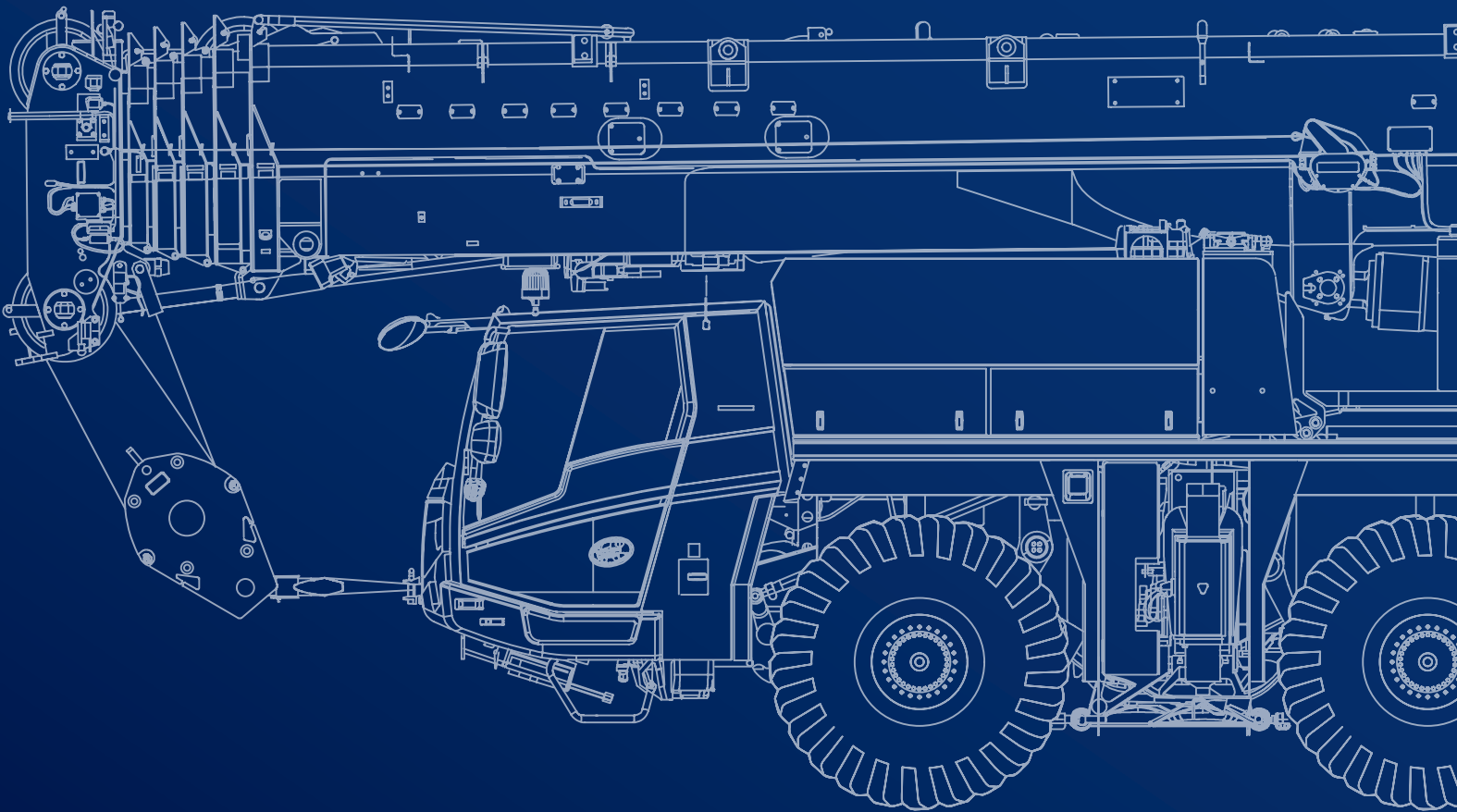


# AC 5.140-1

**160 US TON MAX. CRANE CAPACITY**



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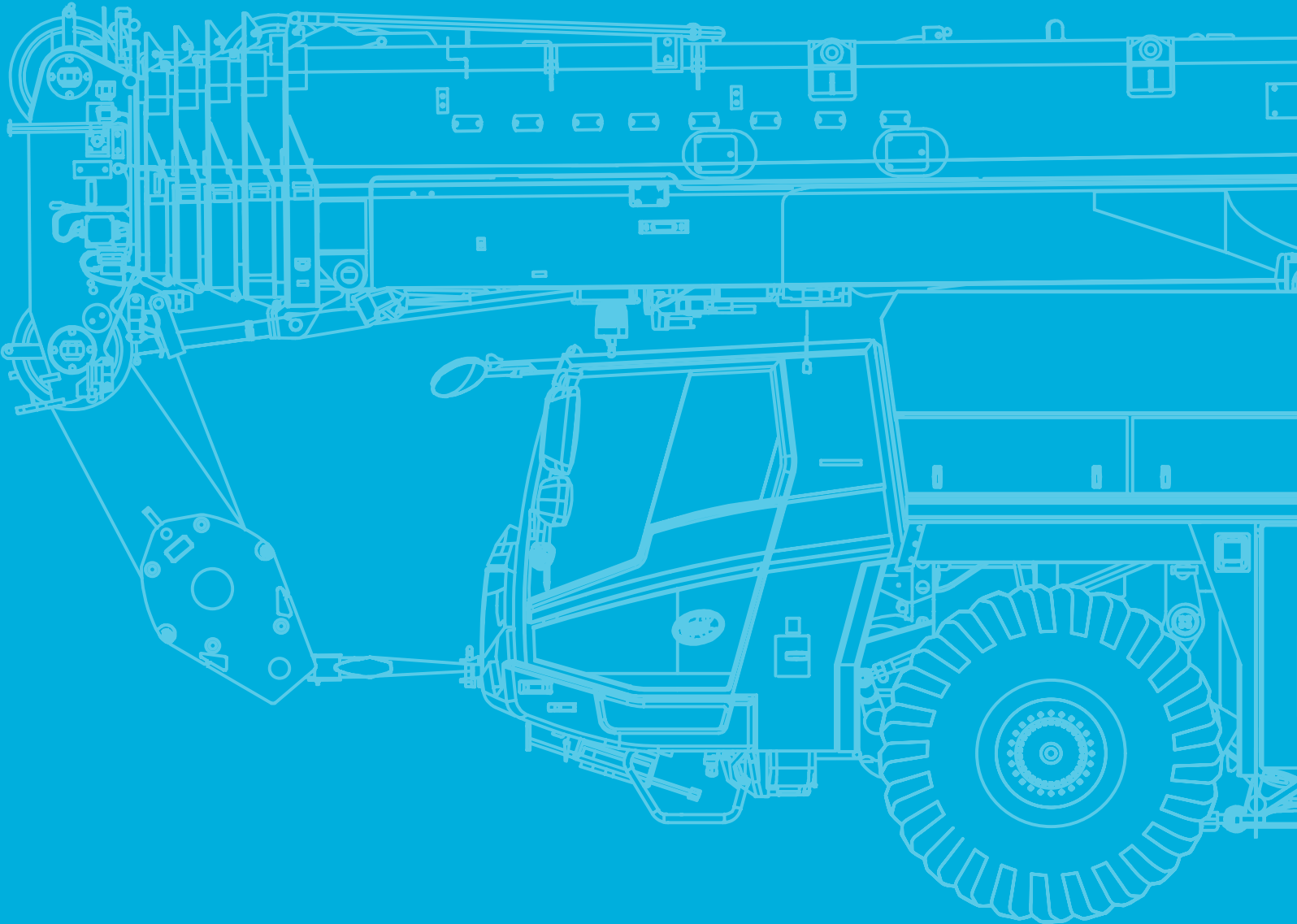
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# Key



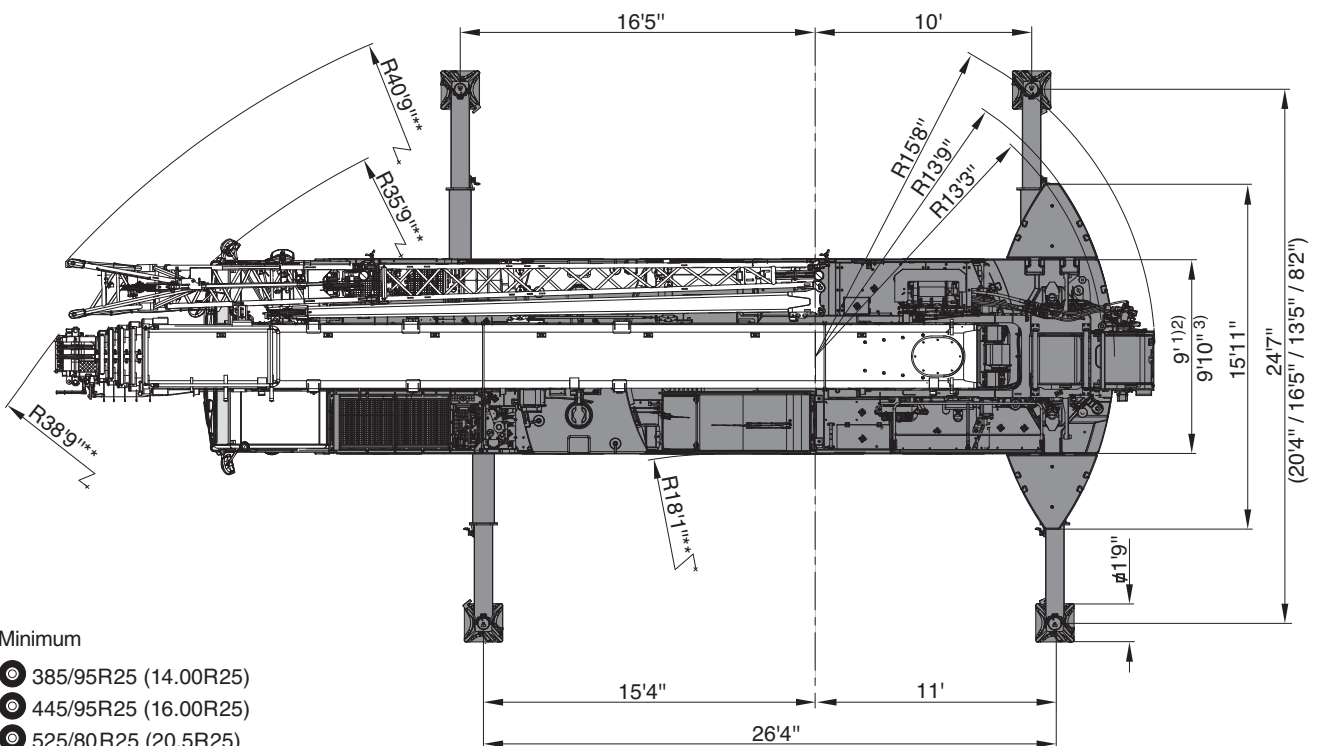
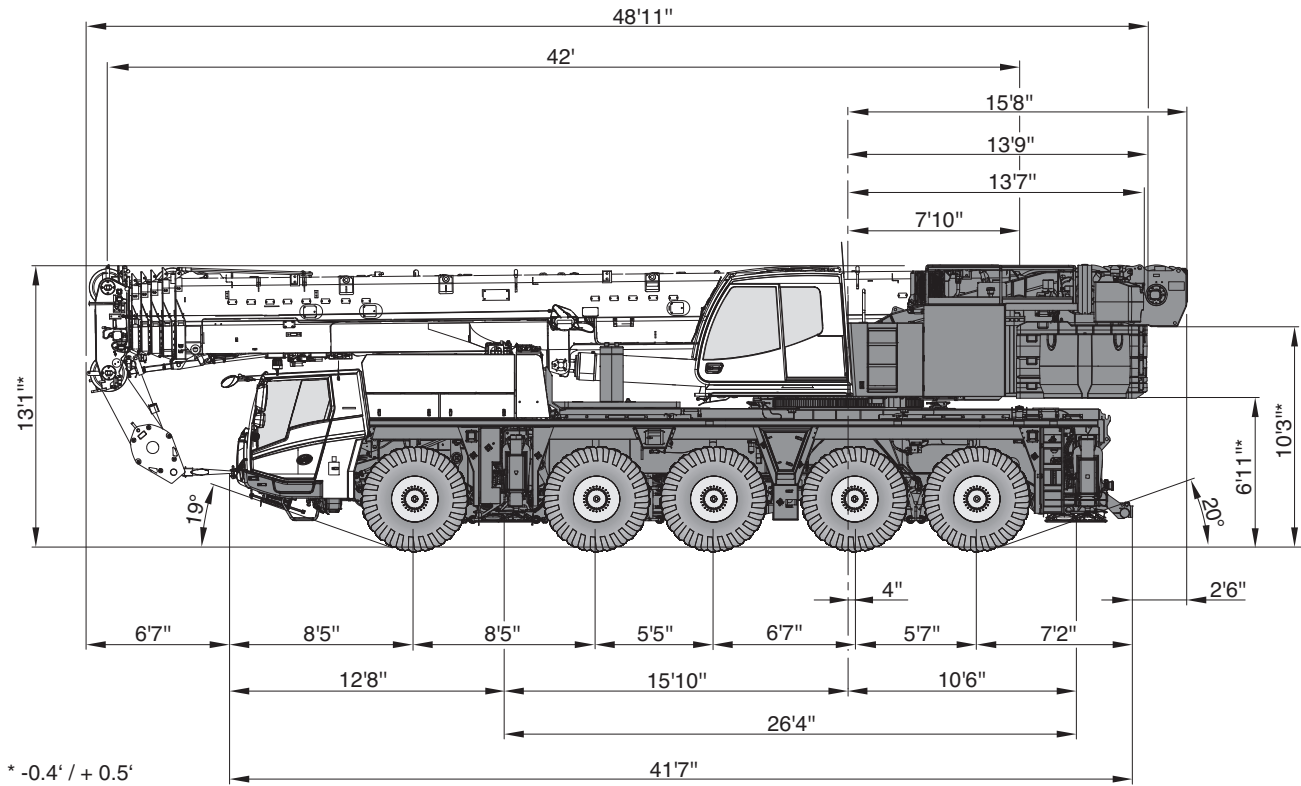
	Counterweight		Boom telescoping
	Lifting capacities on outriggers · 360°		Boom elevation
	Radius		Slewing
	Main boom		Max. line pull
	Folding swing-away jib		Rope diameter
	Max. axle loads		Rope length
	Mechanism		Hook block
	Tires		Number of lines
	Hook block		Possible load of hook block
	Hoist		Weight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

# GENERAL TECHNICAL DATA



# General

## Vehicle dimensions

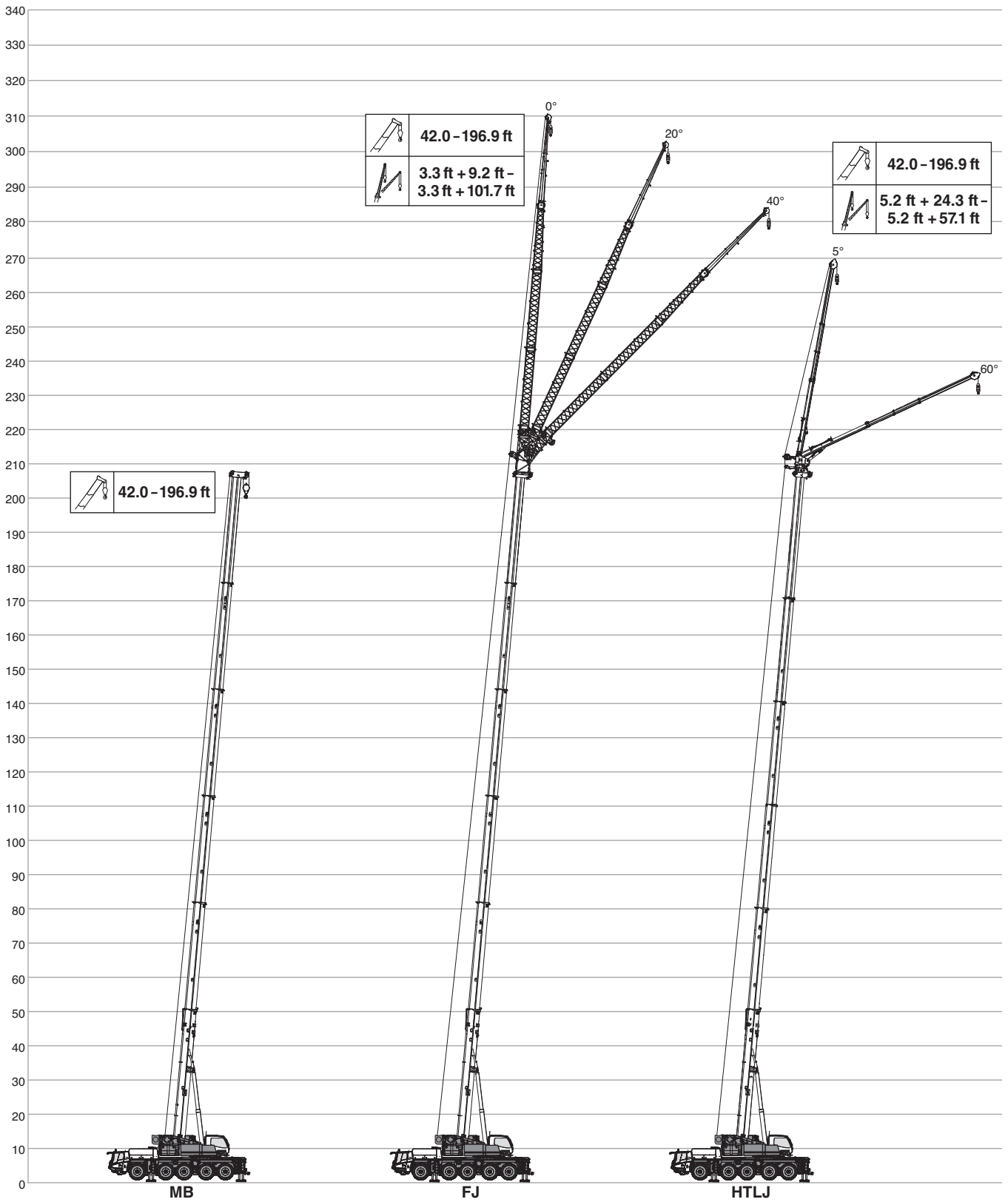


\*\* Minimum

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

# General

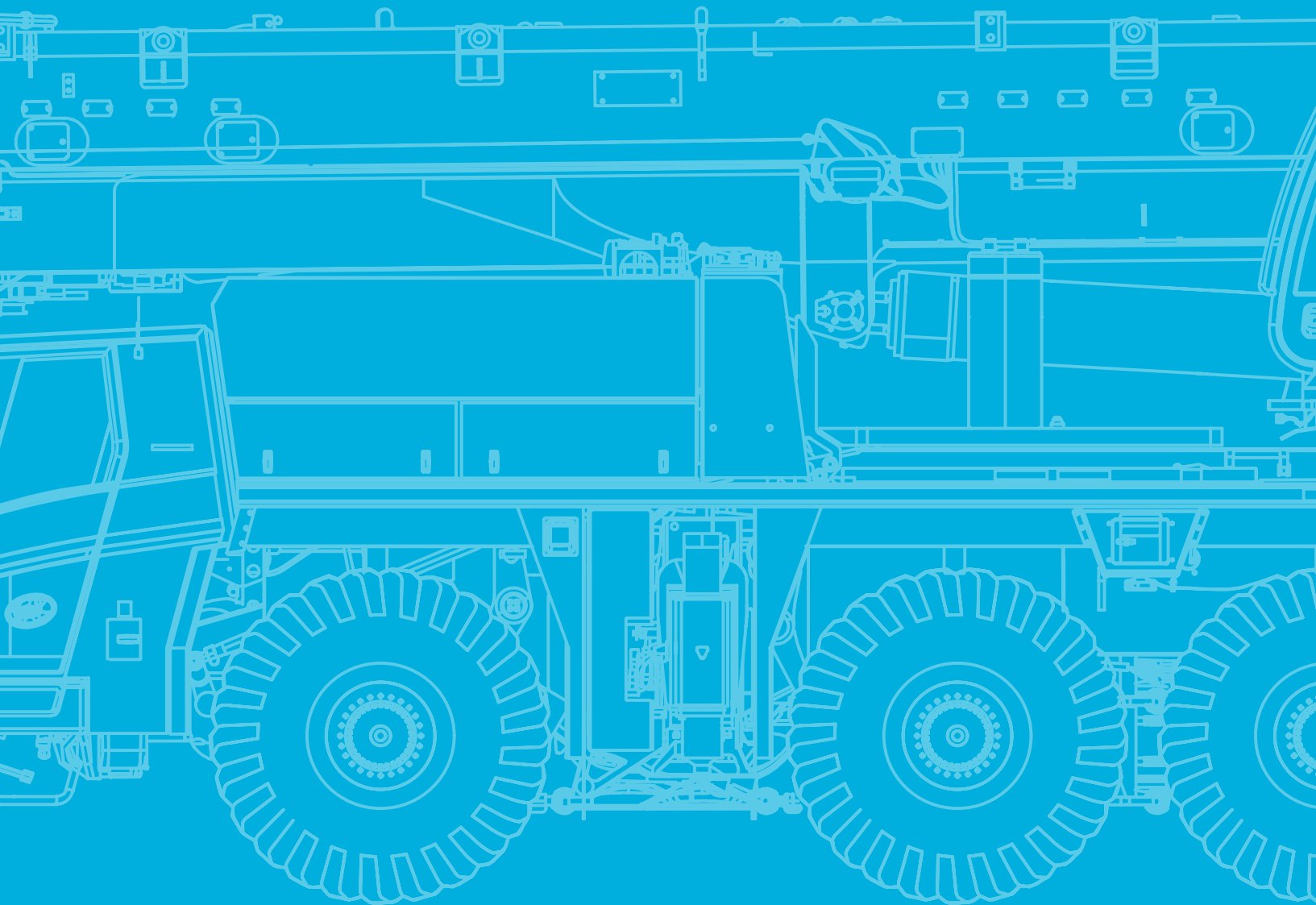
## Boom combinations




















# TECHNICAL DATA FOR ON-ROAD AND OFF-ROAD DRIVING












# On-road and off-road driving

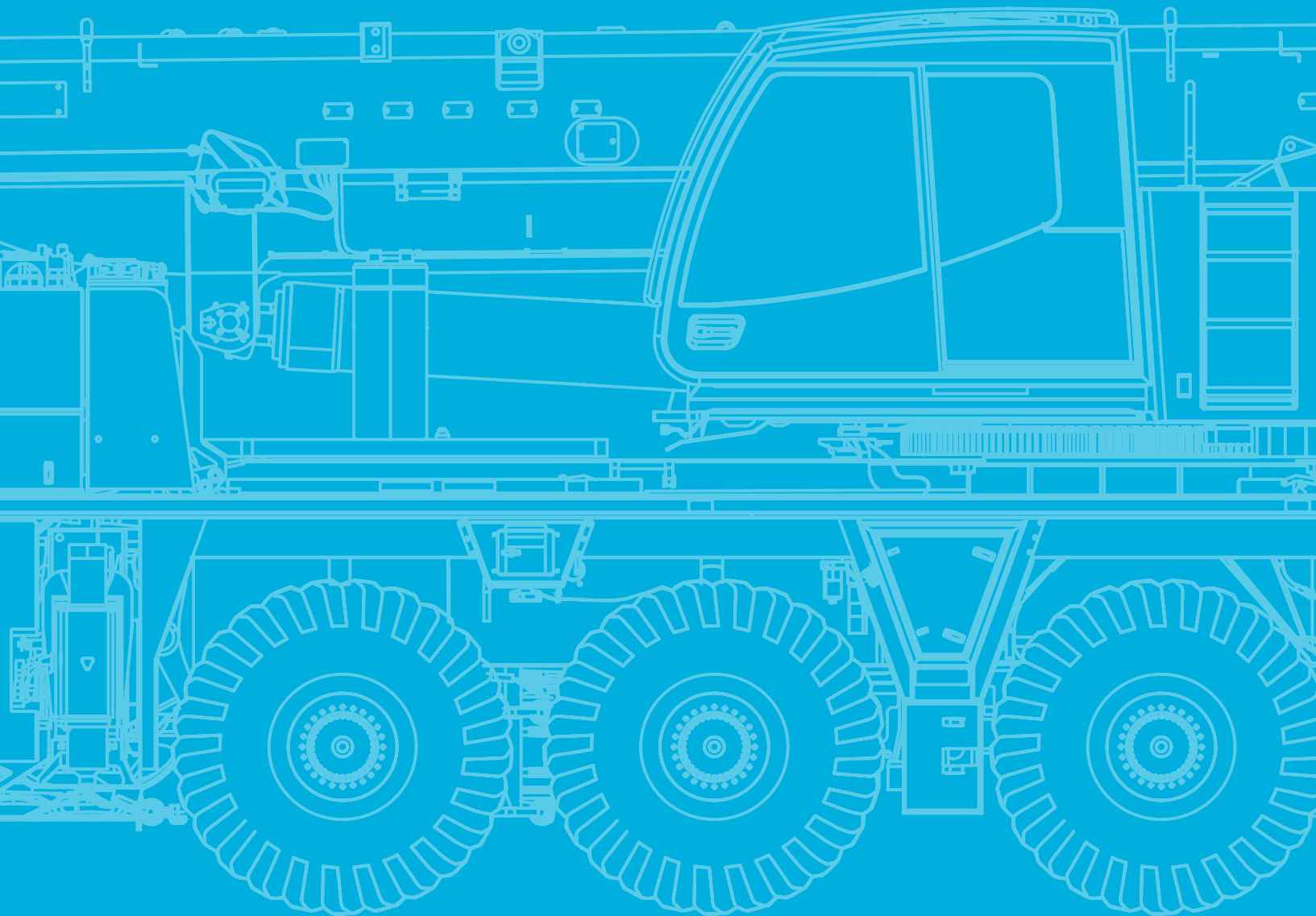
Axle loads						
	Total					
< 25,250 lbs	< 125,700 lbs	10 x 8	525/95R25	138,900 lbs	3.3 ft + 55.7 ft	6,400 lbs
< 26,500 lbs	< 132,300 lbs	10 x 8	445/95R25	138,900/22,050 lbs	3.3 ft + 55.7 ft	13,200 lbs
< 26,500 lbs	< 132,300 lbs	10 x 8	445/95R25	138,900 lbs	—	18,300 lbs
< 28,700 lbs	< 141,100 lbs	10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

Speeds and gradeability			
	385/95 R 25 14.00 R 25	445/95 R 25 16.00 R 25	525/80 R 25 20.50 R 25
 %	64 %	57 %	57 %
 %	72 %	63 %	63 %
 	49.7 mph <sup>1)</sup>	52.8 mph <sup>1)</sup>	52.8 mph <sup>1)</sup>
 	23.6 mph <sup>1)</sup>	26.1 mph <sup>1)</sup>	26.1 mph <sup>1)</sup>

<sup>1)</sup> Depending on tire type, size and country specific legislation

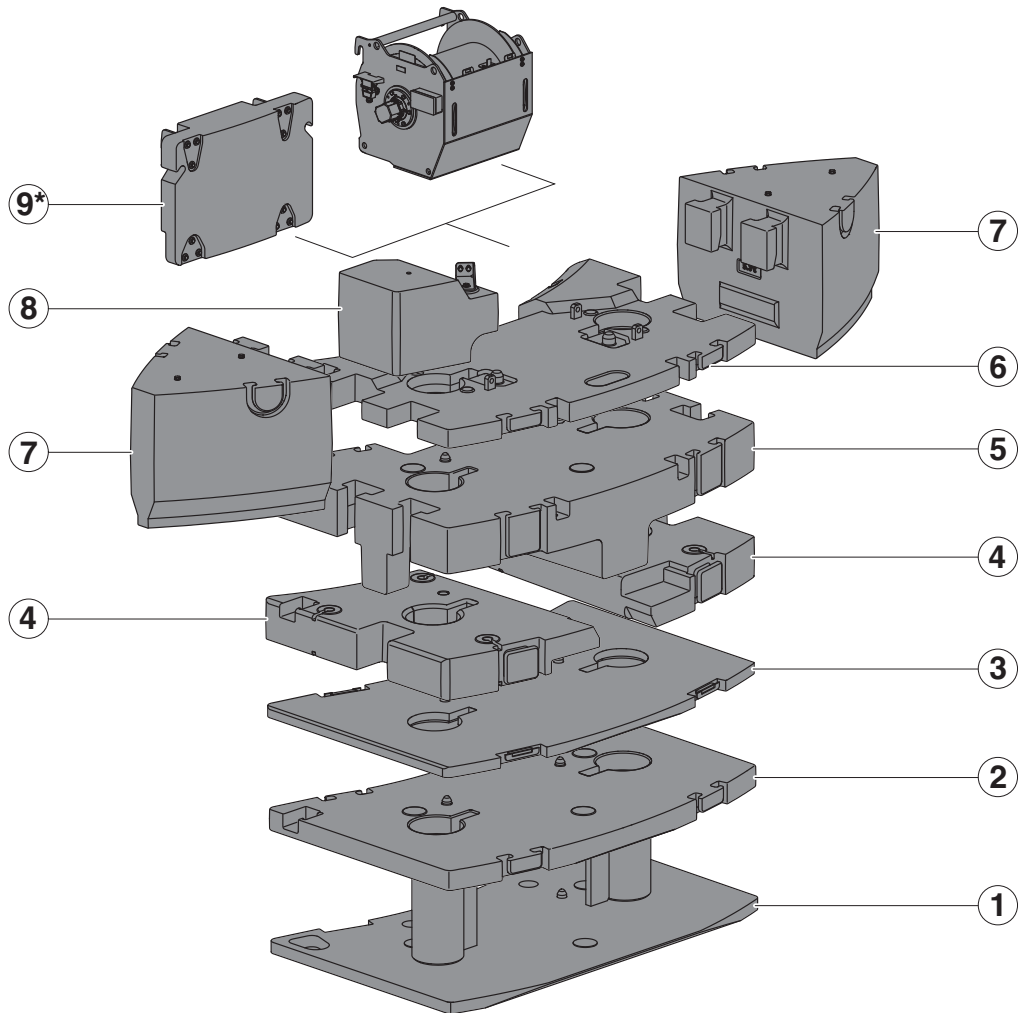
Steering	
	 v < 18.6 mph
	 18.6 mph ≤ v ≤ 31.1 mph
	 v > 31.1 mph
	 Manually steered
	 Minimum turning radius
	 Crab steer mode
	 Rear veering suppression

# TECHNICAL DATA FOR TRANSPORT



# Transportation

## Counterweight



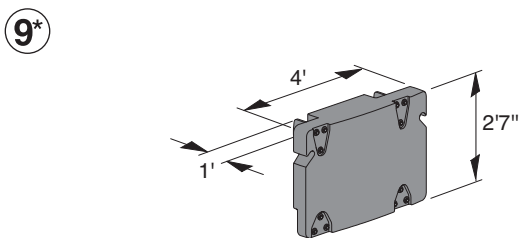
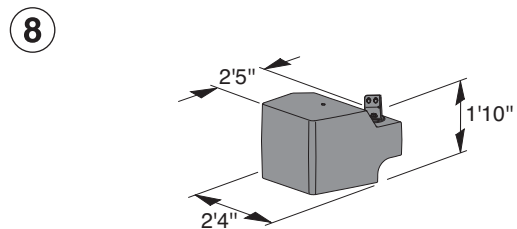
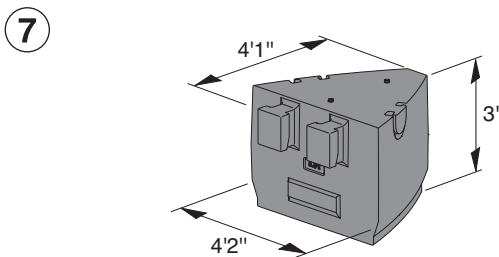
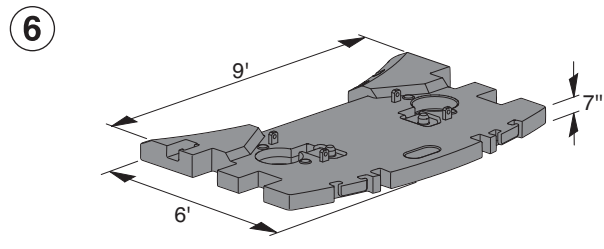
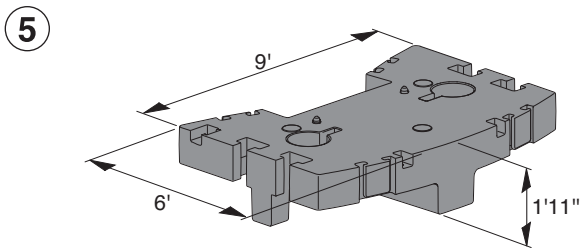
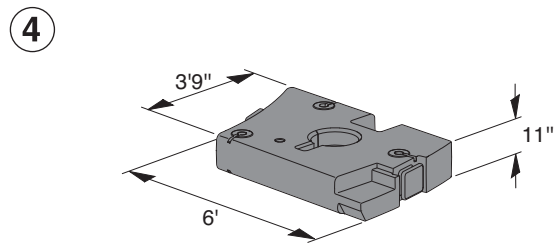
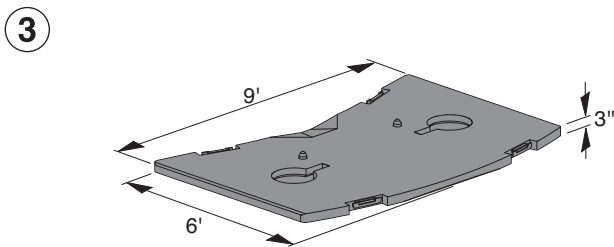
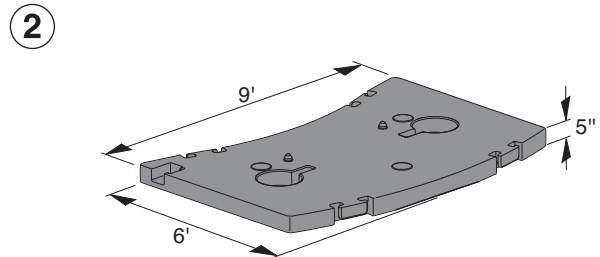
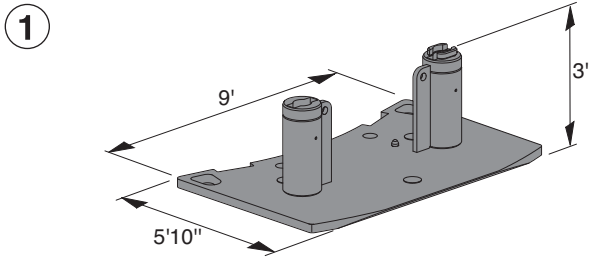
## Configurations

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

\* Can be replaced by 2<sup>nd</sup> hoist

# Transportation

## Counterweight

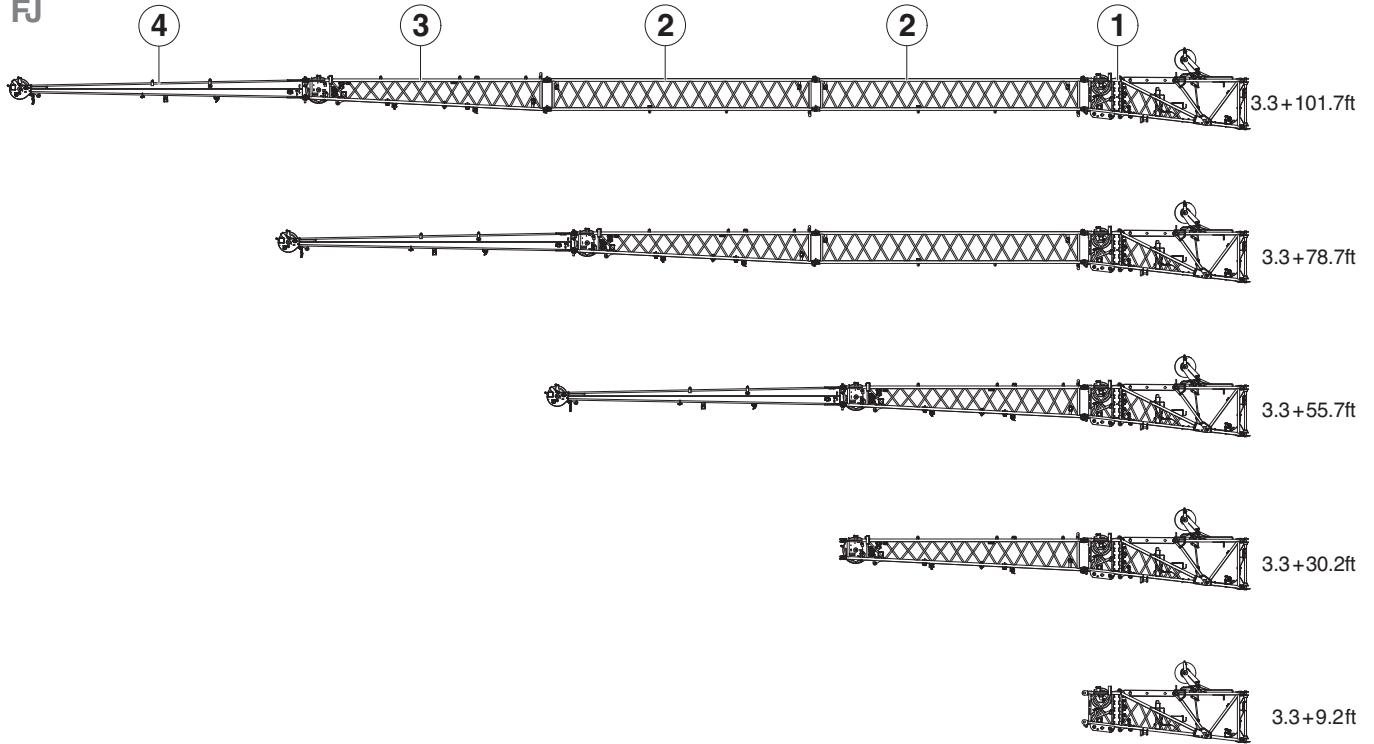


\* Can be replaced by 2<sup>nd</sup> hoist

# Transportation

## Jib

FJ

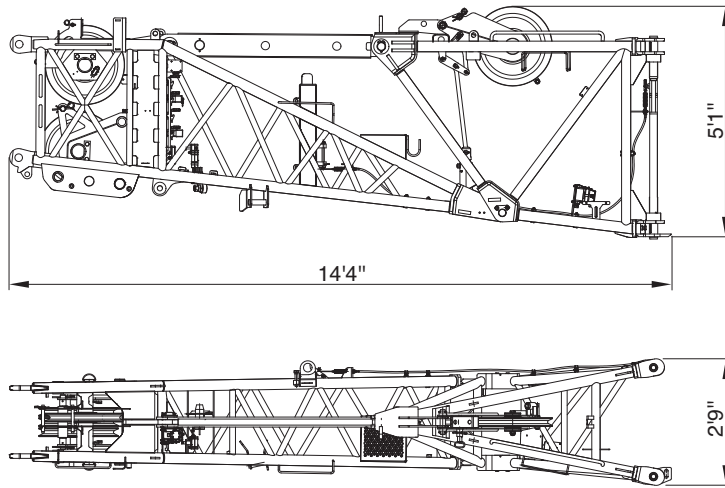


# Transportation

## Jib

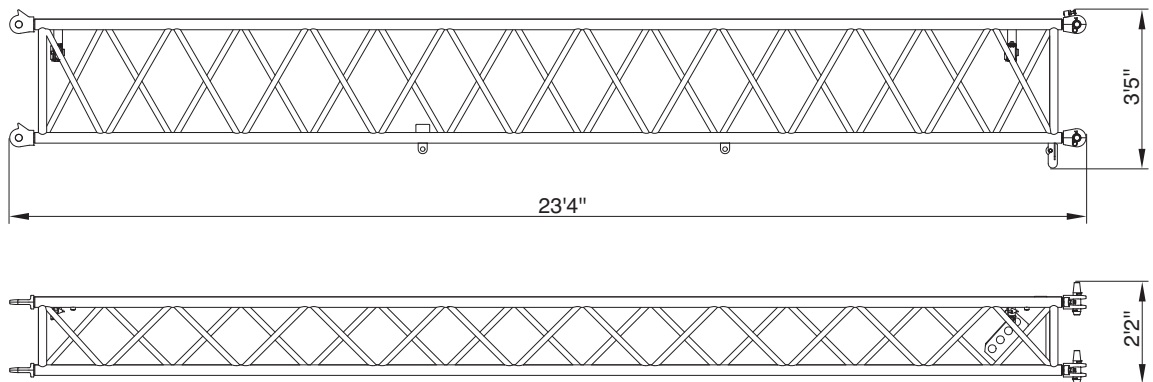
1

lbs  
1,900



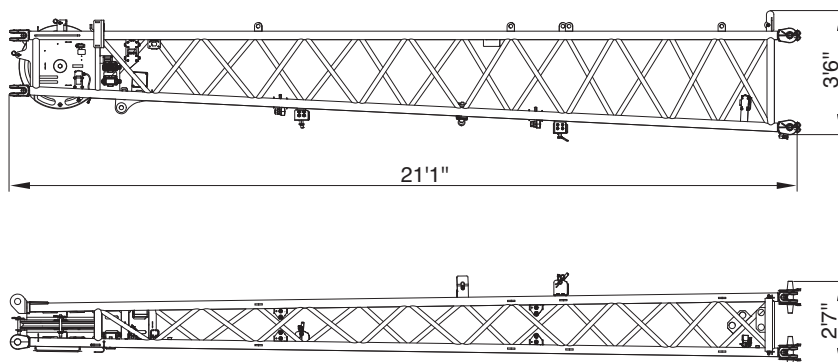
2

lbs  
1,100



3

lbs  
1,000

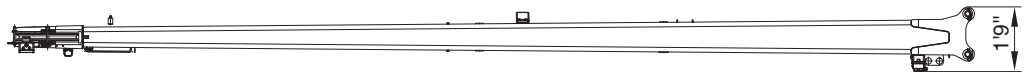
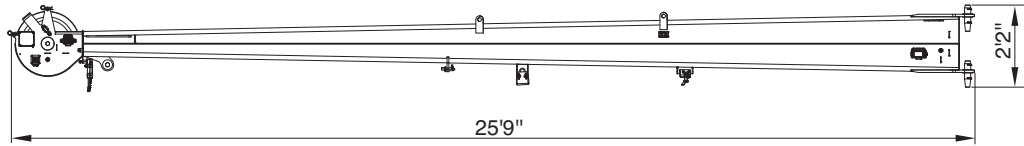


# Transportation

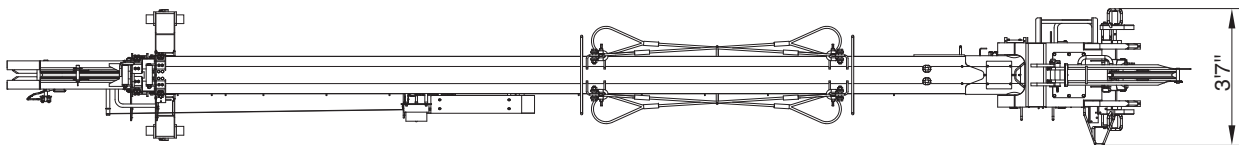
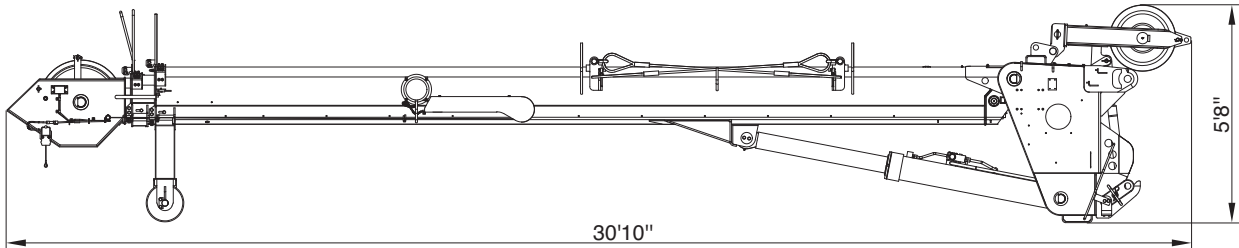
Jib

4

lbs  
900

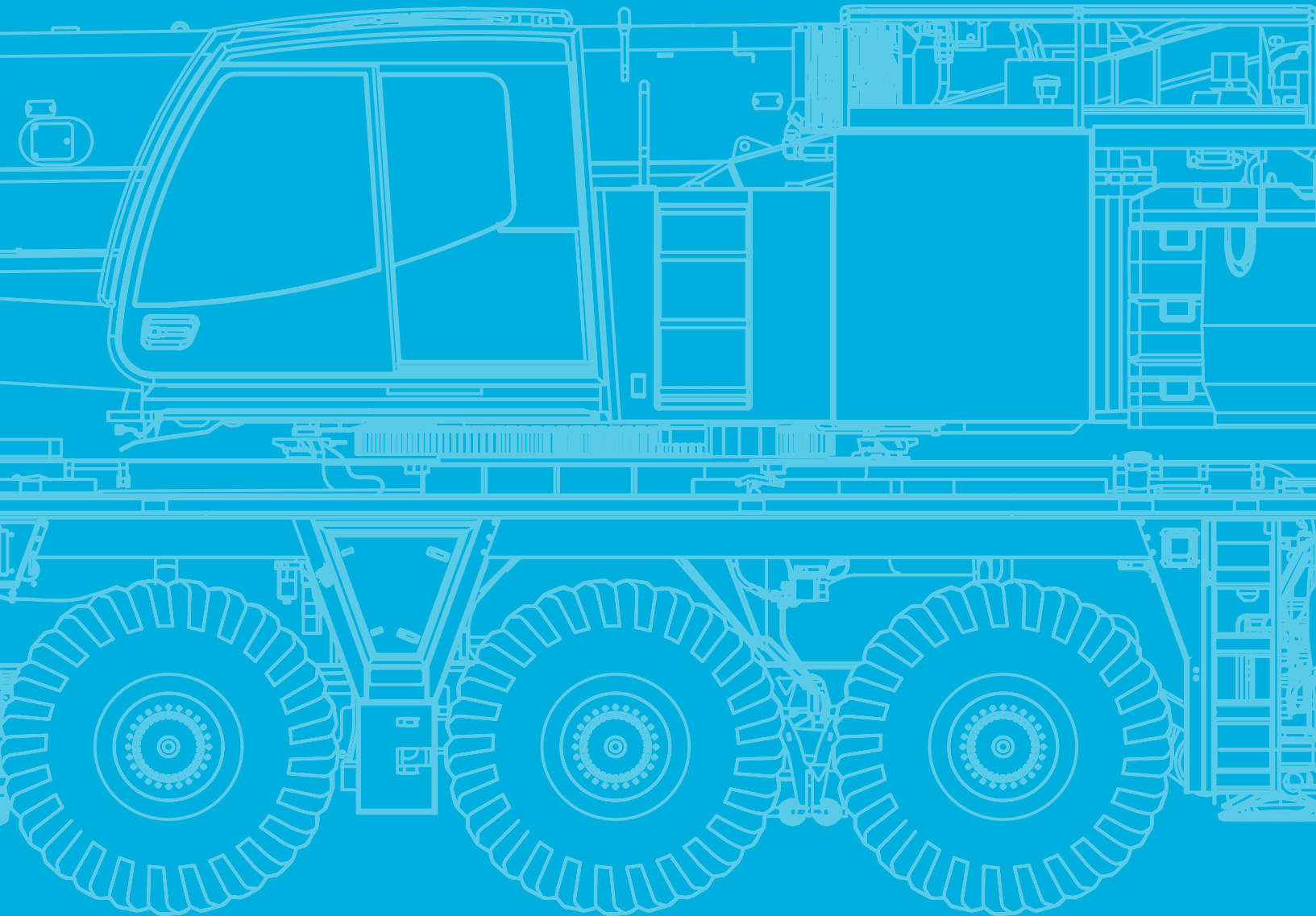


lbs  
4,950





# TECHNICAL DATA FOR OPERATION





# Operation

## Main boom



approx. 470 s (42.0 ft - 196.9 ft)



approx. 45 s (-0,5° - 84,9°)

## Slewing



0 - 1.6 min<sup>-1</sup>

## Hoist

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

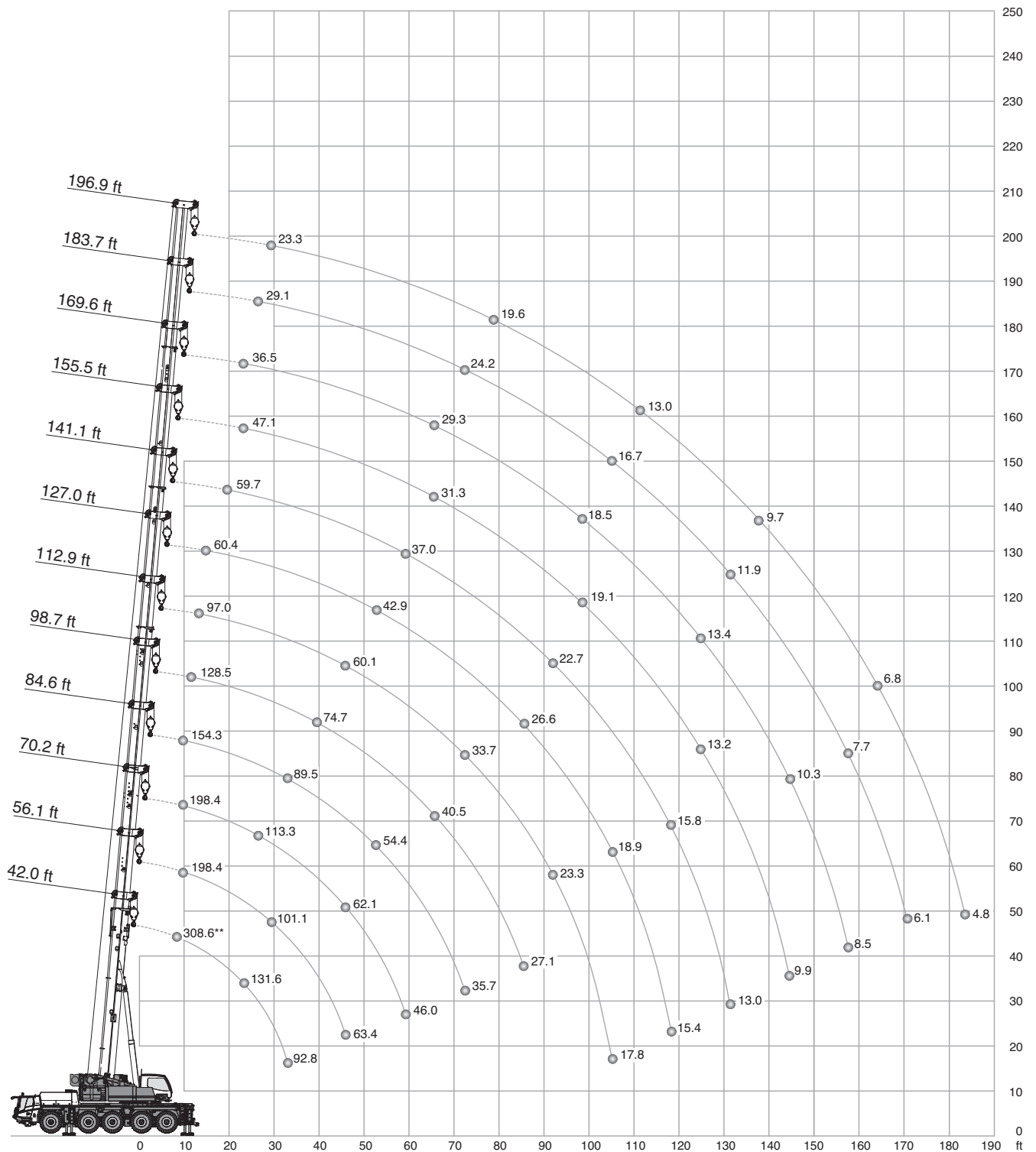
## Outrigger cylinders

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

## Hook Blocks



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



\*\* Max. crane capacity – with additional special equipment

# Operation

93,500 lbs		24.6 ft x 26.2 ft										360°		ASME B30.5			
42.0*		42.0	56.1	70.2	84.6	98.7	(ft)					196.9					
ft		1,000 lbs													ft		
8.2	308.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2
8.9	286.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9
9.8	245.8	231.4	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	-	-	9.8
11.5	222.4	211.6	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	-	-	11.5
13.1	203.0	194.8	194.4	193.5	154.3	125.0	97.0	-	-	-	-	-	-	-	-	-	13.1
14.8	186.7	180.3	179.8	179.2	154.3	120.1	97.0	60.4	-	-	-	-	-	-	-	-	14.8
16.4	172.6	167.5	167.3	166.4	154.3	113.3	97.0	72.3	-	-	-	-	-	-	-	-	16.4
19.7	149.4	146.3	145.9	144.8	145.9	110.2	93.4	72.3	59.7	-	-	-	-	-	-	-	19.7
23.0	131.6	128.5	128.7	126.9	128.0	109.3	84.8	72.3	59.7	47.1	36.5	-	-	-	-	-	23.0
26.2	117.0	113.3	113.9	113.3	112.8	101.8	81.7	72.0	59.7	47.1	36.5	29.1	-	-	-	-	26.2
29.5	105.3	100.5	101.1	100.9	100.0	95.4	78.7	67.2	59.7	47.1	36.5	29.1	23.3	-	-	-	29.5
32.8	92.8	89.5	90.6	90.3	89.5	89.9	74.5	62.3	57.7	47.1	36.5	29.1	23.3	-	-	-	32.8
36.1	-	-	81.7	81.5	80.6	82.2	70.3	58.2	54.6	46.9	36.5	29.1	23.3	-	-	-	36.1
39.4	-	-	74.9	74.0	74.2	74.7	66.5	54.4	51.1	45.4	36.5	29.1	23.3	-	-	-	39.4
45.9	-	-	63.4	62.1	63.7	62.6	60.1	48.0	44.9	42.3	35.4	29.1	23.3	-	-	-	45.9
52.5	-	-	-	53.7	54.4	53.3	54.8	42.9	40.1	38.3	33.5	28.4	23.3	-	-	-	52.5
59.1	-	-	-	46.0	45.6	46.5	46.0	38.5	37.0	34.6	31.5	27.1	23.3	-	-	-	59.1
65.6	-	-	-	-	39.0	40.5	39.2	35.0	33.7	31.3	29.3	25.5	22.9	-	-	-	65.6
72.2	-	-	-	-	35.7	35.0	33.7	32.1	30.8	28.2	26.4	24.2	21.1	-	-	-	72.2
78.7	-	-	-	-	-	30.6	29.3	28.4	28.4	25.5	24.0	23.1	19.6	-	-	-	78.7
85.3	-	-	-	-	-	27.1	25.7	26.6	25.7	23.3	22.0	21.6	18.0	-	-	-	85.3
91.9	-	-	-	-	-	-	23.3	23.8	22.7	21.3	20.0	19.8	16.5	-	-	-	91.9
98.4	-	-	-	-	-	-	22.2	21.1	20.0	19.1	18.5	18.0	15.2	-	-	-	98.4
105.0	-	-	-	-	-	-	17.8	18.9	17.8	17.6	16.9	16.7	13.8	-	-	-	105.0
111.5	-	-	-	-	-	-	-	16.9	16.7	16.5	15.6	15.6	13.0	-	-	-	111.5
118.1	-	-	-	-	-	-	-	15.4	15.8	14.7	14.3	14.3	11.9	-	-	-	118.1
124.7	-	-	-	-	-	-	-	-	14.3	13.2	13.4	13.2	11.0	-	-	-	124.7
131.2	-	-	-	-	-	-	-	-	-	13.0	11.9	12.5	11.9	10.3	-	-	131.2
137.8	-	-	-	-	-	-	-	-	-	-	10.8	11.4	10.5	9.7	-	-	137.8
144.4	-	-	-	-	-	-	-	-	-	-	9.9	10.3	9.4	9.0	-	-	144.4
150.9	-	-	-	-	-	-	-	-	-	-	-	9.4	8.5	8.3	-	-	150.9
157.5	-	-	-	-	-	-	-	-	-	-	-	8.5	7.7	7.7	-	-	157.5
164.0	-	-	-	-	-	-	-	-	-	-	-	-	6.8	6.8	-	-	164.0
170.6	-	-	-	-	-	-	-	-	-	-	-	-	6.1	5.9	-	-	170.6
177.2	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	177.2
183.7	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8	-	-	183.7

\* over rear

\*\* Max. crane capacity – with additional special equipment

# Operation

MB

70,100 lbs		24.6 ft x 26.2 ft											360°		ASME B30.5	
		(ft)														
		42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9		
ft		1,000 lbs													ft	
8.9	286.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9
9.8	241.1	229.2	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	-	9.8
11.5	218.2	209.6	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	-	11.5
13.1	199.2	192.9	192.6	191.8	154.3	125.0	97.0	-	-	-	-	-	-	-	-	13.1
14.8	183.2	178.5	178.3	177.4	154.3	120.1	97.0	60.4	-	-	-	-	-	-	-	14.8
16.4	169.3	165.3	164.9	164.0	154.3	113.3	97.0	72.3	-	-	-	-	-	-	-	16.4
19.7	146.6	142.6	142.1	140.8	142.1	110.2	93.4	72.3	59.7	-	-	-	-	-	-	19.7
23.0	128.9	123.2	123.8	123.2	122.5	109.3	84.8	72.3	59.7	47.1	36.5	-	-	-	-	23.0
26.2	114.8	107.8	108.4	108.2	107.1	101.8	81.7	72.0	59.7	47.1	36.5	29.1	-	-	-	26.2
29.5	103.1	95.2	95.9	95.6	94.7	95.4	78.7	67.2	59.7	47.1	36.5	29.1	23.3	-	-	29.5
32.8	92.8	85.0	85.7	85.5	84.4	86.2	74.5	62.3	57.7	47.1	36.5	29.1	23.3	32.8	-	32.8
36.1	-	-	78.2	76.9	78.7	77.3	70.3	58.2	54.6	46.9	36.5	29.1	23.3	36.1	-	36.1
39.4	-	-	70.1	68.5	70.7	69.2	66.5	54.4	51.1	45.4	36.5	29.1	23.3	39.4	-	39.4
45.9	-	-	55.3	56.2	55.7	56.2	55.9	48.0	44.9	42.3	35.4	29.1	23.3	45.9	-	45.9
52.5	-	-	-	45.8	45.8	46.9	45.6	42.9	40.1	38.3	33.5	28.4	23.3	52.5	-	52.5
59.1	-	-	-	39.6	39.9	39.2	37.9	36.5	37.0	34.6	31.5	27.1	23.3	59.1	-	59.1
65.6	-	-	-	-	33.7	33.2	31.7	32.4	31.9	31.0	29.3	25.5	22.9	65.6	-	65.6
72.2	-	-	-	-	28.8	28.4	27.9	28.2	27.1	26.2	26.4	24.2	21.1	72.2	-	72.2
78.7	-	-	-	-	-	24.4	25.5	24.4	23.1	23.8	23.1	23.1	19.6	78.7	-	78.7
85.3	-	-	-	-	-	21.3	22.4	21.1	21.6	20.7	20.7	20.7	18.0	85.3	-	85.3
91.9	-	-	-	-	-	-	19.8	18.5	19.1	18.0	18.9	18.0	16.5	91.9	-	91.9
98.4	-	-	-	-	-	-	17.4	16.9	16.7	15.8	16.7	15.6	15.2	98.4	-	98.4
105.0	-	-	-	-	-	-	15.6	16.0	14.9	14.7	14.7	13.8	13.8	105.0	-	105.0
111.5	-	-	-	-	-	-	-	14.3	13.8	13.6	13.0	12.1	12.1	111.5	-	111.5
118.1	-	-	-	-	-	-	-	13.0	12.7	12.1	11.6	10.5	10.5	118.1	-	118.1
124.7	-	-	-	-	-	-	-	-	11.4	10.8	10.3	9.2	9.2	124.7	-	124.7
131.2	-	-	-	-	-	-	-	-	10.3	9.7	9.0	8.1	8.1	131.2	-	131.2
137.8	-	-	-	-	-	-	-	-	-	8.8	8.1	7.0	7.0	137.8	-	137.8
144.4	-	-	-	-	-	-	-	-	-	7.7	7.0	6.1	6.1	144.4	-	144.4
150.9	-	-	-	-	-	-	-	-	-	-	6.3	5.2	5.2	150.9	-	150.9
157.5	-	-	-	-	-	-	-	-	-	-	5.5	4.6	4.6	157.5	-	157.5
164.0	-	-	-	-	-	-	-	-	-	-	-	3.9	3.9	164.0	-	164.0
170.6	-	-	-	-	-	-	-	-	-	-	-	-	3.3	170.6	-	170.6
177.2	-	-	-	-	-	-	-	-	-	-	-	-	-	177.2	-	177.2
183.7	-	-	-	-	-	-	-	-	-	-	-	-	-	183.7	-	183.7

\* over rear

# Operation

MB

56,900 lbs		24.6 ft x 26.2 ft											360°		ASME B30.5	
		(ft)														
		42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9		
ft		1,000 lbs													ft	
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9
9.8	238.7	228.1	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	-	9.8
11.5	216.0	208.5	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	-	11.5
13.1	197.0	192.0	191.8	190.9	154.3	125.0	97.0	-	-	-	-	-	-	-	-	13.1
14.8	181.2	176.8	176.3	175.4	154.3	120.1	97.0	60.4	-	-	-	-	-	-	-	14.8
16.4	167.3	163.3	162.9	161.8	154.3	113.3	97.0	72.3	-	-	-	-	-	-	-	16.4
19.7	145.0	138.8	139.5	137.1	138.4	110.2	93.4	72.3	59.7	-	-	-	-	-	-	19.7
23.0	127.6	119.4	120.1	120.1	119.0	109.3	84.8	72.3	59.7	47.1	36.5	-	-	-	-	23.0
26.2	113.5	104.2	104.9	104.9	103.8	101.8	81.7	72.0	59.7	47.1	36.5	29.1	-	-	-	26.2
29.5	100.5	92.1	92.8	92.5	91.4	89.2	78.7	67.2	59.7	47.1	36.5	29.1	23.3	-	-	29.5
32.8	83.5	81.7	83.9	82.2	83.1	78.0	74.5	62.3	57.7	47.1	36.5	29.1	23.3	32.8	-	32.8
36.1	-	-	72.0	70.5	72.5	68.7	68.3	58.2	54.6	46.9	36.5	29.1	23.3	36.1	-	36.1
39.4	-	-	62.8	63.7	63.2	62.6	61.2	54.4	51.1	45.4	36.5	29.1	23.3	39.4	-	39.4
45.9	-	-	49.8	50.0	50.9	51.3	49.8	46.7	44.9	42.3	35.4	29.1	23.3	45.9	-	45.9
52.5	-	-	-	42.1	42.3	41.6	40.1	38.5	39.0	36.8	33.5	28.4	23.3	52.5	-	52.5
59.1	-	-	-	34.6	34.8	34.1	33.2	34.1	32.8	31.0	31.0	27.1	23.3	59.1	-	59.1
65.6	-	-	-	-	29.1	28.6	29.9	28.6	27.3	28.2	26.6	25.5	22.9	65.6	-	65.6
72.2	-	-	-	-	24.9	24.2	25.5	24.2	24.9	23.8	23.8	23.5	21.1	72.2	-	72.2
78.7	-	-	-	-	-	21.1	22.0	21.1	21.3	20.5	21.1	20.2	19.6	78.7	-	78.7
85.3	-	-	-	-	-	18.2	19.1	19.6	18.5	18.7	18.2	17.4	17.4	85.3	-	85.3
91.9	-	-	-	-	-	-	16.7	17.1	16.9	16.5	15.8	14.9	14.9	91.9	-	91.9
98.4	-	-	-	-	-	-	15.2	15.2	15.2	14.5	13.8	12.7	13.0	98.4	-	98.4
105.0	-	-	-	-	-	-	14.1	13.4	13.4	12.7	12.1	11.2	11.2	105.0	-	105.0
111.5	-	-	-	-	-	-	-	12.1	11.9	11.2	10.5	9.7	9.7	111.5	-	111.5
118.1	-	-	-	-	-	-	-	10.8	10.5	9.9	9.2	8.3	8.3	118.1	-	118.1
124.7	-	-	-	-	-	-	-	-	9.4	8.8	8.1	7.0	7.0	124.7	-	124.7
131.2	-	-	-	-	-	-	-	-	8.3	7.7	7.0	6.1	6.1	131.2	-	131.2
137.8	-	-	-	-	-	-	-	-	-	6.8	6.1	5.0	5.0	137.8	-	137.8
144.4	-	-	-	-	-	-	-	-	-	5.9	5.2	4.4	4.4	144.4	-	144.4
150.9	-	-	-	-	-	-	-	-	-	-	4.6	3.5	3.5	150.9	-	150.9
157.5	-	-	-	-	-	-	-	-	-	-	3.9	2.8	2.8	157.5	-	157.5
164.0	-	-	-	-	-	-	-	-	-	-	-	2.2	2.2	164.0	-	164.0

\* over rear

# Operation

MB

53,600 lbs		24.6 ft x 26.2 ft											360°		ASME B30.5		
		(ft)															
		42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9			
ft		1,000 lbs														ft	
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	
9.8	238.0	227.9	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	-	9.8	
11.5	215.3	208.3	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	-	11.5	
13.1	196.6	191.8	191.3	190.4	154.3	125.0	97.0	-	-	-	-	-	-	-	-	13.1	
14.8	180.7	176.3	175.9	174.8	154.3	120.1	97.0	60.4	-	-	-	-	-	-	-	14.8	
16.4	166.8	162.7	162.2	161.1	154.3	113.3	97.0	72.3	-	-	-	-	-	-	-	16.4	
19.7	144.6	137.7	138.4	136.2	137.3	110.2	93.4	72.3	59.7	-	-	-	-	-	-	19.7	
23.0	127.2	118.6	119.2	119.0	118.1	109.3	84.8	72.3	59.7	47.1	36.5	-	-	-	-	23.0	
26.2	113.3	103.3	104.2	104.0	102.9	100.7	81.7	72.0	59.7	47.1	36.5	29.1	-	-	-	26.2	
29.5	97.4	91.2	91.9	91.7	89.5	86.6	78.7	67.2	59.7	47.1	36.5	29.1	23.3	-	-	29.5	
32.8	80.9	79.3	81.7	80.0	80.9	75.6	74.5	62.3	57.7	47.1	36.5	29.1	23.3	32.8	-	32.8	
36.1	-	-	70.1	70.5	70.5	66.8	66.3	58.2	54.6	46.9	36.5	29.1	23.3	36.1	-	36.1	
39.4	-	-	61.0	61.9	61.5	62.6	59.3	54.4	51.1	45.4	36.5	29.1	23.3	39.4	-	39.4	
45.9	-	-	48.5	48.5	50.2	49.8	48.0	44.9	43.4	42.3	35.4	29.1	23.3	45.9	-	45.9	
52.5	-	-	-	40.5	40.7	40.1	38.8	37.9	37.4	35.4	33.5	28.4	23.3	52.5	-	52.5	
59.1	-	-	-	33.2	33.5	32.8	32.6	32.8	31.7	30.6	29.9	27.1	23.3	59.1	-	59.1	
65.6	-	-	-	-	27.9	27.5	28.6	27.3	26.8	27.1	25.5	25.5	22.9	65.6	-	65.6	
72.2	-	-	-	-	23.8	23.1	24.4	23.1	23.8	22.7	23.8	22.4	21.1	72.2	-	72.2	
78.7	-	-	-	-	-	20.2	20.9	21.1	20.5	20.5	20.2	19.4	19.1	78.7	-	78.7	
85.3	-	-	-	-	-	17.4	18.2	18.7	18.0	18.0	17.6	16.5	16.5	85.3	-	85.3	
91.9	-	-	-	-	-	-	16.3	16.5	16.3	15.8	15.2	14.1	14.1	91.9	-	91.9	
98.4	-	-	-	-	-	-	15.2	14.5	14.3	13.8	13.2	12.1	12.1	98.4	-	98.4	
105.0	-	-	-	-	-	-	13.4	13.0	12.7	12.1	11.4	10.5	10.5	105.0	-	105.0	
111.5	-	-	-	-	-	-	-	11.4	11.2	10.5	9.9	9.0	9.0	111.5	-	111.5	
118.1	-	-	-	-	-	-	-	10.3	9.9	9.2	8.5	7.7	7.7	118.1	-	118.1	
124.7	-	-	-	-	-	-	-	-	8.8	8.1	7.4	6.6	6.6	124.7	-	124.7	
131.2	-	-	-	-	-	-	-	-	7.9	7.2	6.6	5.5	5.5	131.2	-	131.2	
137.8	-	-	-	-	-	-	-	-	-	6.1	5.7	4.6	4.6	137.8	-	137.8	
144.4	-	-	-	-	-	-	-	-	-	5.5	4.8	3.9	3.9	144.4	-	144.4	
150.9	-	-	-	-	-	-	-	-	-	-	4.1	3.0	3.0	150.9	-	150.9	
157.5	-	-	-	-	-	-	-	-	-	-	3.5	2.4	2.4	157.5	-	157.5	
164.0	-	-	-	-	-	-	-	-	-	-	-	1.9	1.9	164.0	-	164.0	

\* over rear



# Operation

MB

48,100 lbs		24.6 ft x 26.2 ft											360°		ASME B30.5	
		(ft)														
		42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9		
ft		1,000 lbs													ft	
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9
9.8	236.7	227.2	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	-	9.8
11.5	214.5	207.8	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	-	11.5
13.1	195.7	190.9	190.4	189.5	154.3	125.0	97.0	-	-	-	-	-	-	-	-	13.1
14.8	179.8	175.2	174.8	173.7	154.3	120.1	97.0	60.4	-	-	-	-	-	-	-	14.8
16.4	166.2	160.9	160.4	159.3	154.3	113.3	97.0	72.3	-	-	-	-	-	-	-	16.4
19.7	143.9	136.0	136.6	134.9	135.5	110.2	93.4	72.3	59.7	-	-	-	-	-	-	19.7
23.0	126.5	117.0	117.7	117.5	116.4	109.3	84.8	72.3	59.7	47.1	36.5	-	-	-	-	23.0
26.2	112.6	101.8	102.5	102.5	98.5	95.6	81.7	72.0	59.7	47.1	36.5	29.1	-	-	-	26.2
29.5	92.5	89.7	90.6	90.3	88.1	82.2	78.7	67.2	59.7	47.1	36.5	29.1	23.3	-	-	29.5
32.8	76.7	75.3	77.8	75.8	76.7	71.6	70.7	62.3	57.7	47.1	36.5	29.1	23.3	32.8	-	32.8
36.1	-	-	66.5	67.4	67.0	66.3	62.6	58.2	54.6	46.9	36.5	29.1	23.3	36.1	-	36.1
39.4	-	-	57.7	58.6	58.2	59.7	55.7	52.0	50.0	45.4	36.5	29.1	23.3	39.4	-	39.4
45.9	-	-	45.6	47.3	47.8	47.1	44.9	41.8	42.1	39.6	35.4	29.1	23.3	45.9	-	45.9
52.5	-	-	-	37.9	38.1	37.4	36.8	37.4	35.0	33.5	32.8	28.4	23.3	52.5	-	52.5
59.1	-	-	-	31.0	31.3	30.6	31.9	30.6	29.5	29.7	27.7	27.1	23.3	59.1	-	59.1
65.6	-	-	-	-	26.0	25.5	26.8	25.5	26.2	25.1	25.5	24.0	22.9	65.6	-	65.6
72.2	-	-	-	-	22.7	21.8	22.7	22.9	22.2	22.7	22.0	20.7	20.2	72.2	-	72.2
78.7	-	-	-	-	-	18.7	19.4	20.0	19.6	19.4	18.7	17.8	17.6	78.7	-	78.7
85.3	-	-	-	-	-	16.0	17.4	17.4	17.4	16.7	16.0	14.9	15.2	85.3	-	85.3
91.9	-	-	-	-	-	-	15.8	15.2	15.2	14.5	13.8	12.7	12.7	91.9	-	91.9
98.4	-	-	-	-	-	-	13.8	13.4	13.2	12.5	11.9	11.0	11.0	98.4	-	98.4
105.0	-	-	-	-	-	-	12.3	11.9	11.6	11.0	10.3	9.2	9.4	105.0	-	105.0
111.5	-	-	-	-	-	-	-	10.5	10.1	9.4	9.0	7.9	7.9	111.5	-	111.5
118.1	-	-	-	-	-	-	-	9.2	9.0	8.3	7.7	6.8	6.8	118.1	-	118.1
124.7	-	-	-	-	-	-	-	-	7.9	7.2	6.6	5.7	5.7	124.7	-	124.7
131.2	-	-	-	-	-	-	-	-	7.0	6.3	5.7	4.6	4.6	131.2	-	131.2
137.8	-	-	-	-	-	-	-	-	-	5.5	4.8	3.7	3.7	137.8	-	137.8
144.4	-	-	-	-	-	-	-	-	-	4.6	3.9	3.0	3.0	144.4	-	144.4
150.9	-	-	-	-	-	-	-	-	-	-	3.3	2.4	2.4	150.9	-	150.9
157.5	-	-	-	-	-	-	-	-	-	-	2.8	-	-	157.5	-	157.5

\* over rear

# Operation

MB

34,800 lbs		24.6 ft x 26.2 ft											360°		ASME B30.5	
		(ft)														
		42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9		
ft		1,000 lbs													ft	
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9
9.8	234.3	226.1	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	-	9.8
11.5	212.0	206.7	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	-	11.5
13.1	193.5	188.4	188.0	187.1	154.3	125.0	97.0	-	-	-	-	-	-	-	-	13.1
14.8	177.9	171.9	171.2	170.1	154.3	120.1	97.0	60.4	-	-	-	-	-	-	-	14.8
16.4	164.2	156.5	156.0	154.7	154.3	113.3	97.0	72.3	-	-	-	-	-	-	-	16.4
19.7	142.4	131.8	132.4	132.4	128.3	110.2	93.4	72.3	59.7	-	-	-	-	-	-	19.7
23.0	125.2	113.0	113.7	112.6	103.6	99.8	84.8	72.3	59.7	47.1	36.5	-	-	-	-	23.0
26.2	100.5	97.4	98.5	93.2	90.3	83.7	81.7	72.0	59.7	47.1	36.5	29.1	-	-	-	26.2
29.5	80.6	78.9	81.7	80.9	77.1	75.6	70.1	65.0	59.7	47.1	36.5	29.1	23.3	-	-	29.5
32.8	66.5	65.9	68.3	69.2	66.1	65.4	60.8	56.4	53.7	47.1	36.5	29.1	23.3	32.8	-	32.8
36.1	-	-	58.2	59.0	60.8	57.3	53.3	49.3	47.6	46.0	36.5	29.1	23.3	36.1	-	36.1
39.4	-	-	50.7	52.6	52.9	50.9	47.1	45.8	43.8	41.0	36.5	29.1	23.3	39.4	-	39.4
45.9	-	-	38.3	40.1	40.5	39.9	39.0	38.1	35.4	35.2	32.8	29.1	23.3	45.9	-	45.9
52.5	-	-	-	31.7	31.9	31.5	32.8	31.5	31.3	29.3	29.1	27.3	23.3	52.5	-	52.5
59.1	-	-	-	25.7	26.6	26.0	26.8	27.3	26.2	26.2	24.9	22.9	22.4	59.1	-	59.1
65.6	-	-	-	-	22.9	21.3	22.4	22.9	22.9	22.2	21.1	19.4	19.1	65.6	-	65.6
72.2	-	-	-	-	19.4	17.8	20.0	19.4	19.1	18.7	18.0	16.5	16.3	72.2	-	72.2
78.7	-	-	-	-	-	16.5	16.9	16.5	16.3	15.8	15.2	14.1	13.8	78.7	-	78.7
85.3	-	-	-	-	-	14.3	14.7	14.3	13.8	13.4	12.7	11.6	11.6	85.3	-	85.3
91.9	-	-	-	-	-	-	12.7	12.3	12.1	11.4	10.8	9.7	9.7	91.9	-	91.9
98.4	-	-	-	-	-	-	11.0	10.5	10.3	9.7	9.0	8.1	8.1	98.4	-	98.4
105.0	-	-	-	-	-	-	9.7	9.2	9.0	8.3	7.7	6.6	6.8	105.0	-	105.0
111.5	-	-	-	-	-	-	-	7.9	7.7	7.0	6.3	5.5	5.5	111.5	-	111.5
118.1	-	-	-	-	-	-	-	7.0	6.6	5.9	5.2	4.4	4.4	118.1	-	118.1
124.7	-	-	-	-	-	-	-	-	5.7	5.0	4.4	3.5	3.5	124.7	-	124.7
131.2	-	-	-	-	-	-	-	-	4.8	4.1	3.5	2.6	2.6	131.2	-	131.2
137.8	-	-	-	-	-	-	-	-	-	3.5	2.8	1.9	1.9	137.8	-	137.8
144.4	-	-	-	-	-	-	-	-	-	2.8	2.2	-	-	144.4	-	144.4

\* over rear

# Operation

MB

27,100 lbs		24.6 ft x 26.2 ft											360°		ASME B30.5	
42.0*		42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9			
ft		(ft)												ft		
		1,000 lbs														
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	
9.8	232.8	225.5	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	9.8	
11.5	210.7	205.2	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	11.5	
13.1	192.4	186.9	186.5	185.1	154.3	125.0	97.0	-	-	-	-	-	-	-	13.1	
14.8	176.8	169.0	168.4	167.3	154.3	120.1	97.0	60.4	-	-	-	-	-	-	14.8	
16.4	163.3	153.6	154.5	152.1	153.0	113.3	97.0	72.3	-	-	-	-	-	-	16.4	
19.7	141.3	129.1	130.0	129.6	117.9	110.2	93.4	72.3	59.7	-	-	-	-	-	19.7	
23.0	120.1	110.4	111.3	103.6	99.6	91.7	84.2	72.3	59.7	47.1	36.5	-	-	-	23.0	
26.2	92.1	89.7	92.5	87.5	82.8	80.6	74.5	68.5	59.7	47.1	36.5	29.1	-	-	26.2	
29.5	73.6	72.5	75.1	74.5	70.1	68.5	63.2	58.4	55.5	47.1	36.5	29.1	23.3	-	29.5	
32.8	60.6	59.9	62.8	63.4	62.8	59.0	54.6	50.4	49.3	46.9	36.5	29.1	23.3	32.8	32.8	
36.1	-	-	53.5	55.5	54.8	51.8	48.5	47.6	44.0	41.2	36.5	29.1	23.3	36.1	36.1	
39.4	-	-	45.4	47.3	47.6	45.8	43.4	42.3	39.6	38.8	36.1	29.1	23.3	39.4	39.4	
45.9	-	-	34.1	35.9	36.1	35.7	36.8	33.9	33.7	31.5	31.0	29.1	23.3	45.9	45.9	
52.5	-	-	-	28.2	29.3	28.4	29.3	29.9	27.9	27.5	26.0	24.0	23.3	52.5	52.5	
59.1	-	-	-	22.9	24.4	22.9	24.6	24.4	24.4	23.3	21.8	20.0	19.6	59.1	59.1	
65.6	-	-	-	-	20.2	19.6	20.9	20.5	20.0	19.6	18.5	16.9	16.5	65.6	65.6	
72.2	-	-	-	-	16.9	17.1	17.6	17.1	16.7	16.3	15.6	14.3	13.8	72.2	72.2	
78.7	-	-	-	-	-	14.5	14.9	14.5	14.1	13.6	13.0	11.9	11.6	78.7	78.7	
85.3	-	-	-	-	-	12.3	12.7	12.3	12.1	11.4	10.8	9.7	9.7	85.3	85.3	
91.9	-	-	-	-	-	-	11.0	10.5	10.1	9.7	9.0	7.9	7.9	91.9	91.9	
98.4	-	-	-	-	-	-	9.4	9.0	8.5	8.1	7.4	6.3	6.3	98.4	98.4	
105.0	-	-	-	-	-	-	8.1	7.7	7.4	6.8	6.1	5.0	5.2	105.0	105.0	
111.5	-	-	-	-	-	-	-	6.6	6.1	5.7	5.0	3.9	3.9	111.5	111.5	
118.1	-	-	-	-	-	-	-	5.7	5.2	4.6	3.9	3.0	3.0	118.1	118.1	
124.7	-	-	-	-	-	-	-	-	4.4	3.7	3.0	2.2	2.2	124.7	124.7	
131.2	-	-	-	-	-	-	-	-	3.7	3.0	2.4	-	-	131.2	131.2	
137.8	-	-	-	-	-	-	-	-	-	2.4	-	-	-	137.8	137.8	

\* over rear

# Operation

MB

22,050 lbs		24.6 ft x 26.2 ft											360°		ASME B30.5			
		(ft)																
		42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9				
ft		1,000 lbs											ft					
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	
9.8	231.9	225.0	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	-	-	9.8	
11.5	209.8	204.1	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	-	-	11.5	
13.1	191.5	184.9	184.5	183.4	154.3	125.0	97.0	-	-	-	-	-	-	-	-	-	13.1	
14.8	175.9	167.1	166.6	165.3	154.3	120.1	97.0	60.4	-	-	-	-	-	-	-	-	14.8	
16.4	162.7	151.8	152.7	150.1	144.6	113.3	97.0	72.3	-	-	-	-	-	-	-	-	16.4	
19.7	140.8	127.4	128.3	122.7	111.5	106.2	93.4	72.3	59.7	-	-	-	-	-	-	-	19.7	
23.0	113.5	108.9	106.2	97.8	94.3	87.0	83.5	72.3	59.7	47.1	36.5	-	-	-	-	-	23.0	
26.2	86.8	84.6	87.7	83.3	77.3	75.6	69.4	63.9	59.7	47.1	36.5	29.1	-	-	-	-	26.2	
29.5	69.2	68.3	70.9	69.4	68.3	63.9	58.8	54.2	51.5	47.1	36.5	29.1	23.3	-	-	-	29.5	
32.8	56.8	55.5	59.5	61.5	58.6	55.1	51.5	50.2	46.5	43.4	36.5	29.1	23.3	32.8	-	-	32.8	
36.1	-	-	49.6	51.5	51.1	48.0	45.8	44.3	41.8	40.3	36.5	29.1	23.3	36.1	-	-	36.1	
39.4	-	-	42.1	44.0	44.3	42.5	42.3	39.2	38.1	35.9	33.2	29.1	23.3	39.4	-	-	39.4	
45.9	-	-	31.5	33.2	33.5	33.5	34.1	33.0	31.0	30.8	29.1	26.8	23.3	45.9	-	-	45.9	
52.5	-	-	-	26.2	27.7	26.2	27.5	27.7	27.1	25.5	24.0	22.0	21.3	52.5	-	-	52.5	
59.1	-	-	-	20.9	22.4	21.8	23.1	22.7	22.4	21.3	20.0	18.2	17.8	59.1	-	-	59.1	
65.6	-	-	-	-	18.5	18.7	19.1	18.7	18.5	17.8	16.7	15.2	14.7	65.6	-	-	65.6	
72.2	-	-	-	-	15.4	15.6	16.0	15.6	15.4	14.7	14.1	12.7	12.3	72.2	-	-	72.2	
78.7	-	-	-	-	-	13.2	13.4	13.0	12.7	12.3	11.6	10.5	10.3	78.7	-	-	78.7	
85.3	-	-	-	-	-	11.0	11.4	11.0	10.8	10.1	9.4	8.5	8.5	85.3	-	-	85.3	
91.9	-	-	-	-	-	-	9.7	9.2	9.0	8.5	7.9	6.8	6.8	91.9	-	-	91.9	
98.4	-	-	-	-	-	-	8.3	7.9	7.7	7.0	6.3	5.5	5.5	98.4	-	-	98.4	
105.0	-	-	-	-	-	-	7.2	6.6	6.3	5.7	5.0	4.1	4.1	105.0	-	-	105.0	
111.5	-	-	-	-	-	-	-	5.7	5.2	4.8	4.1	3.0	3.0	111.5	-	-	111.5	
118.1	-	-	-	-	-	-	-	4.8	4.4	3.7	3.0	2.2	2.2	118.1	-	-	118.1	
124.7	-	-	-	-	-	-	-	-	3.7	3.0	2.4	-	-	124.7	-	-	124.7	
131.2	-	-	-	-	-	-	-	-	2.8	2.2	-	-	-	131.2	-	-	131.2	

18,300 lbs		24.6 ft x 26.2 ft											360°		ASME B30.5			
		(ft)																
		42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9				
ft		1,000 lbs											ft					
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	
9.8	231.2	224.8	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	-	-	9.8	
11.5	209.2	203.2	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	-	-	11.5	
13.1	190.9	183.4	182.9	181.8	154.3	125.0	97.0	-	-	-	-	-	-	-	-	-	13.1	
14.8	175.4	165.5	165.1	164.0	154.3	120.1	97.0	60.4	-	-	-	-	-	-	-	-	14.8	
16.4	162.0	150.5	151.2	149.2	138.2	113.3	97.0	72.3	-	-	-	-	-	-	-	-	16.4	
19.7	140.2	126.1	126.7	117.0	110.2	101.4	92.1	72.3	59.7	-	-	-	-	-	-	-	19.7	
23.0	108.2	104.2	102.9	95.2	89.5	86.4	78.9	72.0	59.7	47.1	36.5	-	-	-	-	-	23.0	
26.2	82.4	80.6	83.1	78.7	75.8	71.4	65.4	59.9	56.6	47.1	36.5	29.1	-	-	-	-	26.2	
29.5	65.6	64.5	67.9	66.1	64.5	60.4	56.2	54.0	50.4	46.7	36.5	29.1	23.3	-	-	-	29.5	
32.8	54.0	52.0	56.2	57.9	55.3	52.0	48.7	47.3	43.6	41.0	36.5	29.1	23.3	32.8	-	-	32.8	
36.1	-	-	46.7	48.7	48.2	45.1	44.9	41.6	40.1	37.9	35.0	29.1	23.3	36.1	-	-	36.1	
39.4	-	-	39.4	41.4	41.6	39.9	39.9	36.8	36.1	33.9	31.5	29.1	23.3	39.4	-	-	39.4	
45.9	-	-	29.3	31.0	32.6	31.3	31.9	31.7	30.6	28.8	27.1	24.9	23.3	45.9	-	-	45.9	
52.5	-	-	-	24.2	26.0	24.4	26.6	26.0	25.3	23.8	22.2	20.2	19.8	52.5	-	-	52.5	
59.1	-	-	-	19.4	20.9	21.1	21.6	21.1	20.9	19.8	18.5	16.7	16.3	59.1	-	-	59.1	
65.6	-	-	-	-	17.1	17.4	17.8	17.4	17.1	16.5	15.4	13.8	13.4	65.6	-	-	65.6	
72.2	-	-	-	-	14.3	14.3	14.7	14.3	14.1	13.4	12.7	11.4	11.2	72.2	-	-	72.2	
78.7	-	-	-	-	-	12.1	12.3	11.9	11.6	11.2	10.5	9.4	9.2	78.7	-	-	78.7	
85.3	-	-	-	-	-	10.1	10.5	10.1	9.7	9.2	8.5	7.4	7.4	85.3	-	-	85.3	
91.9	-	-	-	-	-	-	8.8	8.3	8.1	7.4	6.8	5.9	5.9	91.9	-	-	91.9	
98.4	-	-	-	-	-	-	7.4	7.0	6.8	6.1	5.5	4.6	4.6	98.4	-	-	98.4	
105.0	-	-	-	-	-	-	6.3	5.9	5.7	5.0	4.4	3.3	3.5	105.0	-	-	105.0	
111.5	-	-	-	-	-	-	-	4.8	4.6	3.9	3.3	2.4	2.4	111.5	-	-	111.5	
118.1	-	-	-	-	-	-	-	4.1	3.7	3.0	2.4	-	-	118.1	-	-	118.1	
124.7	-	-	-	-	-	-	-	-	3.0	2.4	-	-	-	124.7	-	-	124.7	
131.2	-	-	-	-	-	-	-	-	2.4	-	-	-	-	131.2	-	-	131.2	

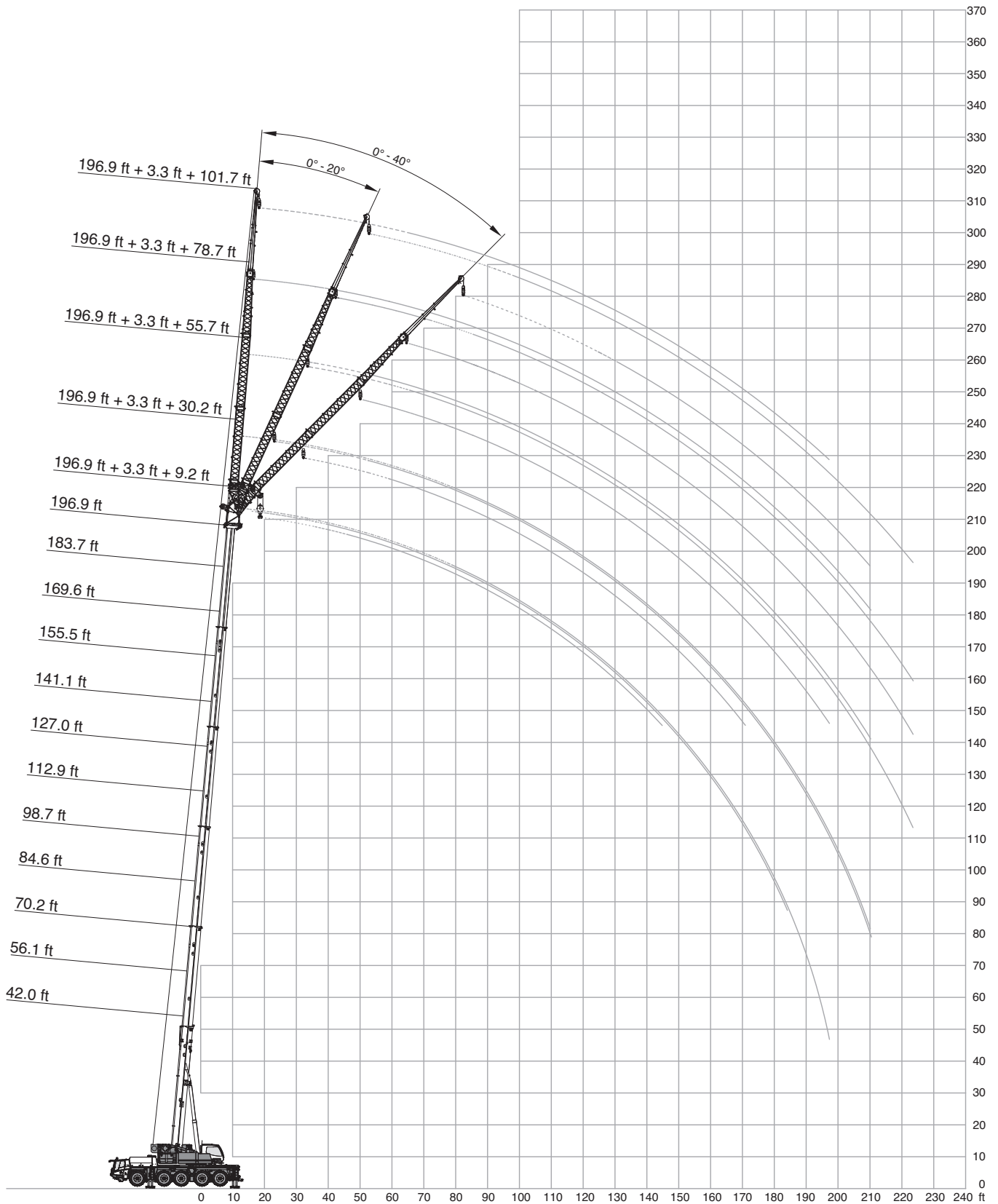
\* over rear

# Operation

13,200 lbs		24.6 ft x 26.2 ft											360°		ASME B30.5		
		(ft)															
		42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9			
ft		1,000 lbs														ft	
8.9	264.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	
9.8	230.1	223.7	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	-	9.8	
11.5	208.3	202.3	198.4	198.4	154.3	128.5	-	-	-	-	-	-	-	-	-	11.5	
13.1	190.2	181.4	180.9	179.8	154.3	125.0	97.0	-	-	-	-	-	-	-	-	13.1	
14.8	174.6	163.8	164.4	162.0	151.6	120.1	97.0	60.4	-	-	-	-	-	-	-	14.8	
16.4	161.3	148.5	149.2	145.5	129.8	113.3	97.0	72.3	-	-	-	-	-	-	-	16.4	
19.7	132.2	124.3	120.5	110.0	104.7	94.7	85.3	72.3	59.7	-	-	-	-	-	-	19.7	
23.0	101.4	98.1	96.3	90.1	82.8	80.2	72.9	66.5	59.7	47.1	36.5	-	-	-	-	23.0	
26.2	77.1	75.8	76.9	72.7	71.2	66.1	61.2	55.9	52.2	47.1	36.5	29.1	-	-	-	26.2	
29.5	61.2	59.3	63.2	63.0	59.7	55.7	52.0	50.4	46.2	42.9	36.5	29.1	23.3	-	-	29.5	
32.8	50.2	47.3	51.5	53.5	51.1	47.8	47.3	43.6	42.1	39.4	36.5	29.1	23.3	32.8	-	32.8	
36.1	-	-	42.7	44.7	44.5	41.6	41.6	38.3	37.4	34.6	31.9	29.1	23.3	36.1	-	36.1	
39.4	-	-	36.1	37.9	38.3	37.0	36.8	36.1	34.6	32.6	30.6	28.2	23.3	39.4	-	39.4	
45.9	-	-	26.6	28.6	30.2	28.6	30.8	29.1	27.9	26.2	24.6	22.4	21.8	45.9	-	45.9	
52.5	-	-	-	22.0	23.5	24.0	24.4	24.0	23.1	21.6	20.0	18.2	17.8	52.5	-	52.5	
59.1	-	-	-	17.4	18.9	19.1	19.6	19.1	18.9	17.8	16.5	14.9	14.5	59.1	-	59.1	
65.6	-	-	-	-	15.4	15.6	16.0	15.6	15.4	14.7	13.6	12.1	11.9	65.6	-	65.6	
72.2	-	-	-	-	12.7	12.7	13.2	12.7	12.5	12.1	11.2	9.9	9.7	72.2	-	72.2	
78.7	-	-	-	-	-	10.5	11.0	10.5	10.3	9.7	9.0	8.1	7.9	78.7	-	78.7	
85.3	-	-	-	-	-	8.8	9.2	8.8	8.5	7.9	7.2	6.3	6.3	85.3	-	85.3	
91.9	-	-	-	-	-	-	7.7	7.2	7.0	6.3	5.7	4.8	4.8	91.9	-	91.9	
98.4	-	-	-	-	-	-	6.3	5.9	5.7	5.0	4.4	3.5	3.5	98.4	-	98.4	
105.0	-	-	-	-	-	-	5.5	4.8	4.6	3.9	3.3	2.4	-	105.0	-	105.0	
111.5	-	-	-	-	-	-	-	3.9	3.7	3.0	2.4	-	-	111.5	-	111.5	
118.1	-	-	-	-	-	-	-	3.3	2.8	2.2	-	-	-	118.1	-	118.1	
124.7	-	-	-	-	-	-	-	-	2.2	-	-	-	-	124.7	-	124.7	

6,400 lbs		24.6 ft x 26.2 ft											360°		ASME B30.5		
		(ft)															
		42.0*	42.0	56.1	70.2	84.6	98.7	112.9	127.0	141.1	155.5	169.6	183.7	196.9			
ft		1,000 lbs														ft	
8.9	243.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	
9.8	228.3	221.5	198.4	198.4	154.3	-	-	-	-	-	-	-	-	-	-	9.8	
11.5	206.7	199.0	198.4	197.3	154.3	128.5	-	-	-	-	-	-	-	-	-	11.5	
13.1	188.4	177.9	177.4	176.3	154.3	125.0	97.0	-	-	-	-	-	-	-	-	13.1	
14.8	173.2	160.2	160.9	156.3	137.5	120.1	97.0	60.4	-	-	-	-	-	-	-	14.8	
16.4	160.0	145.2	145.9	132.0	117.5	110.2	97.0	72.3	-	-	-	-	-	-	-	16.4	
19.7	119.7	119.7	110.2	102.9	93.4	89.0	80.2	72.3	59.7	-	-	-	-	-	-	19.7	
23.0	91.2	88.8	85.0	79.5	76.9	70.9	65.2	58.4	54.6	47.1	36.5	-	-	-	-	23.0	
26.2	69.2	67.0	67.6	66.8	62.8	58.4	55.1	52.0	47.6	43.6	36.5	29.1	-	-	-	26.2	
29.5	54.6	51.3	55.9	55.5	52.6	48.9	48.2	44.3	42.5	39.6	36.3	29.1	23.3	-	-	29.5	
32.8	44.5	40.7	44.9	46.9	44.9	42.5	41.6	40.1	38.3	34.6	31.5	29.1	23.3	32.8	-	32.8	
36.1	-	-	37.0	39.0	39.0	36.8	37.0	35.7	34.1	31.9	29.9	27.3	23.3	36.1	-	36.1	
39.4	-	-	31.0	33.2	35.0	32.1	33.7	31.7	30.4	28.4	26.4	24.2	23.3	39.4	-	39.4	
45.9	-	-	22.4	24.4	26.2	26.4	26.8	25.3	24.2	22.4	20.9	18.9	18.5	45.9	-	45.9	
52.5	-	-	-	18.7	20.2	20.5	21.1	20.7	19.8	18.2	16.9	15.2	14.7	52.5	-	52.5	
59.1	-	-	-	14.5	16.0	16.3	16.7	16.3	16.0	14.9	13.6	12.1	11.6	59.1	-	59.1	
65.6	-	-	-	-	13.0	13.0	13.4	13.2	12.7	12.3	11.2	9.7	9.2	65.6	-	65.6	
72.2	-	-	-	-	10.3	10.5	11.0	10.5	10.3	9.7	9.0	7.7	7.4	72.2	-	72.2	
78.7	-	-	-	-	-	8.5	9.0	8.5	8.3	7.7	7.0	5.9	5.7	78.7	-	78.7	
85.3	-	-	-	-	-	7.0	7.2	7.0	6.6	6.1	5.5	4.4	4.4	85.3	-	85.3	
91.9	-	-	-	-	-	-	5.9	5.5	5.2	4.6	4.1	3.0	-	91.9	-	91.9	
98.4	-	-	-	-	-	-	4.8	4.4	4.1	3.5	2.8	-	-	98.4	-	98.4	
105.0	-	-	-	-	-	-	3.9	3.5	3.0	2.6	1.9	-	-	105.0	-	105.0	
111.5	-	-	-	-	-	-	-	2.6	2.4	-	-	-	-	111.5	-	111.5	
118.1	-	-	-	-	-	-	-	1.9	-	-	-	-	-	118.1	-	118.1	

\* over rear



# Operation

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

# Operation



70,100 lbs		24.6 ft x 26.2 ft						3.3 ft + 9.2 ft						360°			ASME B30.5						
42.0 ft		70.2 ft						112.9 ft						155.5 ft			196.9 ft						
0°		20°		40°		0°		20°		40°		0°		20°		40°		0°		20°		40°	
ft	1,000 lbs																						ft
9.8	-	70.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8
11.5	-	67.4	55.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	87.0	64.8	53.7	-	72.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	82.4	62.3	52.2	-	70.7	56.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	78.0	60.1	50.9	-	68.7	55.3	-	65.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	70.9	56.2	48.7	-	65.2	53.3	-	65.9	55.1	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	65.0	52.9	46.7	77.1	62.1	51.5	-	65.9	53.7	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	59.9	50.0	45.1	77.1	59.3	50.0	-	65.6	52.4	-	30.6	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	55.7	47.6	43.8	73.8	56.6	48.5	-	63.7	51.3	-	30.6	30.6	-	-	-	-	-	-	-	-	-	-	29.5
32.8	52.2	45.6	42.9	69.4	54.4	47.3	-	61.0	50.4	-	30.6	30.6	-	-	-	-	-	-	-	-	-	-	32.8
36.1	49.3	44.0	42.5	65.6	52.4	46.2	-	56.8	49.3	-	30.6	30.6	-	-	-	-	-	-	-	-	-	-	36.1
39.4	46.7	42.9	-	62.1	50.7	45.1	54.2	53.1	48.5	-	30.6	30.6	-	17.1	-	-	-	-	-	-	-	-	39.4
45.9	43.4	-	-	53.3	47.6	43.6	47.8	46.9	46.2	-	30.6	30.6	-	17.1	17.1	-	-	-	-	-	-	-	45.9
52.5	-	-	-	44.7	44.7	42.5	42.5	41.8	41.4	-	30.6	30.6	-	17.1	17.1	-	-	-	-	-	-	-	52.5
59.1	-	-	-	37.2	37.4	37.6	36.5	35.9	35.0	30.6	30.6	30.4	-	17.1	17.1	-	-	-	-	-	-	-	59.1
65.6	-	-	-	31.5	31.7	-	31.0	31.3	31.7	29.7	28.8	28.2	-	17.1	17.1	-	-	-	-	-	-	-	65.6
72.2	-	-	-	27.3	-	-	26.4	26.8	27.1	25.3	25.7	26.2	-	17.1	17.1	-	-	-	-	-	-	-	72.2
78.7	-	-	-	-	-	-	23.1	23.3	23.3	21.8	22.2	22.4	17.1	17.1	17.1	-	-	-	-	-	-	-	78.7
85.3	-	-	-	-	-	-	20.2	20.5	20.7	20.2	19.8	19.6	17.1	17.1	17.1	-	-	-	-	-	-	-	85.3
91.9	-	-	-	-	-	-	17.6	17.8	18.0	17.6	17.8	18.0	17.1	16.9	16.7	-	-	-	-	-	-	-	91.9
98.4	-	-	-	-	-	-	15.4	15.4	-	15.2	15.6	15.6	14.9	15.2	15.4	-	-	-	-	-	-	-	98.4
105.0	-	-	-	-	-	-	13.4	13.4	-	14.3	14.1	14.1	13.0	13.2	13.4	-	-	-	-	-	-	-	105.0
111.5	-	-	-	-	-	-	12.5	12.5	-	13.0	13.0	13.2	11.2	11.4	11.6	-	-	-	-	-	-	-	111.5
118.1	-	-	-	-	-	-	-	-	-	11.4	11.6	11.6	9.7	9.9	10.1	-	-	-	-	-	-	-	118.1
124.7	-	-	-	-	-	-	-	-	-	10.1	10.1	10.3	8.3	8.5	8.8	-	-	-	-	-	-	-	124.7
131.2	-	-	-	-	-	-	-	-	-	9.0	9.0	-	7.2	7.4	7.4	-	-	-	-	-	-	-	131.2
144.4	-	-	-	-	-	-	-	-	-	7.0	7.0	-	5.2	5.5	5.5	-	-	-	-	-	-	-	144.4
157.5	-	-	-	-	-	-	-	-	-	5.2	-	-	3.7	3.7	3.7	-	-	-	-	-	-	-	157.5
170.6	-	-	-	-	-	-	-	-	-	-	-	-	2.4	2.4	-	-	-	-	-	-	-	-	170.6



# Operation

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

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

# Operation



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

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

# Operation

93,500 lbs			24.6 ft x 26.2 ft			3.3 ft + 30.2 ft			360°			ASME B30.5		
42.0 ft		70.2 ft			112.9 ft			155.5 ft			196.9 ft			
0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
1,000 lbs														
ft														ft
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	-	30.4	-	-	33.0	-	-	-	-	-	-	-	-	19.7
23.0	33.0	27.9	-	-	31.9	-	-	-	-	-	-	-	-	23.0
26.2	33.0	26.0	20.5	-	29.9	21.8	-	32.4	-	-	-	-	-	26.2
29.5	32.6	24.2	19.6	-	28.2	20.9	-	30.8	-	-	-	-	-	29.5
32.8	29.7	22.7	18.7	-	26.6	20.2	-	29.5	21.1	-	-	-	-	32.8
36.1	27.3	21.3	17.8	33.0	25.3	19.6	-	28.4	20.5	-	18.5	-	-	36.1
39.4	25.1	20.2	17.1	33.0	24.2	18.9	-	27.3	20.0	-	18.5	-	-	39.4
45.9	21.6	18.2	16.0	30.6	22.0	17.8	-	25.5	19.1	-	18.5	18.5	-	45.9
52.5	18.7	16.7	15.2	26.8	20.2	16.9	-	23.8	18.2	-	18.5	18.5	-	52.5
59.1	16.5	15.4	-	23.8	18.9	16.0	32.6	22.2	17.6	18.5	18.5	18.0	-	59.1
65.6	14.7	14.7	-	21.1	17.6	15.4	29.5	21.1	16.9	18.5	18.5	17.6	-	65.6
72.2	-	-	-	19.1	16.5	14.9	26.8	20.0	16.5	18.5	18.5	17.1	-	72.2
78.7	-	-	-	17.4	15.8	14.7	24.6	18.9	15.8	18.5	18.5	16.7	12.5	78.7
85.3	-	-	-	16.0	15.2	-	22.7	18.0	15.4	18.5	18.5	16.3	12.5	85.3
91.9	-	-	-	14.7	14.7	-	20.9	17.4	15.2	18.5	18.5	15.8	12.5	91.9
98.4	-	-	-	-	-	-	19.1	16.7	14.7	18.5	17.6	15.4	12.5	98.4
105.0	-	-	-	-	-	-	18.0	16.0	14.5	17.1	16.7	15.2	12.5	105.0
111.5	-	-	-	-	-	-	16.5	15.6	14.5	15.2	15.8	14.9	12.5	111.5
118.1	-	-	-	-	-	-	14.9	14.9	-	13.6	14.3	14.5	11.6	118.1
124.7	-	-	-	-	-	-	13.6	13.8	-	12.7	12.7	13.4	11.0	124.7
131.2	-	-	-	-	-	-	12.5	12.7	-	12.1	11.6	11.9	10.3	131.2
144.4	-	-	-	-	-	-	-	-	-	9.7	10.1	10.3	9.0	144.4
157.5	-	-	-	-	-	-	-	-	-	7.9	8.1	-	7.0	157.5
170.6	-	-	-	-	-	-	-	-	-	6.8	7.0	-	5.5	170.6
183.7	-	-	-	-	-	-	-	-	-	-	-	-	4.1	183.7
196.9	-	-	-	-	-	-	-	-	-	-	-	-	3.0	196.9
210.0	-	-	-	-	-	-	-	-	-	-	-	-	1.9	210.0

# Operation



70,100 lbs			24.6 ft x 26.2 ft			3.3 ft + 30.2 ft			360°			ASME B30.5		
42.0 ft		70.2 ft			112.9 ft			155.5 ft			196.9 ft			
0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
1,000 lbs														
ft														ft
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	-	30.4	-	-	33.0	-	-	-	-	-	-	-	-	19.7
23.0	33.0	27.9	-	-	31.9	-	-	-	-	-	-	-	-	23.0
26.2	33.0	26.0	20.5	-	29.9	21.8	-	32.4	-	-	-	-	-	26.2
29.5	32.6	24.2	19.6	-	28.2	20.9	-	30.8	-	-	-	-	-	29.5
32.8	29.7	22.7	18.7	-	26.6	20.2	-	29.5	21.1	-	-	-	-	32.8
36.1	27.3	21.3	17.8	33.0	25.3	19.6	-	28.4	20.5	-	18.5	-	-	36.1
39.4	25.1	20.2	17.1	33.0	24.2	18.9	-	27.3	20.0	-	18.5	-	-	39.4
45.9	21.6	18.2	16.0	30.6	22.0	17.8	-	25.5	19.1	-	18.5	18.5	-	45.9
52.5	18.7	16.7	15.2	26.8	20.2	16.9	-	23.8	18.2	-	18.5	18.5	-	52.5
59.1	16.5	15.4	-	23.8	18.9	16.0	32.6	22.2	17.6	18.5	18.5	18.0	-	59.1
65.6	14.7	14.7	-	21.1	17.6	15.4	29.5	21.1	16.9	18.5	18.5	17.6	-	65.6
72.2	-	-	-	19.1	16.5	14.9	25.3	20.0	16.5	18.5	18.5	17.1	-	72.2
78.7	-	-	-	17.4	15.8	14.7	23.1	18.9	15.8	18.5	18.5	16.7	12.5	78.7
85.3	-	-	-	16.0	15.2	-	20.7	18.0	15.4	18.5	18.5	16.3	12.5	85.3
91.9	-	-	-	14.7	14.7	-	18.5	17.4	15.2	16.9	18.0	15.8	12.5	91.9
98.4	-	-	-	-	-	-	16.3	16.7	14.7	16.0	15.8	15.4	12.5	98.4
105.0	-	-	-	-	-	-	14.3	15.2	14.5	14.1	14.5	14.5	12.5	105.0
111.5	-	-	-	-	-	-	12.7	13.4	13.6	12.5	13.2	13.4	11.6	111.5
118.1	-	-	-	-	-	-	11.2	11.6	-	11.9	11.6	12.1	10.1	118.1
124.7	-	-	-	-	-	-	9.9	10.3	-	10.5	10.8	10.5	8.8	124.7
131.2	-	-	-	-	-	-	9.2	9.2	-	9.4	10.1	10.1	7.7	131.2
144.4	-	-	-	-	-	-	-	-	-	7.4	7.9	8.1	5.7	144.4
157.5	-	-	-	-	-	-	-	-	-	5.9	6.1	-	4.1	157.5
170.6	-	-	-	-	-	-	-	-	-	4.4	4.6	-	2.8	170.6
183.7	-	-	-	-	-	-	-	-	-	-	-	-	1.9	183.7

# Operation

48,000 lbs		24.6 ft x 26.2 ft						3.3 ft + 30.2 ft						360°			ASME B30.5		
		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft					
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°			
ft		1,000 lbs															ft		
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4	
19.7	-	30.4	-	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	19.7	
23.0	33.0	27.9	-	-	31.9	-	-	-	-	-	-	-	-	-	-	-	-	23.0	
26.2	33.0	26.0	20.5	-	29.9	21.8	-	32.4	-	-	-	-	-	-	-	-	-	26.2	
29.5	32.6	24.2	19.6	-	28.2	20.9	-	30.8	-	-	-	-	-	-	-	-	-	29.5	
32.8	29.7	22.7	18.7	-	26.6	20.2	-	29.5	21.1	-	-	-	-	-	-	-	-	32.8	
36.1	27.3	21.3	17.8	33.0	25.3	19.6	-	28.4	20.5	-	18.5	-	-	-	-	-	-	36.1	
39.4	25.1	20.2	17.1	33.0	24.2	18.9	-	27.3	20.0	-	18.5	-	-	-	-	-	-	39.4	
45.9	21.6	18.2	16.0	30.6	22.0	17.8	-	25.5	19.1	-	18.5	18.5	-	-	-	-	-	45.9	
52.5	18.7	16.7	15.2	26.8	20.2	16.9	-	23.8	18.2	-	18.5	18.5	-	12.5	-	-	-	52.5	
59.1	16.5	15.4	-	23.8	18.9	16.0	29.1	22.2	17.6	18.5	18.5	18.0	-	12.5	12.5	-	-	59.1	
65.6	14.7	14.7	-	21.1	17.6	15.4	25.7	21.1	16.9	18.5	18.5	17.6	-	12.5	12.5	-	-	65.6	
72.2	-	-	-	19.1	16.5	14.9	21.6	20.0	16.5	18.5	18.5	17.1	-	12.5	12.5	-	-	72.2	
78.7	-	-	-	17.4	15.8	14.7	18.5	18.9	15.8	16.5	18.0	16.7	12.5	12.5	12.5	-	-	78.7	
85.3	-	-	-	15.8	15.2	-	15.6	16.7	15.4	15.4	16.5	16.3	12.5	12.5	12.5	-	-	85.3	
91.9	-	-	-	14.7	14.7	-	13.8	14.5	15.2	14.3	14.3	15.2	12.1	12.5	12.5	-	-	91.9	
98.4	-	-	-	-	-	-	12.7	12.5	13.0	12.3	13.4	13.0	10.5	11.6	12.5	-	-	98.4	
105.0	-	-	-	-	-	-	11.6	11.6	11.6	10.8	11.6	12.3	9.0	10.1	10.8	-	-	105.0	
111.5	-	-	-	-	-	-	10.8	10.5	10.8	9.2	10.1	10.5	7.4	8.5	9.2	-	-	111.5	
118.1	-	-	-	-	-	-	9.7	9.9	-	8.1	8.8	9.2	6.3	7.2	7.9	-	-	118.1	
124.7	-	-	-	-	-	-	8.5	8.8	-	7.0	7.7	8.1	5.2	5.9	6.6	-	-	124.7	
131.2	-	-	-	-	-	-	7.7	7.9	-	5.9	6.6	7.0	4.1	5.0	5.5	-	-	131.2	
144.4	-	-	-	-	-	-	-	-	-	4.4	4.8	5.0	2.6	3.3	3.7	-	-	144.4	
157.5	-	-	-	-	-	-	-	-	-	3.0	3.3	-	-	-	2.2	-	-	157.5	
170.6	-	-	-	-	-	-	-	-	-	1.9	2.2	-	-	-	-	-	-	170.6	

22,050 lbs		24.6 ft x 26.2 ft						3.3 ft + 30.2 ft						360°			ASME B30.5		
		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft					
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°			
ft		1,000 lbs															ft		
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4	
19.7	-	30.4	-	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	19.7	
23.0	33.0	27.9	-	-	31.9	-	-	-	-	-	-	-	-	-	-	-	-	23.0	
26.2	33.0	26.0	20.5	-	29.9	21.8	-	32.4	-	-	-	-	-	-	-	-	-	26.2	
29.5	32.6	24.2	19.6	-	28.2	20.9	-	30.8	-	-	-	-	-	-	-	-	-	29.5	
32.8	29.7	22.7	18.7	-	26.6	20.2	-	29.5	21.1	-	-	-	-	-	-	-	-	32.8	
36.1	27.3	21.3	17.8	33.0	25.3	19.6	-	28.4	20.5	-	18.5	-	-	-	-	-	-	36.1	
39.4	25.1	20.2	17.1	33.0	24.2	18.9	-	27.3	20.0	-	18.5	-	-	-	-	-	-	39.4	
45.9	21.6	18.2	16.0	30.6	22.0	17.8	-	25.5	19.1	-	18.5	18.5	-	-	-	-	-	45.9	
52.5	18.7	16.7	15.2	26.6	20.2	16.9	-	23.8	18.2	-	18.5	18.5	-	12.5	-	-	-	52.5	
59.1	16.5	15.4	-	22.9	18.9	16.0	21.6	22.2	17.6	16.5	18.5	18.0	-	12.5	12.5	-	-	59.1	
65.6	14.7	14.7	-	19.4	17.6	15.4	18.2	18.9	16.9	15.2	16.5	17.1	-	12.5	12.5	-	-	65.6	
72.2	-	-	-	16.0	16.5	14.9	16.3	16.5	16.3	14.1	14.3	15.6	-	12.5	12.5	-	-	72.2	
78.7	-	-	-	13.6	14.3	14.7	13.6	14.5	14.5	12.1	13.2	14.3	9.0	10.5	11.6	-	-	78.7	
85.3	-	-	-	11.6	12.1	-	11.6	12.5	13.4	10.1	11.2	12.1	7.4	8.8	9.9	-	-	85.3	
91.9	-	-	-	9.9	10.3	-	9.9	10.5	11.4	8.3	9.4	10.1	5.9	7.2	8.1	-	-	91.9	
98.4	-	-	-	-	-	-	8.3	9.0	9.7	6.8	7.7	8.5	4.6	5.7	6.8	-	-	98.4	
105.0	-	-	-	-	-	-	7.2	7.7	8.3	5.5	6.3	7.0	3.5	4.6	5.5	-	-	105.0	
111.5	-	-	-	-	-	-	6.1	6.6	7.0	4.6	5.2	5.9	-	3.5	4.4	-	-	111.5	
118.1	-	-	-	-	-	-	5.0	5.5	-	3.5	4.1	4.8	-	-	3.3	-	-	118.1	
124.7	-	-	-	-	-	-	4.4	4.6	-	2.6	3.3	3.7	-	-	-	-	-	124.7	
131.2	-	-	-	-	-	-	3.5	3.7	-	1.9	2.6	2.8	-	-	-	-	-	131.2	

# Operation



13,200 lbs		24.6 ft x 26.2 ft						3.3 ft + 30.2 ft						360°			ASME B30.5						
42.0 ft		70.2 ft						112.9 ft						155.5 ft			196.9 ft						
0°		20°		40°		0°		20°		40°		0°		20°		40°		0°		20°		40°	
ft	1,000 lbs																						ft
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	-	30.4	-	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	33.0	27.9	-	-	31.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	33.0	26.0	20.5	-	29.9	21.8	-	32.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	32.6	24.2	19.6	-	28.2	20.9	-	30.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.5
32.8	29.7	22.7	18.7	-	26.6	20.2	-	29.5	21.1	-	-	-	-	-	-	-	-	-	-	-	-	-	32.8
36.1	27.3	21.3	17.8	33.0	25.3	19.6	-	28.4	20.5	-	18.5	-	-	-	-	-	-	-	-	-	-	-	36.1
39.4	25.1	20.2	17.1	33.0	24.2	18.9	-	27.3	20.0	-	18.5	-	-	-	-	-	-	-	-	-	-	-	39.4
45.9	21.6	18.2	16.0	30.2	22.0	17.8	-	25.5	19.1	-	18.5	18.5	-	-	-	-	-	-	-	-	-	-	45.9
52.5	18.7	16.7	15.2	24.6	20.2	16.9	-	22.9	18.2	-	18.5	18.5	-	12.5	-	-	-	-	-	-	-	-	52.5
59.1	16.5	15.4	-	19.8	18.9	16.0	20.0	20.5	17.6	14.9	16.5	17.4	-	12.5	12.5	-	-	-	-	-	-	-	59.1
65.6	14.7	14.7	-	16.3	17.4	15.4	16.3	17.1	16.9	13.6	14.3	15.4	-	12.1	12.5	-	-	-	-	-	-	-	65.6
72.2	-	-	-	13.4	14.3	14.9	13.4	14.7	15.6	11.4	12.7	14.1	-	9.9	11.2	-	-	-	-	-	-	-	72.2
78.7	-	-	-	11.2	11.9	12.3	11.2	12.3	13.4	9.4	10.8	11.9	6.6	8.1	9.2	-	-	-	-	-	-	-	78.7
85.3	-	-	-	9.4	9.9	-	9.4	10.3	11.2	7.9	9.0	9.9	5.0	6.3	7.4	-	-	-	-	-	-	-	85.3
91.9	-	-	-	7.9	8.1	-	7.9	8.5	9.4	6.1	7.2	8.1	3.9	5.0	6.1	-	-	-	-	-	-	-	91.9
98.4	-	-	-	-	-	-	6.6	7.2	7.9	5.0	5.9	6.6	-	3.9	4.8	-	-	-	-	-	-	-	98.4
105.0	-	-	-	-	-	-	5.5	5.9	6.6	3.7	4.6	5.2	-	-	3.5	-	-	-	-	-	-	-	105.0
111.5	-	-	-	-	-	-	4.4	4.8	5.5	2.8	3.7	4.1	-	-	-	-	-	-	-	-	-	-	111.5
118.1	-	-	-	-	-	-	3.5	3.9	-	1.9	2.6	3.3	-	-	-	-	-	-	-	-	-	-	118.1
124.7	-	-	-	-	-	-	2.8	3.0	-	-	1.9	2.4	-	-	-	-	-	-	-	-	-	-	124.7
131.2	-	-	-	-	-	-	2.2	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	131.2

6,400 lbs		24.6 ft x 26.2 ft						3.3 ft + 30.2 ft						360°			ASME B30.5						
42.0 ft		70.2 ft						112.9 ft						155.5 ft			196.9 ft						
0°		20°		40°		0°		20°		40°		0°		20°		40°		0°		20°		40°	
ft	1,000 lbs																						ft
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	-	30.4	-	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	33.0	27.9	-	-	31.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	33.0	26.0	20.5	-	29.9	21.8	-	32.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	32.6	24.2	19.6	-	28.2	20.9	-	30.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.5
32.8	29.7	22.7	18.7	-	26.6	20.2	-	29.5	21.1	-	-	-	-	-	-	-	-	-	-	-	-	-	32.8
36.1	27.3	21.3	17.8	33.0	25.3	19.6	-	28.4	20.5	-	18.5	-	-	-	-	-	-	-	-	-	-	-	36.1
39.4	25.1	20.2	17.1	33.0	24.2	18.9	-	27.3	20.0	-	18.5	-	-	-	-	-	-	-	-	-	-	-	39.4
45.9	21.6	18.2	16.0	27.3	22.0	17.8	-	24.4	19.1	-	18.5	18.5	-	-	-	-	-	-	-	-	-	-	45.9
52.5	18.7	16.7	15.2	21.3	20.2	16.9	-	21.1	18.2	-	16.5	18.0	-	12.5	-	-	-	-	-	-	-	-	52.5
59.1	16.5	15.4	-	16.9	18.2	16.0	16.9	18.5	17.6	13.6	14.3	15.8	-	12.1	12.5	-	-	-	-	-	-	-	59.1
65.6	13.4	13.8	-	13.8	14.7	15.4	13.8	15.2	16.5	11.2	12.7	14.1	-	9.7	11.2	-	-	-	-	-	-	-	65.6
72.2	-	-	-	11.2	12.1	12.7	11.2	12.3	13.6	9.0	10.5	11.6	-	7.7	9.0	-	-	-	-	-	-	-	72.2
78.7	-	-	-	9.2	9.9	10.3	9.2	10.1	11.2	7.4	8.5	9.7	-	5.9	7.2	-	-	-	-	-	-	-	78.7
85.3	-	-	-	7.4	8.1	-	7.4	8.3	9.2	5.9	7.0	7.9	-	4.6	5.7	-	-	-	-	-	-	-	85.3
91.9	-	-	-	6.1	6.6	-	6.1	6.8	7.7	4.6	5.7	6.3	-	-	4.4	-	-	-	-	-	-	-	91.9
98.4	-	-	-	-	-	-	4.8	5.5	6.3	3.3	4.4	5.0	-	-	-	-	-	-	-	-	-	-	98.4
105.0	-	-	-	-	-	-	3.9	4.4	5.0	2.4	3.3	3.9	-	-	-	-	-	-	-	-	-	-	105.0
111.5	-	-	-	-	-	-	3.0	3.5	3.9	-	2.2	2.8	-	-	-	-	-	-	-	-	-	-	111.5
118.1	-	-	-	-	-	-	2.4	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	118.1
124.7	-	-	-	-	-	-	-	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124.7

# Operation

93,500 lbs		24.6 ft x 26.2 ft						3.3 ft + 55.7 ft						360°			ASME B30.5	
42.0 ft		70.2 ft						112.9 ft						155.5 ft			196.9 ft	
0°		20°		40°		0°		20°		40°		0°		20°		40°		
ft	1,000 lbs															ft		
11.5	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	17.1	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	16.7	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	15.8	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	14.7	11.9	-	16.0	-	-	14.1	-	-	-	-	-	-	-	-	-	-	26.2
29.5	13.8	11.2	-	15.4	11.4	-	14.1	-	-	-	-	-	-	-	-	-	-	29.5
32.8	13.2	10.5	-	14.5	11.0	-	14.1	-	-	-	-	-	-	-	-	-	-	32.8
36.1	12.3	10.1	-	13.8	10.5	-	14.1	10.5	-	10.3	-	-	-	-	-	-	-	36.1
39.4	11.6	9.7	-	13.4	10.1	-	14.1	10.3	-	10.3	-	-	-	-	-	-	-	39.4
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7	-	10.3	-	-	-	-	-	-	-	45.9
52.5	9.4	8.1	7.2	11.2	8.8	7.4	12.5	9.2	7.4	10.3	9.0	-	7.9	-	-	-	-	52.5
59.1	8.8	7.4	6.8	10.3	8.3	7.0	11.6	8.8	7.2	10.3	8.5	-	7.9	-	-	-	-	59.1
65.6	8.1	7.0	6.6	9.7	7.7	6.8	11.0	8.3	7.0	10.3	8.1	6.8	7.9	7.7	-	-	-	65.6
72.2	7.4	6.8	6.3	9.0	7.4	6.6	10.3	7.9	6.8	10.3	7.9	6.6	7.9	7.4	-	-	-	72.2
78.7	7.0	6.3	6.1	8.3	7.0	6.3	9.7	7.7	6.6	9.9	7.7	6.3	7.9	7.2	-	-	-	78.7
85.3	6.6	6.1	6.1	7.9	6.8	6.1	9.2	7.2	6.3	9.4	7.2	6.3	7.9	7.0	6.1	-	-	85.3
91.9	6.3	6.1	-	7.4	6.6	6.1	8.8	7.0	6.1	9.2	7.0	6.1	7.9	6.8	5.9	-	-	91.9
98.4	-	-	-	7.0	6.3	5.9	8.3	6.8	6.1	8.8	6.8	5.9	7.9	6.6	5.9	-	-	98.4
105.0	-	-	-	6.8	6.1	5.9	7.9	6.6	5.9	8.3	6.6	5.9	7.9	6.3	5.7	-	-	105.0
111.5	-	-	-	6.6	5.9	-	7.7	6.3	5.9	8.1	6.6	5.7	7.9	6.3	5.5	-	-	111.5
118.1	-	-	-	6.3	5.9	-	7.2	6.1	5.7	7.9	6.3	5.7	7.7	6.1	5.5	-	-	118.1
124.7	-	-	-	-	-	-	7.0	6.1	5.7	7.4	6.1	5.5	7.4	5.9	5.5	-	-	124.7
131.2	-	-	-	-	-	-	6.8	5.9	5.7	7.2	5.9	5.5	7.2	5.9	5.2	-	-	131.2
144.4	-	-	-	-	-	-	6.3	5.7	5.5	6.8	5.7	5.2	6.8	5.7	5.0	-	-	144.4
157.5	-	-	-	-	-	-	6.1	5.7	-	6.6	5.5	5.2	6.3	5.5	5.0	-	-	157.5
170.6	-	-	-	-	-	-	-	-	-	6.1	5.5	5.2	5.9	5.2	4.8	-	-	170.6
183.7	-	-	-	-	-	-	-	-	-	5.7	5.2	-	4.6	5.0	4.8	-	-	183.7
196.9	-	-	-	-	-	-	-	-	-	4.8	5.0	-	3.5	4.1	4.4	-	-	196.9
210.0	-	-	-	-	-	-	-	-	-	-	-	-	2.6	3.0	-	-	-	210.0
223.1	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	-	-	-	223.1

# Operation



70,100 lbs		24.6 ft x 26.2 ft						3.3 ft + 55.7 ft						360°			ASME B30.5						
42.0 ft		70.2 ft						112.9 ft						155.5 ft			196.9 ft						
0°		20°		40°		0°		20°		40°		0°		20°		40°		0°		20°		40°	
ft	1,000 lbs																						ft
11.5	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	17.1	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	16.7	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	15.8	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	14.7	11.9	-	16.0	-	-	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	13.8	11.2	-	15.4	11.4	-	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.5
32.8	13.2	10.5	-	14.5	11.0	-	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.8
36.1	12.3	10.1	-	13.8	10.5	-	14.1	10.5	-	10.3	-	-	-	-	-	-	-	-	-	-	-	-	36.1
39.4	11.6	9.7	-	13.4	10.1	-	14.1	10.3	-	10.3	-	-	-	-	-	-	-	-	-	-	-	-	39.4
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7	-	10.3	-	-	-	-	-	-	-	-	-	-	-	-	45.9
52.5	9.4	8.1	7.2	11.2	8.8	7.4	12.5	9.2	7.4	10.3	9.0	-	7.9	-	-	-	-	-	-	-	-	-	52.5
59.1	8.8	7.4	6.8	10.3	8.3	7.0	11.6	8.8	7.2	10.3	8.5	-	7.9	-	-	-	-	-	-	-	-	-	59.1
65.6	8.1	7.0	6.6	9.7	7.7	6.8	11.0	8.3	7.0	10.3	8.1	6.8	7.9	7.7	-	-	-	-	-	-	-	-	65.6
72.2	7.4	6.8	6.3	9.0	7.4	6.6	10.3	7.9	6.8	10.3	7.9	6.6	7.9	7.4	-	-	-	-	-	-	-	-	72.2
78.7	7.0	6.3	6.1	8.3	7.0	6.3	9.7	7.7	6.6	9.9	7.7	6.3	7.9	7.2	-	-	-	-	-	-	-	-	78.7
85.3	6.6	6.1	6.1	7.9	6.8	6.1	9.2	7.2	6.3	9.4	7.2	6.3	7.9	7.0	6.1	-	-	-	-	-	-	-	85.3
91.9	6.3	6.1	-	7.4	6.6	6.1	8.8	7.0	6.1	9.2	7.0	6.1	7.9	6.8	5.9	-	-	-	-	-	-	-	91.9
98.4	-	-	-	7.0	6.3	5.9	8.3	6.8	6.1	8.8	6.8	5.9	7.9	6.6	5.9	-	-	-	-	-	-	-	98.4
105.0	-	-	-	6.8	6.1	5.9	7.9	6.6	5.9	8.3	6.6	5.9	7.9	6.3	5.7	-	-	-	-	-	-	-	105.0
111.5	-	-	-	6.6	5.9	-	7.7	6.3	5.9	8.1	6.6	5.7	7.9	6.3	5.5	-	-	-	-	-	-	-	111.5
118.1	-	-	-	6.3	5.9	-	7.2	6.1	5.7	7.9	6.3	5.7	7.7	6.1	5.5	-	-	-	-	-	-	-	118.1
124.7	-	-	-	-	-	-	7.0	6.1	5.7	7.4	6.1	5.5	7.4	5.9	5.5	-	-	-	-	-	-	-	124.7
131.2	-	-	-	-	-	-	6.8	5.9	5.7	7.2	5.9	5.5	7.2	5.9	5.2	-	-	-	-	-	-	-	131.2
144.4	-	-	-	-	-	-	6.3	5.7	5.5	6.8	5.7	5.2	6.3	5.7	5.0	-	-	-	-	-	-	-	144.4
157.5	-	-	-	-	-	-	6.1	5.7	-	6.3	5.5	5.2	4.6	5.5	5.0	-	-	-	-	-	-	-	157.5
170.6	-	-	-	-	-	-	-	-	-	5.0	5.2	5.0	3.3	4.1	4.8	-	-	-	-	-	-	-	170.6
183.7	-	-	-	-	-	-	-	-	-	3.9	4.4	-	2.2	2.8	3.3	-	-	-	-	-	-	-	183.7
196.9	-	-	-	-	-	-	-	-	-	3.0	3.3	-	-	-	2.2	-	-	-	-	-	-	-	196.9



# Operation

48,000 lbs		24.6 ft x 26.2 ft						3.3 ft + 55.7 ft						360°			ASME B30.5						
42.0 ft		70.2 ft						112.9 ft						155.5 ft			196.9 ft						
0°		20°		40°		0°		20°		40°		0°		20°		40°		0°		20°		40°	
ft	1,000 lbs																						ft
11.5	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	17.1	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	16.7	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	15.8	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	14.7	11.9	-	16.0	-	-	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	13.8	11.2	-	15.4	11.4	-	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.5
32.8	13.2	10.5	-	14.5	11.0	-	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.8
36.1	12.3	10.1	-	13.8	10.5	-	14.1	10.5	-	10.3	-	-	-	-	-	-	-	-	-	-	-	-	36.1
39.4	11.6	9.7	-	13.4	10.1	-	14.1	10.3	-	10.3	-	-	-	-	-	-	-	-	-	-	-	-	39.4
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7	-	10.3	-	-	-	-	-	-	-	-	-	-	-	-	45.9
52.5	9.4	8.1	7.2	11.2	8.8	7.4	12.5	9.2	7.4	10.3	9.0	-	7.9	-	-	-	-	-	-	-	-	-	52.5
59.1	8.8	7.4	6.8	10.3	8.3	7.0	11.6	8.8	7.2	10.3	8.5	-	7.9	-	-	-	-	-	-	-	-	-	59.1
65.6	8.1	7.0	6.6	9.7	7.7	6.8	11.0	8.3	7.0	10.3	8.1	6.8	7.9	7.7	-	-	-	-	-	-	-	-	65.6
72.2	7.4	6.8	6.3	9.0	7.4	6.6	10.3	7.9	6.8	10.3	7.9	6.6	7.9	7.4	-	-	-	-	-	-	-	-	72.2
78.7	7.0	6.3	6.1	8.3	7.0	6.3	9.7	7.7	6.6	9.9	7.7	6.3	7.9	7.2	-	-	-	-	-	-	-	-	78.7
85.3	6.6	6.1	6.1	7.9	6.8	6.1	9.2	7.2	6.3	9.4	7.2	6.3	7.9	7.0	6.1	-	-	-	-	-	-	-	85.3
91.9	6.3	6.1	-	7.4	6.6	6.1	8.8	7.0	6.1	9.2	7.0	6.1	7.9	6.8	5.9	-	-	-	-	-	-	-	91.9
98.4	-	-	-	7.0	6.3	5.9	8.3	6.8	6.1	8.8	6.8	5.9	7.9	6.6	5.9	-	-	-	-	-	-	-	98.4
105.0	-	-	-	6.8	6.1	5.9	7.9	6.6	5.9	8.3	6.6	5.9	7.9	6.3	5.7	-	-	-	-	-	-	-	105.0
111.5	-	-	-	6.6	5.9	-	7.7	6.3	5.9	7.9	6.6	5.7	7.9	6.3	5.5	-	-	-	-	-	-	-	111.5
118.1	-	-	-	6.3	5.9	-	7.2	6.1	5.7	7.7	6.3	5.7	7.0	6.1	5.5	-	-	-	-	-	-	-	118.1
124.7	-	-	-	-	-	-	7.0	6.1	5.7	7.2	6.1	5.5	5.9	5.9	5.5	-	-	-	-	-	-	-	124.7
131.2	-	-	-	-	-	-	6.6	5.9	5.7	6.6	5.9	5.5	4.8	5.9	5.2	-	-	-	-	-	-	-	131.2
144.4	-	-	-	-	-	-	6.3	5.7	5.5	5.0	5.7	5.2	3.3	4.4	5.0	-	-	-	-	-	-	-	144.4
157.5	-	-	-	-	-	-	5.5	5.5	-	3.7	4.4	4.8	-	2.8	3.5	-	-	-	-	-	-	-	157.5
170.6	-	-	-	-	-	-	-	-	-	2.4	3.0	3.3	-	-	2.2	-	-	-	-	-	-	-	170.6
183.7	-	-	-	-	-	-	-	-	-	-	1.9	-	-	-	-	-	-	-	-	-	-	-	183.7

# Operation



22,050 lbs		24.6 ft x 26.2 ft						3.3 ft + 55.7 ft						360°			ASME B30.5						
42.0 ft		70.2 ft						112.9 ft						155.5 ft			196.9 ft						
0°		20°		40°		0°		20°		40°		0°		20°		40°		0°		20°		40°	
ft	1,000 lbs																					ft	
11.5	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	17.1	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	16.7	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	15.8	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	14.7	11.9	-	16.0	-	-	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	13.8	11.2	-	15.4	11.4	-	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.5
32.8	13.2	10.5	-	14.5	11.0	-	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.8
36.1	12.3	10.1	-	13.8	10.5	-	14.1	10.5	-	10.3	-	-	-	-	-	-	-	-	-	-	-	-	36.1
39.4	11.6	9.7	-	13.4	10.1	-	14.1	10.3	-	10.3	-	-	-	-	-	-	-	-	-	-	-	-	39.4
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7	-	10.3	-	-	-	-	-	-	-	-	-	-	-	-	45.9
52.5	9.4	8.1	7.2	11.2	8.8	7.4	12.5	9.2	7.4	10.3	9.0	-	7.9	-	-	-	-	-	-	-	-	-	52.5
59.1	8.8	7.4	6.8	10.3	8.3	7.0	11.6	8.8	7.2	10.3	8.5	-	7.9	-	-	-	-	-	-	-	-	-	59.1
65.6	8.1	7.0	6.6	9.7	7.7	6.8	11.0	8.3	7.0	10.3	8.1	6.8	7.9	7.7	-	-	-	-	-	-	-	-	65.6
72.2	7.4	6.8	6.3	9.0	7.4	6.6	10.3	7.9	6.8	10.3	7.9	6.6	7.9	7.4	-	-	-	-	-	-	-	-	72.2
78.7	7.0	6.3	6.1	8.3	7.0	6.3	9.7	7.7	6.6	9.7	7.7	6.3	7.9	7.2	-	-	-	-	-	-	-	-	78.7
85.3	6.6	6.1	6.1	7.9	6.8	6.1	9.0	7.2	6.3	9.2	7.2	6.3	7.7	7.0	6.1	-	-	-	-	-	-	-	85.3
91.9	6.3	6.1	-	7.4	6.6	6.1	8.5	7.0	6.1	8.5	7.0	6.1	6.3	6.8	5.9	-	-	-	-	-	-	-	91.9
98.4	-	-	-	7.0	6.3	5.9	8.1	6.8	6.1	7.7	6.8	5.9	5.0	6.6	5.9	-	-	-	-	-	-	-	98.4
105.0	-	-	-	6.8	6.1	5.9	7.7	6.6	5.9	6.3	6.6	5.9	3.9	5.9	5.7	-	-	-	-	-	-	-	105.0
111.5	-	-	-	6.6	5.9	-	7.0	6.3	5.7	5.2	6.3	5.7	-	4.8	5.5	-	-	-	-	-	-	-	111.5
118.1	-	-	-	6.3	5.9	-	6.1	6.1	5.7	4.1	5.5	5.7	-	3.7	5.0	-	-	-	-	-	-	-	118.1
124.7	-	-	-	-	-	-	5.2	5.9	5.5	3.5	4.6	5.5	-	-	4.1	-	-	-	-	-	-	-	124.7
131.2	-	-	-	-	-	-	4.4	5.2	5.5	2.6	3.7	4.6	-	-	-	-	-	-	-	-	-	-	131.2
144.4	-	-	-	-	-	-	3.3	3.7	3.9	-	2.2	2.8	-	-	-	-	-	-	-	-	-	-	144.4
157.5	-	-	-	-	-	-	2.2	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	157.5

# Operation

13,200 lbs		24.6 ft x 26.2 ft						3.3 ft + 55.7 ft						360°			ASME B30.5	
42.0 ft		70.2 ft				112.9 ft				155.5 ft			196.9 ft					
0°		20°		40°		0°		20°		40°		0°		20°		40°		
ft	1,000 lbs																ft	
11.5	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	17.1	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	16.7	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	15.8	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	14.7	11.9	-	16.0	-	-	14.1	-	-	-	-	-	-	-	-	-	-	26.2
29.5	13.8	11.2	-	15.4	11.4	-	14.1	-	-	-	-	-	-	-	-	-	-	29.5
32.8	13.2	10.5	-	14.5	11.0	-	14.1	-	-	-	-	-	-	-	-	-	-	32.8
36.1	12.3	10.1	-	13.8	10.5	-	14.1	10.5	-	10.3	-	-	-	-	-	-	-	36.1
39.4	11.6	9.7	-	13.4	10.1	-	14.1	10.3	-	10.3	-	-	-	-	-	-	-	39.4
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7	-	10.3	-	-	-	-	-	-	-	45.9
52.5	9.4	8.1	7.2	11.2	8.8	7.4	12.5	9.2	7.4	10.3	9.0	-	7.9	-	-	-	-	52.5
59.1	8.8	7.4	6.8	10.3	8.3	7.0	11.6	8.8	7.2	10.3	8.5	-	7.9	-	-	-	-	59.1
65.6	8.1	7.0	6.6	9.7	7.7	6.8	11.0	8.3	7.0	10.3	8.1	6.8	7.9	7.7	-	-	-	65.6
72.2	7.4	6.8	6.3	9.0	7.4	6.6	10.1	7.9	6.8	9.4	7.9	6.6	7.9	7.4	-	-	-	72.2
78.7	7.0	6.3	6.1	8.3	7.0	6.3	9.7	7.7	6.6	8.5	7.7	6.3	7.0	7.2	-	-	-	78.7
85.3	6.6	6.1	6.1	7.9	6.8	6.1	8.8	7.2	6.3	8.3	7.2	6.3	5.5	7.0	6.1	-	-	85.3
91.9	6.3	6.1	-	7.4	6.6	6.1	8.3	7.0	6.1	7.0	7.0	6.1	4.1	6.3	5.9	-	-	91.9
98.4	-	-	-	7.0	6.3	5.9	7.7	6.8	6.1	5.7	6.6	5.9	-	5.0	5.9	-	-	98.4
105.0	-	-	-	6.8	6.1	5.9	6.3	6.3	5.9	4.6	6.1	5.9	-	3.9	5.5	-	-	105.0
111.5	-	-	-	5.9	5.9	-	5.5	6.1	5.7	3.5	5.0	5.7	-	-	4.4	-	-	111.5
118.1	-	-	-	5.0	5.5	-	4.6	5.5	5.5	2.6	3.9	5.0	-	-	-	-	-	118.1
124.7	-	-	-	-	-	-	3.7	4.6	5.2	1.9	3.0	3.9	-	-	-	-	-	124.7
131.2	-	-	-	-	-	-	3.0	3.7	4.1	-	2.4	3.0	-	-	-	-	-	131.2
144.4	-	-	-	-	-	-	1.9	2.4	2.6	-	-	-	-	-	-	-	-	144.4

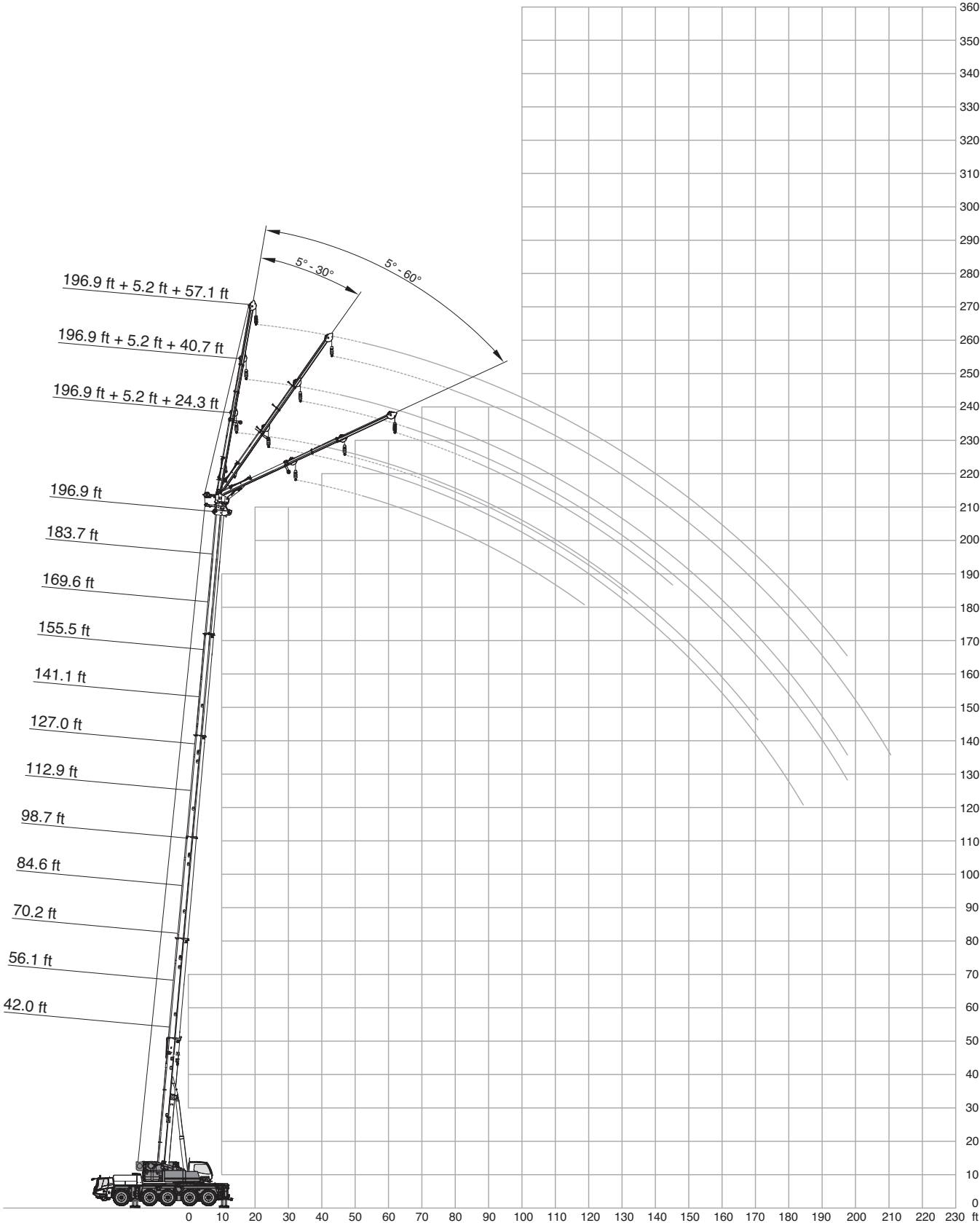
6,400 lbs		24.6 ft x 26.2 ft						3.3 ft + 55.7 ft						360°			ASME B30.5	
42.0 ft		70.2 ft				112.9 ft				155.5 ft			196.9 ft					
0°		20°		40°		0°		20°		40°		0°		20°		40°		
ft	1,000 lbs																ft	
11.5	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	17.1	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	16.7	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	15.8	-	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	14.7	11.9	-	16.0	-	-	14.1	-	-	-	-	-	-	-	-	-	-	26.2
29.5	13.8	11.2	-	15.4	11.4	-	14.1	-	-	-	-	-	-	-	-	-	-	29.5
32.8	13.2	10.5	-	14.5	11.0	-	14.1	-	-	-	-	-	-	-	-	-	-	32.8
36.1	12.3	10.1	-	13.8	10.5	-	14.1	10.5	-	10.3	-	-	-	-	-	-	-	36.1
39.4	11.6	9.7	-	13.4	10.1	-	14.1	10.3	-	10.3	-	-	-	-	-	-	-	39.4
45.9	10.5	8.8	7.7	12.1	9.4	7.9	13.2	9.7	-	10.3	-	-	-	-	-	-	-	45.9
52.5	9.4	8.1	7.2	11.2	8.8	7.4	12.5	9.2	7.4	10.3	9.0	-	7.9	-	-	-	-	52.5
59.1	8.8	7.4	6.8	10.3	8.3	7.0	11.6	8.8	7.2	10.3	8.5	-	7.9	-	-	-	-	59.1
65.6	8.1	7.0	6.6	9.7	7.7	6.8	10.8	8.3	7.0	9.4	8.1	6.8	7.9	7.7	-	-	-	65.6
72.2	7.4	6.8	6.3	9.0	7.4	6.6	10.1	7.9	6.8	8.5	7.9	6.6	6.6	7.4	-	-	-	72.2
78.7	7.0	6.3	6.1	8.3	7.0	6.3	9.2	7.7	6.6	7.9	7.7	6.3	5.0	7.2	-	-	-	78.7
85.3	6.6	6.1	6.1	7.9	6.8	6.1	8.8	7.2	6.3	6.3	7.2	6.3	-	5.9	6.1	-	-	85.3
91.9	6.3	6.1	-	7.4	6.6	6.1	7.2	7.0	6.1	5.2	6.8	6.1	-	4.6	5.9	-	-	91.9
98.4	-	-	-	6.6	6.3	5.9	5.9	6.6	5.9	4.1	5.7	5.9	-	-	5.2	-	-	98.4
105.0	-	-	-	5.5	6.1	5.9	5.0	6.1	5.7	3.0	4.6	5.7	-	-	-	-	-	105.0
111.5	-	-	-	4.6	5.2	-	4.1	5.0	5.7	-	3.7	4.8	-	-	-	-	-	111.5
118.1	-	-	-	3.9	4.1	-	3.3	4.1	4.8	-	2.6	3.7	-	-	-	-	-	118.1
124.7	-	-	-	-	-	-	2.6	3.3	3.9	-	-	2.8	-	-	-	-	-	124.7
131.2	-	-	-	-	-	-	1.9	2.6	3.0	-	-	-	-	-	-	-	-	131.2



# Operation

93,500 lbs		24.6 ft x 26.2 ft						3.3 ft + 101.7 ft						360°			ASME B30.5		
		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft					
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°			
ft		1,000 lbs															ft		
23.0	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0	
26.2	7.7	-	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	26.2	
29.5	7.7	-	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	29.5	
32.8	7.7	-	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	32.8	
36.1	7.7	-	-	-	7.2	-	-	6.3	-	-	-	-	-	-	-	-	-	36.1	
39.4	7.7	-	-	-	7.2	-	-	6.3	-	-	-	-	-	-	-	-	-	39.4	
45.9	7.7	-	-	-	7.2	-	-	6.3	-	-	-	-	-	-	-	-	-	45.9	
52.5	7.7	7.4	-	-	7.2	-	-	6.3	-	-	5.2	-	-	-	-	-	-	52.5	
59.1	7.4	6.6	-	-	7.2	7.0	-	6.3	-	-	5.2	-	-	-	-	-	-	59.1	
65.6	6.6	5.9	-	-	7.2	6.6	-	6.3	6.3	-	5.2	-	-	4.4	-	-	-	65.6	
72.2	5.7	5.5	-	-	7.0	5.9	-	6.3	6.3	-	5.2	-	-	4.4	-	-	-	72.2	
78.7	5.0	5.0	4.1	-	6.3	5.5	-	6.3	5.9	-	5.2	5.2	-	4.4	-	-	-	78.7	
85.3	4.6	4.6	3.9	-	5.7	5.0	4.1	6.3	5.7	-	5.2	5.2	-	4.4	-	-	-	85.3	
91.9	4.1	4.1	3.7	-	5.2	4.8	3.9	6.3	5.2	3.9	5.2	5.2	-	4.4	-	-	-	91.9	
98.4	3.7	3.9	3.5	-	4.6	4.4	3.7	6.1	5.0	3.7	5.2	5.2	-	4.4	4.4	-	-	98.4	
105.0	3.3	3.5	3.3	-	4.4	4.1	3.5	5.5	4.6	3.7	5.2	4.8	3.7	4.4	4.1	-	-	105.0	
111.5	3.0	3.3	3.0	-	3.9	3.9	3.3	5.0	4.4	3.5	5.2	4.6	3.5	4.4	4.1	-	-	111.5	
118.1	2.8	3.0	2.8	-	3.5	3.7	3.0	4.8	4.1	3.3	5.2	4.4	3.5	4.4	4.1	-	-	118.1	
124.7	2.4	2.8	2.6	-	3.3	3.5	3.0	4.4	3.9	3.3	5.2	4.4	3.3	4.4	4.1	-	-	124.7	
131.2	2.2	2.8	2.6	-	3.0	3.3	2.8	4.1	3.7	3.0	4.8	4.1	3.3	4.4	3.9	3.0	-	131.2	
144.4	-	-	-	-	2.6	2.8	2.6	3.5	3.5	2.8	4.4	3.7	3.0	4.4	3.9	2.8	-	144.4	
157.5	-	-	-	-	2.2	2.6	2.6	3.0	3.3	2.8	3.7	3.5	2.8	4.1	3.5	2.8	-	157.5	
170.6	-	-	-	-	-	-	-	2.8	2.8	2.6	3.3	3.3	2.6	3.7	3.3	2.6	-	170.6	
183.7	-	-	-	-	-	-	-	2.4	2.8	2.6	3.0	3.0	2.4	3.3	3.0	2.4	-	183.7	
196.9	-	-	-	-	-	-	-	2.2	2.6	-	2.8	2.8	2.4	3.0	2.8	2.4	-	196.9	
210.0	-	-	-	-	-	-	-	1.9	-	-	2.4	2.6	2.4	2.6	2.6	2.2	-	210.0	
223.1	-	-	-	-	-	-	-	-	-	-	2.2	2.6	-	-	2.2	2.2	-	223.1	
236.2	-	-	-	-	-	-	-	-	-	-	1.9	2.4	-	-	-	-	-	236.2	

70,100 lbs		24.6 ft x 26.2 ft						3.3 ft + 101.7 ft						360°			ASME B30.5		
		42.0 ft			70.2 ft			112.9 ft			155.5 ft			196.9 ft					
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°			
ft		1,000 lbs															ft		
23.0	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0	
26.2	7.7	-	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	26.2	
29.5	7.7	-	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	29.5	
32.8	7.7	-	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	32.8	
36.1	7.7	-	-	-	7.2	-	-	6.3	-	-	-	-	-	-	-	-	-	36.1	
39.4	7.7	-	-	-	7.2	-	-	6.3	-	-	-	-	-	-	-	-	-	39.4	
45.9	7.7	-	-	-	7.2	-	-	6.3	-	-	-	-	-	-	-	-	-	45.9	
52.5	7.7	7.4	-	-	7.2	-	-	6.3	-	-	5.2	-	-	-	-	-	-	52.5	
59.1	7.4	6.6	-	-	7.2	7.0	-	6.3	-	-	5.2	-	-	-	-	-	-	59.1	
65.6	6.6	5.9	-	-	7.2	6.6	-	6.3	6.3	-	5.2	-	-	4.4	-	-	-	65.6	
72.2	5.7	5.5	-	-	7.0	5.9	-	6.3	6.3	-	5.2	-	-	4.4	-	-	-	72.2	
78.7	5.0	5.0	4.1	-	6.3	5.5	-	6.3	5.9	-	5.2	5.2	-	4.4	-	-	-	78.7	
85.3	4.6	4.6	3.9	-	5.7	5.0	4.1	6.3	5.7	-	5.2	5.2	-	4.4	-	-	-	85.3	
91.9	4.1	4.1	3.7	-	5.2	4.8	3.9	6.3	5.2	3.9	5.2	5.2	-	4.4	-	-	-	91.9	
98.4	3.7	3.9	3.5	-	4.6	4.4	3.7	6.1	5.0	3.7	5.2	5.2	-	4.4	4.4	-	-	98.4	
105.0	3.3	3.5	3.3	-	4.4	4.1	3.5	5.5	4.6	3.7	5.2	4.8	3.7	4.4	4.1	-	-	105.0	
111.5	3.0	3.3	3.0	-	3.9	3.9	3.3	5.0	4.4	3.5	5.2	4.6	3.5	4.4	4.1	-	-	111.5	
118.1	2.8	3.0	2.8	-	3.5	3.7	3.0	4.8	4.1	3.3	5.2	4.4	3.5	4.4	4.1	-	-	118.1	
124.7	2.4	2.8	2.6	-	3.3	3.5	3.0	4.4	3.9	3.3	5.2	4.4	3.3	4.4	4.1	-	-	124.7	
131.2	2.2	2.8	2.6	-	3.0	3.3	2.8	4.1	3.7	3.0	4.8	4.1	3.3	4.4	3.9	3.0	-	131.2	
144.4	-	-	-	-	2.6	2.8	2.6	3.5	3.5	2.8	4.4	3.7	3.0	4.4	3.9	2.8	-	144.4	
157.5	-	-	-	-	2.2	2.6	2.6	3.0	3.3	2.8	3.7	3.5	2.8	4.1	3.5	2.8	-	157.5	
170.6	-	-	-	-	-	-	-	2.8	2.8	2.6	3.3	3.3	2.6	3.5	3.3	2.6	-	170.6	
183.7	-	-	-	-	-	-	-	2.4	2.8	2.6	3.0	3.0	2.4	2.4	3.0	2.4	-	183.7	
196.9	-	-	-	-	-	-	-	2.2	2.6	-	2.6	2.8	2.4	-	2.6	2.4	-	196.9	
210.0	-	-	-	-	-	-	-	1.9	-	-	2.2	2.6	2.4	-	-	2.2	-	210.0	
223.1	-	-	-	-	-	-	-	-	-	-	2.2	-	-	-	-	-	-	223.1	



# Operation

HTLJ

93,500 lbs		24.6 ft x 26.2 ft						5.2 ft + 24.3 ft						360°			ASME B30.5						
42.0 ft		70.2 ft						112.9 ft						155.5 ft			196.9 ft						
5°		30°		60°		5°		30°		60°		5°		30°		60°		5°		30°		60°	
ft	1,000 lbs																						ft
9.8	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8
11.5	16.0	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	16.0	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	16.0	-	-	16.0	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	16.0	-	-	16.0	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	16.0	16.0	-	16.0	16.0	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	16.0	16.0	-	16.0	16.0	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	16.0	15.4	9.7	16.0	16.0	-	16.0	16.0	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	16.0	14.5	9.7	16.0	16.0	9.9	16.0	16.0	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	29.5
32.8	16.0	13.8	9.4	16.0	15.8	9.7	16.0	16.0	9.9	16.0	-	-	-	-	-	-	-	-	-	-	-	-	32.8
36.1	16.0	13.4	9.4	16.0	15.4	9.7	16.0	16.0	9.9	16.0	16.0	-	-	-	-	-	-	-	-	-	-	-	36.1
39.4	15.6	12.7	9.4	16.0	14.7	9.4	16.0	16.0	9.7	16.0	16.0	9.9	11.9	-	-	-	-	-	-	-	-	-	39.4
45.9	13.4	11.9	-	16.0	13.8	9.4	16.0	15.8	9.7	16.0	16.0	9.7	11.9	-	-	-	-	-	-	-	-	-	45.9
52.5	11.9	11.4	-	16.0	13.0	9.2	16.0	14.9	9.4	16.0	16.0	9.7	11.9	11.9	9.7	-	-	-	-	-	-	-	52.5
59.1	10.8	-	-	15.2	12.3	-	16.0	14.3	9.4	16.0	15.6	9.4	11.9	11.6	9.7	-	-	-	-	-	-	-	59.1
65.6	-	-	-	13.6	11.9	-	16.0	13.6	9.2	16.0	15.2	9.4	11.9	11.2	9.4	-	-	-	-	-	-	-	65.6
72.2	-	-	-	12.5	11.4	-	16.0	13.2	9.2	16.0	14.5	9.2	11.2	10.5	9.4	-	-	-	-	-	-	-	72.2
78.7	-	-	-	11.4	11.2	-	16.0	12.5	9.2	16.0	14.1	9.2	10.5	10.1	9.4	-	-	-	-	-	-	-	78.7
85.3	-	-	-	10.5	-	-	15.4	12.3	-	15.8	13.6	9.2	10.1	9.7	9.2	-	-	-	-	-	-	-	85.3
91.9	-	-	-	10.1	-	-	14.3	11.9	-	15.2	13.2	9.2	9.4	9.2	9.0	-	-	-	-	-	-	-	91.9
98.4	-	-	-	-	-	-	13.2	11.6	-	14.3	12.7	9.2	9.0	8.8	8.5	-	-	-	-	-	-	-	98.4
105.0	-	-	-	-	-	-	12.5	11.4	-	13.4	12.3	-	8.5	8.3	8.3	-	-	-	-	-	-	-	105.0
111.5	-	-	-	-	-	-	11.6	11.2	-	12.5	12.1	-	8.1	7.9	7.9	-	-	-	-	-	-	-	111.5
118.1	-	-	-	-	-	-	11.2	11.2	-	11.4	11.9	-	7.7	7.4	7.4	-	-	-	-	-	-	-	118.1
124.7	-	-	-	-	-	-	10.5	-	-	10.1	10.8	-	7.2	7.0	-	-	-	-	-	-	-	-	124.7
131.2	-	-	-	-	-	-	10.1	-	-	9.0	9.2	-	6.6	6.6	-	-	-	-	-	-	-	-	131.2
144.4	-	-	-	-	-	-	-	-	-	7.4	7.7	-	5.9	5.7	-	-	-	-	-	-	-	-	144.4
157.5	-	-	-	-	-	-	-	-	-	5.7	5.9	-	4.8	5.0	-	-	-	-	-	-	-	-	157.5
170.6	-	-	-	-	-	-	-	-	-	4.1	-	-	3.5	3.7	-	-	-	-	-	-	-	-	170.6
183.7	-	-	-	-	-	-	-	-	-	-	-	-	1.9	2.2	-	-	-	-	-	-	-	-	183.7

# Operation

HTLJ

70,100 lbs			24.6 ft x 26.2 ft			5.2 ft + 24.3 ft			360°			ASME B30.5					
42.0 ft		70.2 ft			112.9 ft			155.5 ft			196.9 ft						
5°		30°		60°		5°		30°		60°		5°		30°		60°	
ft	1,000 lbs															ft	
9.8	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8
11.5	16.0	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	16.0	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	16.0	-	-	16.0	-	-	16.0	-	-	-	-	-	-	-	-	-	14.8
16.4	16.0	-	-	16.0	-	-	16.0	-	-	-	-	-	-	-	-	-	16.4
19.7	16.0	16.0	-	16.0	16.0	-	16.0	-	-	-	-	-	-	-	-	-	19.7
23.0	16.0	16.0	-	16.0	16.0	-	16.0	-	-	-	-	-	-	-	-	-	23.0
26.2	16.0	15.4	9.7	16.0	16.0	-	16.0	16.0	-	16.0	-	-	-	-	-	-	26.2
29.5	16.0	14.5	9.7	16.0	16.0	9.9	16.0	16.0	-	16.0	-	-	-	-	-	-	29.5
32.8	16.0	13.8	9.4	16.0	15.8	9.7	16.0	16.0	9.9	16.0	-	-	-	-	-	-	32.8
36.1	16.0	13.4	9.4	16.0	15.4	9.7	16.0	16.0	9.9	16.0	16.0	-	-	-	-	-	36.1
39.4	15.6	12.7	9.4	16.0	14.7	9.4	16.0	16.0	9.7	16.0	16.0	9.9	11.9	-	-	-	39.4
45.9	13.4	11.9	-	16.0	13.8	9.4	16.0	15.8	9.7	16.0	16.0	9.7	11.9	-	-	-	45.9
52.5	11.9	11.4	-	16.0	13.0	9.2	16.0	14.9	9.4	16.0	16.0	9.7	11.9	11.9	9.7	-	52.5
59.1	10.8	-	-	15.2	12.3	-	16.0	14.3	9.4	16.0	15.6	9.4	11.9	11.6	9.7	-	59.1
65.6	-	-	-	13.6	11.9	-	16.0	13.6	9.2	16.0	15.2	9.4	11.9	11.2	9.4	-	65.6
72.2	-	-	-	12.5	11.4	-	16.0	13.2	9.2	16.0	14.5	9.2	11.2	10.5	9.4	-	72.2
78.7	-	-	-	11.4	11.2	-	16.0	12.5	9.2	16.0	14.1	9.2	10.5	10.1	9.4	-	78.7
85.3	-	-	-	10.5	-	-	15.4	12.3	-	15.8	13.6	9.2	10.1	9.7	9.2	-	85.3
91.9	-	-	-	10.1	-	-	14.3	11.9	-	15.2	13.2	9.2	9.4	9.2	9.0	-	91.9
98.4	-	-	-	-	-	-	13.2	11.6	-	13.0	12.7	9.2	9.0	8.8	8.5	-	98.4
105.0	-	-	-	-	-	-	12.5	11.4	-	11.6	11.9	-	8.5	8.3	8.3	-	105.0
111.5	-	-	-	-	-	-	11.2	11.2	-	10.5	10.5	-	8.1	7.9	7.9	-	111.5
118.1	-	-	-	-	-	-	9.7	9.9	-	9.0	9.7	-	7.7	7.4	7.4	-	118.1
124.7	-	-	-	-	-	-	8.1	-	-	8.1	8.3	-	7.0	7.0	-	-	124.7
131.2	-	-	-	-	-	-	7.0	-	-	7.4	7.4	-	5.9	6.6	-	-	131.2
144.4	-	-	-	-	-	-	-	-	-	5.5	5.7	-	3.7	4.4	-	-	144.4
157.5	-	-	-	-	-	-	-	-	-	3.7	3.9	-	2.2	2.6	-	-	157.5
170.6	-	-	-	-	-	-	-	-	-	2.4	-	-	-	-	-	-	170.6



# Operation

HTLJ

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

# Operation

HTLJ

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



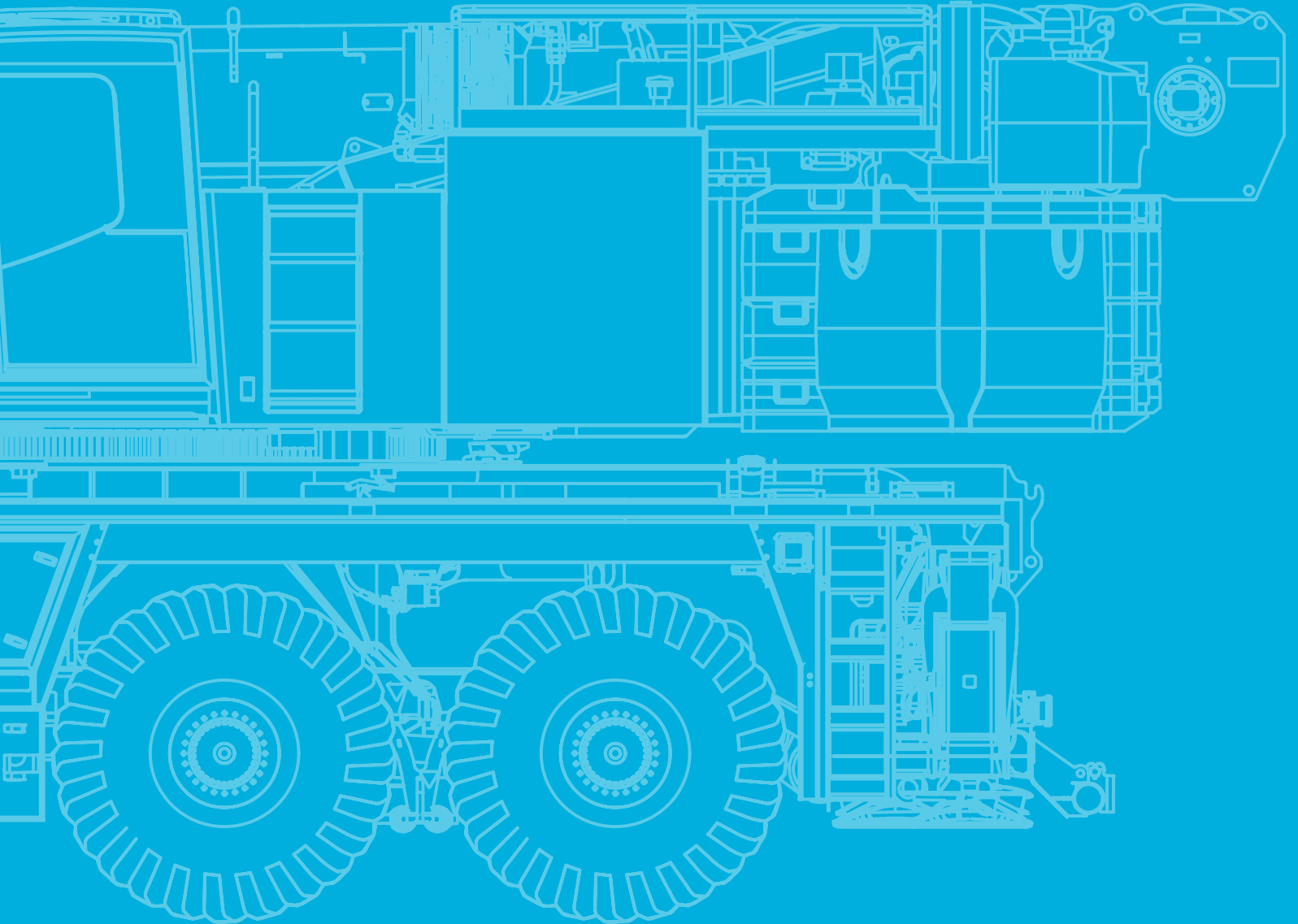
# Notes to Lifting Capacity

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

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

### Equipment superstructure

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

# Technical Description

## Additional equipment

### Carrier

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

### Superstructure

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

### Handling

<b>Remote control</b>	Control of superstructure movements via wireless remote control.
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### Extensions

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

### Hook Blocks

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

Further additional equipment on request!

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

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