	29.1	31.0	31.0	28.9	31.0	70
75	-	-	-	-	-	-	-	25.2	25.3	27.9	26.0	27.9	25.9	28.0	28.0	25.8	27.9	75
80	-	-	-	-	-	-	-	-	22.4	24.9	24.0	25.0	22.9	25.6	25.6	23.4	25.1	80
85	-	-	-	-	-	-	-	-	20.6	22.5	21.5	23.2	20.8	23.1	23.1	21.7	22.6	85
90	-	-	-	-	-	-	-	-	18.6	20.8	19.3	21.7	19.1	20.8	20.8	19.5	21.2	90
95	-	-	-	-	-	-	-	-	-	-	17.5	20.0	17.3	19.0	19.0	17.6	19.7	95
100	-	-	-	-	-	-	-	-	-	-	15.8	18.2	15.5	17.7	17.7	15.8	18.2	100
105	-	-	-	-	-	-	-	-	-	-	14.3	16.7	14.1	16.7	16.7	14.3	16.7	105
110	-	-	-	-	-	-	-	-	-	-	-	-	12.7	15.2	15.2	12.9	15.3	110
115	-	-	-	-	-	-	-	-	-	-	-	-	11.6	14.0	14.0	11.7	14.0	115
120	-	-	-	-	-	-	-	-	-	-	-	-	-	12.1	10.6	12.8	120	
125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	11.8	125
130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	11.0	130
135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8	135

* with heavy lift attachment

** Max. values are valid only for specific superstructure positions

Operation



 44,100 lbs			 30.55 ft x 27.2 ft			360° / Max.**										ASME B30.5		
 360° (ft) 156.2	Max. 156.2	360° 170.0	Max. 170.0	360° 183.8	Max. 183.8	360° 197.5	Max. 197.5	360° 211.3	Max. 211.3	360° 225.1	Max. 225.1	360° 238.9	Max. 238.9	360° 259.3	Max. 259.3			
ft	1,000 lbs															ft		
14	92.4	92.4	-	-	-	-	-	-	-	-	-	-	-	-	-	14		
16	94.0	94.0	-	-	-	-	-	-	-	-	-	-	-	-	-	16		
18	94.3	94.3	74.7	74.7	58.3	58.3	-	-	-	-	-	-	-	-	-	18		
20	94.3	94.3	74.7	74.7	60.1	60.1	48.9	48.9	-	-	-	-	-	-	-	20		
25	92.1	94.3	74.7	74.7	60.1	60.1	48.9	48.9	39.2	39.2	32.4	32.4	-	-	-	25		
30	81.2	93.9	73.3	74.7	60.1	60.1	48.9	48.9	39.2	39.2	32.4	32.4	26.2	26.2	-	30		
35	68.7	84.8	64.7	74.7	58.4	60.1	48.9	48.9	39.2	39.2	32.4	32.4	26.2	26.2	21.1	35		
40	59.4	69.9	56.0	68.2	52.8	59.6	48.3	48.9	39.2	39.2	32.4	32.4	26.2	26.2	21.1	40		
45	51.3	59.2	49.4	57.8	46.7	55.4	43.6	48.9	39.2	39.2	32.4	32.4	26.2	26.2	21.1	45		
50	45.1	51.0	43.5	49.9	41.4	48.7	39.3	45.9	36.6	39.2	32.4	32.4	26.2	26.2	21.1	50		
55	40.0	44.4	38.6	43.5	36.8	42.4	35.0	41.5	33.3	38.0	30.9	32.4	26.2	26.2	21.1	55		
60	35.5	39.1	34.5	38.4	32.9	37.5	31.0	36.7	29.9	35.3	27.9	32.1	25.7	26.2	21.1	60		
65	32.1	34.5	30.4	33.8	29.5	33.9	29.3	32.9	27.4	31.7	25.4	30.1	23.2	26.2	21.1	65		
70	28.6	31.1	27.8	30.3	27.3	30.0	26.3	29.1	24.4	28.8	22.6	28.0	20.6	26.1	19.5	70		
75	25.9	27.9	25.7	27.1	24.9	27.0	23.5	26.6	21.7	26.1	20.0	25.8	18.1	24.9	17.4	75		
80	23.6	24.9	23.6	24.5	22.3	24.9	21.0	24.7	19.3	23.6	17.7	23.4	15.8	22.8	15.1	80		
85	21.2	22.5	21.1	23.2	20.1	22.8	18.8	22.2	17.2	21.4	15.7	21.2	13.7	20.0	13.3	85		
90	19.0	21.3	18.8	21.2	17.9	20.6	17.0	19.9	15.4	19.7	13.9	19.0	12.0	17.9	11.6	90		
95	17.1	19.6	16.9	19.3	16.0	18.7	15.3	18.1	13.7	18.0	12.2	17.1	10.4	16.0	10.0	95		
100	15.3	17.7	15.1	17.5	14.2	16.9	13.6	16.7	12.3	16.2	10.8	15.3	9.0	14.2	8.6	100		
105	13.6	16.3	13.4	16.0	12.7	15.4	11.9	15.6	11.0	14.5	9.4	13.6	7.9	12.5	7.4	105		
110	12.3	14.9	12.0	14.5	11.4	13.9	10.5	14.1	9.6	13.1	8.2	12.3	6.7	11.2	6.2	110		
115	11.1	13.5	10.8	13.3	10.2	12.8	9.3	12.8	8.2	11.9	7.2	11.1	5.5	10.0	5.2	115		
120	9.9	12.3	9.7	12.1	9.0	12.0	8.1	11.6	7.0	10.8	6.2	9.9	4.5	8.8	4.2	120		
125	8.9	11.4	8.7	11.1	7.8	11.1	7.1	10.4	6.0	9.8	5.1	8.9	3.6	7.8	3.2	125		
130	8.1	10.7	7.7	10.1	7.0	10.3	6.1	9.6	5.2	8.8	4.1	7.9	2.8	6.8	2.4	130		
135	7.3	9.8	6.8	9.3	6.2	9.5	5.4	8.7	4.4	7.9	3.3	7.1	-	6.0	-	135		
140	6.5	8.9	6.0	8.6	5.3	8.6	4.6	7.8	3.6	7.0	-	6.2	-	5.2	-	140		
145	-	8.2	5.4	8.0	4.5	7.8	3.8	7.1	2.9	6.2	-	5.4	-	4.5	-	145		
150	-	7.5	4.7	7.3	4.0	7.1	3.1	6.4	2.3	5.6	-	4.7	-	3.7	-	150		
155	-	-	4.2	6.5	3.3	6.4	2.6	5.8	-	5.1	-	4.2	-	3.1	-	155		
160	-	-	-	-	2.8	5.9	-	5.2	-	4.5	-	3.6	-	-	-	160		
165	-	-	-	-	2.4	5.3	-	4.7	-	3.8	-	2.9	-	-	-	165		
170	-	-	-	-	-	4.0	-	4.2	-	3.4	-	2.5	-	-	-	170		
175	-	-	-	-	-	-	-	3.7	-	2.8	-	-	-	-	-	175		
180	-	-	-	-	-	-	-	3.1	-	2.4	-	-	-	-	-	180		
184	-	-	-	-	-	-	-	2.6	-	2.2	-	-	-	-	-	184		

* with heavy lift attachment

** Max. values are valid only for specific superstructure positions

Operation



0 lbs		 30.55 ft x 27.2 ft								360° / Max.**				ASME B30.5				
 360° (ft)	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	
ft	44.4	58.2	58.2	73.5	73.5	87.3	87.3	101.1	101.1	114.9	114.9	128.6	128.6	142.4	142.4	ft		
1,000 lbs																		
9.8	305.7*	305.7*	208.9	208.9	208.9	208.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	-	-	9.8		
10	303.7*	304.4*	208.9	208.9	208.9	208.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	-	-	10		
12	283.2*	291.8*	208.9	208.9	208.9	208.9	188.9	168.8	168.8	148.3	148.3	127.8	127.8	-	-	12		
14	254.4*	268.4*	202.3	208.9	198.8	208.9	180.0	188.9	161.9	168.8	143.6	148.3	125.3	127.8	106.8	107.1	14	
16	215.4*	232.1*	187.6	208.9	176.4	208.9	160.3	188.9	146.6	168.8	133.2	148.3	119.7	127.8	106.1	107.1	16	
18	176.8	193.5	161.5	189.5	151.1	190.9	139.8	180.3	129.7	168.8	118.7	148.3	107.8	127.8	97.3	107.1	18	
20	140.8	155.9	134.1	164.4	126.5	167.3	120.0	167.0	112.8	164.8	103.6	146.1	94.8	127.0	86.8	107.1	20	
25	91.4	95.8	91.5	103.4	89.3	107.6	85.2	109.3	80.0	109.3	74.6	108.5	71.2	105.4	66.9	99.0	25	
30	60.4	65.5	64.5	72.2	64.6	76.3	62.8	78.1	60.8	78.3	58.2	77.5	55.2	76.6	53.1	75.5	30	
35	-	-	47.8	54.3	49.7	58.0	49.1	59.6	48.4	60.2	46.5	60.3	44.9	60.3	44.0	59.3	35	
40	-	-	35.3	42.4	39.2	45.6	39.2	47.4	39.2	48.7	39.7	48.8	38.2	48.6	36.9	48.3	40	
45	-	-	26.7	33.7	30.2	36.8	31.7	38.4	33.0	39.7	33.1	40.1	31.9	40.5	31.0	40.0	45	
50	-	-	-	-	24.3	30.4	26.5	31.8	27.7	33.4	27.9	34.5	27.1	34.6	26.4	34.7	50	
55	-	-	-	-	19.5	25.3	22.1	27.1	23.0	28.6	23.6	29.9	23.1	29.8	22.5	30.1	55	
60	-	-	-	-	-	-	18.1	23.8	19.0	24.7	19.9	25.6	19.7	25.8	19.3	25.8	60	
65	-	-	-	-	-	-	14.9	20.4	15.8	21.3	16.7	22.0	16.7	22.2	16.6	22.4	65	
70	-	-	-	-	-	-	12.4	17.7	13.2	18.6	14.1	19.2	14.2	19.4	14.4	19.7	70	
75	-	-	-	-	-	-	-	15.5	11.1	16.2	11.8	17.0	12.0	17.1	12.3	17.3	75	
80	-	-	-	-	-	-	-	-	9.2	14.1	9.9	15.1	10.1	15.1	10.3	15.1	80	
85	-	-	-	-	-	-	-	-	7.5	12.4	8.4	13.3	8.4	13.3	8.6	13.3	85	
90	-	-	-	-	-	-	-	-	6.3	11.0	7.1	11.8	7.1	11.8	7.3	11.8	90	
95	-	-	-	-	-	-	-	-	-	-	5.9	10.3	5.8	10.3	6.0	10.5	95	
100	-	-	-	-	-	-	-	-	-	-	4.9	9.1	4.7	9.1	4.9	9.3	100	
105	-	-	-	-	-	-	-	-	-	-	3.9	8.1	3.9	8.1	3.9	8.1	105	
110	-	-	-	-	-	-	-	-	-	-	-	-	3.1	7.1	3.1	7.1	110	
115	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2	-	6.3	115	
120	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4	-	5.6	120	
125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8	125	
130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	130	
135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	135	

* with heavy lift attachment

** Max. values are valid only for specific superstructure positions

Operation



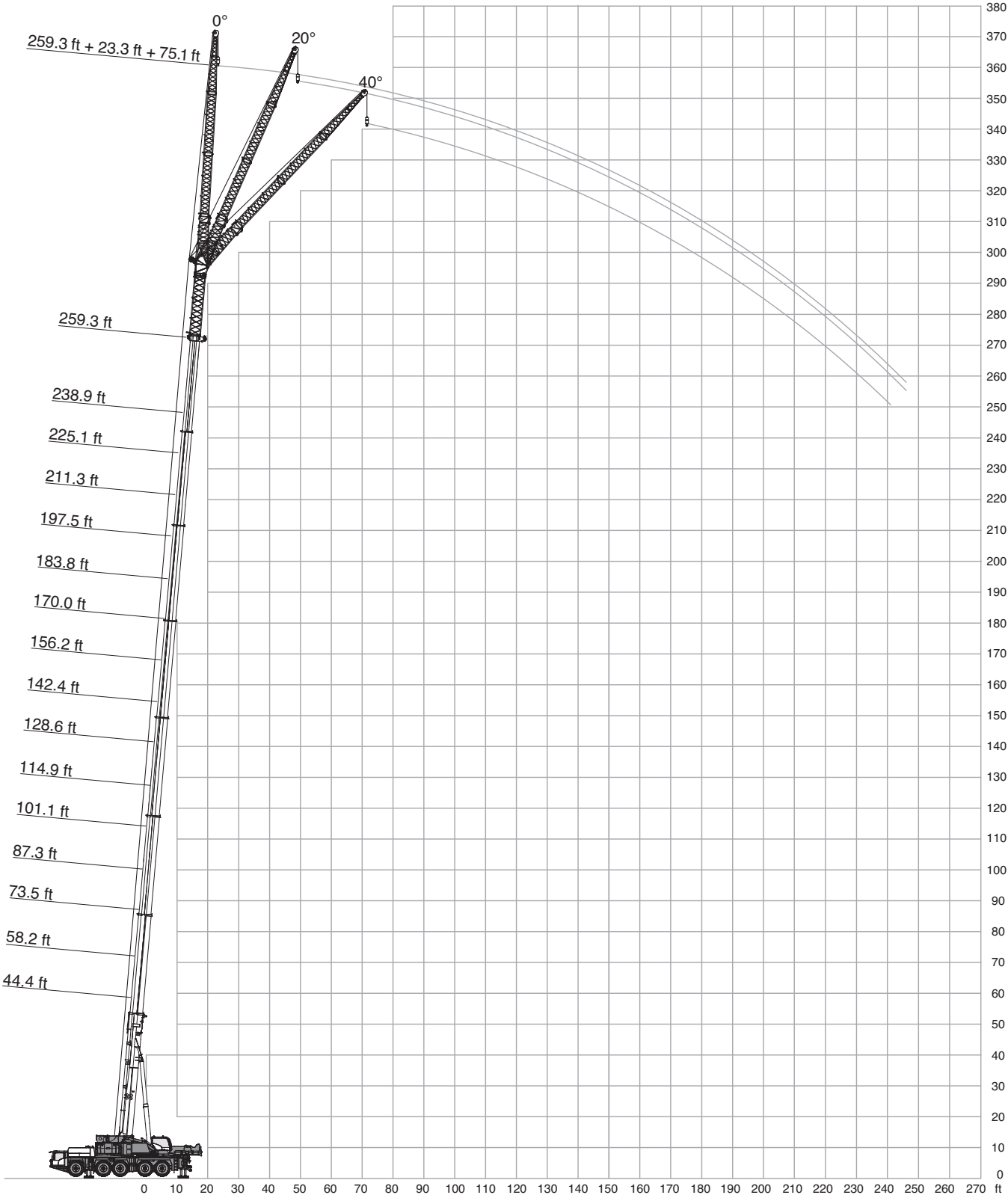
 0 lbs		 30.55 ft x 27.2 ft								360° / Max.**						ASME B30.5			
 360° (ft) 156.2	Max. 156.2	360° 170.0	Max. 170.0	360° 183.8	Max. 183.8	360° 197.5	Max. 197.5	360° 211.3	Max. 211.3	360° 225.1	Max. 225.1	360° 238.9	Max. 238.9	360° 259.3	Max. 259.3				
1,000 lbs																ft			
14	91.7	92.4	-	-	-	-	-	-	-	-	-	-	-	-	-	14			
16	91.7	94.0	-	-	-	-	-	-	-	-	-	-	-	-	-	16			
18	85.1	94.3	72.5	74.7	58.3	58.3	-	-	-	-	-	-	-	-	-	18			
20	77.1	94.3	69.3	74.7	59.6	60.1	48.9	48.9	-	-	-	-	-	-	-	20			
25	61.9	90.7	56.8	74.7	51.1	60.1	46.0	48.9	39.2	39.2	32.4	32.4	-	-	-	25			
30	50.2	74.1	47.0	69.0	43.2	59.9	38.8	48.9	34.9	39.2	31.9	32.4	26.2	26.2	-	30			
35	41.8	58.3	39.8	57.0	36.8	54.5	34.1	48.9	31.2	39.2	28.6	32.4	25.6	26.2	21.1	35			
40	35.0	47.6	33.2	46.7	31.1	45.8	28.9	43.5	26.5	38.7	24.1	32.4	21.5	26.2	20.2	40			
45	29.2	39.7	27.8	38.8	25.8	37.9	24.0	36.9	21.8	35.0	19.7	32.0	17.3	26.2	16.3	45			
50	24.8	34.3	23.6	33.9	21.9	33.0	20.1	32.7	18.2	31.2	16.2	29.3	13.9	25.9	13.1	50			
55	21.1	29.7	20.1	29.4	18.5	29.0	16.8	28.6	15.1	27.4	13.2	26.0	11.1	24.3	10.4	55			
60	18.0	25.4	17.1	25.2	15.6	25.3	14.1	24.5	12.3	23.6	10.6	22.5	8.6	21.4	8.1	60			
65	15.5	22.0	14.6	22.2	13.3	21.7	11.9	21.1	10.2	20.2	8.5	19.1	6.5	18.0	6.1	65			
70	13.4	19.2	12.5	19.4	11.2	19.0	9.9	18.3	8.2	17.5	6.7	16.4	4.8	15.3	4.4	70			
75	11.5	16.8	10.7	17.0	9.4	16.6	8.1	15.9	6.6	15.1	5.1	14.0	3.4	12.9	-	75			
80	9.7	14.7	9.1	14.9	7.7	14.4	6.6	13.8	5.2	12.9	3.8	12.0	-	10.8	-	80			
85	8.2	12.8	7.8	13.1	6.4	12.6	5.3	12.0	4.0	11.1	2.5	10.2	-	9.1	-	85			
90	6.8	11.3	6.4	11.6	5.2	11.1	4.1	10.5	2.8	9.6	-	8.7	-	7.6	-	90			
95	5.6	10.0	5.3	10.1	4.2	9.8	3.1	9.0	-	8.2	-	7.4	-	6.1	-	95			
100	4.5	8.8	4.3	8.8	3.2	8.6	-	7.8	-	7.0	-	6.2	-	4.8	-	100			
105	3.5	7.7	3.3	7.7	2.4	7.4	-	6.8	-	5.9	-	5.0	-	3.7	-	105			
110	2.7	6.6	2.5	6.9	-	6.4	-	5.8	-	5.1	-	4.0	-	2.7	-	110			
115	-	5.7	-	6.0	-	5.5	-	4.9	-	4.2	-	3.2	-	-	-	115			
120	-	5.0	-	5.2	-	4.7	-	4.1	-	3.4	-	-	-	-	-	120			
125	-	4.4	-	4.4	-	4.1	-	3.5	-	-	-	-	-	-	-	125			
130	-	3.7	-	3.7	-	3.4	-	2.8	-	-	-	-	-	-	-	130			
135	-	3.1	-	3.1	-	2.8	-	-	-	-	-	-	-	-	-	135			
140	-	2.6	-	2.6	-	-	-	-	-	-	-	-	-	-	-	140			
144	-	2.2	-	2.2	-	-	-	-	-	-	-	-	-	-	-	144			

* with heavy lift attachment

** Max. values are valid only for specific superstructure positions

Operation

FOJ



Operation



 176,400 lbs			 30.55 ft x 27.2 ft			 23.3 ft + 75.1 ft			360°			ASME B30.5		
		44.4 ft			58.2 ft			73.5 ft			87.3 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs												ft
17		23.3	-	-	23.3	-	-	-	-	-	-	-	-	17
19		23.3	-	-	23.3	-	-	-	-	-	-	-	-	19
21		23.3	-	-	23.3	-	-	23.3	-	-	-	-	-	21
26		23.3	-	-	23.3	-	-	23.3	-	-	22.4	-	-	26
31		23.2	-	-	23.3	-	-	23.3	-	-	22.4	-	-	31
36		21.8	-	-	22.9	-	-	23.1	-	-	22.4	-	-	36
41		19.2	15.5	-	21.2	16.3	-	22.0	16.7	-	22.1	17.0	-	41
46		16.9	14.1	-	18.9	14.9	-	20.7	15.4	-	21.3	15.8	-	46
51		15.2	12.9	-	17.4	13.6	-	18.8	14.2	-	20.0	14.6	-	51
56		13.8	11.8	-	15.7	12.5	-	17.2	13.1	-	18.5	13.6	-	56
61		12.5	10.9	9.6	14.2	11.6	-	15.8	12.2	-	17.1	12.7	-	61
66		11.3	10.0	9.0	12.9	10.7	9.2	14.4	11.3	9.4	15.7	11.8	9.7	66
71		10.5	9.4	8.4	11.9	10.1	8.6	13.3	10.5	8.9	14.4	11.2	9.1	71
76		9.7	8.7	7.9	10.8	9.4	8.1	12.2	9.8	8.5	13.3	10.5	8.6	76
81		8.9	8.1	7.5	10.0	8.8	7.7	11.2	9.2	8.1	12.3	9.8	8.2	81
86		8.2	7.6	7.1	9.3	8.2	7.4	10.4	8.7	7.6	11.5	9.2	7.8	86
91		7.5	7.1	6.7	8.6	7.8	7.1	9.8	8.2	7.3	10.7	8.9	7.5	91
96		7.0	6.7	6.3	8.1	7.3	6.7	9.1	7.8	6.9	10.0	8.4	7.1	96
101		6.6	6.3	5.9	7.6	6.8	6.4	8.5	7.4	6.6	9.4	7.8	6.9	101
106		6.2	5.8	5.7	7.1	6.5	6.0	8.0	6.9	6.3	8.9	7.3	6.7	106
111		5.7	5.5	5.5	6.6	6.1	5.7	7.5	6.6	6.1	8.4	7.0	6.3	111
116		5.4	5.3	5.2	6.3	5.8	5.6	7.0	6.3	5.8	7.9	6.7	6.2	116
121		5.0	5.0	-	5.9	5.5	5.4	6.6	6.0	5.6	7.4	6.5	5.9	121
126		4.8	-	-	5.6	5.2	5.1	6.2	5.8	5.4	6.9	6.2	5.7	126
131		4.6	-	-	5.2	5.0	4.8	5.9	5.5	5.2	6.6	5.9	5.5	131
136		-	-	-	4.9	4.9	-	5.6	5.3	5.1	6.2	5.8	5.3	136
141		-	-	-	4.7	4.6	-	5.4	5.0	-	5.9	5.5	5.1	141
146		-	-	-	-	-	-	5.1	4.8	-	5.7	5.2	5.0	146
151		-	-	-	-	-	-	4.8	4.6	-	5.5	5.0	-	151
156		-	-	-	-	-	-	4.6	4.4	-	5.1	4.8	-	156
161		-	-	-	-	-	-	-	-	-	4.9	4.7	-	161
166		-	-	-	-	-	-	-	-	-	4.7	4.5	-	166

Operation



 176,400 lbs				 30.55 ft x 27.2 ft				 23.3 ft + 75.1 ft				360°			ASME B30.5			
		101.1 ft			114.9 ft			128.6 ft			142.4 ft							
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°					
ft															1,000 lbs		ft	
31		19.6	-	-	18.5	-	-	17.0	-	-	-	-	-	-	31			
36		19.6	-	-	18.5	-	-	17.6	-	-	15.6	-	-	36				
41		19.6	-	-	18.5	-	-	17.6	-	-	15.6	-	-	41				
46		19.6	16.0	-	18.5	16.3	-	17.6	16.0	-	15.6	-	-	46				
51		19.6	15.0	-	18.5	15.2	-	17.6	15.2	-	15.6	-	-	51				
56		19.1	14.0	-	18.5	14.2	-	17.6	14.3	-	15.6	14.3	-	56				
61		18.2	13.1	-	18.3	13.3	-	17.6	13.6	-	15.6	13.6	-	61				
66		16.8	12.2	9.7	17.7	12.6	-	17.6	12.9	-	15.6	12.9	-	66				
71		15.5	11.6	9.3	16.6	11.8	-	17.0	12.3	-	15.6	12.3	-	71				
76		14.4	10.9	8.8	15.4	11.2	9.0	16.1	11.6	9.0	15.6	11.7	9.0	76				
81		13.3	10.2	8.4	14.3	10.7	8.6	15.1	11.0	8.6	15.4	11.1	8.7	81				
86		12.4	9.6	8.1	13.5	10.0	8.3	14.2	10.4	8.3	14.8	10.5	8.5	86				
91		11.6	9.3	7.8	12.5	9.5	8.0	13.4	10.0	8.0	13.8	10.2	8.2	91				
96		10.8	8.8	7.4	11.7	9.1	7.6	12.5	9.5	7.8	13.0	9.7	7.8	96				
101		10.2	8.3	7.1	11.0	8.7	7.3	11.7	9.0	7.5	12.4	9.2	7.6	101				
106		9.6	7.8	6.9	10.4	8.2	7.1	11.1	8.7	7.2	11.8	8.9	7.3	106				
111		9.1	7.4	6.6	9.8	7.9	6.8	10.6	8.3	7.0	11.1	8.5	7.0	111				
116		8.5	7.1	6.4	9.2	7.6	6.7	10.0	8.0	6.9	10.5	8.2	6.9	116				
121		8.0	6.9	6.1	8.8	7.2	6.4	9.4	7.7	6.6	10.0	7.9	6.7	121				
126		7.6	6.7	5.9	8.4	7.0	6.1	8.9	7.3	6.3	9.6	7.6	6.5	126				
131		7.2	6.3	5.7	7.9	6.8	5.9	8.5	7.0	6.1	9.0	7.2	6.3	131				
136		6.9	6.0	5.6	7.5	6.4	5.8	8.2	6.9	6.0	8.6	7.1	6.2	136				
141		6.6	5.8	5.4	7.2	6.2	5.6	7.8	6.6	5.8	8.3	6.8	6.0	141				
146		6.2	5.7	5.2	6.9	6.0	5.4	7.3	6.3	5.7	8.0	6.5	5.9	146				
151		5.9	5.5	5.0	6.6	5.7	5.2	7.0	6.1	5.5	7.7	6.3	5.7	151				
156		5.7	5.3	5.0	6.2	5.5	5.2	6.8	5.9	5.3	7.3	6.1	5.5	156				
161		5.4	5.0	-	6.0	5.3	5.1	6.5	5.7	5.2	7.0	6.0	5.3	161				
166		5.1	4.7	-	5.8	5.1	4.9	6.2	5.4	5.1	6.6	5.8	5.2	166				
171		5.0	4.6	-	5.5	5.0	-	5.9	5.2	5.0	6.3	5.7	5.2	171				
176		4.7	4.6	-	5.3	4.8	-	5.7	5.0	4.8	6.1	5.5	5.0	176				
181		4.5	-	-	5.0	4.7	-	5.6	5.0	-	6.0	5.3	4.9	181				
186		-	-	-	4.7	4.5	-	5.3	4.9	-	5.8	5.1	4.8	186				
191		-	-	-	4.6	-	-	5.0	4.8	-	5.5	5.0	-	191				
196		-	-	-	4.4	-	-	4.8	4.6	-	5.2	4.8	-	196				
201		-	-	-	-	-	-	4.7	-	-	5.1	4.7	-	201				
206		-	-	-	-	-	-	4.5	-	-	4.9	4.6	-	206				
211		-	-	-	-	-	-	-	-	-	4.8	-	-	211				
216		-	-	-	-	-	-	-	-	-	4.6	-	-	216				
221		-	-	-	-	-	-	-	-	-	4.5	-	-	221				

Operation

FOJ

 176,400 lbs				 30.55 ft x 27.2 ft				 23.3 ft + 75.1 ft				360°			ASME B30.5	
		156.2 ft			170.0 ft			183.8 ft			197.5 ft					
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°			
ft		1,000 lbs												ft		
41		14.1	-	-	-	-	-	-	-	-	-	-	-	-	41	
46		14.1	-	-	12.3	-	-	10.1	-	-	-	-	-	-	46	
51		14.1	-	-	12.3	-	-	10.8	-	-	-	-	-	-	51	
56		14.1	13.9	-	12.3	12.3	-	11.0	-	-	9.4	-	-	-	56	
61		14.1	13.6	-	12.3	12.3	-	11.0	11.0	-	9.4	9.4	-	-	61	
66		14.1	12.9	-	12.3	12.3	-	11.0	11.0	-	9.4	9.4	-	-	66	
71		14.1	12.3	-	12.3	12.1	-	11.0	11.0	-	9.4	9.4	-	-	71	
76		14.1	11.7	-	12.3	11.7	-	11.0	11.0	-	9.4	9.4	-	-	76	
81		14.1	11.2	8.8	12.3	11.2	8.7	11.0	10.9	-	9.4	9.4	-	-	81	
86		14.1	10.7	8.5	12.3	10.7	8.5	11.0	10.7	8.5	9.4	9.4	8.5	-	86	
91		14.1	10.4	8.2	12.3	10.4	8.2	11.0	10.4	8.2	9.4	9.4	8.2	-	91	
96		13.5	9.9	8.0	12.3	10.0	8.0	11.0	10.0	8.0	9.4	9.4	8.0	-	96	
101		12.8	9.5	7.7	12.3	9.7	7.7	11.0	9.7	7.8	9.4	9.4	7.8	-	101	
106		12.2	9.1	7.4	12.2	9.3	7.4	11.0	9.3	7.6	9.4	9.3	7.7	-	106	
111		11.5	8.8	7.2	11.9	9.0	7.2	11.0	9.0	7.2	9.4	9.0	7.4	-	111	
116		11.0	8.5	7.1	11.4	8.7	7.1	11.0	8.7	7.1	9.4	8.9	7.1	-	116	
121		10.5	8.1	6.9	10.9	8.3	6.9	11.0	8.4	6.9	9.4	8.6	6.9	-	121	
126		10.0	7.8	6.7	10.4	8.0	6.8	10.9	8.2	6.8	9.4	8.3	6.8	-	126	
131		9.7	7.4	6.3	9.9	7.7	6.6	10.3	7.9	6.6	9.4	8.1	6.8	-	131	
136		9.2	7.3	6.2	9.5	7.5	6.4	10.0	7.8	6.4	9.4	7.8	6.7	-	136	
141		8.8	7.1	6.1	9.2	7.2	6.2	9.6	7.5	6.2	9.4	7.6	6.5	-	141	
146		8.4	6.9	6.1	8.8	7.0	6.1	9.1	7.2	6.1	9.4	7.4	6.3	-	146	
151		8.1	6.6	5.9	8.3	6.8	5.9	8.8	7.0	6.1	9.2	7.2	6.1	-	151	
156		7.8	6.4	5.7	8.1	6.6	5.7	8.4	6.8	5.9	8.9	6.9	5.9	-	156	
161		7.4	6.2	5.6	7.9	6.4	5.7	8.1	6.7	5.8	8.5	6.7	5.9	-	161	
166		7.1	6.0	5.4	7.5	6.2	5.6	7.8	6.5	5.6	8.2	6.5	5.8	-	166	
171		6.8	5.9	5.2	7.2	6.1	5.5	7.7	6.3	5.5	7.9	6.3	5.7	-	171	
176		6.6	5.7	5.2	6.9	5.9	5.3	7.3	6.1	5.5	7.7	6.1	5.5	-	176	
181		6.3	5.6	5.1	6.7	5.8	5.2	7.1	6.0	5.3	7.4	6.0	5.5	-	181	
186		6.0	5.4	5.0	6.5	5.6	5.1	6.9	5.8	5.2	7.1	5.9	5.4	-	186	
191		5.9	5.2	5.0	6.3	5.5	5.0	6.6	5.7	5.2	7.0	5.9	5.2	-	191	
196		5.7	5.0	4.8	6.0	5.2	5.0	6.3	5.5	5.0	6.7	5.7	5.2	-	196	
201		5.6	4.9	-	5.8	5.1	4.9	6.2	5.3	5.0	6.4	5.6	5.1	-	201	
206		5.4	4.8	-	5.6	5.0	4.8	6.0	5.1	4.9	6.2	5.4	5.0	-	206	
211		5.2	4.8	-	5.5	5.0	-	5.9	5.0	-	6.1	5.2	5.0	-	211	
216		5.0	4.6	-	5.2	4.8	-	5.7	5.0	-	5.9	5.2	4.8	-	216	
221		4.9	4.5	-	5.1	4.7	-	5.6	4.9	-	5.8	5.1	4.8	-	221	
226		4.7	-	-	4.9	4.6	-	5.4	4.8	-	5.6	4.9	-	-	226	
231		4.6	-	-	4.8	4.6	-	5.2	4.8	-	5.4	4.8	-	-	231	
236		4.4	-	-	4.6	4.4	-	5.0	4.6	-	5.2	4.8	-	-	236	
241		-	-	-	4.6	-	-	4.9	4.5	-	5.1	4.7	-	-	241	
246		-	-	-	4.5	-	-	4.7	4.4	-	4.9	4.6	-	-	246	
251		-	-	-	-	-	-	4.5	-	-	4.8	4.5	-	-	251	
256		-	-	-	-	-	-	4.4	-	-	4.8	4.4	-	-	256	
261		-	-	-	-	-	-	4.4	-	-	4.3	4.4	-	-	261	
266		-	-	-	-	-	-	-	-	-	4.0	-	-	-	266	
271		-	-	-	-	-	-	-	-	-	3.8	-	-	-	271	

Operation

FOJ

 176,400 lbs				 30.55 ft x 27.2 ft				 23.3 ft + 75.1 ft				360°			ASME B30.5	
		211.3 ft			225.1 ft			238.9 ft			259.3 ft					
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°			
ft															1,000 lbs	ft
56		7.7	-	-	-	-	-	-	-	-	-	-	-	56		
61		8.3	-	-	7.2	-	-	6.1	-	-	-	-	-	61		
66		8.3	8.3	-	7.2	7.2	-	6.1	6.1	-	5.5	-	-	66		
71		8.3	8.3	-	7.2	7.2	-	6.1	6.1	-	5.5	-	-	71		
76		8.3	8.3	-	7.2	7.2	-	6.1	6.1	-	5.5	5.5	-	76		
81		8.3	8.3	-	7.2	7.2	-	6.1	6.1	-	5.5	5.5	-	81		
86		8.3	8.3	8.3	7.2	7.2	-	6.1	6.1	-	5.5	5.5	-	86		
91		8.3	8.3	8.1	7.2	7.2	-	6.1	6.1	-	5.5	5.5	-	91		
96		8.3	8.3	8.0	7.2	7.2	7.2	6.1	6.1	5.6	5.5	5.5	-	96		
101		8.3	8.3	7.8	7.2	7.2	7.2	6.1	6.1	5.4	5.5	5.5	5.1	101		
106		8.3	8.3	7.6	7.2	7.2	7.2	6.1	6.0	5.1	5.5	5.5	5.0	106		
111		8.3	8.3	7.2	7.2	7.2	7.2	6.1	5.7	4.8	5.5	5.5	4.8	111		
116		8.3	8.3	7.1	7.2	7.2	7.1	6.1	5.6	4.7	5.5	5.5	4.7	116		
121		8.3	8.3	7.0	7.2	7.2	7.0	6.1	5.4	4.5	5.5	5.4	4.5	121		
126		8.3	8.3	7.0	7.2	7.2	7.0	6.1	5.1	4.4	5.5	5.2	4.4	126		
131		8.3	8.1	6.8	7.2	7.2	6.8	5.9	4.8	4.4	5.5	5.0	4.4	131		
136		8.3	8.0	6.7	7.2	7.2	6.7	5.8	4.7	4.2	5.5	4.7	4.2	136		
141		8.3	7.7	6.5	7.2	7.2	6.5	5.5	4.5	4.0	5.5	4.5	4.0	141		
146		8.3	7.4	6.3	7.2	7.2	6.3	5.2	4.3	3.9	5.4	4.3	3.9	146		
151		8.3	7.2	6.1	7.2	7.2	6.1	5.0	4.1	3.7	5.2	4.1	3.7	151		
156		8.3	7.0	5.9	7.2	7.0	6.1	4.8	3.9	3.5	5.0	4.1	3.7	156		
161		8.3	6.9	5.9	7.2	6.9	6.0	4.6	3.8	3.5	4.8	4.0	3.6	161		
166		8.2	6.7	5.8	7.2	6.7	5.8	4.3	3.6	3.4	4.5	3.8	3.4	166		
171		8.1	6.6	5.7	7.2	6.6	5.7	4.1	3.5	3.3	4.4	3.7	3.3	171		
176		7.9	6.4	5.7	7.0	6.4	5.7	3.9	3.5	3.1	4.2	3.5	3.3	176		
181		7.6	6.2	5.6	6.8	6.3	5.6	3.8	3.4	3.0	4.0	3.4	3.1	181		
186		7.3	6.0	5.4	6.5	6.2	5.5	3.6	3.2	2.9	3.8	3.3	2.9	186		
191		7.2	5.9	5.2	6.3	6.1	5.5	3.5	3.0	2.8	3.7	3.3	2.8	191		
196		7.0	5.7	5.2	6.1	5.9	5.2	3.3	2.8	2.8	3.5	3.0	2.8	196		
201		6.7	5.7	5.1	6.0	5.8	5.2	3.1	2.8	2.7	3.5	2.9	2.7	201		
206		6.5	5.6	5.0	5.9	5.6	5.1	3.0	2.7	2.6	3.4	2.8	2.6	206		
211		6.3	5.5	5.0	5.9	5.5	5.0	3.0	2.6	2.6	3.3	2.8	2.6	211		
216		6.1	5.2	5.0	5.7	5.5	5.0	2.8	2.6	2.4	3.0	2.6	2.4	216		
221		6.0	5.2	4.9	5.6	5.3	4.9	2.7	2.5	2.4	2.9	2.6	2.4	221		
226		5.8	5.1	4.8	5.4	5.1	4.8	2.6	2.4	2.3	2.7	2.5	2.4	226		
231		5.6	5.0	4.8	5.2	5.0	4.8	2.6	2.4	2.2	2.6	2.4	2.4	231		
236		5.2	4.8	4.6	5.0	4.8	4.8	2.4	2.2	2.2	2.4	2.4	2.2	236		
241		4.9	4.8	-	4.9	4.8	-	2.3	2.2	-	2.3	2.3	2.2	241		
246		4.7	4.7	-	4.5	4.7	-	2.2	-	-	2.2	2.2	-	246		
251		4.5	4.5	-	4.0	4.5	-	-	-	-	-	-	-	251		
256		4.4	4.4	-	3.7	4.4	-	-	-	-	-	-	-	256		
261		4.2	4.2	-	3.2	4.0	-	-	-	-	-	-	-	261		
266		3.9	4.0	-	2.8	3.6	-	-	-	-	-	-	-	266		
271		3.6	3.8	-	2.5	3.2	-	-	-	-	-	-	-	271		
276		3.3	-	-	-	-	-	-	-	-	-	-	-	276		
281		2.9	-	-	-	-	-	-	-	-	-	-	-	281		
286		2.6	-	-	-	-	-	-	-	-	-	-	-	286		
289		2.4	-	-	-	-	-	-	-	-	-	-	-	289		

Operation



 109,400 lbs			 30.55 ft x 27.2 ft			 23.3 ft + 75.1 ft			360°			ASME B30.5		
		44.4 ft			58.2 ft			73.5 ft			87.3 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
1,000 lbs														
ft													ft	
17	23.3	-	-	23.3	-	-	-	-	-	-	-	-	17	
19	23.3	-	-	23.3	-	-	-	-	-	-	-	-	19	
21	23.3	-	-	23.3	-	-	23.3	-	-	-	-	-	21	
26	23.3	-	-	23.3	-	-	23.3	-	-	22.4	-	-	26	
31	23.2	-	-	23.3	-	-	23.3	-	-	22.4	-	-	31	
36	21.8	-	-	22.9	-	-	23.1	-	-	22.4	-	-	36	
41	19.2	15.5	-	21.2	16.3	-	22.0	16.7	-	22.1	17.0	-	41	
46	16.9	14.1	-	18.9	14.9	-	20.7	15.4	-	21.3	15.8	-	46	
51	15.2	12.9	-	17.4	13.6	-	18.8	14.2	-	20.0	14.6	-	51	
56	13.8	11.8	-	15.7	12.5	-	17.2	13.1	-	18.5	13.6	-	56	
61	12.5	10.9	9.6	14.2	11.6	-	15.8	12.2	-	17.1	12.7	-	61	
66	11.3	10.0	9.0	12.9	10.7	9.2	14.4	11.3	9.4	15.7	11.8	9.7	66	
71	10.5	9.4	8.4	11.9	10.1	8.6	13.3	10.5	8.9	14.4	11.2	9.1	71	
76	9.7	8.7	7.9	10.8	9.4	8.1	12.2	9.8	8.5	13.3	10.5	8.6	76	
81	8.9	8.1	7.5	10.0	8.8	7.7	11.2	9.2	8.1	12.3	9.8	8.2	81	
86	8.2	7.6	7.1	9.3	8.2	7.4	10.4	8.7	7.6	11.5	9.2	7.8	86	
91	7.5	7.1	6.7	8.6	7.8	7.1	9.8	8.2	7.3	10.7	8.9	7.5	91	
96	7.0	6.7	6.3	8.1	7.3	6.7	9.1	7.8	6.9	10.0	8.4	7.1	96	
101	6.6	6.3	5.9	7.6	6.8	6.4	8.5	7.4	6.6	9.4	7.8	6.9	101	
106	6.2	5.8	5.7	7.1	6.5	6.0	8.0	6.9	6.3	8.9	7.3	6.7	106	
111	5.7	5.5	5.5	6.6	6.1	5.7	7.5	6.6	6.1	8.4	7.0	6.3	111	
116	5.4	5.3	5.2	6.3	5.8	5.6	7.0	6.3	5.8	7.9	6.7	6.2	116	
121	5.0	5.0	-	5.9	5.5	5.4	6.6	6.0	5.6	7.4	6.5	5.9	121	
126	4.8	-	-	5.6	5.2	5.1	6.2	5.8	5.4	6.9	6.2	5.7	126	
131	4.6	-	-	5.2	5.0	4.8	5.9	5.5	5.2	6.6	5.9	5.5	131	
136	-	-	-	4.9	4.9	-	5.6	5.3	5.1	6.2	5.8	5.3	136	
141	-	-	-	4.7	4.6	-	5.4	5.0	-	5.9	5.5	5.1	141	
146	-	-	-	-	-	-	5.1	4.8	-	5.7	5.2	5.0	146	
151	-	-	-	-	-	-	4.8	4.6	-	5.5	5.0	-	151	
156	-	-	-	-	-	-	4.6	4.4	-	5.1	4.8	-	156	
161	-	-	-	-	-	-	-	-	-	4.9	4.7	-	161	
166	-	-	-	-	-	-	-	-	-	4.7	4.5	-	166	

Operation



 109,400 lbs				 30.55 ft x 27.2 ft				 23.3 ft + 75.1 ft				360°			ASME B30.5		
		101.1 ft			114.9 ft			128.6 ft			142.4 ft						
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°				
ft															1,000 lbs		ft
31		19.6	-	-	18.5	-	-	17.0	-	-	-	-	-	31			
36		19.6	-	-	18.5	-	-	17.6	-	-	15.6	-	-	36			
41		19.6	-	-	18.5	-	-	17.6	-	-	15.6	-	-	41			
46		19.6	16.0	-	18.5	16.3	-	17.6	16.0	-	15.6	-	-	46			
51		19.6	15.0	-	18.5	15.2	-	17.6	15.2	-	15.6	-	-	51			
56		19.1	14.0	-	18.5	14.2	-	17.6	14.3	-	15.6	14.3	-	56			
61		18.2	13.1	-	18.3	13.3	-	17.6	13.6	-	15.6	13.6	-	61			
66		16.8	12.2	9.7	17.7	12.6	-	17.6	12.9	-	15.6	12.9	-	66			
71		15.5	11.6	9.3	16.6	11.8	-	17.0	12.3	-	15.6	12.3	-	71			
76		14.4	10.9	8.8	15.4	11.2	9.0	16.1	11.6	9.0	15.6	11.7	9.0	76			
81		13.3	10.2	8.4	14.3	10.7	8.6	15.1	11.0	8.6	15.4	11.1	8.7	81			
86		12.4	9.6	8.1	13.5	10.0	8.3	14.2	10.4	8.3	14.8	10.5	8.5	86			
91		11.6	9.3	7.8	12.5	9.5	8.0	13.4	10.0	8.0	13.8	10.2	8.2	91			
96		10.8	8.8	7.4	11.7	9.1	7.6	12.5	9.5	7.8	13.0	9.7	7.8	96			
101		10.2	8.3	7.1	11.0	8.7	7.3	11.7	9.0	7.5	12.4	9.2	7.6	101			
106		9.6	7.8	6.9	10.4	8.2	7.1	11.1	8.7	7.2	11.8	8.9	7.3	106			
111		9.1	7.4	6.6	9.8	7.9	6.8	10.6	8.3	7.0	11.1	8.5	7.0	111			
116		8.5	7.1	6.4	9.2	7.6	6.7	10.0	8.0	6.9	10.5	8.2	6.9	116			
121		8.0	6.9	6.1	8.8	7.2	6.4	9.4	7.7	6.6	10.0	7.9	6.7	121			
126		7.6	6.7	5.9	8.4	7.0	6.1	8.9	7.3	6.3	9.6	7.6	6.5	126			
131		7.2	6.3	5.7	7.9	6.8	5.9	8.5	7.0	6.1	9.0	7.2	6.3	131			
136		6.9	6.0	5.6	7.5	6.4	5.8	8.2	6.9	6.0	8.6	7.1	6.2	136			
141		6.6	5.8	5.4	7.2	6.2	5.6	7.8	6.6	5.8	8.3	6.8	6.0	141			
146		6.2	5.7	5.2	6.9	6.0	5.4	7.3	6.3	5.7	8.0	6.5	5.9	146			
151		5.9	5.5	5.0	6.6	5.7	5.2	7.0	6.1	5.5	7.7	6.3	5.7	151			
156		5.7	5.3	5.0	6.2	5.5	5.2	6.8	5.9	5.3	7.3	6.1	5.5	156			
161		5.4	5.0	-	6.0	5.3	5.1	6.5	5.7	5.2	7.0	6.0	5.3	161			
166		5.1	4.7	-	5.8	5.1	4.9	6.2	5.4	5.1	6.6	5.8	5.2	166			
171		5.0	4.6	-	5.5	5.0	-	5.9	5.2	5.0	6.3	5.7	5.2	171			
176		4.7	4.6	-	5.3	4.8	-	5.7	5.0	4.8	6.1	5.5	5.0	176			
181		4.5	-	-	5.0	4.7	-	5.6	5.0	-	6.0	5.3	4.9	181			
186		-	-	-	4.7	4.5	-	5.3	4.9	-	5.8	5.1	4.8	186			
191		-	-	-	4.6	-	-	5.0	4.8	-	5.5	5.0	-	191			
196		-	-	-	4.4	-	-	4.8	4.6	-	5.2	4.8	-	196			
201		-	-	-	-	-	-	4.7	-	-	5.1	4.7	-	201			
206		-	-	-	-	-	-	4.5	-	-	4.9	4.6	-	206			
211		-	-	-	-	-	-	-	-	-	4.8	-	-	211			
216		-	-	-	-	-	-	-	-	-	4.6	-	-	216			
221		-	-	-	-	-	-	-	-	-	4.5	-	-	221			
226		-	-	-	-	-	-	-	-	-	-	-	-	226			
231		-	-	-	-	-	-	-	-	-	-	-	-	231			
236		-	-	-	-	-	-	-	-	-	-	-	-	236			

Operation



 109,400 lbs				 30.55 ft x 27.2 ft			 23.3 ft + 75.1 ft			360°			ASME B30.5																	
		156.2 ft			170.0 ft			183.8 ft			197.5 ft																			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°																	
ft															1,000 lbs	ft														
41		14.1	-	-	-	-	-	-	-	-	-	-	-	-	41															
46		14.1	-	-	12.3	-	-	10.1	-	-	-	-	-	-	46															
51		14.1	-	-	12.3	-	-	10.8	-	-	-	-	-	-	51															
56		14.1	13.9	-	12.3	12.3	-	11.0	-	-	-	9.4	-	-	56															
61		14.1	13.6	-	12.3	12.3	-	11.0	11.0	-	-	9.4	9.4	-	61															
66		14.1	12.9	-	12.3	12.3	-	11.0	11.0	-	-	9.4	9.4	-	66															
71		14.1	12.3	-	12.3	12.1	-	11.0	11.0	-	-	9.4	9.4	-	71															
76		14.1	11.7	-	12.3	11.7	-	11.0	11.0	-	-	9.4	9.4	-	76															
81		14.1	11.2	8.8	12.3	11.2	8.7	11.0	10.9	-	-	9.4	9.4	-	81															
86		14.1	10.7	8.5	12.3	10.7	8.5	11.0	10.7	8.5	-	9.4	9.4	8.5	86															
91		14.1	10.4	8.2	12.3	10.4	8.2	11.0	10.4	8.2	-	9.4	9.4	8.2	91															
96		13.5	9.9	8.0	12.3	10.0	8.0	11.0	10.0	8.0	-	9.4	9.4	8.0	96															
101		12.8	9.5	7.7	12.3	9.7	7.7	11.0	9.7	7.8	-	9.4	9.4	7.8	101															
106		12.2	9.1	7.4	12.2	9.3	7.4	11.0	9.3	7.6	-	9.4	9.3	7.7	106															
111		11.5	8.8	7.2	11.9	9.0	7.2	11.0	9.0	7.2	-	9.4	9.0	7.4	111															
116		11.0	8.5	7.1	11.4	8.7	7.1	11.0	8.7	7.1	-	9.4	8.9	7.1	116															
121		10.5	8.1	6.9	10.9	8.3	6.9	11.0	8.4	6.9	-	9.4	8.6	6.9	121															
126		10.0	7.8	6.7	10.4	8.0	6.8	10.9	8.2	6.8	-	9.4	8.3	6.8	126															
131		9.7	7.4	6.3	9.9	7.7	6.6	10.3	7.9	6.6	-	9.4	8.1	6.8	131															
136		9.2	7.3	6.2	9.5	7.5	6.4	10.0	7.8	6.4	-	9.4	7.8	6.7	136															
141		8.8	7.1	6.1	9.2	7.2	6.2	9.6	7.5	6.2	-	9.4	7.6	6.5	141															
146		8.4	6.9	6.1	8.8	7.0	6.1	9.1	7.2	6.1	-	9.4	7.4	6.3	146															
151		8.1	6.6	5.9	8.3	6.8	5.9	8.8	7.0	6.1	-	9.2	7.2	6.1	151															
156		7.8	6.4	5.7	8.1	6.6	5.7	8.4	6.8	5.9	-	8.9	6.9	5.9	156															
161		7.4	6.2	5.6	7.9	6.4	5.7	8.1	6.7	5.8	-	8.5	6.7	5.9	161															
166		7.1	6.0	5.4	7.5	6.2	5.6	7.8	6.5	5.6	-	8.1	6.5	5.8	166															
171		6.8	5.9	5.2	7.2	6.1	5.5	7.7	6.3	5.5	-	7.6	6.3	5.7	171															
176		6.6	5.7	5.2	6.9	5.9	5.3	7.3	6.1	5.5	-	7.0	6.1	5.5	176															
181		6.3	5.6	5.1	6.7	5.8	5.2	7.0	6.0	5.3	-	6.7	6.0	5.5	181															
186		6.0	5.4	5.0	6.5	5.6	5.1	6.6	5.8	5.2	-	6.4	5.8	5.4	186															
191		5.9	5.2	5.0	6.3	5.5	5.0	6.3	5.7	5.2	-	6.0	5.7	5.2	191															
196		5.7	5.0	4.8	6.0	5.2	5.0	6.0	5.5	5.0	-	5.3	5.7	5.2	196															
201		5.6	4.9	-	5.8	5.1	4.9	5.8	5.3	5.0	-	4.8	5.6	5.1	201															
206		5.3	4.8	-	5.5	5.0	4.8	5.4	5.1	4.9	-	4.3	5.3	5.0	206															
211		5.0	4.8	-	5.2	5.0	-	4.9	5.0	-	-	3.8	4.9	5.0	211															
216		4.8	4.6	-	5.0	4.8	-	4.4	5.0	-	-	3.3	4.4	4.8	216															
221		4.7	4.5	-	4.7	4.7	-	3.9	4.7	-	-	3.0	3.9	4.5	221															
226		4.5	-	-	4.4	4.6	-	3.5	4.3	-	-	2.5	3.4	-	226															
231		4.3	-	-	4.0	4.5	-	3.2	3.8	-	-	-	2.9	-	231															
236		4.1	-	-	3.5	4.1	-	2.8	3.5	-	-	-	2.6	-	236															
241		-	-	-	3.1	-	-	2.4	3.0	-	-	-	-	-	241															
246		-	-	-	2.8	-	-	-	2.6	-	-	-	-	-	246															
249		-	-	-	2.6	-	-	-	2.4	-	-	-	-	-	249															

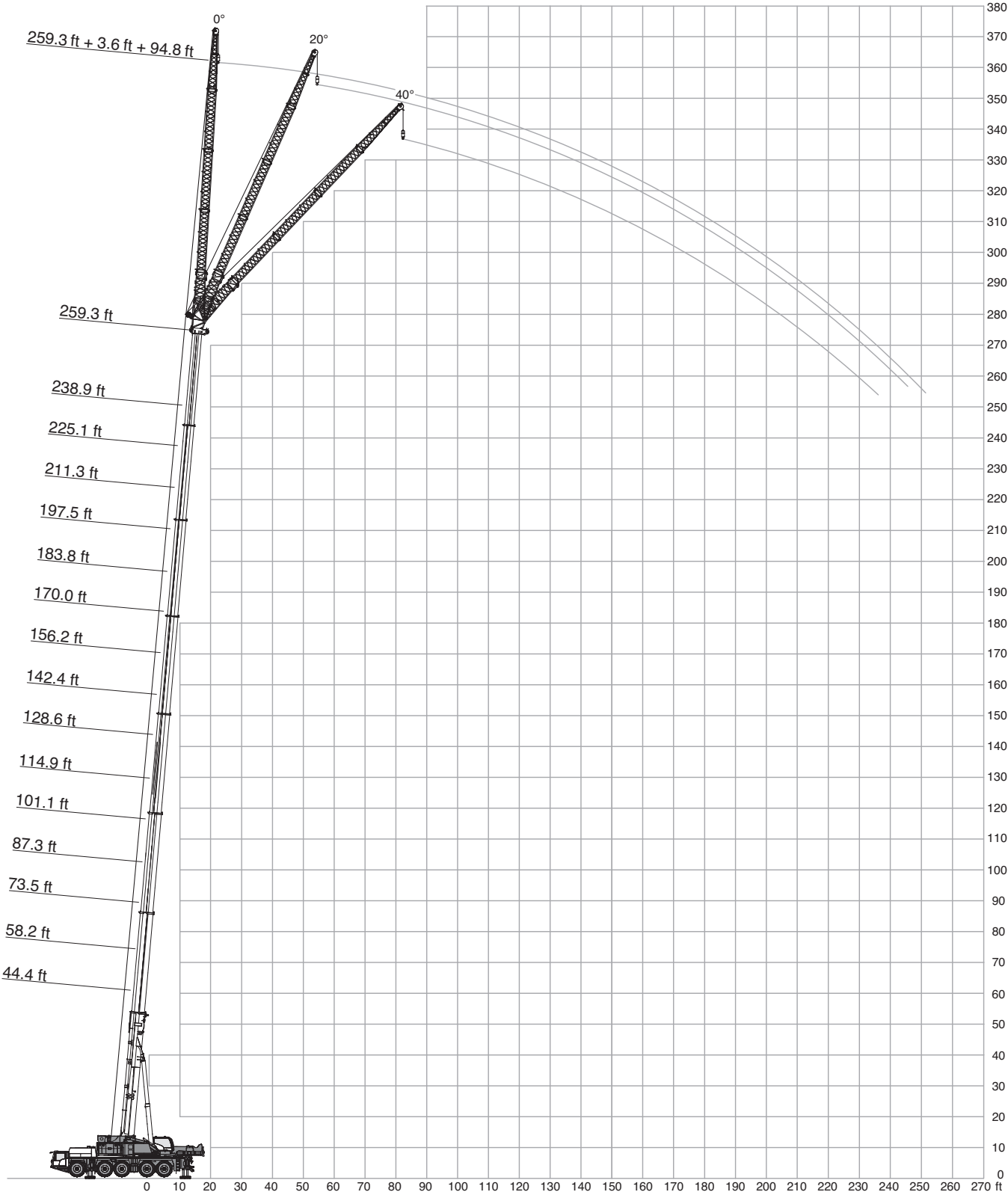
Operation



 109,400 lbs				 30.55 ft x 27.2 ft			 23.3 ft + 75.1 ft			360°			ASME B30.5	
		211.3 ft			225.1 ft			238.9 ft			259.3 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft														ft
1,000 lbs														
56	7.7	-	-	-	-	-	-	-	-	-	-	-	-	56
61	8.3	-	-	-	7.2	-	-	6.1	-	-	-	-	-	61
66	8.3	8.3	-	-	7.2	7.2	-	6.1	6.1	-	5.5	-	-	66
71	8.3	8.3	-	-	7.2	7.2	-	6.1	6.1	-	5.5	-	-	71
76	8.3	8.3	-	-	7.2	7.2	-	6.1	6.1	-	5.5	5.5	-	76
81	8.3	8.3	-	-	7.2	7.2	-	6.1	6.1	-	5.5	5.5	-	81
86	8.3	8.3	8.3	-	7.2	7.2	-	6.1	6.1	-	5.5	5.5	-	86
91	8.3	8.3	8.1	-	7.2	7.2	-	6.1	6.1	-	5.5	5.5	-	91
96	8.3	8.3	8.0	-	7.2	7.2	7.2	6.1	6.1	5.6	5.5	5.5	-	96
101	8.3	8.3	7.8	-	7.2	7.2	7.2	6.1	6.1	5.4	5.5	5.5	5.1	101
106	8.3	8.3	7.6	-	7.2	7.2	7.2	6.1	6.0	5.1	5.5	5.5	5.0	106
111	8.3	8.3	7.2	-	7.2	7.2	7.2	6.1	5.7	4.8	5.5	5.5	4.8	111
116	8.3	8.3	7.1	-	7.2	7.2	7.1	6.1	5.6	4.7	5.5	5.5	4.7	116
121	8.3	8.3	7.0	-	7.2	7.2	7.0	6.1	5.4	4.5	5.5	5.4	4.5	121
126	8.3	8.3	7.0	-	7.2	7.2	7.0	6.1	5.1	4.4	5.5	5.2	4.4	126
131	8.3	8.1	6.8	-	7.2	7.2	6.8	5.9	4.8	4.4	5.5	5.0	4.4	131
136	8.3	8.0	6.7	-	7.2	7.2	6.7	5.8	4.7	4.2	5.5	4.7	4.2	136
141	8.3	7.7	6.5	-	7.2	7.2	6.5	5.5	4.5	4.0	5.5	4.5	4.0	141
146	8.3	7.4	6.3	-	7.2	7.2	6.3	5.2	4.3	3.9	5.4	4.3	3.9	146
151	8.3	7.2	6.1	-	7.2	7.2	6.1	5.0	4.1	3.7	5.2	4.1	3.7	151
156	8.3	7.0	5.9	-	7.2	7.0	6.1	4.8	3.9	3.5	5.0	4.1	3.7	156
161	8.0	6.9	5.9	-	7.2	6.9	6.0	4.6	3.8	3.5	4.8	4.0	3.6	161
166	7.5	6.7	5.8	-	7.0	6.7	5.8	4.3	3.6	3.4	4.5	3.8	3.4	166
171	7.2	6.6	5.7	-	6.5	6.6	5.7	4.1	3.5	3.3	4.4	3.7	3.3	171
176	6.9	6.4	5.7	-	5.9	6.4	5.7	3.9	3.5	3.1	4.2	3.5	3.3	176
181	6.3	6.2	5.6	-	5.2	6.3	5.6	3.8	3.4	3.0	4.0	3.4	3.1	181
186	5.6	6.0	5.4	-	4.5	6.1	5.5	3.6	3.2	2.9	3.8	3.3	2.9	186
191	4.9	5.9	5.2	-	3.8	5.6	5.5	3.5	3.0	2.8	3.6	3.3	2.8	191
196	4.5	5.7	5.2	-	3.4	4.9	5.2	3.3	2.8	2.8	3.1	3.0	2.8	196
201	4.0	5.3	5.1	-	3.1	4.2	5.1	3.0	2.8	2.7	2.6	2.9	2.7	201
206	3.4	4.8	5.0	-	2.9	3.7	4.8	2.6	2.7	2.6	-	2.8	2.6	206
211	2.9	4.3	4.9	-	2.8	3.2	4.3	-	2.6	2.6	-	2.8	2.6	211
216	2.4	3.6	4.4	-	2.6	2.7	3.6	-	2.6	2.4	-	2.6	2.4	216
221	2.4	3.0	3.9	-	2.3	2.5	3.0	-	2.5	2.4	-	-	2.4	221
226	2.3	2.6	3.4	-	-	2.3	2.5	-	-	2.3	-	-	2.3	226
231	-	-	2.9	-	-	2.2	-	-	-	-	-	-	-	231
236	-	-	2.4	-	-	2.2	-	-	-	-	-	-	-	236

Operation

FOJ



Operation



 176,400 lbs				 30.55 ft x 27.2 ft				 3.6 ft + 94.8 ft				360°			ASME B30.5																
		44.4 ft			58.2 ft			73.5 ft			87.3 ft																				
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°																		
ft															1,000 lbs		ft														
17		18.9	-	-	-	-	-	-	-	-	-	-	-	-	17																
19		18.9	-	-	-	-	-	-	-	-	-	-	-	-	19																
21		18.9	-	-	18.7	-	-	19.1	-	-	-	-	-	-	21																
26		18.5	-	-	18.7	-	-	18.9	-	-	18.2	-	-	-	26																
31		17.3	-	-	17.7	-	-	17.9	-	-	17.9	-	-	-	31																
36		16.3	-	-	16.7	-	-	17.1	-	-	17.1	-	-	-	36																
41		15.3	-	-	16.0	-	-	16.2	-	-	16.4	-	-	-	41																
46		14.5	12.5	-	14.9	12.7	-	15.4	12.7	-	15.6	12.1	-	-	46																
51		13.7	11.8	-	14.3	11.9	-	14.7	12.1	-	14.9	11.9	-	-	51																
56		12.8	11.0	-	13.6	11.3	-	14.0	11.5	-	14.2	11.5	-	-	56																
61		12.0	10.3	-	12.9	10.7	-	13.3	10.9	-	13.6	11.0	-	-	61																
66		11.3	9.6	-	12.2	10.0	-	12.7	10.3	-	13.2	10.5	-	-	66																
71		10.7	9.0	-	11.6	9.4	-	12.2	9.8	-	12.6	10.0	-	-	71																
76		9.9	8.4	-	10.9	8.8	-	11.6	9.3	-	12.1	9.6	-	-	76																
81		9.1	7.9	6.8	10.2	8.3	6.9	11.0	8.8	7.1	11.7	9.2	7.1	-	81																
86		8.4	7.3	6.3	9.6	7.8	6.6	10.4	8.2	6.7	11.1	8.7	6.8	-	86																
91		7.8	6.9	6.1	8.9	7.3	6.3	10.0	7.8	6.4	10.6	8.2	6.6	-	91																
96		7.3	6.5	5.8	8.4	6.9	6.0	9.3	7.4	6.2	10.1	7.8	6.3	-	96																
101		6.8	6.1	5.6	7.8	6.6	5.8	8.7	7.0	5.9	9.6	7.5	6.0	-	101																
106		6.5	5.8	5.4	7.3	6.2	5.6	8.2	6.7	5.7	9.1	7.1	5.9	-	106																
111		6.0	5.5	5.0	6.8	5.9	5.2	7.7	6.3	5.5	8.6	6.8	5.7	-	111																
116		5.6	5.3	4.9	6.5	5.8	5.1	7.2	6.2	5.3	8.1	6.5	5.6	-	116																
121		5.3	5.0	4.7	6.1	5.5	4.9	6.8	5.9	5.1	7.6	6.2	5.4	-	121																
126		4.9	4.8	-	5.8	5.2	4.8	6.5	5.7	5.0	7.1	6.0	5.2	-	126																
131		4.6	4.6	-	5.5	5.0	4.8	6.1	5.5	4.8	6.8	5.7	5.0	-	131																
136		-	-	-	5.1	4.9	-	5.8	5.3	4.8	6.4	5.6	4.9	-	136																
141		-	-	-	4.8	4.7	-	5.5	5.0	4.7	6.1	5.4	4.8	-	141																
146		-	-	-	-	-	-	5.2	4.8	-	5.9	5.2	4.8	-	146																
151		-	-	-	-	-	-	5.0	4.6	-	5.7	5.0	-	-	151																
156		-	-	-	-	-	-	4.7	4.6	-	5.3	4.8	-	-	156																
161		-	-	-	-	-	-	-	-	-	5.1	4.7	-	-	161																
166		-	-	-	-	-	-	-	-	-	4.9	4.6	-	-	166																

Operation



 176,400 lbs		 30.55 ft x 27.2 ft			 3.6 ft + 94.8 ft			360°			ASME B30.5			
 ft		101.1 ft			114.9 ft			128.6 ft			142.4 ft			 ft
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
1,000 lbs														
31		17.8	-	-	17.1	-	-	15.7	-	-	-	-	-	31
36		17.1	-	-	16.7	-	-	16.3	-	-	14.5	-	-	36
41		16.5	-	-	16.3	-	-	15.9	-	-	14.5	-	-	41
46		15.8	-	-	15.6	-	-	15.4	-	-	14.5	-	-	46
51		15.1	-	-	15.1	-	-	14.9	-	-	14.3	-	-	51
56		14.5	11.5	-	14.6	11.4	-	14.4	11.0	-	14.0	-	-	56
61		13.9	11.0	-	14.0	11.0	-	13.9	10.9	-	13.6	10.7	-	61
66		13.4	10.5	-	13.4	10.5	-	13.4	10.5	-	13.2	10.3	-	66
71		12.8	10.2	-	13.1	10.2	-	13.1	10.2	-	12.8	10.0	-	71
76		12.3	9.9	-	12.6	9.9	-	12.6	9.9	-	12.5	9.8	-	76
81		11.9	9.5	7.1	12.1	9.5	-	12.2	9.5	-	12.1	9.5	-	81
86		11.4	8.9	7.0	11.6	9.2	7.0	11.8	9.2	7.0	11.6	9.2	7.0	86
91		11.1	8.6	6.7	11.3	8.9	6.8	11.5	8.9	6.8	11.3	8.9	6.8	91
96		10.6	8.2	6.4	10.9	8.5	6.5	11.1	8.6	6.7	10.9	8.6	6.7	96
101		10.1	7.8	6.2	10.5	8.1	6.2	10.8	8.3	6.5	10.7	8.3	6.5	101
106		9.8	7.4	6.1	10.0	7.8	6.1	10.4	8.0	6.3	10.4	8.1	6.3	106
111		9.3	7.2	5.9	9.7	7.4	5.9	10.1	7.7	6.1	10.1	7.9	6.1	111
116		8.7	6.9	5.8	9.4	7.1	5.8	9.8	7.5	6.0	9.8	7.6	6.0	116
121		8.3	6.6	5.6	9.0	6.9	5.6	9.5	7.2	5.8	9.5	7.3	5.8	121
126		8.0	6.3	5.4	8.7	6.7	5.4	9.1	7.0	5.7	9.2	7.1	5.7	126
131		7.4	6.1	5.2	8.1	6.3	5.2	8.8	6.8	5.5	9.0	6.8	5.5	131
136		7.1	6.0	5.1	7.8	6.2	5.2	8.4	6.4	5.3	8.6	6.7	5.5	136
141		6.8	5.7	4.9	7.5	6.0	5.1	8.0	6.2	5.2	8.3	6.5	5.4	141
146		6.5	5.4	4.8	7.1	5.9	5.0	7.6	6.1	5.2	8.0	6.3	5.2	146
151		6.1	5.2	4.8	6.8	5.7	4.8	7.2	5.9	5.0	7.7	6.1	5.0	151
156		5.9	5.0	4.6	6.4	5.5	4.8	7.0	5.7	4.8	7.5	5.9	5.0	156
161		5.7	4.9	4.6	6.2	5.3	4.7	6.8	5.6	4.8	7.2	5.8	4.9	161
166		5.4	4.8	-	6.0	5.1	4.6	6.4	5.4	4.7	6.9	5.6	4.8	166
171		5.2	4.8	-	5.7	5.0	-	6.1	5.2	4.6	6.6	5.5	4.8	171
176		5.0	4.6	-	5.5	4.8	-	5.9	5.0	4.6	6.4	5.3	4.6	176
181		4.8	4.5	-	5.3	4.7	-	5.8	4.9	4.6	6.2	5.1	4.6	181
186		-	-	-	5.1	4.6	-	5.5	4.8	-	6.0	5.0	4.6	186
191		-	-	-	4.8	-	-	5.2	4.8	-	5.7	5.0	-	191
196		-	-	-	4.6	-	-	5.0	4.6	-	5.5	4.8	-	196
201		-	-	-	-	-	-	4.9	-	-	5.3	4.7	-	201
206		-	-	-	-	-	-	4.7	-	-	5.1	4.6	-	206
211		-	-	-	-	-	-	-	-	-	5.0	-	-	211
216		-	-	-	-	-	-	-	-	-	4.8	-	-	216
221		-	-	-	-	-	-	-	-	-	4.7	-	-	221

Operation

FOJ

 176,400 lbs				 30.55 ft x 27.2 ft			 3.6 ft + 94.8 ft			360°			ASME B30.5	
		156.2 ft			170.0 ft			183.8 ft			197.5 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs												ft
41		13.2	-	-	9.9	-	-	-	-	-	-	-	-	41
46		13.2	-	-	11.6	-	-	10.3	-	-	-	-	-	46
51		13.2	-	-	11.6	-	-	10.3	-	-	-	-	-	51
56		13.2	-	-	11.6	-	-	10.3	-	-	9.0	-	-	56
61		13.1	10.4	-	11.6	9.5	-	10.3	-	-	9.0	-	-	61
66		12.7	10.1	-	11.6	9.9	-	10.3	9.4	-	9.0	9.0	-	66
71		12.4	9.8	-	11.6	9.5	-	10.3	9.2	-	9.0	8.8	-	71
76		12.1	9.5	-	11.5	9.3	-	10.3	9.0	-	9.0	8.6	-	76
81		11.7	9.3	-	11.3	9.1	-	10.3	8.7	-	9.0	8.4	-	81
86		11.4	9.0	-	11.2	8.8	-	10.3	8.5	-	9.0	8.3	-	86
91		11.2	8.8	-	10.9	8.5	-	10.3	8.3	-	9.0	8.1	-	91
96		10.9	8.6	6.7	10.6	8.4	6.7	10.2	8.2	-	9.0	8.0	-	96
101		10.6	8.3	6.5	10.3	8.2	6.5	10.0	8.0	6.5	9.0	7.8	6.5	101
106		10.3	8.1	6.3	10.1	8.1	6.3	9.8	7.9	6.3	9.0	7.7	6.3	106
111		10.1	7.9	6.1	9.9	7.9	6.1	9.4	7.7	6.1	9.0	7.4	6.1	111
116		9.8	7.8	6.0	9.6	7.8	6.0	9.3	7.5	6.0	8.9	7.3	6.0	116
121		9.6	7.5	5.8	9.3	7.6	5.9	9.1	7.3	5.9	8.7	7.2	5.9	121
126		9.3	7.2	5.7	9.2	7.4	5.9	9.0	7.2	5.9	8.5	7.2	5.9	126
131		9.0	7.0	5.7	9.0	7.2	5.7	8.8	7.0	5.7	8.5	7.0	5.7	131
136		8.9	6.9	5.6	8.9	7.1	5.6	8.6	6.9	5.6	8.4	6.9	5.6	136
141		8.7	6.7	5.4	8.7	6.8	5.5	8.4	6.8	5.5	8.2	6.7	5.5	141
146		8.4	6.5	5.2	8.4	6.5	5.4	8.3	6.8	5.4	8.1	6.5	5.4	146
151		8.1	6.3	5.2	8.1	6.3	5.2	8.1	6.6	5.2	7.9	6.3	5.2	151
156		7.9	6.1	5.0	7.9	6.1	5.0	7.9	6.4	5.2	7.7	6.3	5.2	156
161		7.6	6.0	5.0	7.8	6.0	5.0	7.8	6.2	5.1	7.5	6.2	5.1	161
166		7.3	5.8	4.9	7.6	5.9	4.9	7.6	6.0	5.0	7.4	6.1	5.0	166
171		7.0	5.7	4.8	7.4	5.9	4.8	7.4	5.9	5.0	7.4	6.1	5.0	171
176		6.8	5.5	4.8	7.1	5.7	4.8	7.2	5.7	4.8	7.2	5.9	4.8	176
181		6.5	5.3	4.7	6.9	5.6	4.8	7.1	5.7	4.8	7.1	5.8	4.8	181
186		6.2	5.2	4.6	6.7	5.4	4.7	6.9	5.6	4.8	6.9	5.6	4.8	186
191		6.1	5.2	4.6	6.5	5.2	4.6	6.8	5.5	4.8	6.8	5.5	4.8	191
196		5.9	5.0	4.6	6.2	5.2	4.6	6.6	5.2	4.6	6.8	5.5	4.6	196
201		5.8	4.9	-	6.0	5.1	4.6	6.4	5.2	4.6	6.7	5.3	4.6	201
206		5.6	4.8	-	5.8	4.9	4.5	6.2	5.1	4.6	6.5	5.2	4.6	206
211		5.5	4.8	-	5.7	4.8	-	6.1	5.0	4.6	6.3	5.2	4.6	211
216		5.2	4.6	-	5.5	4.8	-	5.9	4.8	4.4	6.1	5.0	4.6	216
221		5.1	4.6	-	5.3	4.7	-	5.8	4.8	4.4	6.0	4.9	4.5	221
226		4.9	-	-	5.1	4.6	-	5.6	4.7	-	5.8	4.8	-	226
231		4.8	-	-	5.0	4.6	-	5.4	4.6	-	5.7	4.8	-	231
236		4.6	-	-	4.8	4.4	-	5.2	4.6	-	5.5	4.8	-	236
241		-	-	-	4.8	-	-	5.1	4.6	-	5.3	4.7	-	241
246		-	-	-	4.7	-	-	4.9	4.5	-	5.1	4.6	-	246
251		-	-	-	-	-	-	4.7	-	-	5.0	4.5	-	251
256		-	-	-	-	-	-	4.6	-	-	5.0	4.4	-	256
261		-	-	-	-	-	-	4.6	-	-	4.5	4.4	-	261
266		-	-	-	-	-	-	-	-	-	4.3	-	-	266
271		-	-	-	-	-	-	-	-	-	4.1	-	-	271

Operation

FOJ

 176,400 lbs			 30.55 ft x 27.2 ft			 3.6 ft + 94.8 ft			360°			ASME B30.5		
		211.3 ft			225.1 ft			238.9 ft			259.3 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs												ft
56		7.8	-	-	-	-	-	-	-	-	-	-	-	56
61		7.9	-	-	6.8	-	-	-	-	-	-	-	-	61
66		7.9	-	-	6.8	-	-	5.9	-	-	5.2	-	-	66
71		7.9	-	-	6.8	-	-	5.9	-	-	5.2	-	-	71
76		7.9	7.9	-	6.8	6.8	-	5.9	-	-	5.2	-	-	76
81		7.9	7.9	-	6.8	6.8	-	5.9	5.9	-	5.2	-	-	81
86		7.9	7.9	-	6.8	6.8	-	5.9	5.9	-	5.2	5.2	-	86
91		7.9	7.7	-	6.8	6.8	-	5.9	5.9	-	5.2	5.2	-	91
96		7.9	7.5	-	6.8	6.8	-	5.9	5.9	-	5.2	5.2	-	96
101		7.9	7.3	-	6.8	6.8	-	5.9	5.7	-	5.2	5.2	-	101
106		7.9	7.2	6.3	6.8	6.8	6.3	5.9	5.5	-	5.2	5.2	-	106
111		7.9	7.2	6.1	6.8	6.8	6.1	5.9	5.2	-	5.2	5.2	-	111
116		7.9	7.1	6.0	6.8	6.7	6.0	5.9	5.1	4.1	5.2	5.1	-	116
121		7.9	6.9	5.9	6.8	6.6	5.9	5.9	4.9	4.0	5.2	4.9	3.9	121
126		7.9	6.8	5.9	6.8	6.5	5.9	5.9	4.8	3.9	5.2	4.8	3.9	126
131		7.9	6.8	5.7	6.8	6.3	5.7	5.9	4.6	3.7	5.2	4.6	3.7	131
136		7.9	6.7	5.7	6.8	6.3	5.6	5.8	4.5	3.6	5.2	4.5	3.6	136
141		7.8	6.5	5.6	6.8	6.2	5.5	5.6	4.3	3.5	5.2	4.3	3.5	141
146		7.7	6.3	5.4	6.8	6.1	5.4	5.4	4.1	3.5	5.2	4.1	3.5	146
151		7.7	6.3	5.2	6.8	6.1	5.2	5.2	3.9	3.3	5.2	3.9	3.3	151
156		7.5	6.1	5.2	6.8	5.9	5.2	4.9	3.7	3.3	5.0	3.9	3.3	156
161		7.3	6.1	5.1	6.8	5.9	5.2	4.7	3.6	3.1	4.9	3.8	3.1	161
166		7.1	6.0	5.0	6.8	5.8	5.1	4.5	3.5	2.9	4.7	3.6	3.0	166
171		7.0	5.9	5.0	6.8	5.7	5.0	4.4	3.5	2.8	4.6	3.5	3.0	171
176		7.0	5.7	5.0	6.6	5.7	5.0	4.2	3.3	2.8	4.4	3.3	2.8	176
181		6.9	5.7	4.9	6.6	5.6	4.9	4.0	3.1	2.7	4.2	3.3	2.8	181
186		6.8	5.6	4.8	6.5	5.5	4.8	3.8	3.0	2.6	4.0	3.2	2.7	186
191		6.8	5.5	4.8	6.3	5.5	4.8	3.7	3.0	2.6	3.9	3.0	2.6	191
196		6.6	5.5	4.8	6.1	5.2	4.8	3.5	2.8	2.6	3.7	3.0	2.6	196
201		6.4	5.5	4.7	6.0	5.2	4.7	3.4	2.8	2.5	3.6	2.9	2.5	201
206		6.3	5.4	4.6	5.9	5.2	4.6	3.3	2.7	2.4	3.5	2.7	2.4	206
211		6.3	5.2	4.6	5.9	5.2	4.6	3.3	2.6	2.4	3.5	2.6	2.4	211
216		6.1	5.0	4.6	5.7	5.0	4.6	3.0	2.6	2.2	3.3	2.6	2.4	216
221		6.1	5.0	4.6	5.6	5.0	4.6	2.9	2.5	2.2	3.1	2.6	2.3	221
226		6.0	4.9	4.5	5.5	4.9	4.5	2.7	2.4	2.2	2.9	2.5	2.2	226
231		5.8	4.8	4.4	5.4	4.8	4.4	2.6	2.4	-	2.8	2.4	2.2	231
236		5.5	4.8	4.4	5.2	4.8	4.4	2.6	2.2	-	2.6	2.4	2.2	236
241		5.1	4.8	-	5.1	4.8	-	2.5	2.2	-	2.5	2.3	-	241
246		4.9	4.7	-	4.7	4.7	-	2.4	-	-	2.3	2.2	-	246
251		4.7	4.6	-	4.2	4.5	-	2.3	-	-	2.2	-	-	251
256		4.6	4.6	-	3.7	4.4	-	2.2	-	-	-	-	-	256
261		4.4	4.2	-	3.4	4.4	-	2.2	-	-	-	-	-	261
266		4.2	4.0	-	3.1	4.0	-	-	-	-	-	-	-	266
271		3.8	4.0	-	2.7	3.5	-	-	-	-	-	-	-	271
276		3.5	-	-	-	-	-	-	-	-	-	-	-	276
281		3.1	-	-	-	-	-	-	-	-	-	-	-	281
286		2.8	-	-	-	-	-	-	-	-	-	-	-	286
289		2.6	-	-	-	-	-	-	-	-	-	-	-	289

Operation



 109,400 lbs				 30.55 ft x 27.2 ft				 3.6 ft + 94.8 ft				360°			ASME B30.5															
		44.4 ft			58.2 ft			73.5 ft			87.3 ft																			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°																	
ft															1,000 lbs	ft														
17		18.9	-	-	-	-	-	-	-	-	-	-	-	-	17															
19		18.9	-	-	-	-	-	-	-	-	-	-	-	-	19															
21		18.9	-	-	18.7	-	-	19.1	-	-	-	-	-	-	21															
26		18.5	-	-	18.7	-	-	18.9	-	-	18.2	-	-	-	26															
31		17.3	-	-	17.7	-	-	17.9	-	-	17.9	-	-	-	31															
36		16.3	-	-	16.7	-	-	17.1	-	-	17.1	-	-	-	36															
41		15.3	-	-	16.0	-	-	16.2	-	-	16.4	-	-	-	41															
46		14.5	12.5	-	14.9	12.7	-	15.4	12.7	-	15.6	12.1	-	-	46															
51		13.7	11.8	-	14.3	11.9	-	14.7	12.1	-	14.9	11.9	-	-	51															
56		12.8	11.0	-	13.6	11.3	-	14.0	11.5	-	14.2	11.5	-	-	56															
61		12.0	10.3	-	12.9	10.7	-	13.3	10.9	-	13.6	11.0	-	-	61															
66		11.3	9.6	-	12.2	10.0	-	12.7	10.3	-	13.2	10.5	-	-	66															
71		10.7	9.0	-	11.6	9.4	-	12.2	9.8	-	12.6	10.0	-	-	71															
76		9.9	8.4	-	10.9	8.8	-	11.6	9.3	-	12.1	9.6	-	-	76															
81		9.1	7.9	6.8	10.2	8.3	6.9	11.0	8.8	7.1	11.7	9.2	7.1	-	81															
86		8.4	7.3	6.3	9.6	7.8	6.6	10.4	8.2	6.7	11.1	8.7	6.8	-	86															
91		7.8	6.9	6.1	8.9	7.3	6.3	10.0	7.8	6.4	10.6	8.2	6.6	-	91															
96		7.3	6.5	5.8	8.4	6.9	6.0	9.3	7.4	6.2	10.1	7.8	6.3	-	96															
101		6.8	6.1	5.6	7.8	6.6	5.8	8.7	7.0	5.9	9.6	7.5	6.0	-	101															
106		6.5	5.8	5.4	7.3	6.2	5.6	8.2	6.7	5.7	9.1	7.1	5.9	-	106															
111		6.0	5.5	5.0	6.8	5.9	5.2	7.7	6.3	5.5	8.6	6.8	5.7	-	111															
116		5.6	5.3	4.9	6.5	5.8	5.1	7.2	6.2	5.3	8.1	6.5	5.6	-	116															
121		5.3	5.0	4.7	6.1	5.5	4.9	6.8	5.9	5.1	7.6	6.2	5.4	-	121															
126		4.9	4.8	-	5.8	5.2	4.8	6.5	5.7	5.0	7.1	6.0	5.2	-	126															
131		4.6	4.6	-	5.5	5.0	4.8	6.1	5.5	4.8	6.8	5.7	5.0	-	131															
136		-	-	-	5.1	4.9	-	5.8	5.3	4.8	6.4	5.6	4.9	-	136															
141		-	-	-	4.8	4.7	-	5.5	5.0	4.7	6.1	5.4	4.8	-	141															
146		-	-	-	-	-	-	5.2	4.8	-	5.9	5.2	4.8	-	146															
151		-	-	-	-	-	-	5.0	4.6	-	5.7	5.0	-	-	151															
156		-	-	-	-	-	-	4.7	4.6	-	5.3	4.8	-	-	156															
161		-	-	-	-	-	-	-	-	-	5.1	4.7	-	-	161															
166		-	-	-	-	-	-	-	-	-	4.9	4.6	-	-	166															

Operation

FOJ

 109,400 lbs		 30.55 ft x 27.2 ft			 3.6 ft + 94.8 ft			360°			ASME B30.5			
		101.1 ft			114.9 ft			128.6 ft			142.4 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs												ft
31		17.8	-	-	17.1	-	-	15.7	-	-	-	-	-	31
36		17.1	-	-	16.7	-	-	16.3	-	-	14.5	-	-	36
41		16.5	-	-	16.3	-	-	15.9	-	-	14.5	-	-	41
46		15.8	-	-	15.6	-	-	15.4	-	-	14.5	-	-	46
51		15.1	-	-	15.1	-	-	14.9	-	-	14.3	-	-	51
56		14.5	11.5	-	14.6	11.4	-	14.4	11.0	-	14.0	-	-	56
61		13.9	11.0	-	14.0	11.0	-	13.9	10.9	-	13.6	10.7	-	61
66		13.4	10.5	-	13.4	10.5	-	13.4	10.5	-	13.2	10.3	-	66
71		12.8	10.2	-	13.1	10.2	-	13.1	10.2	-	12.8	10.0	-	71
76		12.3	9.9	-	12.6	9.9	-	12.6	9.9	-	12.5	9.8	-	76
81		11.9	9.5	7.1	12.1	9.5	-	12.2	9.5	-	12.1	9.5	-	81
86		11.4	8.9	7.0	11.6	9.2	7.0	11.8	9.2	7.0	11.6	9.2	7.0	86
91		11.1	8.6	6.7	11.3	8.9	6.8	11.5	8.9	6.8	11.3	8.9	6.8	91
96		10.6	8.2	6.4	10.9	8.5	6.5	11.1	8.6	6.7	10.9	8.6	6.7	96
101		10.1	7.8	6.2	10.5	8.1	6.2	10.8	8.3	6.5	10.7	8.3	6.5	101
106		9.8	7.4	6.1	10.0	7.8	6.1	10.4	8.0	6.3	10.4	8.1	6.3	106
111		9.3	7.2	5.9	9.7	7.4	5.9	10.1	7.7	6.1	10.1	7.9	6.1	111
116		8.7	6.9	5.8	9.4	7.1	5.8	9.8	7.5	6.0	9.8	7.6	6.0	116
121		8.3	6.6	5.6	9.0	6.9	5.6	9.5	7.2	5.8	9.5	7.3	5.8	121
126		8.0	6.3	5.4	8.7	6.7	5.4	9.1	7.0	5.7	9.2	7.1	5.7	126
131		7.4	6.1	5.2	8.1	6.3	5.2	8.8	6.8	5.5	9.0	6.8	5.5	131
136		7.1	6.0	5.1	7.8	6.2	5.2	8.4	6.4	5.3	8.6	6.7	5.5	136
141		6.8	5.7	4.9	7.5	6.0	5.1	8.0	6.2	5.2	8.3	6.5	5.4	141
146		6.5	5.4	4.8	7.1	5.9	5.0	7.6	6.1	5.2	8.0	6.3	5.2	146
151		6.1	5.2	4.8	6.8	5.7	4.8	7.2	5.9	5.0	7.7	6.1	5.0	151
156		5.9	5.0	4.6	6.4	5.5	4.8	7.0	5.7	4.8	7.5	5.9	5.0	156
161		5.7	4.9	4.6	6.2	5.3	4.7	6.8	5.6	4.8	7.2	5.8	4.9	161
166		5.4	4.8	-	6.0	5.1	4.6	6.4	5.4	4.7	6.9	5.6	4.8	166
171		5.2	4.8	-	5.7	5.0	-	6.1	5.2	4.6	6.6	5.5	4.8	171
176		5.0	4.6	-	5.5	4.8	-	5.9	5.0	4.6	6.4	5.3	4.6	176
181		4.8	4.5	-	5.3	4.7	-	5.8	4.9	4.6	6.2	5.1	4.6	181
186		-	-	-	5.1	4.6	-	5.5	4.8	-	6.0	5.0	4.6	186
191		-	-	-	4.8	-	-	5.2	4.8	-	5.7	5.0	-	191
196		-	-	-	4.6	-	-	5.0	4.6	-	5.5	4.8	-	196
201		-	-	-	-	-	-	4.9	-	-	5.3	4.7	-	201
206		-	-	-	-	-	-	4.7	-	-	5.1	4.6	-	206
211		-	-	-	-	-	-	-	-	-	5.0	-	-	211
216		-	-	-	-	-	-	-	-	-	4.8	-	-	216
221		-	-	-	-	-	-	-	-	-	4.7	-	-	221

Operation

FOJ

109,400 lbs			30.55 ft x 27.2 ft			3.6 ft + 94.8 ft			360°			ASME B30.5		
		156.2 ft			170.0 ft			183.8 ft			197.5 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft														ft
41		13.2	-	-	9.9	-	-	-	-	-	-	-	-	41
46		13.2	-	-	11.6	-	-	10.3	-	-	-	-	-	46
51		13.2	-	-	11.6	-	-	10.3	-	-	-	-	-	51
56		13.2	-	-	11.6	-	-	10.3	-	-	9.0	-	-	56
61		13.1	10.4	-	11.6	9.5	-	10.3	-	-	9.0	-	-	61
66		12.7	10.1	-	11.6	9.9	-	10.3	9.4	-	9.0	9.0	-	66
71		12.4	9.8	-	11.6	9.5	-	10.3	9.2	-	9.0	8.8	-	71
76		12.1	9.5	-	11.5	9.3	-	10.3	9.0	-	9.0	8.6	-	76
81		11.7	9.3	-	11.3	9.1	-	10.3	8.7	-	9.0	8.4	-	81
86		11.4	9.0	-	11.2	8.8	-	10.3	8.5	-	9.0	8.3	-	86
91		11.2	8.8	-	10.9	8.5	-	10.3	8.3	-	9.0	8.1	-	91
96		10.9	8.6	6.7	10.6	8.4	6.7	10.2	8.2	-	9.0	8.0	-	96
101		10.6	8.3	6.5	10.3	8.2	6.5	10.0	8.0	6.5	9.0	7.8	6.5	101
106		10.3	8.1	6.3	10.1	8.1	6.3	9.8	7.9	6.3	9.0	7.7	6.3	106
111		10.1	7.9	6.1	9.9	7.9	6.1	9.4	7.7	6.1	9.0	7.4	6.1	111
116		9.8	7.8	6.0	9.6	7.8	6.0	9.3	7.5	6.0	8.9	7.3	6.0	116
121		9.6	7.5	5.8	9.3	7.6	5.9	9.1	7.3	5.9	8.7	7.2	5.9	121
126		9.3	7.2	5.7	9.2	7.4	5.9	9.0	7.2	5.9	8.5	7.2	5.9	126
131		9.0	7.0	5.7	9.0	7.2	5.7	8.8	7.0	5.7	8.5	7.0	5.7	131
136		8.9	6.9	5.6	8.9	7.1	5.6	8.6	6.9	5.6	8.4	6.9	5.6	136
141		8.7	6.7	5.4	8.7	6.8	5.5	8.4	6.8	5.5	8.2	6.7	5.5	141
146		8.4	6.5	5.2	8.4	6.5	5.4	8.3	6.8	5.4	8.1	6.5	5.4	146
151		8.1	6.3	5.2	8.1	6.3	5.2	8.1	6.6	5.2	7.9	6.3	5.2	151
156		7.9	6.1	5.0	7.9	6.1	5.0	7.9	6.4	5.2	7.7	6.3	5.2	156
161		7.6	6.0	5.0	7.8	6.0	5.0	7.6	6.2	5.1	7.5	6.2	5.1	161
166		7.3	5.8	4.9	7.5	5.9	4.9	7.3	6.0	5.0	7.3	6.1	5.0	166
171		7.0	5.7	4.8	7.2	5.9	4.8	7.2	5.9	5.0	7.2	6.1	5.0	171
176		6.8	5.5	4.8	7.0	5.7	4.8	7.0	5.7	4.8	7.0	5.9	4.8	176
181		6.5	5.3	4.7	6.9	5.6	4.8	6.9	5.7	4.8	6.8	5.8	4.8	181
186		6.2	5.2	4.6	6.7	5.4	4.7	6.6	5.6	4.8	6.5	5.6	4.8	186
191		6.1	5.2	4.6	6.5	5.2	4.6	6.3	5.5	4.8	6.2	5.5	4.8	191
196		5.9	5.0	4.6	6.2	5.2	4.6	6.1	5.2	4.6	5.6	5.5	4.6	196
201		5.8	4.9	-	6.0	5.1	4.6	5.8	5.2	4.6	5.1	5.3	4.6	201
206		5.6	4.8	-	5.7	4.9	4.5	5.5	5.1	4.6	4.5	5.1	4.6	206
211		5.4	4.8	-	5.5	4.8	-	5.1	5.0	4.6	4.0	5.0	4.6	211
216		5.0	4.6	-	5.2	4.8	-	4.6	4.8	4.4	3.5	4.8	4.6	216
221		5.0	4.6	-	4.9	4.7	-	4.1	4.8	3.9	3.2	4.3	4.5	221
226		4.8	-	-	4.6	4.6	-	3.7	4.6	-	2.7	3.8	-	226
231		4.6	-	-	4.3	4.6	-	3.4	4.3	-	2.4	3.4	-	231
236		4.4	-	-	3.7	4.4	-	3.0	3.7	-	2.2	3.0	-	236
241		-	-	-	3.4	-	-	2.6	3.4	-	-	2.6	-	241
246		-	-	-	3.1	-	-	-	3.0	-	-	-	-	246
249		-	-	-	2.8	-	-	-	2.6	-	-	-	-	249

Operation

FOJ

 109,400 lbs			 30.55 ft x 27.2 ft			 3.6 ft + 94.8 ft			360°			ASME B30.5		
		211.3 ft			225.1 ft			238.9 ft			259.3 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs												ft
56		7.8	-	-	-	-	-	-	-	-	-	-	-	56
61		7.9	-	-	6.8	-	-	-	-	-	-	-	-	61
66		7.9	-	-	6.8	-	-	5.9	-	-	5.2	-	-	66
71		7.9	-	-	6.8	-	-	5.9	-	-	5.2	-	-	71
76		7.9	7.9	-	6.8	6.8	-	5.9	-	-	5.2	-	-	76
81		7.9	7.9	-	6.8	6.8	-	5.9	5.9	-	5.2	-	-	81
86		7.9	7.9	-	6.8	6.8	-	5.9	5.9	-	5.2	5.2	-	86
91		7.9	7.7	-	6.8	6.8	-	5.9	5.9	-	5.2	5.2	-	91
96		7.9	7.5	-	6.8	6.8	-	5.9	5.9	-	5.2	5.2	-	96
101		7.9	7.3	-	6.8	6.8	-	5.9	5.7	-	5.2	5.2	-	101
106		7.9	7.2	6.3	6.8	6.8	6.3	5.9	5.5	-	5.2	5.2	-	106
111		7.9	7.2	6.1	6.8	6.8	6.1	5.9	5.2	-	5.2	5.2	-	111
116		7.9	7.1	6.0	6.8	6.7	6.0	5.9	5.1	4.1	5.2	5.1	-	116
121		7.9	6.9	5.9	6.8	6.6	5.9	5.9	4.9	4.0	5.2	4.9	3.9	121
126		7.9	6.8	5.9	6.8	6.5	5.9	5.9	4.8	3.9	5.2	4.8	3.9	126
131		7.9	6.8	5.7	6.8	6.3	5.7	5.9	4.6	3.7	5.2	4.6	3.7	131
136		7.9	6.7	5.7	6.8	6.3	5.6	5.8	4.5	3.6	5.2	4.5	3.6	136
141		7.8	6.5	5.6	6.8	6.2	5.5	5.6	4.3	3.5	5.2	4.3	3.5	141
146		7.7	6.3	5.4	6.8	6.1	5.4	5.4	4.1	3.5	5.2	4.1	3.5	146
151		7.7	6.3	5.2	6.8	6.1	5.2	5.2	3.9	3.3	5.2	3.9	3.3	151
156		7.5	6.1	5.2	6.8	5.9	5.2	4.9	3.7	3.3	5.0	3.9	3.3	156
161		7.3	6.1	5.1	6.8	5.9	5.2	4.7	3.6	3.1	4.9	3.8	3.1	161
166		7.1	6.0	5.0	6.8	5.8	5.1	4.5	3.5	2.9	4.7	3.6	3.0	166
171		7.0	5.9	5.0	6.7	5.7	5.0	4.4	3.5	2.8	4.6	3.5	3.0	171
176		6.8	5.7	5.0	6.1	5.7	5.0	4.2	3.3	2.8	4.4	3.3	2.8	176
181		6.4	5.7	4.9	5.4	5.6	4.9	4.0	3.1	2.7	4.2	3.3	2.8	181
186		5.8	5.6	4.8	4.7	5.5	4.8	3.8	3.0	2.6	4.0	3.2	2.7	186
191		5.1	5.5	4.8	4.0	5.5	4.8	3.7	3.0	2.6	3.8	3.0	2.6	191
196		4.7	5.5	4.8	3.6	5.2	4.8	3.5	2.8	2.6	3.4	3.0	2.6	196
201		4.2	5.3	4.7	3.4	4.8	4.7	3.2	2.8	2.5	2.9	2.9	2.5	201
206		3.7	5.0	4.6	3.2	4.2	4.6	2.8	2.7	2.4	-	2.7	2.4	206
211		3.2	4.7	4.6	3.0	3.6	4.6	-	2.6	2.4	-	2.6	2.4	211
216		2.7	4.2	4.6	2.8	3.1	4.4	-	2.6	2.2	-	2.6	2.4	216
221		2.6	3.7	4.5	2.5	2.6	3.8	-	2.5	2.2	-	2.5	2.3	221
226		2.5	3.2	4.1	-	2.3	3.2	-	2.3	2.2	-	-	2.2	226
231		2.4	2.7	3.5	-	2.2	2.7	-	-	-	-	-	2.2	231
236		2.2	2.2	2.8	-	2.2	2.2	-	-	-	-	-	2.2	236



Operation



 176,400 lbs			 30.55 ft x 27.2 ft			 3.6 ft + 35.8 ft			360°			ASME B30.5		
		44.4 ft			58.2 ft			73.5 ft			87.3 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
1,000 lbs														
ft														ft
10		43.4	-	-	43.4	-	-	-	-	-	-	-	-	10
12		43.4	-	-	43.4	-	-	-	-	-	-	-	-	12
14		43.4	37.2	-	43.4	-	-	43.4	-	-	-	-	-	14
16		43.4	35.7	-	43.4	-	-	43.4	-	-	-	-	-	16
18		43.4	34.5	-	43.4	35.2	-	43.4	35.7	-	43.4	-	-	18
20		43.2	33.3	-	43.4	34.1	-	43.4	34.7	-	43.4	34.9	-	20
25		39.0	30.5	-	42.3	31.6	-	43.4	32.3	-	43.4	32.6	-	25
30		35.1	28.2	23.7	38.7	29.5	24.1	41.7	30.4	24.3	43.2	30.8	24.3	30
35		31.9	26.4	22.6	35.5	27.7	23.1	38.3	28.7	23.3	40.5	29.2	23.5	35
40		29.2	24.7	21.7	32.5	26.0	22.1	35.4	27.1	22.6	37.6	27.8	22.8	40
45		27.0	23.3	20.9	30.1	24.6	21.4	32.9	25.7	21.8	35.1	26.6	22.1	45
50		25.2	22.2	19.9	28.2	23.6	20.8	30.7	24.7	21.2	32.9	25.5	21.4	50
55		23.6	21.0	18.9	26.5	22.6	20.1	28.9	23.7	20.6	31.0	24.5	20.9	55
60		22.1	19.8	18.1	24.9	21.6	19.3	27.2	22.7	20.1	29.2	23.6	20.4	60
65		20.4	18.6	17.5	23.5	20.8	18.6	25.7	21.9	19.5	27.7	22.8	20.0	65
70		18.7	17.8	-	22.3	19.6	17.9	24.5	21.2	18.8	26.5	22.0	19.6	70
75		-	-	-	21.0	18.6	-	23.4	20.4	18.2	25.3	21.3	19.0	75
80		-	-	-	19.6	17.8	-	22.4	19.6	17.7	24.1	20.8	18.4	80
85		-	-	-	18.1	17.1	-	21.4	18.8	17.4	23.2	20.2	18.0	85
90		-	-	-	-	-	-	20.1	18.1	-	22.3	19.4	17.7	90
95		-	-	-	-	-	-	18.8	17.5	-	21.5	18.7	13.0	95
100		-	-	-	-	-	-	-	-	-	20.5	18.1	-	100
105		-	-	-	-	-	-	-	-	-	19.4	17.6	-	105
110		-	-	-	-	-	-	-	-	-	18.3	17.1	-	110

Operation



 176,400 lbs				 30.55 ft x 27.2 ft				 3.6 ft + 35.8 ft				360°				ASME B30.5			
 ft		101.1 ft			114.9 ft			128.6 ft			142.4 ft								
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°						
1,000 lbs																			
20	43.4	34.9	-	-	-	-	-	-	-	-	-	-	-	-	-	20			
25	43.4	32.9	-	43.4	32.8	-	-	32.4	-	-	-	-	-	-	-	25			
30	43.4	31.2	-	43.4	31.2	-	43.4	31.2	-	43.4	30.7	-	43.4	30.7	-	30			
35	42.1	29.7	23.5	42.7	29.8	23.4	42.8	29.8	-	42.3	29.4	-	42.3	29.4	-	35			
40	39.3	28.3	22.8	40.2	28.5	22.8	40.7	28.5	22.8	40.1	28.3	22.6	40.1	28.3	22.6	40			
45	36.8	27.0	22.1	37.8	27.3	22.1	38.5	27.5	22.1	38.2	27.3	22.1	38.2	27.3	22.1	45			
50	34.7	26.0	21.6	35.8	26.2	21.6	36.4	26.5	21.6	36.3	26.4	21.6	36.3	26.4	21.6	50			
55	32.8	25.0	21.1	34.0	25.3	21.1	34.6	25.6	21.1	34.7	25.6	21.1	34.7	25.6	21.1	55			
60	31.0	24.0	20.6	32.3	24.4	20.6	32.9	24.8	20.8	33.3	24.8	20.6	33.3	24.8	20.6	60			
65	29.5	23.2	20.1	30.6	23.6	20.2	31.5	24.1	20.3	31.9	24.1	20.2	31.9	24.1	20.2	65			
70	28.1	22.5	19.7	29.3	23.0	19.9	30.2	23.3	19.9	30.7	23.4	19.9	30.7	23.4	19.9	70			
75	26.9	21.9	19.4	28.1	22.4	19.6	29.1	22.6	19.6	29.5	22.7	19.6	29.5	22.7	19.6	75			
80	25.7	21.4	19.0	26.8	21.8	19.3	27.9	22.1	19.3	28.3	22.1	19.3	28.3	22.1	19.3	80			
85	24.7	20.7	18.5	25.8	21.1	18.9	26.7	21.6	18.9	27.4	21.6	18.9	27.4	21.6	18.9	85			
90	23.7	20.2	18.1	24.9	20.7	18.6	25.8	21.1	18.8	26.5	21.1	18.8	26.5	21.1	18.8	90			
95	22.8	19.8	17.8	24.1	20.3	18.3	25.0	20.6	18.6	25.7	20.7	18.5	25.7	20.7	18.5	95			
100	22.0	19.4	17.6	23.2	19.9	17.9	24.1	20.1	18.4	24.8	20.3	18.2	24.8	20.3	18.2	100			
105	21.3	18.7	17.4	22.4	19.4	17.6	23.3	19.8	18.0	24.0	19.8	18.0	24.0	19.8	18.0	105			
110	20.7	18.2	-	21.8	19.0	17.4	22.6	19.5	17.8	23.3	19.5	17.8	23.3	19.5	17.8	110			
115	19.8	17.7	-	21.2	18.7	17.2	22.1	19.1	17.6	22.7	19.1	17.7	22.7	19.1	17.7	115			
120	18.8	17.3	-	20.6	18.3	-	21.6	18.8	17.3	22.2	18.8	17.5	22.2	18.8	17.5	120			
125	-	-	-	19.9	17.8	-	21.1	18.5	-	21.6	18.5	17.4	21.6	18.5	17.4	125			
130	-	-	-	19.1	17.2	-	20.6	18.1	-	21.0	18.3	17.2	21.0	18.3	17.2	130			
135	-	-	-	18.3	17.0	-	20.1	17.8	-	20.5	18.1	17.0	20.5	18.1	17.0	135			
140	-	-	-	-	-	-	19.4	17.4	-	19.8	17.9	-	19.8	17.9	-	140			
145	-	-	-	-	-	-	18.6	17.1	-	19.1	17.8	-	19.1	17.8	-	145			
150	-	-	-	-	-	-	17.9	16.8	-	18.9	17.5	-	18.9	17.5	-	150			
155	-	-	-	-	-	-	-	-	-	18.7	17.1	-	18.7	17.1	-	155			
160	-	-	-	-	-	-	-	-	-	18.2	16.8	-	18.2	16.8	-	160			

Operation

FOJ

 176,400 lbs				 30.55 ft x 27.2 ft				 3.6 ft + 35.8 ft				360°				ASME B30.5			
 156.2 ft		 170.0 ft		 183.8 ft		 197.5 ft													
0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°
1,000 lbs																			
ft																		ft	
30	-	30.1	-	-	28.3	-	-	-	-	-	-	-	-	-	-	-	-	30	
35	40.9	28.8	-	-	28.1	-	-	27.2	-	-	-	-	-	-	-	-	-	35	
40	39.0	27.8	-	35.2	27.2	-	27.0	26.3	-	-	-	-	24.4	-	-	-	-	40	
45	37.3	27.0	-	35.2	26.4	-	29.1	25.6	-	-	-	-	24.4	-	-	-	-	45	
50	35.8	26.1	21.4	34.4	25.6	21.1	29.5	24.9	20.6	24.4	24.0	-	-	-	-	-	-	50	
55	34.3	25.3	20.9	33.3	24.9	20.6	29.5	24.3	20.3	24.4	23.5	19.8	-	-	-	-	-	55	
60	33.0	24.5	20.4	32.2	24.1	20.1	29.5	23.7	19.9	24.4	22.8	19.5	-	-	-	-	-	60	
65	31.7	23.9	20.0	30.9	23.6	19.8	29.5	23.0	19.6	24.4	22.3	19.1	-	-	-	-	-	65	
70	30.6	23.2	19.7	29.9	23.0	19.5	29.0	22.4	19.3	24.4	21.8	18.8	-	-	-	-	-	70	
75	29.5	22.6	19.4	29.0	22.4	19.2	28.3	21.9	18.9	24.4	21.4	18.6	-	-	-	-	-	75	
80	28.4	22.1	19.1	28.2	21.9	18.9	27.5	21.5	18.7	24.4	21.0	18.4	-	-	-	-	-	80	
85	27.6	21.6	18.9	27.4	21.3	18.7	26.7	20.9	18.5	24.4	20.5	18.0	-	-	-	-	-	85	
90	26.7	21.1	18.6	26.5	20.9	18.3	26.0	20.6	18.1	24.4	20.1	17.9	-	-	-	-	-	90	
95	25.9	20.7	18.4	25.8	20.5	18.1	25.3	20.3	17.9	24.2	19.8	17.6	-	-	-	-	-	95	
100	25.1	20.3	18.1	25.1	20.1	17.9	24.7	19.9	17.7	23.8	19.5	17.3	-	-	-	-	-	100	
105	24.4	19.8	17.8	24.4	19.8	17.6	24.0	19.4	17.4	23.3	19.1	17.1	-	-	-	-	-	105	
110	23.7	19.5	17.6	23.7	19.5	17.4	23.5	19.0	17.2	22.5	18.8	16.9	-	-	-	-	-	110	
115	23.1	19.1	17.5	23.2	19.1	17.2	23.0	18.8	17.0	22.0	18.4	16.8	-	-	-	-	-	115	
120	22.5	18.8	17.4	22.7	18.8	17.0	22.5	18.6	16.8	21.5	18.1	16.6	-	-	-	-	-	120	
125	22.0	18.5	17.4	22.2	18.5	16.9	22.0	18.2	16.7	20.9	17.8	16.5	-	-	-	-	-	125	
130	21.3	18.3	17.2	21.7	18.1	16.9	21.3	17.9	16.5	20.2	17.6	16.3	-	-	-	-	-	130	
135	20.8	18.1	17.1	21.0	17.9	16.8	20.8	17.7	16.5	19.5	17.3	16.1	-	-	-	-	-	135	
140	20.2	17.9	17.0	20.3	17.7	16.7	20.0	17.5	16.4	18.9	17.0	15.9	-	-	-	-	-	140	
145	19.6	17.6	-	19.7	17.6	16.7	18.8	17.4	16.3	18.4	16.9	15.8	-	-	-	-	-	145	
150	19.2	17.4	-	18.9	17.2	16.5	17.6	17.0	16.3	17.6	16.7	15.8	-	-	-	-	-	150	
155	18.2	17.1	-	17.7	17.0	16.5	16.8	16.7	16.1	16.4	16.5	15.7	-	-	-	-	-	155	
160	17.1	16.7	-	16.5	16.7	-	16.2	16.1	15.8	15.4	15.9	15.6	-	-	-	-	-	160	
165	16.2	16.3	-	15.4	16.1	-	15.4	15.3	-	14.5	15.0	15.4	-	-	-	-	-	165	
170	15.5	15.5	-	14.4	15.0	-	14.4	14.9	-	13.5	13.9	14.4	-	-	-	-	-	170	
175	14.7	9.7	-	13.7	14.0	-	13.7	14.0	-	13.1	13.3	13.7	-	-	-	-	-	175	
180	-	-	-	13.3	13.3	-	12.9	13.3	-	12.8	12.7	-	-	-	-	-	-	180	
185	-	-	-	13.1	-	-	12.2	12.8	-	12.3	12.2	-	-	-	-	-	-	185	
190	-	-	-	12.5	-	-	11.6	12.0	-	11.5	11.9	-	-	-	-	-	-	190	
195	-	-	-	-	-	-	11.2	11.4	-	10.8	11.3	-	-	-	-	-	-	195	
200	-	-	-	-	-	-	-	-	-	10.2	10.5	-	-	-	-	-	-	200	
205	-	-	-	-	-	-	-	-	-	9.7	9.7	-	-	-	-	-	-	205	
210	-	-	-	-	-	-	-	-	-	9.0	9.2	-	-	-	-	-	-	210	

Operation

FOJ

 176,400 lbs			 30.55 ft x 27.2 ft			 3.6 ft + 35.8 ft			360°			ASME B30.5		
		211.3 ft			225.1 ft			238.9 ft			259.3 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs												ft
40	-	18.5	-	-	15.4	-	-	-	-	-	-	-	-	40
45	-	18.5	-	-	15.4	-	-	-	-	-	-	-	-	45
50	-	18.5	-	-	15.4	-	-	-	12.7	-	-	-	-	50
55	18.5	18.5	18.5	15.4	15.4	15.4	-	12.7	-	-	-	11.2	-	55
60	18.5	18.5	18.5	15.4	15.4	15.4	12.7	12.7	12.7	-	-	11.2	-	60
65	18.5	18.5	18.5	15.4	15.4	15.4	12.7	12.7	12.7	-	-	11.2	-	65
70	18.5	18.5	18.5	15.4	15.4	15.4	12.7	12.7	12.7	11.2	11.2	11.2	-	70
75	18.5	18.5	18.3	15.4	15.4	15.4	12.7	12.7	12.7	11.2	11.2	11.2	-	75
80	18.5	18.5	17.9	15.4	15.4	15.4	12.7	12.7	12.7	11.2	11.2	11.2	-	80
85	18.5	18.5	17.6	15.4	15.4	15.4	12.7	12.7	12.5	11.2	11.2	11.2	-	85
90	18.5	18.5	17.5	15.4	15.4	15.4	12.7	12.7	12.2	11.2	11.2	11.2	-	90
95	18.5	18.5	17.3	15.4	15.4	15.4	12.7	12.7	11.9	11.2	11.2	11.2	-	95
100	18.5	18.5	17.0	15.4	15.4	15.4	12.7	12.7	11.5	11.2	11.2	11.2	-	100
105	18.5	18.5	16.7	15.4	15.4	15.4	12.7	12.7	11.2	11.2	11.2	11.2	-	105
110	18.5	18.3	16.5	15.4	15.4	15.4	12.7	12.4	10.9	11.2	11.2	11.0	-	110
115	18.5	18.0	16.4	15.4	15.4	15.1	12.7	11.9	10.6	11.2	11.2	10.7	-	115
120	18.4	17.6	16.2	15.4	15.3	14.8	12.7	11.5	10.4	11.2	11.2	10.4	-	120
125	18.0	17.1	16.0	15.4	14.9	14.5	12.7	11.2	10.1	11.2	11.2	10.3	-	125
130	17.7	16.6	15.8	15.4	14.4	13.9	12.7	11.0	9.9	11.2	11.2	10.1	-	130
135	17.1	16.2	15.6	15.0	14.0	13.6	12.6	10.7	9.8	11.2	10.8	9.9	-	135
140	16.5	15.8	15.2	14.5	13.7	13.3	12.3	10.4	9.5	11.0	10.4	9.6	-	140
145	16.0	15.4	14.9	14.1	13.4	13.0	11.9	10.1	9.2	10.5	10.1	9.4	-	145
150	15.7	15.0	14.6	13.7	13.1	12.6	11.5	9.9	9.0	10.2	9.8	9.2	-	150
155	15.2	14.5	14.3	13.2	12.7	12.3	11.2	9.6	8.9	9.7	9.4	9.1	-	155
160	14.7	14.1	13.9	12.8	12.3	12.0	10.8	9.3	8.7	9.2	9.0	8.8	-	160
165	14.2	13.7	13.5	12.4	12.0	11.8	10.4	9.1	8.5	8.9	8.7	8.5	-	165
170	13.7	13.4	13.2	12.1	11.6	11.4	10.1	8.8	8.3	8.5	8.3	8.3	-	170
175	12.9	13.1	12.9	11.8	11.3	11.3	9.8	8.6	8.2	8.2	8.0	8.0	-	175
180	12.0	12.6	12.5	11.4	11.0	11.0	9.6	8.4	8.0	7.9	7.7	7.7	-	180
185	11.2	11.9	-	11.1	10.7	10.7	9.3	8.3	7.9	7.6	7.4	7.4	-	185
190	10.5	11.1	-	10.5	10.5	10.3	9.0	8.1	7.9	7.4	7.2	7.2	-	190
195	10.2	10.4	-	9.7	10.2	10.2	8.9	8.0	7.8	7.1	6.9	7.1	-	195
200	9.9	9.8	-	9.0	9.7	-	8.6	7.8	-	6.8	6.7	6.8	-	200
205	9.5	9.4	-	8.3	9.0	-	8.3	7.6	-	6.5	6.5	6.5	-	205
210	9.0	9.2	-	7.7	8.3	-	8.1	7.4	-	6.3	6.3	6.3	-	210
215	8.3	8.7	-	7.5	7.6	-	7.6	7.2	-	6.0	6.0	-	-	215
220	7.7	8.1	-	7.3	7.2	-	7.1	7.2	-	5.8	5.8	-	-	220
225	-	-	-	7.1	6.9	-	6.6	7.0	-	5.6	5.6	-	-	225
230	-	-	-	7.0	6.8	-	6.1	6.6	-	5.2	5.5	-	-	230
235	-	-	-	6.7	6.6	-	5.6	6.0	-	5.0	5.1	-	-	235
240	-	-	-	6.2	-	-	5.1	5.4	-	4.7	4.9	-	-	240
245	-	-	-	5.8	-	-	4.6	4.9	-	4.2	4.6	-	-	245
250	-	-	-	-	-	-	4.1	-	-	3.7	4.0	-	-	250
255	-	-	-	-	-	-	3.8	-	-	3.4	3.6	-	-	255
260	-	-	-	-	-	-	3.3	-	-	2.9	3.2	-	-	260

Operation

FOJ

 109,400 lbs			 30.55 ft x 27.2 ft			 3.6 ft + 35.8 ft			360°			ASME B30.5		
		44.4 ft			58.2 ft			73.5 ft			87.3 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft		1,000 lbs												ft
10		43.4	-	-	43.4	-	-	-	-	-	-	-	-	10
12		43.4	-	-	43.4	-	-	-	-	-	-	-	-	12
14		43.4	37.2	-	43.4	-	-	43.4	-	-	-	-	-	14
16		43.4	35.7	-	43.4	-	-	43.4	-	-	-	-	-	16
18		43.4	34.5	-	43.4	35.2	-	43.4	35.7	-	43.4	-	-	18
20		43.2	33.3	-	43.4	34.1	-	43.4	34.7	-	43.4	34.9	-	20
25		39.0	30.5	-	42.3	31.6	-	43.4	32.3	-	43.4	32.6	-	25
30		35.1	28.2	23.7	38.7	29.5	24.1	41.7	30.4	24.3	43.2	30.8	24.3	30
35		31.9	26.4	22.6	35.5	27.7	23.1	38.3	28.7	23.3	40.5	29.2	23.5	35
40		29.2	24.7	21.7	32.5	26.0	22.1	35.4	27.1	22.6	37.6	27.8	22.8	40
45		27.0	23.3	20.9	30.1	24.6	21.4	32.9	25.7	21.8	35.1	26.6	22.1	45
50		25.2	22.2	19.9	28.2	23.6	20.8	30.7	24.7	21.2	32.9	25.5	21.4	50
55		23.6	21.0	18.9	26.5	22.6	20.1	28.9	23.7	20.6	31.0	24.5	20.9	55
60		22.1	19.8	18.1	24.9	21.6	19.3	27.2	22.7	20.1	29.2	23.6	20.4	60
65		20.4	18.6	17.5	23.5	20.8	18.6	25.7	21.9	19.5	27.7	22.8	20.0	65
70		18.7	17.8	-	22.3	19.6	17.9	24.5	21.2	18.8	26.5	22.0	19.6	70
75		-	-	-	21.0	18.6	-	23.4	20.4	18.2	25.3	21.3	19.0	75
80		-	-	-	19.6	17.8	-	22.4	19.6	17.7	24.1	20.8	18.4	80
85		-	-	-	18.1	17.1	-	21.4	18.8	17.4	23.2	20.2	18.0	85
90		-	-	-	-	-	-	20.1	18.1	-	22.3	19.4	17.7	90
95		-	-	-	-	-	-	18.8	17.5	-	21.5	18.7	13.0	95
100		-	-	-	-	-	-	-	-	-	20.5	18.1	-	100
105		-	-	-	-	-	-	-	-	-	19.4	17.6	-	105
110		-	-	-	-	-	-	-	-	-	18.3	17.1	-	110



Operation



 109,400 lbs				 30.55 ft x 27.2 ft				 3.6 ft + 35.8 ft				360°				ASME B30.5	
		101.1 ft			114.9 ft			128.6 ft			142.4 ft						
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°				
ft		1,000 lbs												ft			
20		43.4	34.9	-	-	-	-	-	-	-	-	-	-	-	20		
25		43.4	32.9	-	43.4	32.8	-	-	32.4	-	-	-	-	-	25		
30		43.4	31.2	-	43.4	31.2	-	43.4	31.2	-	43.4	30.7	-	-	30		
35		42.1	29.7	23.5	42.7	29.8	23.4	42.8	29.8	-	42.3	29.4	-	-	35		
40		39.3	28.3	22.8	40.2	28.5	22.8	40.7	28.5	22.8	40.1	28.3	22.6	-	40		
45		36.8	27.0	22.1	37.8	27.3	22.1	38.5	27.5	22.1	38.2	27.3	22.1	-	45		
50		34.7	26.0	21.6	35.8	26.2	21.6	36.4	26.5	21.6	36.3	26.4	21.6	-	50		
55		32.8	25.0	21.1	34.0	25.3	21.1	34.6	25.6	21.1	34.7	25.6	21.1	-	55		
60		31.0	24.0	20.6	32.3	24.4	20.6	32.9	24.8	20.8	33.3	24.8	20.6	-	60		
65		29.5	23.2	20.1	30.6	23.6	20.2	31.5	24.1	20.3	31.9	24.1	20.2	-	65		
70		28.1	22.5	19.7	29.3	23.0	19.9	30.2	23.3	19.9	30.7	23.4	19.9	-	70		
75		26.9	21.9	19.4	28.1	22.4	19.6	29.1	22.6	19.6	29.5	22.7	19.6	-	75		
80		25.7	21.4	19.0	26.8	21.8	19.3	27.9	22.1	19.3	28.3	22.1	19.3	-	80		
85		24.7	20.7	18.5	25.8	21.1	18.9	26.7	21.6	18.9	27.4	21.6	18.9	-	85		
90		23.7	20.2	18.1	24.9	20.7	18.6	25.7	21.1	18.8	26.2	21.1	18.8	-	90		
95		22.8	19.8	17.8	24.0	20.3	18.3	24.7	20.6	18.6	25.1	20.7	18.5	-	95		
100		22.0	19.4	17.6	23.0	19.9	17.9	23.7	20.1	18.4	24.1	20.3	18.2	-	100		
105		21.3	18.7	17.4	22.2	19.4	17.6	22.9	19.8	18.0	23.1	19.8	18.0	-	105		
110		20.7	18.2	-	21.4	19.0	17.4	22.1	19.3	17.8	22.3	19.3	17.8	-	110		
115		19.8	17.7	-	20.5	18.7	17.2	21.2	18.8	17.6	21.0	18.9	17.7	-	115		
120		18.8	17.3	-	19.9	18.3	-	20.2	18.4	17.3	19.7	18.5	17.5	-	120		
125		-	-	-	19.5	17.8	-	19.0	18.0	-	18.4	18.0	17.4	-	125		
130		-	-	-	18.7	17.2	-	17.7	17.7	-	17.2	17.3	17.0	-	130		
135		-	-	-	17.5	17.0	-	16.5	16.9	-	16.0	16.5	16.6	-	135		
140		-	-	-	-	-	-	15.5	15.8	-	15.1	15.5	-	-	140		
145		-	-	-	-	-	-	14.8	14.8	-	14.4	14.4	-	-	145		
150		-	-	-	-	-	-	13.8	14.0	-	13.4	13.7	-	-	150		
155		-	-	-	-	-	-	-	-	-	12.6	12.9	-	-	155		
160		-	-	-	-	-	-	-	-	-	12.0	11.3	-	-	160		

Operation



 109,400 lbs				 30.55 ft x 27.2 ft				 3.6 ft + 35.8 ft				360°				ASME B30.5			
 ft		156.2 ft			170.0 ft			183.8 ft			197.5 ft								
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°						
1,000 lbs																			
30	-	30.1	-	-	28.3	-	-	-	-	-	-	-	-	-	30				
35	40.9	28.8	-	-	28.1	-	-	27.2	-	-	-	-	-	-	35				
40	39.0	27.8	-	35.2	27.2	-	27.0	26.3	-	-	24.4	-	-	-	40				
45	37.3	27.0	-	35.2	26.4	-	29.1	25.6	-	-	24.4	-	-	-	45				
50	35.8	26.1	21.4	34.4	25.6	21.1	29.5	24.9	20.6	24.4	24.0	-	-	-	50				
55	34.3	25.3	20.9	33.3	24.9	20.6	29.5	24.3	20.3	24.4	23.5	19.8	-	-	55				
60	33.0	24.5	20.4	32.2	24.1	20.1	29.5	23.7	19.9	24.4	22.8	19.5	-	-	60				
65	31.7	23.9	20.0	30.9	23.6	19.8	29.5	23.0	19.6	24.4	22.3	19.1	-	-	65				
70	30.6	23.2	19.7	29.9	23.0	19.5	29.0	22.4	19.3	24.4	21.8	18.8	-	-	70				
75	29.5	22.6	19.4	29.0	22.4	19.2	28.3	21.9	18.9	24.4	21.4	18.6	-	-	75				
80	28.4	22.1	19.1	28.2	21.9	18.9	27.5	21.5	18.7	24.4	21.0	18.4	-	-	80				
85	27.6	21.6	18.9	27.4	21.3	18.7	26.7	20.9	18.5	24.4	20.5	18.0	-	-	85				
90	26.2	21.1	18.6	26.2	20.9	18.3	26.0	20.6	18.1	24.4	20.1	17.9	-	-	90				
95	25.1	20.7	18.4	25.1	20.5	18.1	25.0	20.3	17.9	24.0	19.8	17.6	-	-	95				
100	24.1	20.3	18.1	24.1	20.1	17.9	23.8	19.9	17.7	23.0	19.5	17.3	-	-	100				
105	23.1	19.8	17.8	23.1	19.8	17.6	22.7	19.4	17.4	21.3	19.1	17.1	-	-	105				
110	21.7	19.3	17.6	21.6	19.1	17.4	21.0	19.0	17.2	20.0	18.8	16.9	-	-	110				
115	20.6	18.8	17.5	19.9	18.5	17.2	19.5	18.5	17.0	19.0	18.3	16.8	-	-	115				
120	19.4	18.4	17.3	18.5	18.1	17.0	18.2	17.9	16.8	17.9	17.7	16.6	-	-	120				
125	17.9	18.0	16.9	17.4	17.7	16.9	17.0	17.1	16.7	16.4	16.9	16.5	-	-	125				
130	16.9	17.3	16.7	16.7	16.6	16.6	15.7	16.4	16.1	15.2	16.2	15.9	-	-	130				
135	15.8	16.1	16.3	15.6	15.7	15.8	14.7	15.4	15.5	14.4	15.0	15.5	-	-	135				
140	14.9	15.0	15.5	14.4	14.9	15.0	13.8	14.2	14.7	13.6	13.9	14.6	-	-	140				
145	14.2	14.2	-	13.3	14.2	14.4	13.1	13.1	13.7	12.6	12.9	13.3	-	-	145				
150	13.2	13.5	-	12.5	12.9	13.6	12.6	12.4	12.7	11.6	12.4	12.5	-	-	150				
155	12.1	12.7	-	11.7	12.0	12.5	11.7	11.9	11.9	10.7	11.6	11.9	-	-	155				
160	11.4	11.9	-	11.2	11.3	-	10.8	11.3	11.4	9.9	10.7	11.1	-	-	160				
165	10.8	11.1	-	10.6	10.7	-	9.9	10.6	-	9.1	9.7	10.1	-	-	165				
170	10.0	10.4	-	9.8	10.2	-	9.1	9.8	-	8.8	8.9	9.3	-	-	170				
175	9.6	8.0	-	9.1	9.5	-	8.4	9.1	-	8.5	8.2	8.5	-	-	175				
180	-	-	-	8.4	8.8	-	7.9	8.3	-	8.1	7.7	-	-	-	180				
185	-	-	-	7.8	-	-	7.6	7.6	-	7.7	7.4	-	-	-	185				
190	-	-	-	7.2	-	-	7.2	7.0	-	7.0	7.2	-	-	-	190				
195	-	-	-	-	-	-	7.1	6.9	-	6.5	6.9	-	-	-	195				
200	-	-	-	-	-	-	-	-	-	6.0	6.4	-	-	-	200				
205	-	-	-	-	-	-	-	-	-	5.5	5.7	-	-	-	205				
210	-	-	-	-	-	-	-	-	-	5.0	5.2	-	-	-	210				

Operation



 109,400 lbs				 30.55 ft x 27.2 ft			 3.6 ft + 35.8 ft			360°			ASME B30.5	
		211.3 ft			225.1 ft			238.9 ft			259.3 ft			
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
1,000 lbs														
ft														ft
40	-	18.5	-	-	15.4	-	-	-	-	-	-	-	-	40
45	-	18.5	-	-	15.4	-	-	-	-	-	-	-	-	45
50	-	18.5	-	-	15.4	-	-	12.7	-	-	-	-	-	50
55	18.5	18.5	18.5	15.4	15.4	15.4	-	12.7	-	-	11.2	-	-	55
60	18.5	18.5	18.5	15.4	15.4	15.4	12.7	12.7	12.7	-	11.2	-	-	60
65	18.5	18.5	18.5	15.4	15.4	15.4	12.7	12.7	12.7	-	11.2	-	-	65
70	18.5	18.5	18.5	15.4	15.4	15.4	12.7	12.7	12.7	11.2	11.2	11.2	-	70
75	18.5	18.5	18.3	15.4	15.4	15.4	12.7	12.7	12.7	11.2	11.2	11.2	-	75
80	18.5	18.5	17.9	15.4	15.4	15.4	12.7	12.7	12.7	11.2	11.2	11.2	-	80
85	18.5	18.5	17.6	15.4	15.4	15.4	12.7	12.7	12.5	11.2	11.2	11.2	-	85
90	18.5	18.5	17.5	15.4	15.4	15.4	12.7	12.7	12.2	11.2	11.2	11.2	-	90
95	18.5	18.5	17.3	15.4	15.4	15.4	12.7	12.7	11.9	11.2	11.2	11.2	-	95
100	18.5	18.5	17.0	15.4	15.4	15.4	12.7	12.7	11.5	11.2	11.2	11.2	-	100
105	18.5	18.5	16.7	15.4	15.4	15.4	12.7	12.7	11.2	11.2	11.2	11.2	-	105
110	18.5	18.3	16.5	15.4	15.4	15.4	12.7	12.4	10.9	11.2	11.2	11.0	-	110
115	17.8	18.0	16.4	15.4	15.4	15.1	12.7	11.9	10.6	11.2	11.2	10.7	-	115
120	16.7	17.5	16.2	15.4	15.3	14.8	12.7	11.5	10.4	11.2	11.2	10.4	-	120
125	15.8	16.6	16.0	15.3	14.9	14.5	12.7	11.2	10.1	11.2	11.2	10.3	-	125
130	15.1	15.1	15.8	13.9	14.4	13.9	12.7	11.0	9.9	11.2	11.2	10.1	-	130
135	13.9	14.1	14.8	12.7	13.8	13.6	12.6	10.7	9.8	11.2	10.8	9.9	-	135
140	12.8	13.4	13.7	11.9	12.9	13.2	12.1	10.4	9.5	11.0	10.4	9.6	-	140
145	11.8	12.9	12.9	11.4	11.8	12.6	11.1	10.1	9.2	10.4	10.1	9.4	-	145
150	10.5	11.6	12.4	11.1	10.5	11.4	10.1	9.9	9.0	9.6	9.8	9.2	-	150
155	10.1	10.6	11.4	10.3	9.6	10.4	9.2	9.6	8.9	8.7	9.4	9.1	-	155
160	9.8	9.7	10.4	9.5	9.0	9.4	8.3	9.1	8.7	7.9	8.8	8.8	-	160
165	9.6	8.9	9.5	8.6	8.8	8.4	7.3	8.3	8.4	7.0	7.9	8.4	-	165
170	8.9	8.4	8.4	7.8	8.5	8.1	6.7	7.5	8.1	6.2	7.1	8.0	-	170
175	8.1	8.2	7.9	7.1	7.8	8.0	6.0	6.9	7.4	5.5	6.4	7.2	-	175
180	7.3	7.8	7.7	6.4	7.1	7.5	5.3	6.1	6.6	4.9	5.7	6.3	-	180
185	6.7	7.2	-	5.7	6.4	6.8	4.6	5.3	5.9	4.2	5.0	5.5	-	185
190	6.1	6.6	-	5.0	5.7	6.1	3.9	4.6	5.2	3.5	4.4	4.8	-	190
195	5.5	6.1	-	4.6	5.2	5.5	3.5	4.1	4.6	3.0	3.8	4.2	-	195
200	4.9	5.5	-	4.1	4.6	-	2.9	3.5	-	2.5	3.2	3.6	-	200
205	4.4	4.9	-	3.5	4.0	-	-	2.9	-	-	2.7	3.1	-	205
210	3.9	4.4	-	3.0	3.5	-	-	2.4	-	-	2.2	2.6	-	210
215	3.6	3.9	-	2.5	3.0	-	-	-	-	-	-	-	-	215
220	3.1	3.3	-	-	2.5	-	-	-	-	-	-	-	-	220

Notes to Lifting Capacity

Ratings are in compliance with ASME B30.5.

Lifting capacities do not exceed 85 % of tipping load.

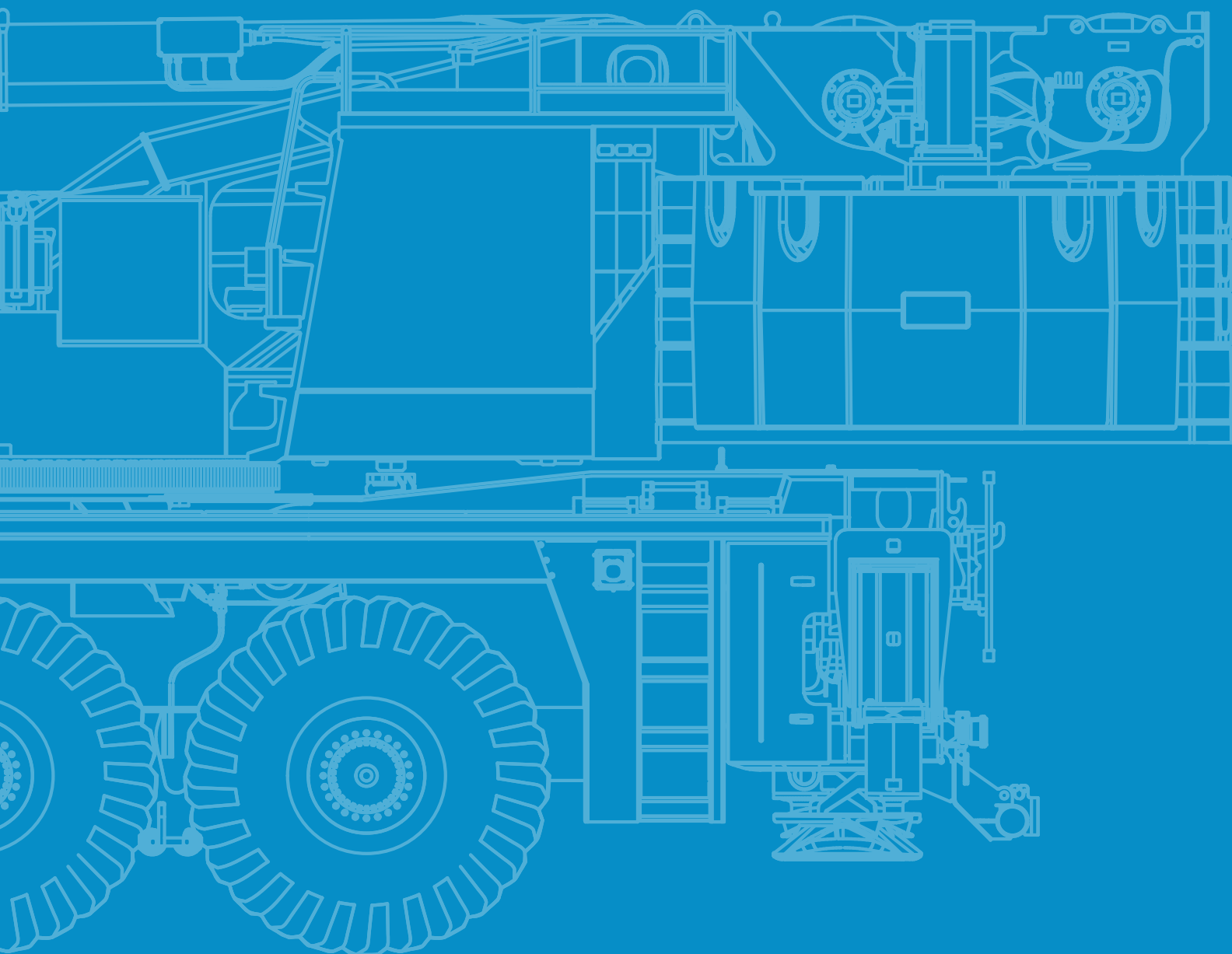
Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings.

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	171 gallons Diesel (no RME / biodiesel); 11 gallons Ad-Blue tank.
Transmission ZF TraXon	Automated manual transmission with integrated hydraulic secondary retarder, 12 forward gears, and two reverse gears; Two-stage transfer case with engageable center-differential 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 ABS, acting on all wheels; Disc brakes; Additional two-stage decompression brake; Spring-loaded parking brake. Retarder as a non-wearing continuous service brake integrated into the transmission.
Tires	Tires size 385/95 R25 (14.00R25); Steel rim 9,5-25/1,7"
Cab 2850	Type 9.35 ft; Adjustable driver seat, armrests and pneumatic suspension; Height and tilt-adjustable steering wheel; Auxiliary/passenger seat; Powered door windows; Tinted glass; Electrically adjustable rear-view mirrors, heated; Radio; Seat heating; Heating engine-dependent; Aircondition.
Rear view camera	Display in carrier cab; Camera mounted 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: 9.0 ft, 13.6 ft, 18.1 ft, 22.7 ft and 27.2 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

Telescopic boom	44.4 ft - 259.3 ft; Single cylinder telescoping system, automatic telescoping; Attachments for all equipment and extensions; 5 sheaves integrated in boom head for max. capacity of 209,000 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 109,400 lbs	7 pieces (① – ⑤); Automatic rigging system.
Control system	Enabling 4 simultaneous working movements; Electric pilot controls via 2 two-axis joysticks; Different control modes selectable for hydraulic circuits.
Operator aids	IC-1, 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.
Working range limiter	Displaying and programmability of the work range limits by IC-1.
IC-1 Plus	Smart crane control system for main boom operation enabling higher lifting capacities especially over outriggers. Enables safe use of the full capacity of the crane even in asymmetric outrigger configurations. Outriggers can be positioned independently. Capacity precalculation for +/- 30° slewing angle and radius area. In-cab lift simulation.
IC-1 Remote	IC-1 Remote, Tadano telematic system.
Cab 875	Type 2.87 ft; Tilt infinitely variable 16°; Sliding window rear; Fold-out front window; Extendable side pedestal, front pedestal; Handrails; Tinted safety glass; Pull-down sun visor; Radio; Seat heating; Heating engine-independent; Aircondition.
Central lubrication	Automatic 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 1, 2, 4, 5 driven and equipped with selectable transverse lock.
Wear-free auxiliary brake	Wear-free auxiliary eddy-current brake.
Tires	10 tires; Tire size 445/95R25 (16.00R25) or 525/80 (20.5R25).
Tadano Surround View	360° view during road travelling; Indication in display of carrier cabin. Usable as assistance system when entering jobsite with indication of outrigger positions and tailswing of counterweight.

Superstructure

Heavy lift attachment	2 additional sheaves; Dis-/connectable; For total 7 sheaves at boom head; Max. capacity 305,800 lbs.
2. hoist (H2)	Spring-loaded multi-disc brake; Integrated resolver (hoist rotation indicator); Quick couplings; Incl. hoist monitoring.
Additional counterweight 67,000 lbs	4 pieces; for total 176,400 lbs.
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.

Handling

Remote control	Rigging and superstructure movements controlled via radio remote control.
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Extensions

FOJ 3.6 ft + 15.4 ft	Folding swing-away jib, manual offset 20°/40°; 3-sheaves head; Incl. transport storage.
FOJ 3.6 ft + 35.8 ft	Folding swing-away jib, manual offset 20°/40°; 1-sheave head; Incl. transport storage.
19.7 ft adapter	Lattice adapter for usage with FOJ; Possible configurations FOJ 23.3 ft + 15.4 ft – FOJ 23.3 ft + 75.1 ft.
FOJ 19.7 ft inserts	Up to 3 x 19.7 ft intermediate section for usage with FOJ, self-rigging possible.
HOJ	Hydraulic, stepless offset 0°-40°, instead of the manual offset; Available for HOJ 3.6 ft + 15.4 ft – HOJ 3.6 ft + 94.8 ft and HOJ 23.3 ft + 15.4 ft – HOJ 23.3 ft + 75.1 ft.
R (runner)	1.3 ft + 3.9 ft; Variable assembly jib with manual offset; 1-sheave, for max. 43,400 lbs lifting capacity.

Hook Blocks

Hook block 352,800 lbs, 7-sheaves	Max. capacity 305,800 lbs; 2,870 lbs; Double hook, red with white signal stripes.
Hook block 275,600 lbs, 5-sheaves	Max. capacity 228,700 lbs; 2,540 lbs; Double hook, red with white signal stripes.
Hook block 176,400 lbs, 3-sheaves	Max. capacity 148,400 lbs; 1,760 lbs; Double hook, red with white signal stripes.
Hook block 176,400 lbs, 3-sheaves	Max. capacity 148,400 lbs; 1,760 lbs; Single hook, red with white signal stripes.
Hook block 70,500 lbs, 1-sheave	Max. capacity 64,800 lbs; 990 lbs; Single hook, red with white signal stripes.
Hook 22,050 lbs	Max. capacity 21,800 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.



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