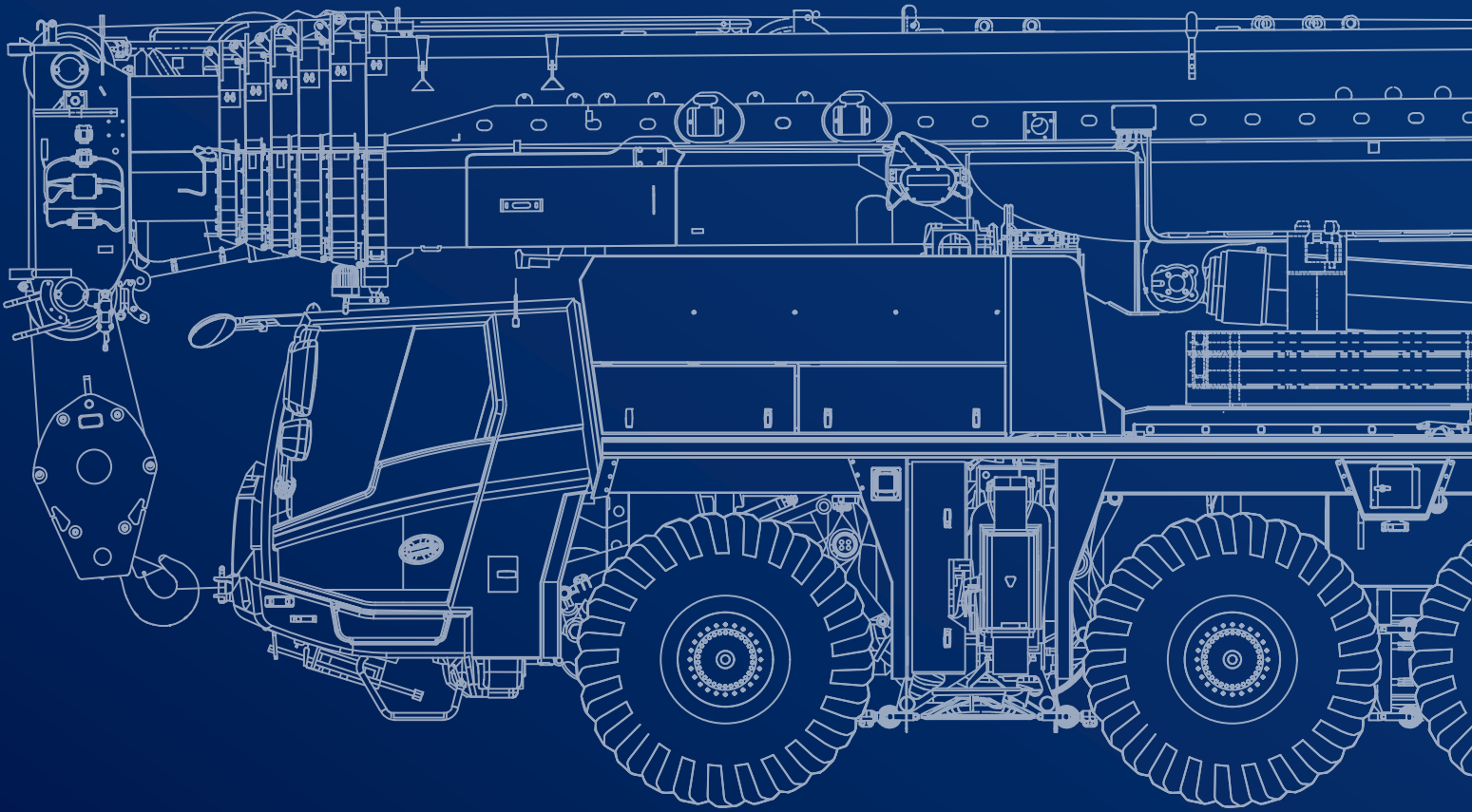


AC 5.120-1

130 US TON MAX. CRANE CAPACITY



- Suitable for alternative fuels





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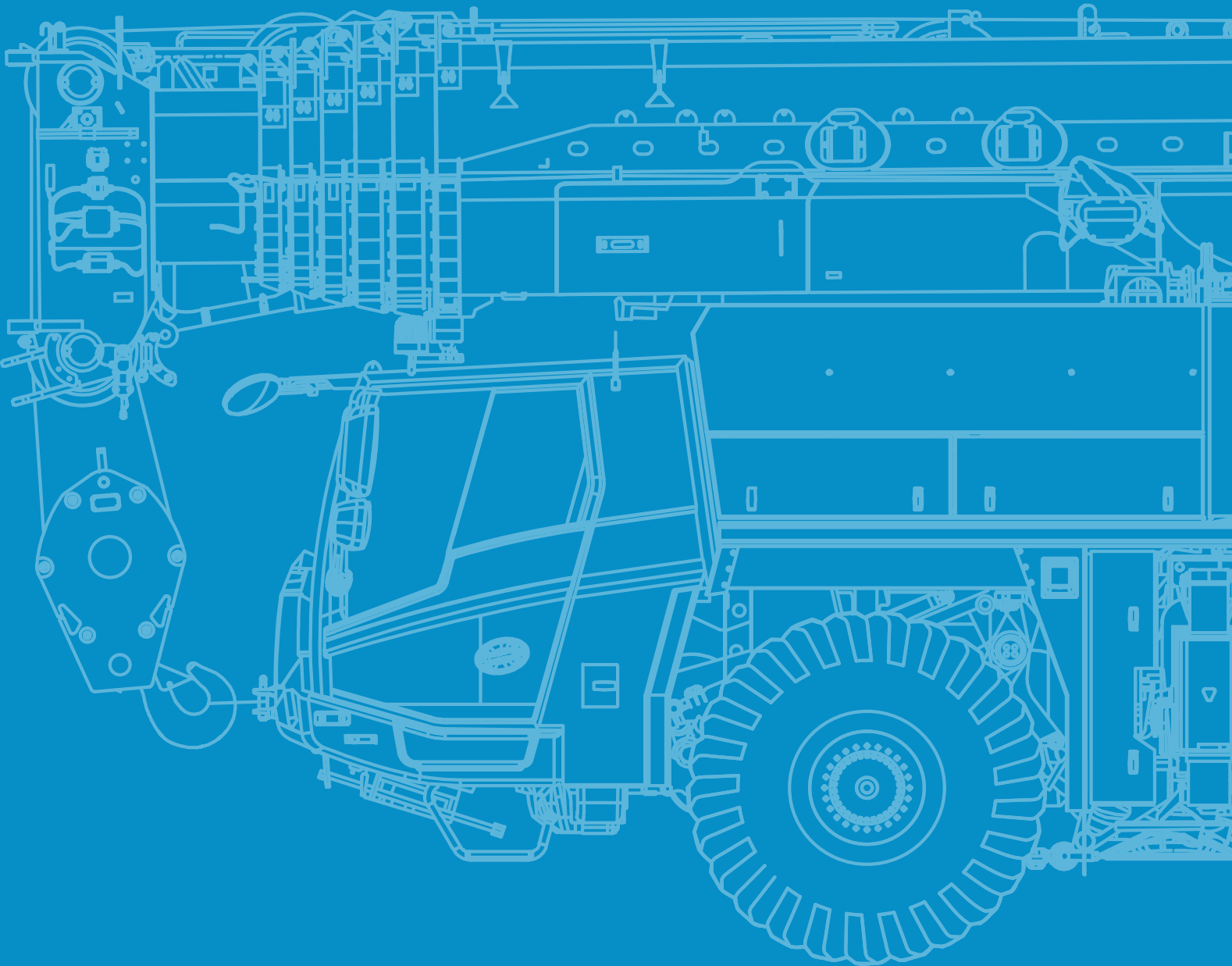
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Key



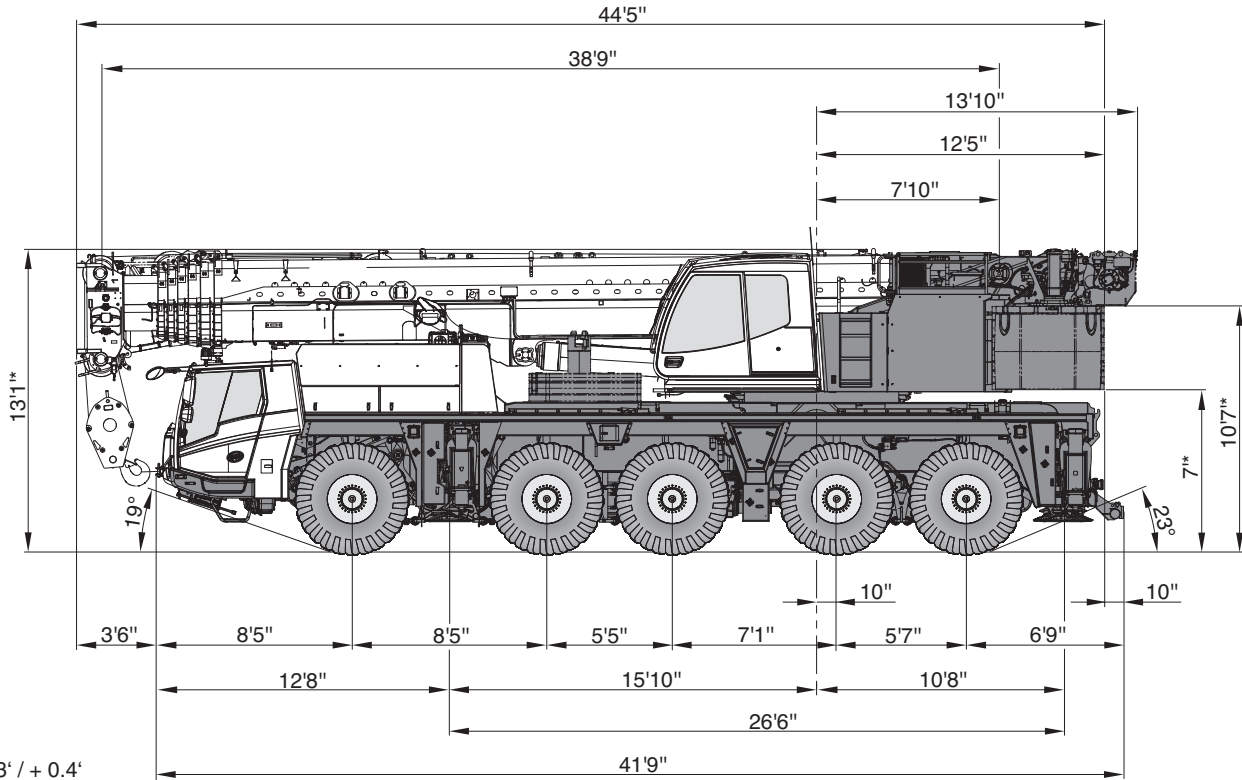
	Counterweight		Boom telescoping
	Lifting capacities on outriggers · 360°		Boom elevation
	Radius		Working speeds
	Main boom		Slewing
	Folding swing-away jib		Max. line pull
	Runner		Rope diameter
	Max. axle loads		Rope length
	Mechanism		Hook block
	Tires		Number of lines
	Hook block		Possible load of 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
			Length of stroke (support cylinders)

GENERAL TECHNICAL DATA

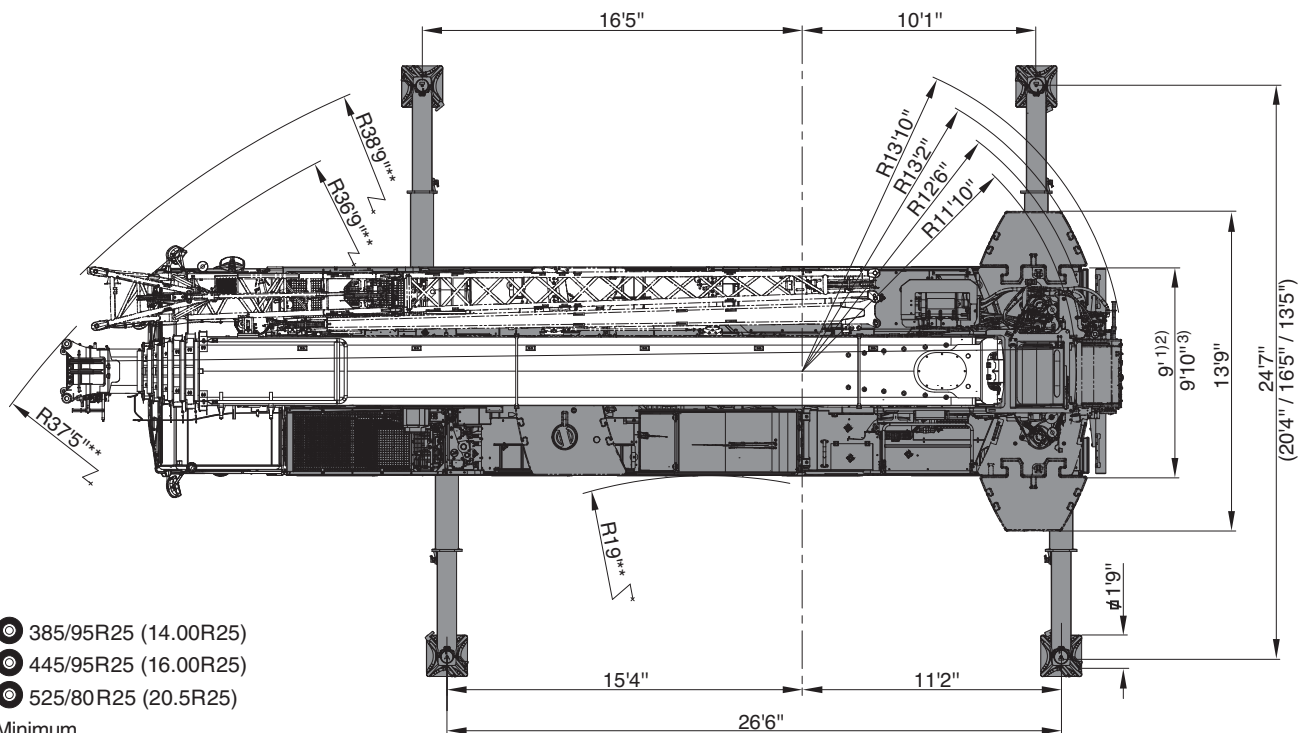


General

Vehicle dimensions



* -0.3' / + 0.4'

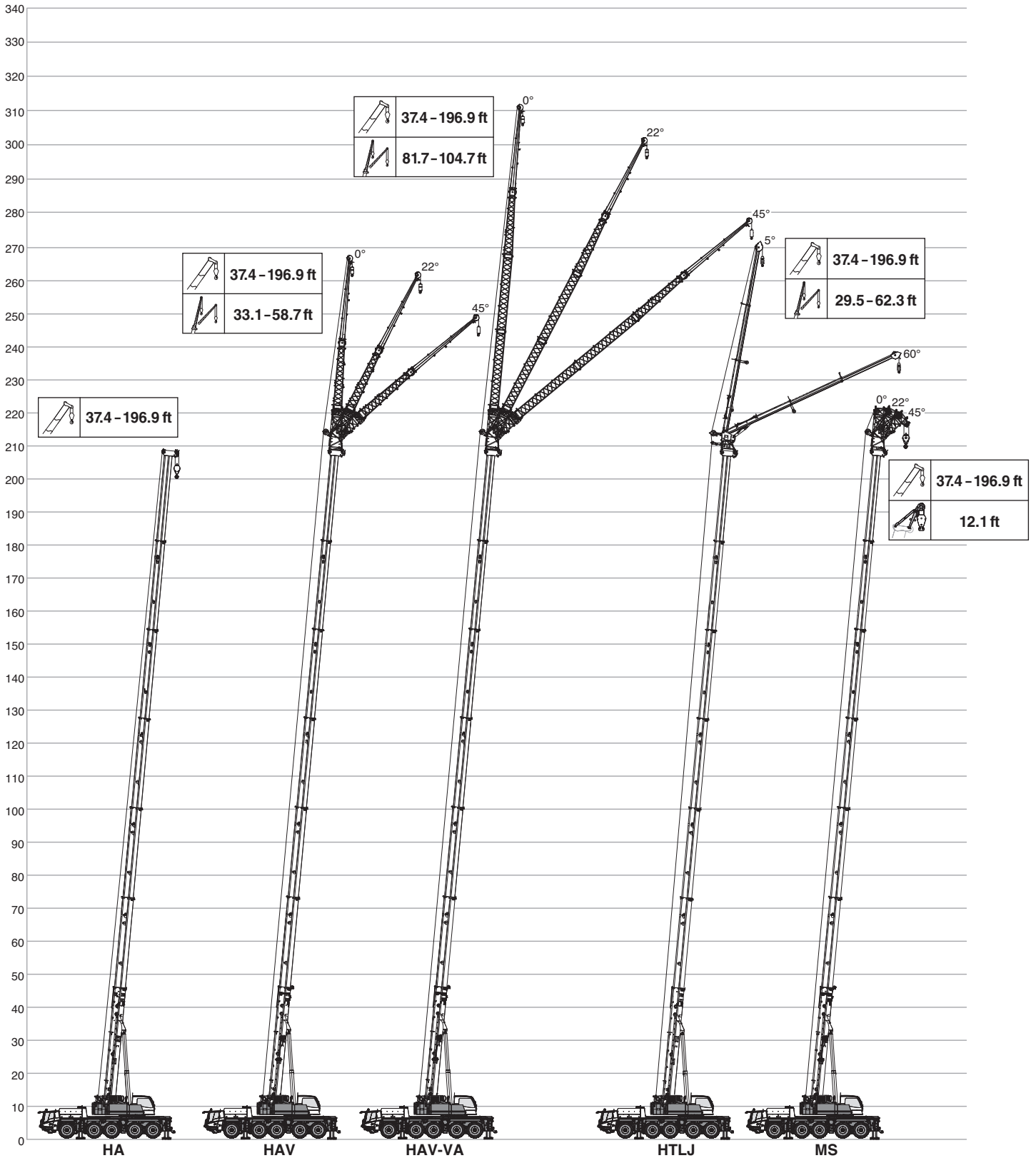


- 1) 385/95R25 (14.00R25)
- 2) 445/95R25 (16.00R25)
- 3) 525/80R25 (20.5R25)

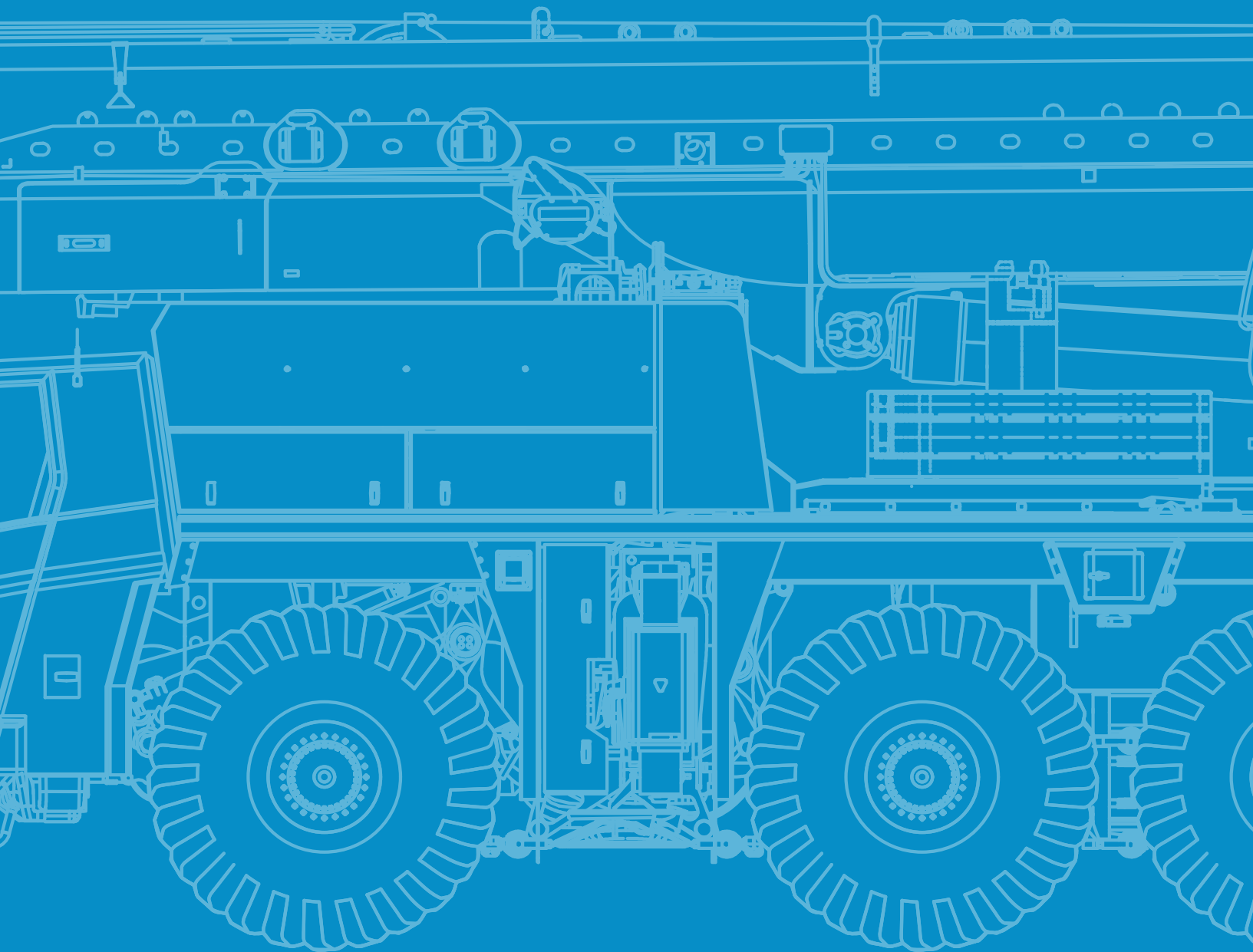
** Minimum

General







Boom combinations








TECHNICAL DATA FOR ON-ROAD AND OFF-ROAD DRIVING












On-road and off-road driving

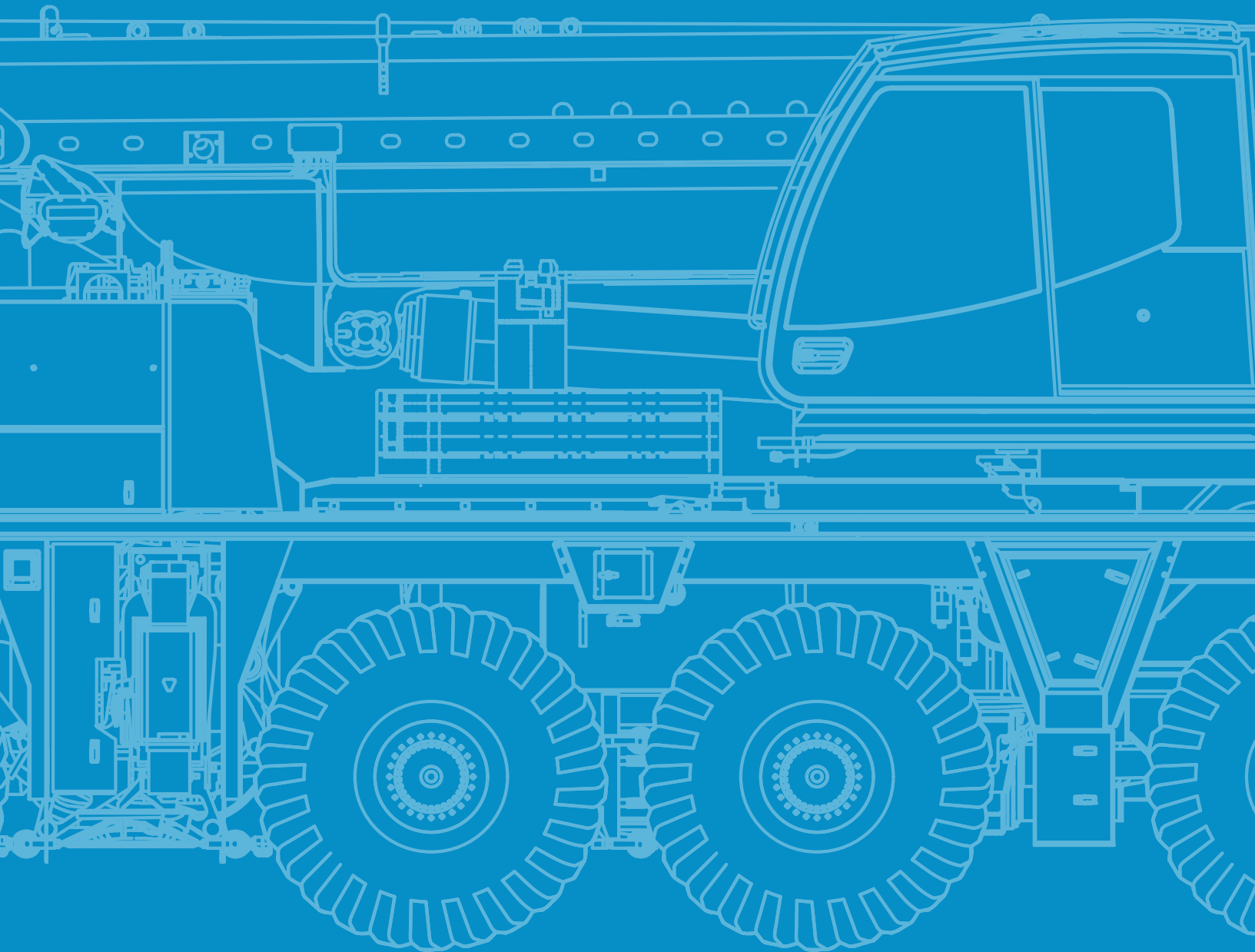
Axle loads						
	Total					
< 22,050 lbs	< 105,800 lbs	10 x 6	385/95R25	138,900 lbs	–	–
< 22,050 lbs	< 105,800 lbs	10 x 8	445/95R25	22,050 lbs	–	–
< 24,250 lbs	< 105,800 lbs	10 x 6	445/95R25	138,900 lbs	–	–
< 22,050 lbs	< 110,200 lbs	10 x 8	445/95R25	138,900 lbs	–	2,900 lbs
< 26,500 lbs	< 132,300 lbs	10 x 8	445/95R25	138,900/22,050 lbs	58.7 ft	20,400 lbs
< 26,500 lbs	< 132,300 lbs	10 x 8	445/95R25	138,900 lbs	–	25,500 lbs
< 28,700 lbs	< 143,300 lbs	10 x 8	445/95R25	138,900/22,050 lbs	58.7 ft	29,200 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 ¹⁾	52.8 mph ¹⁾	52.8 mph ¹⁾
	23.6 mph ¹⁾	26.1 mph ¹⁾	26.1 mph ¹⁾

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

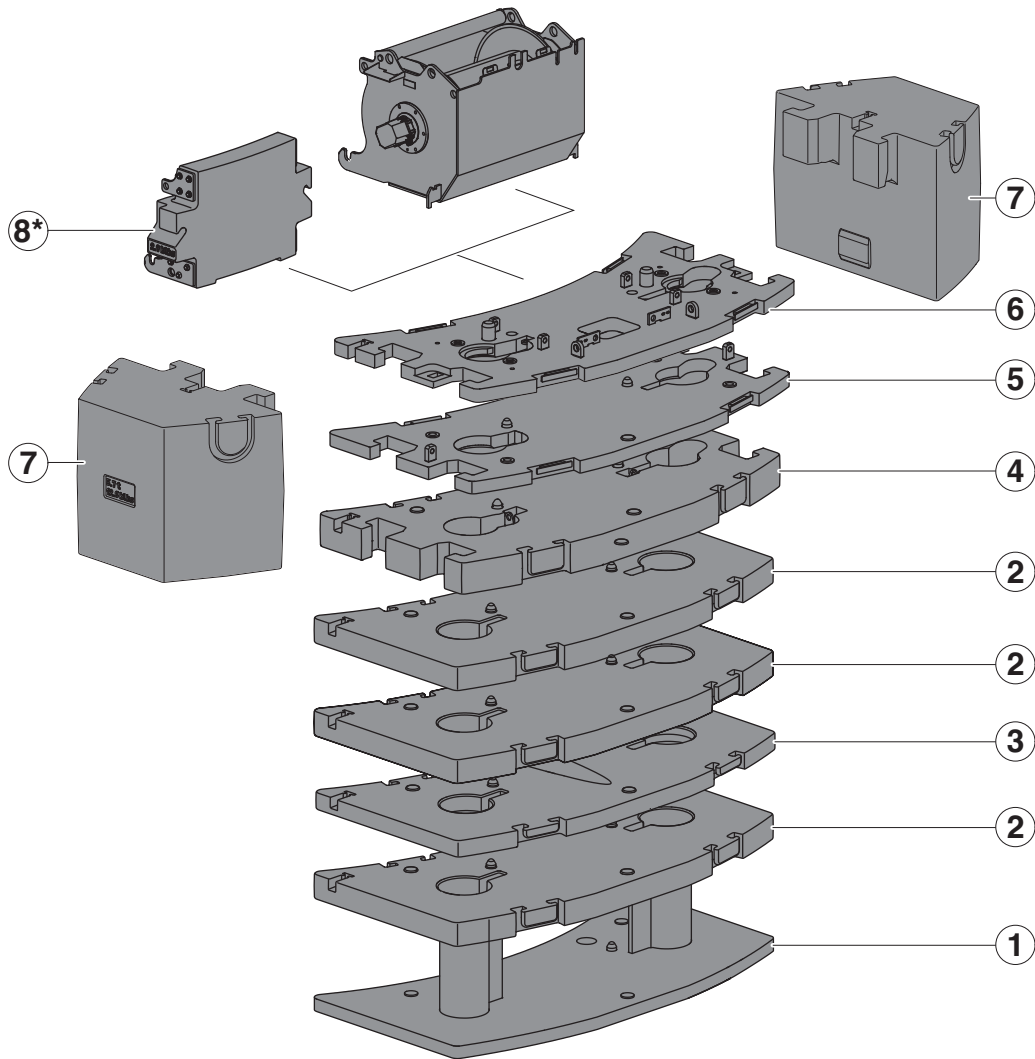
Steering	
	 v < 18.6 mph
	 18.6 mph ≤ v ≤ 31.1 mph
	 v > 31.1 mph
	 Manually steered
	 Minimum turning radius
	 Crab steer mode
	 Rear veering suppression

TECHNICAL DATA FOR TRANSPORT



Transportation

Counterweight



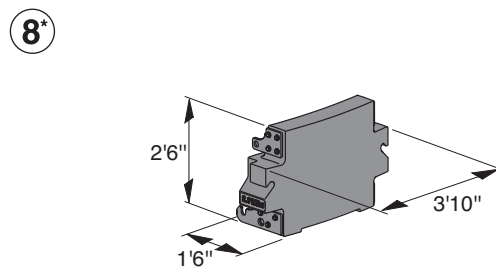
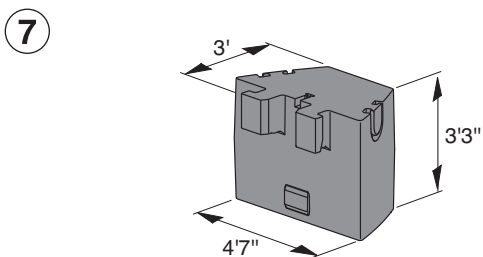
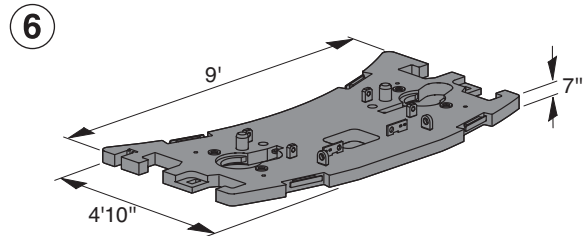
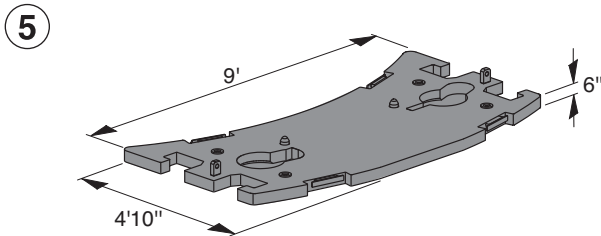
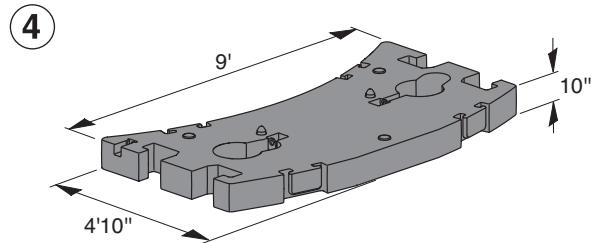
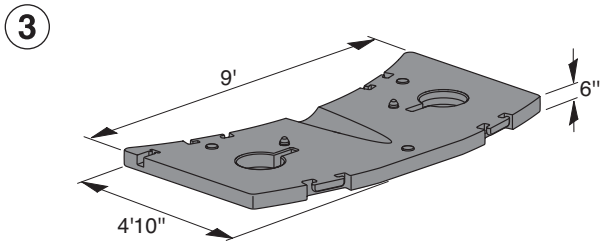
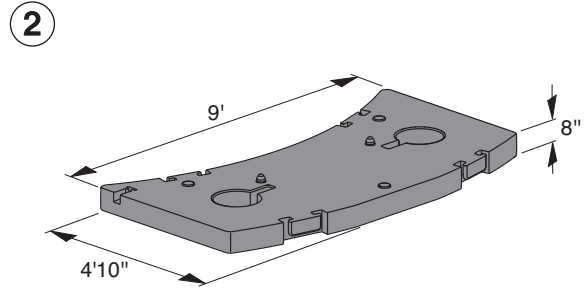
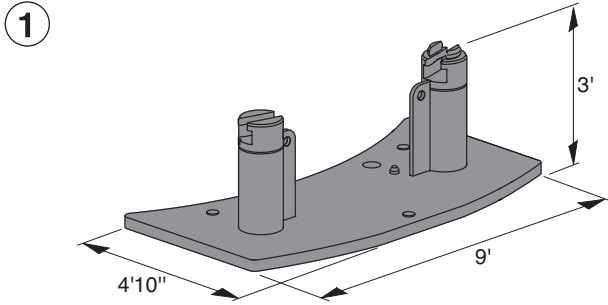
Configurations

	2,900 lbs	6,900 lbs	10,600 lbs	12,900 lbs	16,900 lbs	20,400 lbs	24,100 lbs	25,500 lbs	29,200 lbs	33,000 lbs	36,700 lbs	40,500 lbs	44,200 lbs	49,300 lbs	52,000 lbs	78,200 lbs
① 6,000 lbs				1	1	1	1	1	1	1	1	1	1	1	1	1
② 7,500 lbs						1	1	1	1	2	2	3	3	3	3	3
③ 5,100 lbs								1	1	1	1	1	1	1	1	1
④ 8,800 lbs														1	1	1
⑤ 3,700 lbs			1		1		1		1		1		1		1	1
⑥ 4,000 lbs		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
⑦ 12,600 lbs																2
⑧* 2,900 lbs	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

* Can be replaced by 2nd hoist

Transportation

Counterweight

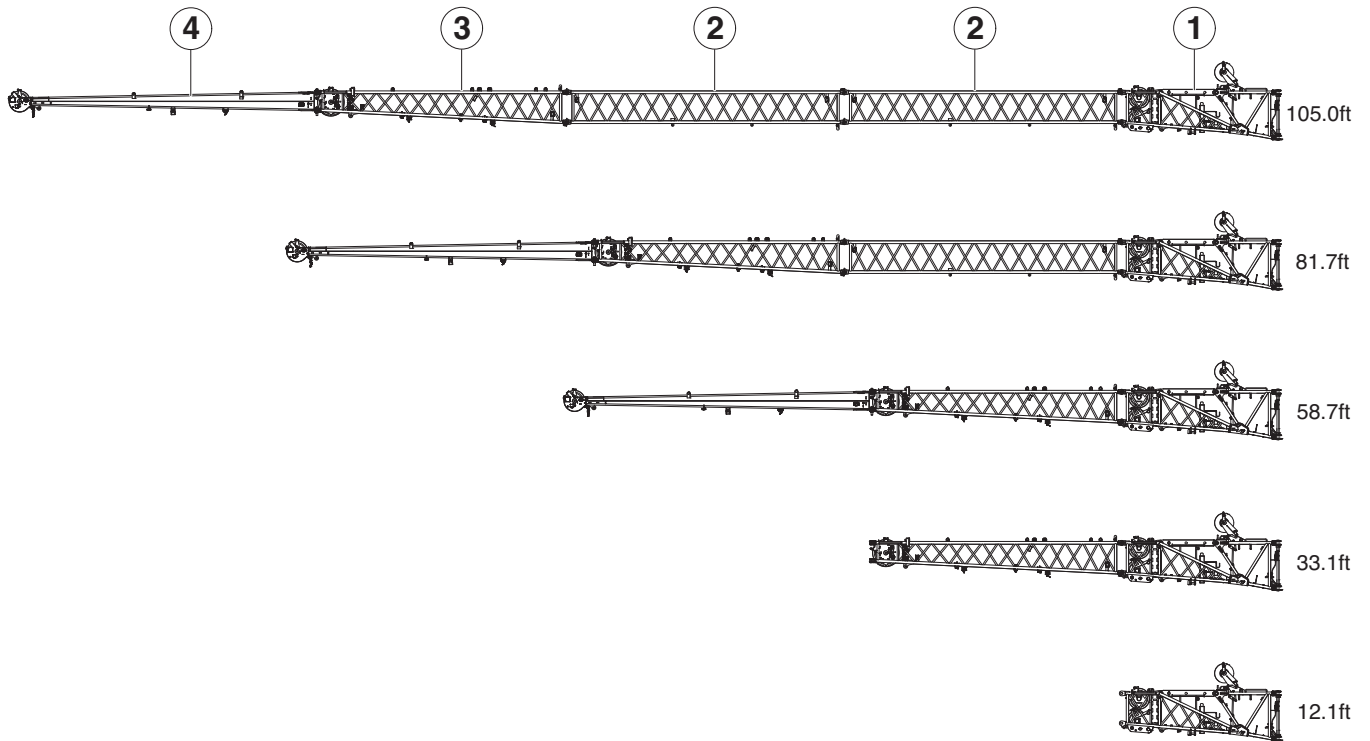


* Can be replaced by 2nd hoist

Transportation

Jib

HAV

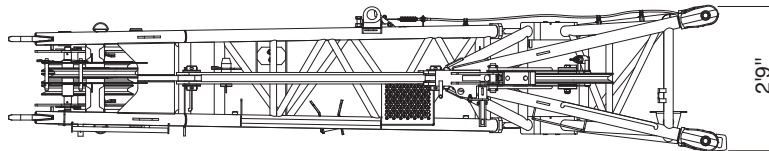
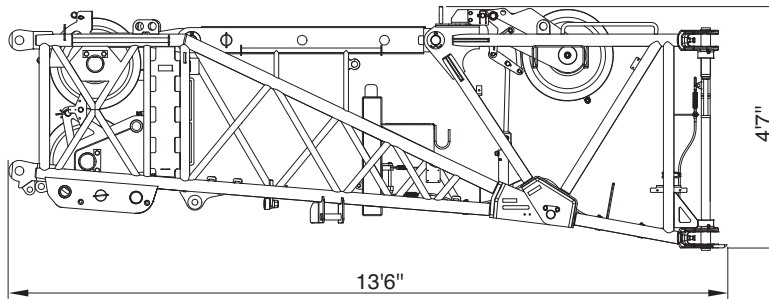


Transportation

Jib

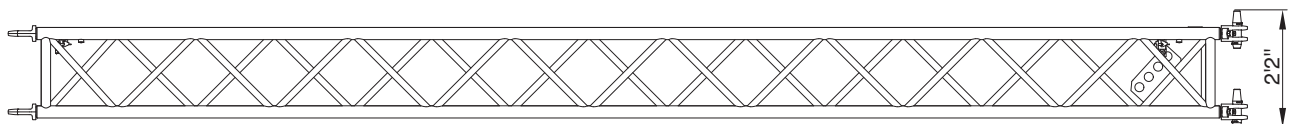
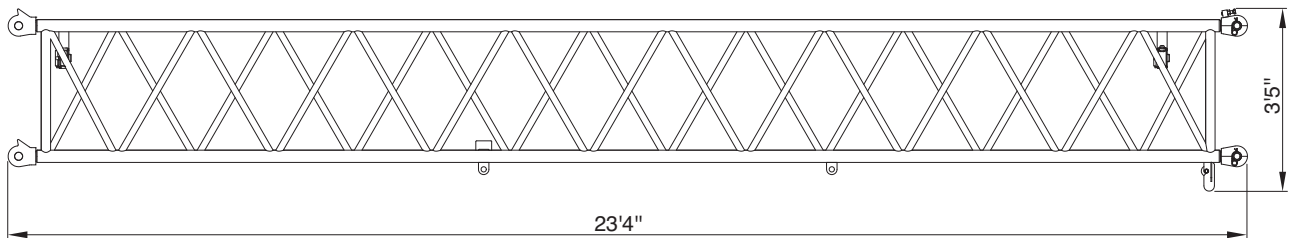
1

lbs
1,850



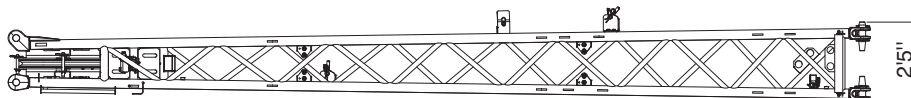
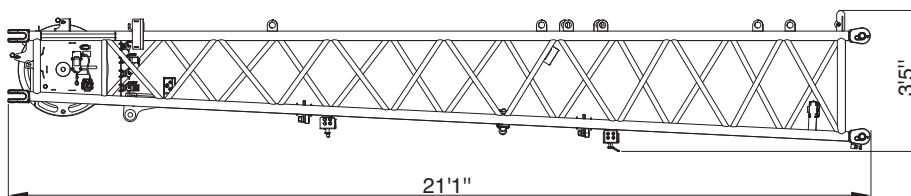
2

lbs
1,100



3

lbs
1,000



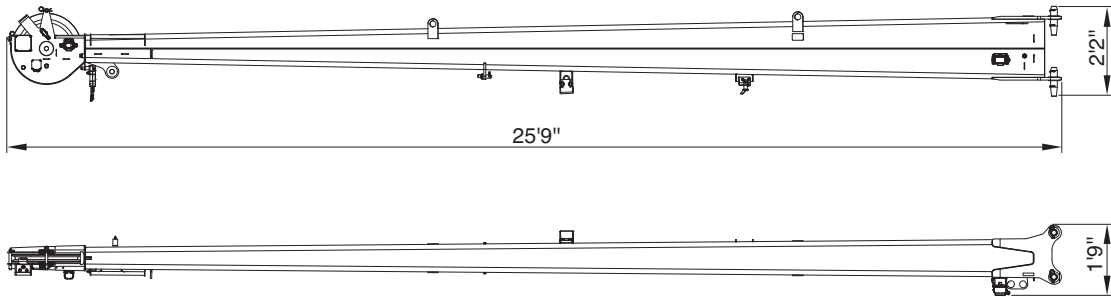
Transportation

Jib

4

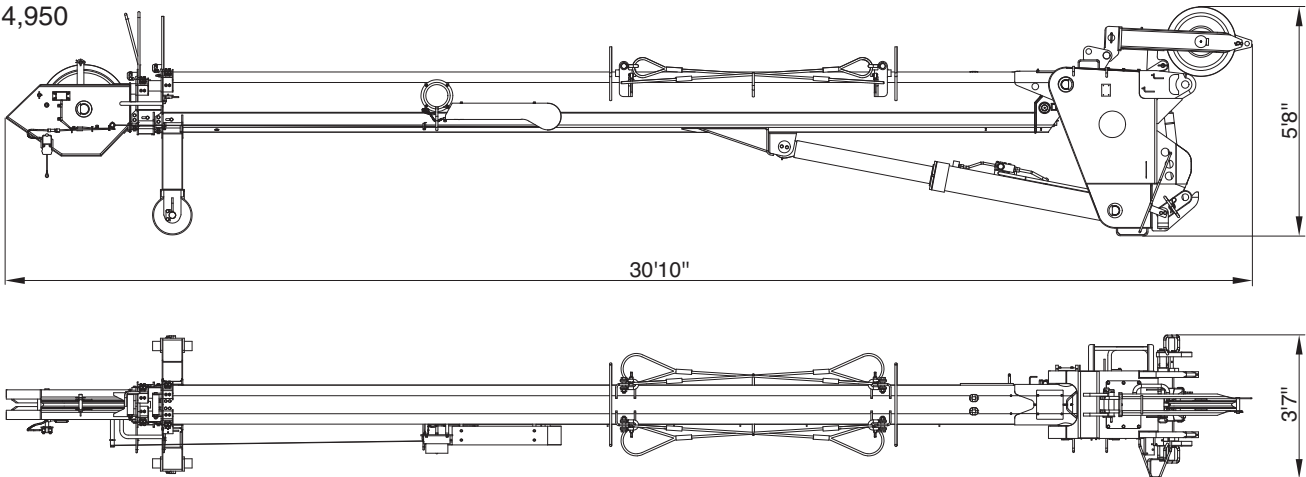
lbs

950

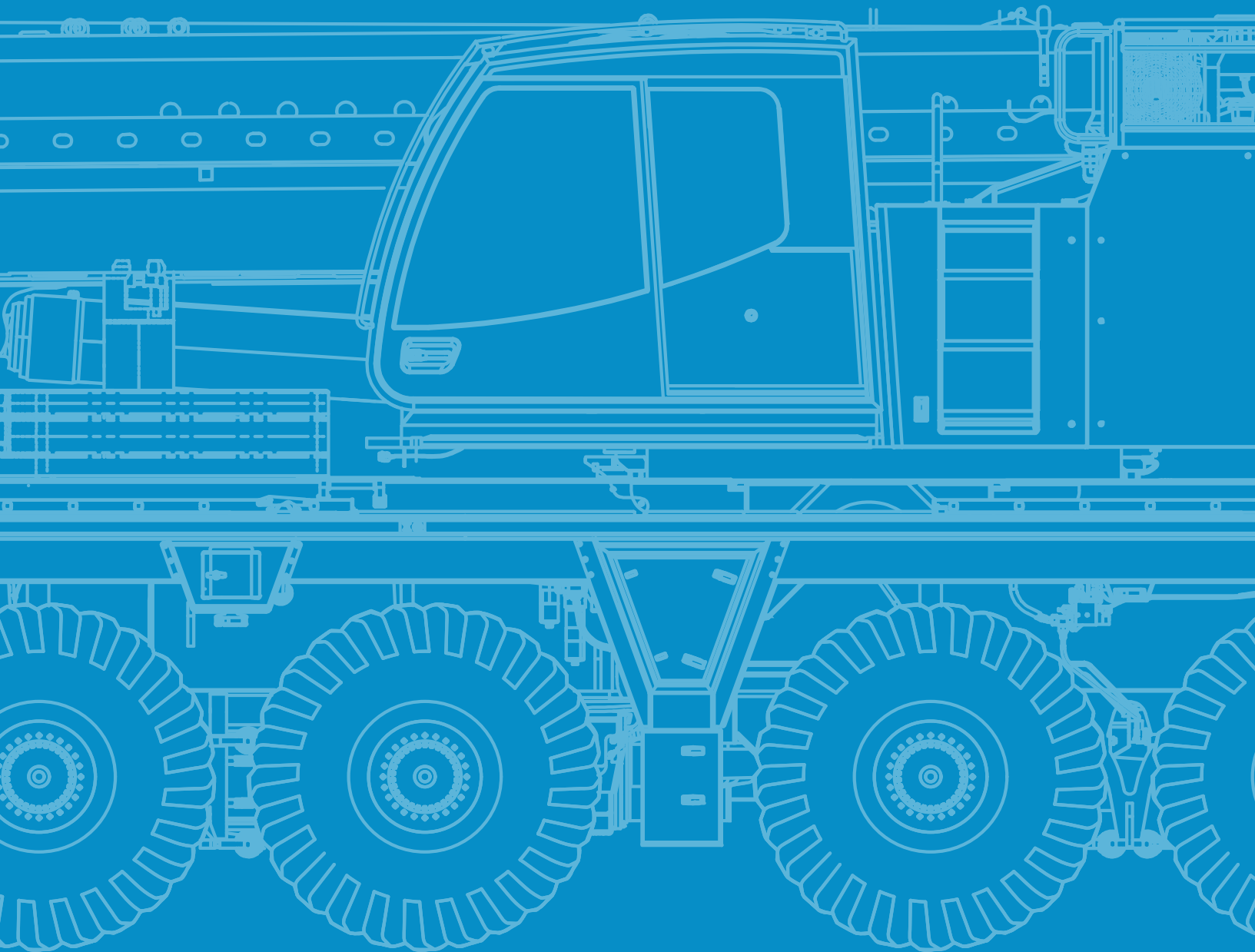


lbs

4,950



TECHNICAL DATA FOR OPERATION



Operation

Main boom



approx. 560 s (37.4 ft - 196.9 ft)



approx. 45 s (-1° - 84,7°)

Slewing



0 - 2 min⁻¹

Hoist



1

377 ft/min

19,109 lbf

0.83"

820 ft

2

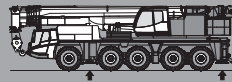
377 ft/min

19,109 lbf

0.83"

820 ft

Outrigger cylinders



150,000 lbs

176,400 lbs



23.6"

23.6"

Hook Blocks



22,050 lbs

19,100

-

1

660

70,600 lbs

56,450

1

3

990

138,900 lbs

130,100

3

7

1,320

220,500 lbs

202,200

5

11

1,760

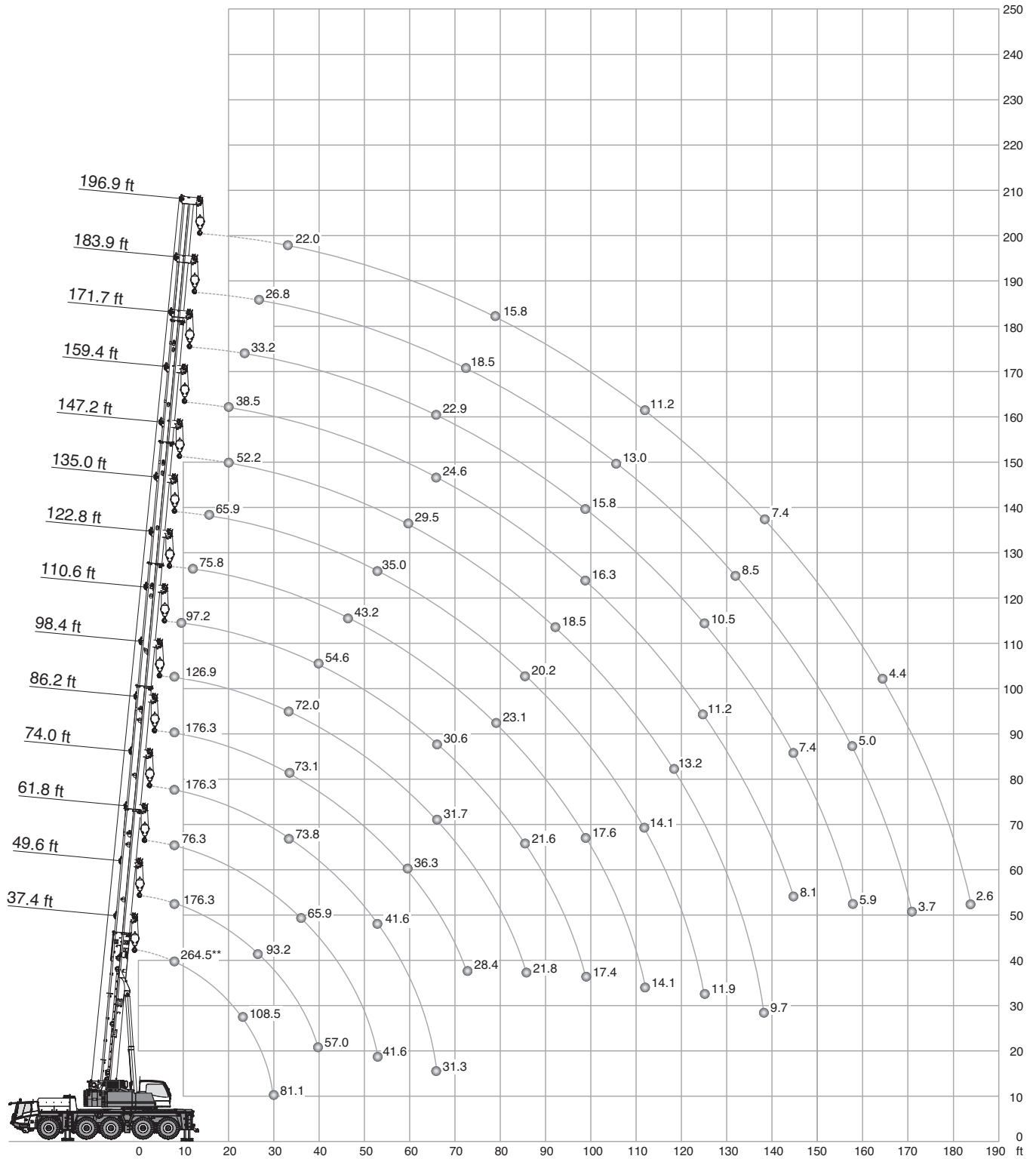
352,800 lbs

264,600

7

15

2,870



** Max. crane capacity – with additional special equipment

Operation

HA

78,200 lbs		24.6 ft x 26.3 ft														360°		ASME B30.5	
ft		(ft)														ft			
ft		1,000 lbs														ft			
8.2	264.5**	251.3	176.3	176.3	176.3	154.3	126.9	-	-	-	-	-	-	-	-	-	-	8.2	
9.8	232.1	227.0	176.3	176.3	176.3	154.3	126.9	97.2	-	-	-	-	-	-	-	-	-	9.8	
11.5	214.7	206.5	176.3	176.3	172.1	154.3	126.9	95.0	75.8	-	-	-	-	-	-	-	-	11.5	
13.1	195.5	188.9	176.3	176.3	165.3	154.3	126.1	91.2	79.1	-	-	-	-	-	-	-	-	13.1	
14.8	173.2	173.2	172.4	170.6	165.3	148.1	123.6	87.5	76.2	65.9	-	-	-	-	-	-	-	14.8	
16.4	155.4	155.4	155.6	155.4	154.3	141.9	120.5	83.7	73.6	64.5	-	-	-	-	-	-	-	16.4	
19.7	128.5	128.5	128.7	128.5	128.5	128.3	112.2	78.9	67.9	59.9	52.2	38.5	-	-	-	-	-	19.7	
23.0	108.6	108.6	108.9	110.0	109.5	108.4	104.0	73.4	62.8	55.7	49.3	41.0	33.2	-	-	-	-	23.0	
26.2	93.0	93.0	93.2	94.3	93.6	94.5	93.9	70.3	58.4	51.8	46.5	39.4	33.2	26.8	-	-	-	26.2	
29.5	81.1	81.1	81.1	82.2	83.3	82.8	81.7	65.0	58.4	48.5	43.6	38.1	32.1	26.8	-	-	-	29.5	
32.8	-	-	71.4	72.5	73.8	73.1	72.0	60.8	54.8	48.0	41.2	37.2	31.3	26.8	22.0	-	-	32.8	
36.1	-	-	63.4	65.9	65.9	65.2	64.3	57.5	51.5	46.0	39.0	35.0	30.2	26.8	22.0	-	-	36.1	
39.4	-	-	57.0	59.5	59.3	58.8	57.7	54.6	48.5	43.4	38.8	33.5	30.2	26.0	22.0	-	-	39.4	
45.9	-	-	-	49.3	49.1	48.5	47.6	48.9	43.2	38.8	35.2	32.4	27.3	24.4	22.0	-	-	45.9	
52.5	-	-	-	41.6	41.6	41.0	42.3	41.2	38.5	35.0	32.1	29.5	27.1	22.9	20.5	-	-	52.5	
59.1	-	-	-	-	35.7	36.3	36.3	35.2	34.8	31.9	29.5	26.8	24.6	21.3	19.1	-	-	59.1	
65.6	-	-	-	-	31.3	32.4	31.7	30.6	30.2	29.1	27.1	24.6	22.9	19.8	18.0	-	-	65.6	
72.2	-	-	-	-	-	28.4	27.7	26.8	26.4	26.6	24.9	22.7	21.1	18.5	16.9	-	-	72.2	
78.7	-	-	-	-	-	-	24.6	24.4	23.1	23.3	23.1	20.9	19.6	17.1	15.8	-	-	78.7	
85.3	-	-	-	-	-	-	21.8	21.6	20.7	20.2	21.1	19.6	18.2	15.8	14.7	-	-	85.3	
91.9	-	-	-	-	-	-	-	18.9	19.4	18.7	18.5	18.0	16.9	14.7	13.8	-	-	91.9	
98.4	-	-	-	-	-	-	-	17.4	17.6	17.4	16.3	16.3	15.8	13.8	13.0	-	-	98.4	
105.0	-	-	-	-	-	-	-	-	15.6	15.6	14.9	14.3	14.9	13.0	12.1	-	-	105.0	
111.5	-	-	-	-	-	-	-	-	14.1	14.1	14.1	13.2	13.4	12.1	11.2	-	-	111.5	
118.1	-	-	-	-	-	-	-	-	-	12.5	13.2	12.3	11.9	11.0	10.5	-	-	118.1	
124.7	-	-	-	-	-	-	-	-	-	11.9	11.9	11.2	10.5	9.7	9.7	-	-	124.7	
131.2	-	-	-	-	-	-	-	-	-	-	10.8	10.1	9.4	8.5	8.5	-	-	131.2	
137.8	-	-	-	-	-	-	-	-	-	-	9.7	9.0	8.3	7.7	7.4	-	-	137.8	
144.4	-	-	-	-	-	-	-	-	-	-	-	8.1	7.4	6.6	6.6	-	-	144.4	
150.9	-	-	-	-	-	-	-	-	-	-	-	-	6.6	5.9	5.7	-	-	150.9	
157.5	-	-	-	-	-	-	-	-	-	-	-	-	5.9	5.0	5.0	-	-	157.5	
164.0	-	-	-	-	-	-	-	-	-	-	-	-	-	4.4	4.4	-	-	164.0	
170.6	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7	3.7	-	-	170.6	
177.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-	177.2	
183.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6	-	-	183.7	

* over rear

** Max. crane capacity – with additional special equipment

Operation

HA




53,000 lbs		24.6 ft x 26.3 ft				360° / Max.*				ASME B30.5					
ft	360° 37.4ft	Max. 37.4ft	360° 49.6ft	Max. 49.6ft	360° 61.8ft	Max. 61.8ft	360° 74.0ft	Max. 74.0ft	360° 86.2ft	Max. 86.2ft	360° 98.4ft	Max. 98.4ft	360° 110.6ft	Max. 110.6ft	ft
1,000 lbs															
8.2	249.5	251.3	176.3	176.3	176.3	176.3	176.3	176.3	154.3	154.3	126.9	126.9	-	-	8.2
9.8	224.8	227.0	176.3	176.3	176.3	176.3	176.3	176.3	154.3	154.3	126.9	126.9	97.2	97.2	9.8
11.5	204.1	206.5	176.3	176.3	176.3	176.3	176.3	172.1	172.1	154.3	154.3	126.9	126.9	95.0	11.5
13.1	182.5	183.8	176.3	176.3	176.3	176.3	176.3	165.3	165.3	154.3	154.3	126.1	126.1	91.2	13.1
14.8	162.0	162.7	162.2	162.9	162.0	162.4	160.9	161.3	148.1	148.1	123.6	123.6	87.5	87.5	14.8
16.4	145.2	145.5	145.5	146.6	145.2	145.5	144.1	144.4	141.9	141.9	120.5	120.5	83.7	83.7	16.4
19.7	118.8	118.8	119.0	119.9	120.1	120.1	119.7	119.7	118.6	118.6	112.2	112.2	78.9	78.9	19.7
23.0	99.2	99.2	99.4	100.3	100.5	100.5	100.0	100.0	101.4	101.4	100.3	100.3	73.4	73.4	23.0
26.2	84.8	84.8	84.8	85.7	85.9	85.9	87.5	87.5	86.8	86.8	85.7	85.7	70.3	70.3	26.2
29.5	73.8	73.8	73.6	74.5	76.0	76.0	76.2	76.2	75.6	75.6	74.5	74.5	65.0	65.0	29.5
32.8	-	-	64.8	65.6	67.2	67.2	67.2	67.2	66.5	66.5	65.6	65.6	60.8	60.8	32.8
36.1	-	-	57.7	58.4	59.9	59.9	59.9	59.9	59.3	59.3	58.4	58.4	57.5	57.5	36.1
39.4	-	-	53.1	53.1	54.0	54.0	54.0	54.0	53.3	53.3	52.2	52.2	53.5	53.5	39.4
45.9	-	-	-	-	44.5	44.5	44.5	44.5	43.8	43.8	45.1	45.1	43.4	43.4	45.9
52.5	-	-	-	-	36.8	37.6	36.5	37.6	38.3	38.8	37.4	38.1	35.9	37.2	52.5
59.1	-	-	-	-	-	-	31.7	33.0	31.5	33.2	30.6	32.8	30.4	32.4	59.1
65.6	-	-	-	-	-	-	26.8	29.3	26.4	29.1	25.7	28.4	25.3	28.2	65.6
72.2	-	-	-	-	-	-	-	-	22.4	25.5	21.8	24.9	22.0	24.6	72.2
78.7	-	-	-	-	-	-	-	-	-	-	18.5	22.2	19.6	21.8	78.7
85.3	-	-	-	-	-	-	-	-	-	-	16.5	19.8	16.9	19.6	85.3
91.9	-	-	-	-	-	-	-	-	-	-	-	-	14.7	18.0	91.9
98.4	-	-	-	-	-	-	-	-	-	-	-	-	13.0	16.5	98.4




ft	360° 122.8ft	Max. 122.8ft	360° 135.0ft	Max. 135.0ft	360° 147.2ft	Max. 147.2ft	360° 159.4ft	Max. 159.4ft	360° 171.7ft	Max. 171.7ft	360° 183.9ft	Max. 183.9ft	360° 196.9ft	Max. 196.9ft	ft
1,000 lbs															
11.5	75.8	75.8	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	79.1	79.1	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	76.2	76.2	65.9	65.9	-	-	-	-	-	-	-	-	-	-	14.8
16.4	73.6	73.6	64.5	64.5	-	-	-	-	-	-	-	-	-	-	16.4
19.7	67.9	67.9	59.9	59.9	52.2	52.2	38.5	38.5	-	-	-	-	-	-	19.7
23.0	62.8	62.8	55.7	55.7	49.3	49.3	41.0	41.0	33.2	33.2	-	-	-	-	23.0
26.2	58.4	58.4	51.8	51.8	46.5	46.5	39.4	39.4	33.2	33.2	26.8	26.8	-	-	26.2
29.5	58.4	58.4	48.5	48.5	43.6	43.6	38.1	38.1	32.1	32.1	26.8	26.8	-	-	29.5
32.8	54.8	54.8	48.0	48.0	41.2	41.2	37.2	37.2	31.3	31.3	26.8	26.8	22.0	22.0	32.8
36.1	51.5	51.5	46.0	46.0	39.0	39.0	35.0	35.0	30.2	30.2	26.8	26.8	22.0	22.0	36.1
39.4	48.5	48.5	43.4	43.4	38.8	38.8	33.5	33.5	30.2	30.2	26.0	26.0	22.0	22.0	39.4
45.9	41.6	43.2	38.8	38.8	35.2	35.2	32.4	32.4	27.3	27.3	24.4	24.4	22.0	22.0	45.9
52.5	34.3	36.8	33.7	35.0	32.1	32.1	29.5	29.5	27.1	27.1	22.9	22.9	20.5	20.5	52.5
59.1	29.5	31.3	28.4	31.5	28.8	29.5	26.8	26.8	24.6	24.6	21.3	21.3	19.1	19.1	59.1
65.6	24.9	27.3	25.7	27.1	24.6	27.1	24.2	24.6	22.9	22.9	19.8	19.8	18.0	18.0	65.6
72.2	22.4	24.0	22.4	23.5	21.6	24.4	20.9	22.7	21.1	21.1	18.5	18.5	16.9	16.9	72.2
78.7	19.4	21.8	19.1	21.8	18.7	21.6	18.9	20.9	18.5	19.6	17.1	17.1	15.8	15.8	78.7
85.3	16.7	20.2	16.5	20.0	17.4	19.1	16.7	19.1	16.0	18.2	14.9	15.8	14.7	14.7	85.3
91.9	14.5	18.0	15.4	18.0	15.2	17.1	14.5	16.7	13.8	16.9	13.0	14.7	12.7	13.8	91.9
98.4	12.7	16.0	13.4	16.0	13.2	15.6	12.5	15.2	11.9	15.6	11.2	13.8	11.0	13.0	98.4
105.0	11.2	14.5	11.9	14.3	11.6	14.9	11.0	14.1	10.3	13.8	9.4	13.0	9.4	12.1	105.0
111.5	9.9	13.2	10.5	13.2	10.3	13.4	9.7	12.7	9.0	12.3	8.1	11.4	8.1	11.2	111.5
118.1	-	-	9.4	12.3	9.0	12.1	8.3	11.4	7.7	10.8	7.0	9.4	6.8	9.9	118.1
124.7	-	-	8.3	11.2	7.9	10.8	7.2	10.1	6.8	9.4	5.9	8.5	5.9	8.5	124.7
131.2	-	-	-	-	7.0	9.7	6.3	9.0	5.7	8.3	4.8	7.4	4.8	7.4	131.2
137.8	-	-	-	-	6.3	8.8	5.5	7.9	5.0	7.0	4.1	6.1	3.9	6.3	137.8
144.4	-	-	-	-	-	-	4.8	7.0	4.1	6.3	3.3	5.5	3.3	5.5	144.4
150.9	-	-	-	-	-	-	-	-	3.5	5.7	2.6	4.8	2.6	4.6	150.9
157.5	-	-	-	-	-	-	-	-	2.8	5.0	1.9	4.1	1.9	3.9	157.5
164.0	-	-	-	-	-	-	-	-	-	-	1.5	3.5	1.5	3.3	164.0
170.6	-	-	-	-	-	-	-	-	-	-	1.1	2.8	-	2.6	170.6
177.2	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2	177.2
183.7	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	183.7

* Max. values are valid only for specific superstructure positions

Operation

HA

29,200 lbs		24.6 ft x 26.3 ft				360° / Max.*				ASME B30.5						
		360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	
ft	ft	37.4ft	37.4ft	49.6ft	49.6ft	61.8ft	61.8ft	74.0ft	74.0ft	86.2ft	86.2ft	98.4ft	98.4ft	110.6ft	110.6ft	ft
1,000 lbs																
8.2	246.2	251.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	154.3	154.3	126.9	126.9	-	-	8.2
9.8	221.3	227.0	176.3	176.3	176.3	176.3	176.3	176.3	176.3	154.3	154.3	126.9	126.9	97.2	97.2	9.8
11.5	194.2	195.3	176.3	176.3	176.3	176.3	176.3	172.1	172.1	154.3	154.3	126.9	126.9	95.0	95.0	11.5
13.1	169.7	170.1	169.0	169.3	167.7	168.2	165.3	165.3	154.3	154.3	126.1	126.1	91.2	91.2	13.1	
14.8	150.3	150.3	150.5	151.6	150.3	150.3	149.0	149.0	148.1	148.1	123.6	123.6	87.5	87.5	14.8	
16.4	133.1	133.1	133.3	134.2	134.4	134.4	134.0	134.0	132.7	132.7	120.5	120.5	83.7	83.7	16.4	
19.7	107.5	107.5	107.8	108.6	108.9	108.9	108.4	108.4	109.1	109.1	102.9	102.9	78.9	78.9	19.7	
23.0	89.7	89.7	89.9	90.8	91.0	91.0	92.3	92.3	90.6	91.9	83.9	90.8	73.4	73.4	23.0	
26.2	76.5	76.5	76.5	77.3	79.1	79.1	79.1	79.1	75.6	78.4	69.8	77.3	68.5	70.3	26.2	
29.5	66.3	66.3	66.3	67.2	68.7	68.7	67.9	67.9	63.4	68.1	61.7	67.2	58.4	65.0	29.5	
32.8	-	-	59.7	59.7	60.6	60.6	59.7	59.7	54.4	59.9	54.2	59.0	52.0	60.4	32.8	
36.1	-	-	50.4	53.1	51.8	54.0	50.2	54.0	50.2	53.3	47.3	54.6	45.4	53.5	36.1	
39.4	-	-	42.9	47.6	44.0	48.5	44.0	48.5	44.3	48.2	42.1	49.1	40.3	48.0	39.4	
45.9	-	-	-	-	34.6	39.9	35.2	39.9	35.0	41.2	33.7	40.5	33.0	40.3	45.9	
52.5	-	-	-	-	27.5	32.8	27.9	34.3	27.7	34.1	26.8	33.2	27.7	33.0	52.5	
59.1	-	-	-	-	-	-	22.7	28.4	22.4	28.2	23.1	27.5	22.7	27.7	59.1	
65.6	-	-	-	-	-	-	18.7	24.2	18.5	23.8	19.1	23.1	18.7	23.5	65.6	
72.2	-	-	-	-	-	-	-	-	15.4	20.2	16.0	19.6	16.5	20.5	72.2	
78.7	-	-	-	-	-	-	-	-	-	-	13.6	17.8	14.5	17.8	78.7	
85.3	-	-	-	-	-	-	-	-	-	-	11.4	15.8	12.3	15.4	85.3	
91.9	-	-	-	-	-	-	-	-	-	-	-	-	10.5	13.4	91.9	
98.4	-	-	-	-	-	-	-	-	-	-	-	-	9.2	12.7	98.4	

		360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	
ft	ft	122.8ft	122.8ft	135.0ft	135.0ft	147.2ft	147.2ft	159.4ft	159.4ft	171.7ft	171.7ft	183.9ft	183.9ft	196.9ft	196.9ft	ft
1,000 lbs																
11.5	75.8	75.8	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	79.1	79.1	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	76.2	76.2	65.9	65.9	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	73.6	73.6	64.5	64.5	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	67.9	67.9	59.9	59.9	52.2	52.2	38.5	38.5	-	-	-	-	-	-	-	19.7
23.0	62.8	62.8	55.7	55.7	49.3	49.3	41.0	41.0	33.2	33.2	-	-	-	-	-	23.0
26.2	58.4	58.4	51.8	51.8	46.5	46.5	39.4	39.4	33.2	33.2	26.8	26.8	-	-	-	26.2
29.5	55.3	58.4	48.5	48.5	43.6	43.6	38.1	38.1	32.1	32.1	26.8	26.8	-	-	-	29.5
32.8	48.2	54.8	46.2	48.0	41.2	41.2	37.2	37.2	31.3	31.3	26.8	26.8	22.0	22.0	32.8	
36.1	42.7	51.5	41.2	46.0	39.0	39.0	35.0	35.0	30.2	30.2	26.8	26.8	22.0	22.0	36.1	
39.4	37.9	47.8	37.4	43.4	35.9	38.8	33.5	33.5	30.2	30.2	26.0	26.0	22.0	22.0	39.4	
45.9	32.1	39.0	31.5	38.8	29.7	35.2	28.2	32.4	27.3	27.3	24.4	24.4	22.0	22.0	45.9	
52.5	27.1	32.4	26.0	31.7	25.5	32.1	24.6	29.5	23.3	27.1	21.8	22.9	20.5	20.5	52.5	
59.1	22.7	27.1	22.2	27.7	22.0	26.8	20.7	26.4	19.6	24.6	18.0	21.3	17.6	19.1	59.1	
65.6	18.5	23.8	19.6	23.8	18.9	23.1	17.6	22.4	16.5	22.9	15.2	19.8	14.7	18.0	65.6	
72.2	15.4	20.5	16.3	20.2	16.0	20.0	14.9	20.2	13.8	19.4	12.5	18.2	12.3	16.9	72.2	
78.7	13.0	17.6	13.8	17.6	13.6	18.0	12.7	17.4	11.9	16.9	10.5	15.2	10.3	15.2	78.7	
85.3	11.0	15.2	11.6	16.0	11.4	15.8	10.8	15.2	10.1	14.5	8.8	13.2	8.5	13.0	85.3	
91.9	9.2	13.2	9.9	14.1	9.7	13.8	9.0	13.2	8.3	12.5	7.4	11.2	7.2	11.2	91.9	
98.4	7.7	11.6	8.5	12.3	8.3	12.1	7.7	11.4	7.0	11.0	6.1	9.7	5.9	9.7	98.4	
105.0	6.6	10.3	7.2	11.0	7.0	10.8	6.3	10.1	5.7	9.4	4.8	8.3	4.8	8.3	105.0	
111.5	5.7	9.0	6.1	9.7	5.9	9.4	5.2	8.8	4.6	8.3	3.7	7.4	3.7	7.2	111.5	
118.1	-	-	5.2	8.5	5.0	8.3	4.4	7.4	3.7	7.0	2.8	6.1	2.8	6.1	118.1	
124.7	-	-	4.6	7.7	4.1	7.2	3.5	6.6	2.8	5.9	1.9	4.8	1.9	5.0	124.7	
131.2	-	-	-	-	3.5	6.3	2.8	5.7	2.2	4.8	1.3	3.9	1.3	3.9	131.2	
137.8	-	-	-	-	2.8	5.7	2.2	4.8	1.5	4.4	-	3.5	-	3.5	137.8	
144.4	-	-	-	-	-	-	1.5	4.4	-	3.7	-	2.8	-	2.8	144.4	
150.9	-	-	-	-	-	-	-	-	-	2.8	-	2.2	-	2.2	150.9	
157.5	-	-	-	-	-	-	-	-	-	2.4	-	1.5	-	1.5	157.5	
164.0	-	-	-	-	-	-	-	-	-	-	-	1.1	-	1.1	164.0	
170.6	-	-	-	-	-	-	-	-	-	-	-	0.6	-	-	170.6	

* Max. values are valid only for specific superstructure positions

Operation

HA

25,500 lbs		24.6 ft x 26.3 ft		360° / Max.*								ASME B30.5			
ft	360° 37.4ft	Max. 37.4ft	360° 49.6ft	Max. 49.6ft	360° 61.8ft	Max. 61.8ft	360° 74.0ft	Max. 74.0ft	360° 86.2ft	Max. 86.2ft	360° 98.4ft	Max. 98.4ft	360° 110.6ft	Max. 110.6ft	ft
1,000 lbs															
8.2	245.8	251.3	176.3	176.3	176.3	176.3	176.3	176.3	154.3	154.3	126.9	126.9	-	-	8.2
9.8	220.9	225.5	176.3	176.3	176.3	176.3	176.3	176.3	154.3	154.3	126.9	126.9	97.2	97.2	9.8
11.5	192.0	192.9	176.3	176.3	176.3	176.3	176.3	172.1	172.1	154.3	154.3	126.9	126.9	95.0	11.5
13.1	167.7	167.9	166.8	167.3	165.7	166.2	165.3	165.3	154.3	154.3	126.1	126.1	91.2	91.2	13.1
14.8	147.9	147.9	148.1	149.2	148.5	148.5	146.6	146.6	147.7	147.7	123.6	123.6	87.5	87.5	14.8
16.4	130.9	130.9	131.1	132.0	132.4	132.4	131.8	131.8	130.7	130.7	120.5	120.5	83.7	83.7	16.4
19.7	105.8	105.8	106.0	106.9	107.1	107.1	106.7	106.7	106.9	108.0	98.5	106.9	78.9	78.9	19.7
23.0	88.1	88.1	88.4	89.2	89.5	89.5	91.0	91.0	86.6	90.3	80.2	89.2	73.4	73.4	23.0
26.2	75.1	75.1	75.3	76.0	77.8	77.8	76.7	77.8	71.6	77.1	66.3	76.0	65.0	70.3	26.2
29.5	65.2	65.2	65.6	65.9	67.6	67.6	64.1	67.6	60.1	67.0	59.5	65.9	56.2	65.0	29.5
32.8	-	-	57.3	58.8	57.5	59.5	54.8	59.5	54.4	59.0	51.1	57.9	49.1	59.3	32.8
36.1	-	-	47.6	52.2	48.9	53.1	47.3	53.1	47.6	52.4	44.9	53.7	42.9	52.6	36.1
39.4	-	-	41.4	46.9	41.6	47.6	43.8	47.6	41.8	48.2	39.6	48.2	38.8	47.1	39.4
45.9	-	-	-	-	32.8	39.0	33.2	39.4	33.0	40.3	31.5	39.6	31.0	39.4	45.9
52.5	-	-	-	-	25.7	31.3	26.2	32.8	26.0	32.6	25.5	31.9	26.2	31.7	52.5
59.1	-	-	-	-	-	-	21.1	27.1	20.9	26.8	21.8	26.2	21.3	26.6	59.1
65.6	-	-	-	-	-	-	17.4	22.9	17.1	22.7	17.8	22.0	17.8	22.9	65.6
72.2	-	-	-	-	-	-	-	-	14.3	19.4	14.9	19.4	15.8	19.6	72.2
78.7	-	-	-	-	-	-	-	-	-	-	12.5	17.1	13.4	16.7	78.7
85.3	-	-	-	-	-	-	-	-	-	-	10.5	14.9	11.4	14.5	85.3
91.9	-	-	-	-	-	-	-	-	-	-	-	-	9.9	13.4	91.9
98.4	-	-	-	-	-	-	-	-	-	-	-	-	8.3	12.3	98.4

ft	360° 122.8ft	Max. 122.8ft	360° 135.0ft	Max. 135.0ft	360° 147.2ft	Max. 147.2ft	360° 159.4ft	Max. 159.4ft	360° 171.7ft	Max. 171.7ft	360° 183.9ft	Max. 183.9ft	360° 196.9ft	Max. 196.9ft	ft
1,000 lbs															
11.5	75.8	75.8	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	79.1	79.1	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	76.2	76.2	65.9	65.9	-	-	-	-	-	-	-	-	-	-	14.8
16.4	73.6	73.6	64.5	64.5	-	-	-	-	-	-	-	-	-	-	16.4
19.7	67.9	67.9	59.9	59.9	52.2	52.2	38.5	38.5	-	-	-	-	-	-	19.7
23.0	62.8	62.8	55.7	55.7	49.3	49.3	41.0	41.0	33.2	33.2	-	-	-	-	23.0
26.2	58.4	58.4	51.8	51.8	46.5	46.5	39.4	39.4	33.2	33.2	26.8	26.8	-	-	26.2
29.5	52.2	58.4	48.5	48.5	43.6	43.6	38.1	38.1	32.1	32.1	26.8	26.8	-	-	29.5
32.8	46.0	54.8	43.6	48.0	41.2	41.2	37.2	37.2	31.3	31.3	26.8	26.8	22.0	22.0	32.8
36.1	40.3	51.5	39.4	46.0	38.1	39.0	35.0	35.0	30.2	30.2	26.8	26.8	22.0	22.0	36.1
39.4	35.7	46.9	36.8	43.4	34.1	38.8	32.8	33.5	30.2	30.2	26.0	26.0	22.0	22.0	39.4
45.9	30.8	37.9	29.5	36.8	27.9	35.2	27.9	32.4	26.6	27.3	24.4	24.4	22.0	22.0	45.9
52.5	25.3	30.8	24.4	31.0	24.6	30.4	23.1	29.5	21.8	27.1	20.2	22.9	19.6	20.5	52.5
59.1	21.1	26.8	21.6	27.1	20.7	26.2	19.4	24.9	18.2	24.6	16.7	21.3	16.3	19.1	59.1
65.6	17.4	22.9	18.2	22.7	17.6	22.0	16.3	22.2	15.2	21.3	13.8	19.8	13.4	18.0	65.6
72.2	14.3	19.4	15.2	19.1	14.9	20.0	13.8	19.4	12.7	18.5	11.4	16.9	11.2	16.3	72.2
78.7	11.9	16.7	12.7	17.4	12.5	17.1	11.6	16.5	10.8	15.8	9.7	14.3	9.2	14.1	78.7
85.3	9.9	14.3	10.8	15.2	10.5	14.9	9.9	14.3	9.2	13.6	7.9	12.5	7.7	12.1	85.3
91.9	8.3	12.5	9.2	13.2	9.0	13.0	8.1	12.3	7.7	11.9	6.6	10.8	6.3	10.3	91.9
98.4	7.0	11.0	7.7	11.6	7.4	11.4	6.8	10.8	6.1	10.1	5.2	9.2	5.0	9.0	98.4
105.0	5.9	9.7	6.6	10.1	6.3	9.9	5.7	9.4	5.0	8.8	4.1	7.9	3.9	7.7	105.0
111.5	4.8	8.3	5.5	9.0	5.2	8.8	4.6	8.1	3.9	7.4	3.0	6.8	3.0	6.6	111.5
118.1	-	-	4.6	7.9	4.4	7.7	3.7	7.0	3.0	6.3	2.2	5.7	2.2	5.7	118.1
124.7	-	-	3.9	7.0	3.5	6.8	2.8	6.1	2.4	5.5	1.5	4.6	1.3	4.6	124.7
131.2	-	-	-	-	2.8	5.9	2.2	5.2	1.5	4.6	-	3.7	-	3.7	131.2
137.8	-	-	-	-	2.4	5.2	1.5	4.4	1.1	3.9	-	3.0	-	3.0	137.8
144.4	-	-	-	-	-	-	1.1	3.7	-	3.3	-	2.4	-	2.2	144.4
150.9	-	-	-	-	-	-	-	-	-	2.6	-	1.7	-	1.7	150.9
157.5	-	-	-	-	-	-	-	-	-	1.9	-	1.1	-	1.1	157.5
164.0	-	-	-	-	-	-	-	-	-	-	-	0.6	-	0.6	164.0

* Max. values are valid only for specific superstructure positions

Operation

HA

20,400 lbs		24.6 ft x 26.3 ft				360° / Max.*				ASME B30.5					
ft	360° 37.4ft	Max. 37.4ft	360° 49.6ft	Max. 49.6ft	360° 61.8ft	Max. 61.8ft	360° 74.0ft	Max. 74.0ft	360° 86.2ft	Max. 86.2ft	360° 98.4ft	Max. 98.4ft	360° 110.6ft	Max. 110.6ft	ft
1,000 lbs															
8.2	244.9	244.9	176.3	176.3	176.3	176.3	176.3	176.3	154.3	154.3	126.9	126.9	-	-	8.2
9.8	219.8	219.8	176.3	176.3	176.3	176.3	176.3	176.3	154.3	154.3	126.9	126.9	97.2	97.2	9.8
11.5	188.7	188.7	176.3	176.3	176.3	176.3	176.3	172.1	154.3	154.3	126.9	126.9	95.0	95.0	11.5
13.1	165.1	165.1	165.3	165.3	164.9	164.9	163.8	163.8	154.3	154.3	126.1	126.1	91.2	91.2	13.1
14.8	144.6	144.8	145.0	145.0	146.1	146.1	145.7	145.7	144.4	144.4	123.6	123.6	87.5	87.5	14.8
16.4	128.0	128.0	128.3	129.1	129.6	129.6	128.9	128.9	124.5	127.8	117.9	120.5	83.7	83.7	16.4
19.7	103.3	103.3	103.6	104.4	104.9	104.9	104.2	104.2	100.5	105.6	92.5	104.4	78.9	78.9	19.7
23.0	86.2	86.2	86.4	87.3	88.8	88.8	87.0	88.8	80.9	88.1	74.2	87.3	72.5	73.4	23.0
26.2	73.4	73.4	73.4	74.2	75.3	76.0	70.9	76.0	66.1	75.3	65.0	74.2	60.8	70.3	26.2
29.5	62.3	63.7	65.0	65.2	62.6	66.1	59.3	66.1	58.2	65.4	54.8	64.3	52.4	64.3	29.5
32.8	-	-	52.9	57.3	53.1	58.2	50.4	58.2	50.4	57.5	47.6	57.9	45.6	57.7	32.8
36.1	-	-	43.8	50.9	45.1	51.8	46.0	51.8	43.8	51.1	41.4	52.4	40.3	51.3	36.1
39.4	-	-	37.9	45.6	38.8	46.5	40.5	46.5	38.5	47.8	36.3	47.1	35.7	46.0	39.4
45.9	-	-	-	-	30.2	36.5	30.6	38.3	30.4	38.1	28.8	37.4	29.3	37.0	45.9
52.5	-	-	-	-	23.5	30.4	24.0	30.8	23.8	30.6	24.6	29.9	24.0	30.4	52.5
59.1	-	-	-	-	-	-	19.1	25.3	18.9	25.3	19.8	24.4	19.6	25.3	59.1
65.6	-	-	-	-	-	-	16.7	21.3	15.4	21.1	16.3	21.1	17.1	21.3	65.6
72.2	-	-	-	-	-	-	-	-	13.2	18.2	13.4	18.5	14.3	18.0	72.2
78.7	-	-	-	-	-	-	-	-	-	-	11.2	15.8	12.1	15.6	78.7
85.3	-	-	-	-	-	-	-	-	-	-	9.4	13.8	10.1	14.3	85.3
91.9	-	-	-	-	-	-	-	-	-	-	-	-	8.5	12.7	91.9
98.4	-	-	-	-	-	-	-	-	-	-	-	-	7.4	11.2	98.4

ft	360° 122.8ft	Max. 122.8ft	360° 135.0ft	Max. 135.0ft	360° 147.2ft	Max. 147.2ft	360° 159.4ft	Max. 159.4ft	360° 171.7ft	Max. 171.7ft	360° 183.9ft	Max. 183.9ft	360° 196.9ft	Max. 196.9ft	ft
1,000 lbs															
11.5	75.8	75.8	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	79.1	79.1	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	76.2	76.2	65.9	65.9	-	-	-	-	-	-	-	-	-	-	14.8
16.4	73.6	73.6	64.5	64.5	-	-	-	-	-	-	-	-	-	-	16.4
19.7	67.9	67.9	59.9	59.9	52.2	52.2	38.5	38.5	-	-	-	-	-	-	19.7
23.0	62.8	62.8	55.7	55.7	49.3	49.3	41.0	41.0	33.2	33.2	-	-	-	-	23.0
26.2	56.6	58.4	51.8	51.8	46.5	46.5	39.4	39.4	33.2	33.2	26.8	26.8	-	-	26.2
29.5	49.1	58.4	46.2	48.5	43.6	43.6	38.1	38.1	32.1	32.1	26.8	26.8	-	-	29.5
32.8	42.3	54.8	41.4	48.0	39.9	41.2	37.2	37.2	31.3	31.3	26.8	26.8	22.0	22.0	32.8
36.1	37.9	49.3	38.1	46.0	35.0	39.0	33.7	35.0	30.2	30.2	26.8	26.8	22.0	22.0	36.1
39.4	35.2	43.6	33.7	41.8	31.7	38.8	30.2	33.5	29.9	30.2	26.0	26.0	22.0	22.0	39.4
45.9	28.2	35.7	27.1	34.6	27.3	33.7	25.5	32.4	24.2	27.3	22.4	24.4	21.6	22.0	45.9
52.5	23.1	29.3	23.3	30.4	22.4	28.6	20.9	26.8	19.8	27.1	18.0	22.9	17.6	20.5	52.5
59.1	19.1	25.3	19.6	25.3	18.7	24.0	17.4	24.2	16.3	22.9	14.7	20.9	14.3	19.1	59.1
65.6	15.6	21.1	16.5	21.1	15.8	21.6	14.5	20.5	13.6	19.4	12.1	17.8	11.9	17.1	65.6
72.2	12.7	18.0	13.6	18.7	13.4	18.7	12.3	17.6	11.2	16.7	9.9	15.2	9.7	14.7	72.2
78.7	10.5	15.4	11.4	16.0	11.2	16.0	10.3	14.9	9.4	14.3	8.1	13.0	7.9	12.5	78.7
85.3	8.8	13.2	9.4	13.8	9.2	13.8	8.5	13.0	7.9	12.3	6.6	11.0	6.3	10.8	85.3
91.9	7.2	11.4	7.9	12.1	7.7	11.9	7.0	11.2	6.3	10.5	5.2	9.4	5.0	9.0	91.9
98.4	5.9	9.9	6.6	10.5	6.3	10.3	5.7	9.7	5.2	9.2	4.1	8.1	3.9	7.7	98.4
105.0	4.8	8.5	5.5	9.2	5.2	9.0	4.6	8.3	3.9	7.9	3.0	6.8	2.8	6.6	105.0
111.5	3.9	7.7	4.6	8.1	4.4	7.9	3.7	7.2	3.0	6.8	2.2	5.7	1.9	5.5	111.5
118.1	-	-	3.7	7.2	3.5	7.0	2.8	6.1	2.2	5.7	1.3	4.8	1.3	4.6	118.1
124.7	-	-	3.0	6.3	2.8	5.9	1.9	5.2	1.5	4.6	-	3.9	-	3.7	124.7
131.2	-	-	-	-	2.2	5.2	1.5	4.4	-	3.9	-	3.0	-	2.8	131.2
137.8	-	-	-	-	1.5	4.4	-	3.7	-	3.0	-	2.2	-	2.2	137.8
144.4	-	-	-	-	-	-	-	3.0	-	2.4	-	1.5	-	1.5	144.4
150.9	-	-	-	-	-	-	-	-	-	1.9	-	1.1	-	0.8	150.9
157.5	-	-	-	-	-	-	-	-	-	1.3	-	-	-	-	157.5

* Max. values are valid only for specific superstructure positions

Operation

HA




6,900 lbs		24.6 ft x 26.3 ft		360° / Max.*								ASME B30.5			
360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.
37.4ft	37.4ft	49.6ft	49.6ft	61.8ft	61.8ft	74.0ft	74.0ft	86.2ft	86.2ft	98.4ft	98.4ft	110.6ft	110.6ft		
ft															
1,000 lbs															
8.2	242.7	242.7	176.3	176.3	176.3	176.3	176.3	176.3	154.3	154.3	126.9	126.9	-	-	8.2
9.8	210.5	210.5	176.3	176.3	176.3	176.3	176.3	176.3	154.3	154.3	126.9	126.9	97.2	97.2	9.8
11.5	180.5	180.9	176.3	176.3	176.3	176.3	176.3	172.1	172.1	154.3	154.3	126.9	126.9	95.0	95.0
13.1	156.0	156.0	156.5	156.5	156.0	156.0	154.9	154.9	144.4	154.3	126.1	126.1	91.2	91.2	13.1
14.8	136.2	136.2	136.4	137.3	137.7	137.7	135.3	137.1	123.6	136.0	113.5	123.6	87.5	87.5	14.8
16.4	120.3	120.3	120.5	121.4	121.9	121.9	114.8	121.4	108.2	120.1	98.1	120.5	83.7	83.7	16.4
19.7	97.2	97.2	97.4	98.3	97.0	98.5	89.5	100.0	81.5	99.4	76.5	98.3	71.6	78.9	19.7
23.0	80.6	80.9	77.8	81.7	74.5	83.5	69.4	83.5	67.4	82.8	62.8	81.7	58.8	73.4	23.0
26.2	62.8	68.7	62.1	70.5	59.5	71.4	57.9	71.4	55.3	70.7	51.5	68.1	49.6	66.1	26.2
29.5	48.2	59.5	50.9	61.0	49.1	61.9	49.1	61.9	46.2	61.2	43.4	61.0	41.8	56.2	29.5
32.8	-	-	42.1	52.9	43.2	54.2	41.6	54.2	39.6	54.4	37.0	52.2	37.0	49.3	32.8
36.1	-	-	34.6	44.7	36.8	45.8	35.9	46.9	34.1	47.6	33.7	45.6	32.1	42.9	36.1
39.4	-	-	29.1	39.0	31.0	39.2	31.3	41.4	29.9	41.0	29.7	40.1	28.2	38.8	39.4
45.9	-	-	-	-	22.9	31.3	23.3	31.9	23.1	31.7	23.3	30.8	23.8	30.6	45.9
52.5	-	-	-	-	17.4	24.9	18.9	25.3	17.8	25.1	18.5	25.5	19.4	24.9	52.5
59.1	-	-	-	-	-	-	15.2	20.7	15.4	21.3	14.5	21.1	15.6	20.7	59.1
65.6	-	-	-	-	-	-	12.3	17.4	12.3	18.2	11.6	17.6	12.5	17.8	65.6
72.2	-	-	-	-	-	-	-	-	10.1	15.6	9.2	14.9	10.3	15.8	72.2
78.7	-	-	-	-	-	-	-	-	-	-	7.4	13.0	8.3	13.6	78.7
85.3	-	-	-	-	-	-	-	-	-	-	5.9	11.0	6.8	11.9	85.3
91.9	-	-	-	-	-	-	-	-	-	-	-	-	5.5	10.1	91.9
98.4	-	-	-	-	-	-	-	-	-	-	-	-	4.6	8.5	98.4




360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.
122.8ft	122.8ft	135.0ft	135.0ft	147.2ft	147.2ft	159.4ft	159.4ft	171.7ft	171.7ft	183.9ft	183.9ft	196.9ft	196.9ft		
ft															
1,000 lbs															
11.5	75.8	75.8	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	79.1	79.1	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	76.2	76.2	65.9	65.9	-	-	-	-	-	-	-	-	-	-	14.8
16.4	73.6	73.6	64.5	64.5	-	-	-	-	-	-	-	-	-	-	16.4
19.7	66.3	67.9	59.9	59.9	52.2	52.2	38.5	38.5	-	-	-	-	-	-	19.7
23.0	54.4	62.8	50.7	55.7	48.9	49.3	41.0	41.0	33.2	33.2	-	-	-	-	23.0
26.2	45.8	58.4	44.7	51.8	42.5	46.5	38.3	39.4	33.2	33.2	26.8	26.8	-	-	26.2
29.5	41.0	51.8	39.0	48.5	36.8	43.6	34.1	38.1	31.5	32.1	26.8	26.8	-	-	29.5
32.8	35.2	45.6	33.7	42.3	33.5	41.2	31.3	37.2	29.3	31.3	26.8	26.8	22.0	22.0	32.8
36.1	30.8	39.6	30.8	39.2	29.3	36.5	27.3	35.0	25.7	30.2	23.5	26.8	22.0	22.0	36.1
39.4	27.1	35.7	27.1	35.9	26.0	33.2	24.2	31.0	22.7	30.2	20.7	26.0	20.0	22.0	39.4
45.9	21.3	30.2	21.6	28.8	20.7	27.9	19.1	26.6	17.8	25.1	16.0	22.9	15.6	22.0	45.9
52.5	17.1	24.9	17.6	24.2	16.7	23.8	15.4	22.0	14.1	20.5	12.7	18.7	12.1	18.0	52.5
59.1	13.8	20.5	14.3	20.9	13.6	19.8	12.3	18.2	11.2	16.9	9.9	15.4	9.4	14.7	59.1
65.6	11.0	17.1	11.9	17.8	11.2	16.7	10.1	15.4	9.0	14.3	7.7	12.7	7.4	12.1	65.6
72.2	8.8	14.5	9.7	15.2	9.2	14.3	8.1	13.0	7.2	11.9	5.9	10.5	5.7	10.1	72.2
78.7	6.8	12.3	7.7	13.0	7.4	12.3	6.6	11.0	5.7	9.9	4.4	8.5	4.1	8.3	78.7
85.3	5.5	10.3	6.1	11.2	5.9	10.5	5.2	9.4	4.4	8.3	3.3	7.0	3.0	6.8	85.3
91.9	4.1	8.5	4.8	9.4	4.8	9.0	3.9	7.9	3.3	7.0	2.2	5.7	1.9	5.5	91.9
98.4	3.0	7.0	3.9	7.9	3.7	7.7	2.8	6.6	2.2	5.7	1.1	4.6	1.1	4.4	98.4
105.0	2.2	5.9	3.0	6.6	2.6	6.3	1.9	5.7	1.3	4.8	-	3.5	-	3.3	105.0
111.5	1.5	5.0	2.2	5.5	1.9	5.2	1.3	4.6	-	3.7	-	2.6	-	2.4	111.5
118.1	-	-	1.5	4.6	1.3	4.4	-	3.7	-	3.0	-	1.7	-	1.5	118.1
124.7	-	-	-	3.9	-	3.5	-	2.8	-	2.2	-	1.1	-	0.8	124.7
131.2	-	-	-	-	-	2.8	-	2.2	-	1.5	-	-	-	-	131.2
137.8	-	-	-	-	-	2.2	-	1.5	-	0.8	-	-	-	-	137.8
144.4	-	-	-	-	-	-	-	0.8	-	-	-	-	-	-	144.4

* Max. values are valid only for specific superstructure positions

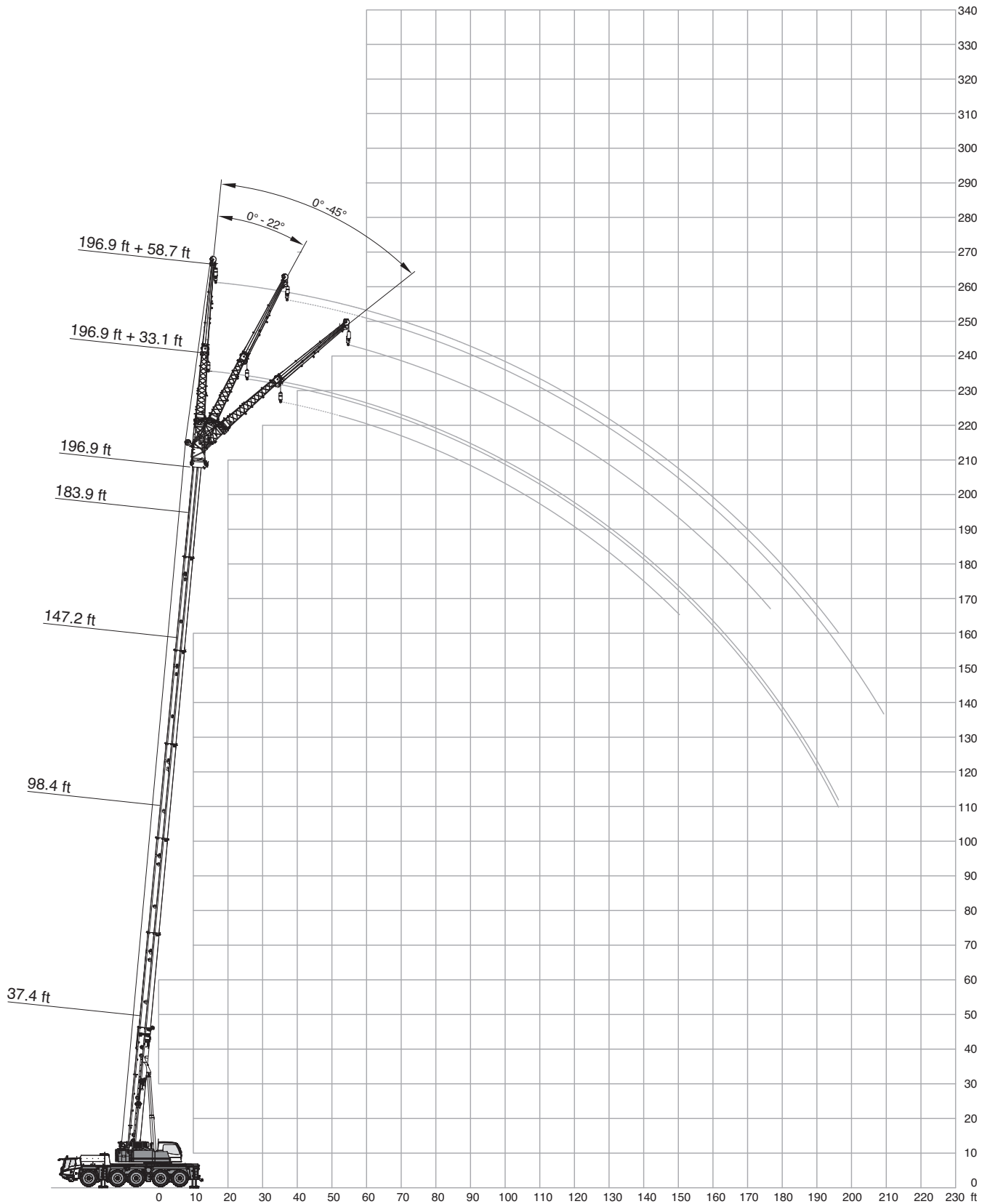
Operation

HA

0 lbs		24.6 ft x 26.3 ft										360° / Max.*				ASME B30.5	
		360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.		
ft	ft	37.4ft	37.4ft	49.6ft	49.6ft	61.8ft	61.8ft	74.0ft	74.0ft	86.2ft	86.2ft	98.4ft	98.4ft	110.6ft	110.6ft	ft	
1,000 lbs																	
8.2	241.1	247.7	176.3	176.3	176.3	176.3	176.3	176.3	176.3	154.3	154.3	126.9	126.9	-	-	8.2	
9.8	205.4	206.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	154.3	154.3	126.9	126.9	97.2	97.2	9.8	
11.5	176.1	176.3	175.4	175.4	174.1	174.1	174.1	172.1	172.1	154.3	154.3	126.9	126.9	95.0	95.0	11.5	
13.1	151.0	151.0	151.2	152.3	152.5	152.5	147.7	152.1	129.8	150.7	120.3	126.1	91.2	91.2	13.1		
14.8	131.6	131.6	131.8	132.7	133.1	133.1	121.9	132.7	113.7	131.3	101.4	123.6	87.5	87.5	14.8		
16.4	116.4	116.4	116.6	117.5	114.1	117.9	107.1	117.2	96.1	118.3	85.5	117.5	81.3	83.7	16.4		
19.7	93.6	93.6	87.3	94.7	84.8	96.5	78.0	96.5	73.4	96.1	69.0	92.3	63.9	78.9	19.7		
23.0	71.8	77.8	68.1	78.9	64.8	80.6	63.0	80.6	59.0	80.0	54.6	72.9	52.2	69.8	23.0		
26.2	54.0	66.1	53.5	67.9	52.0	68.7	51.1	68.7	48.2	65.6	44.7	63.4	44.0	59.0	26.2		
29.5	41.0	55.5	44.7	57.9	44.0	59.3	42.5	59.3	40.1	58.2	38.8	53.1	37.0	50.2	29.5		
32.8	-	-	35.9	47.6	37.0	48.9	35.9	50.0	34.1	49.6	33.7	45.8	31.7	43.4	32.8		
36.1	-	-	29.3	40.7	31.5	41.4	30.8	43.2	29.3	42.7	29.1	39.6	28.8	38.1	36.1		
39.4	-	-	24.4	34.8	26.4	36.5	26.6	37.2	25.3	36.8	25.3	34.8	25.5	34.1	39.4		
45.9	-	-	-	-	19.1	27.9	20.9	28.4	19.8	28.2	19.6	28.2	20.0	27.9	45.9		
52.5	-	-	-	-	14.3	22.2	15.8	22.7	16.3	23.5	15.4	23.1	16.0	22.9	52.5		
59.1	-	-	-	-	-	-	12.5	18.7	12.7	19.8	11.9	19.1	13.0	19.6	59.1		
65.6	-	-	-	-	-	-	9.9	16.5	10.1	16.5	9.2	16.0	10.3	16.9	65.6		
72.2	-	-	-	-	-	-	-	-	7.9	13.8	7.2	13.2	8.1	14.3	72.2		
78.7	-	-	-	-	-	-	-	-	-	-	5.7	11.0	6.6	11.9	78.7		
85.3	-	-	-	-	-	-	-	-	-	-	4.4	9.2	5.0	10.1	85.3		
91.9	-	-	-	-	-	-	-	-	-	-	-	-	3.9	8.5	91.9		
98.4	-	-	-	-	-	-	-	-	-	-	-	-	3.0	7.2	98.4		

		360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	360°	Max.	
ft	ft	122.8ft	122.8ft	135.0ft	135.0ft	147.2ft	147.2ft	159.4ft	159.4ft	171.7ft	171.7ft	183.9ft	183.9ft	196.9ft	196.9ft	ft
1,000 lbs																
11.5	75.8	75.8	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	79.1	79.1	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	76.2	76.2	65.9	65.9	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	73.6	73.6	64.5	64.5	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	58.6	67.9	54.6	59.9	51.8	52.2	38.5	38.5	-	-	-	-	-	-	-	19.7
23.0	49.1	62.8	47.3	55.7	43.8	49.3	38.5	41.0	33.2	33.2	-	-	-	-	23.0	
26.2	41.8	53.3	39.4	50.2	37.4	46.5	34.1	39.4	31.5	33.2	26.8	26.8	-	-	26.2	
29.5	35.2	46.0	35.0	43.6	33.2	42.1	30.8	38.1	28.8	32.1	26.4	26.8	-	-	29.5	
32.8	30.2	40.1	30.2	39.9	28.6	37.2	26.6	35.2	24.9	31.3	22.7	26.8	21.8	22.0	32.8	
36.1	26.2	37.2	26.2	35.4	24.9	33.2	23.1	31.9	21.6	30.2	19.6	26.8	18.7	22.0	36.1	
39.4	22.9	33.2	23.1	31.7	22.0	31.0	20.2	29.5	18.7	27.7	16.9	25.7	16.3	22.0	39.4	
45.9	17.8	26.8	18.0	26.6	17.1	25.5	15.8	24.0	14.5	22.4	13.0	20.0	12.3	19.8	45.9	
52.5	14.1	22.0	14.5	22.2	13.6	21.1	12.3	19.8	11.2	18.5	9.9	16.7	9.4	15.6	52.5	
59.1	11.2	18.5	11.6	18.7	11.0	17.8	9.7	16.5	8.8	15.2	7.4	13.0	7.0	12.5	59.1	
65.6	8.8	15.4	9.4	15.8	8.8	14.9	7.7	13.2	6.8	12.7	5.5	11.2	5.0	10.3	65.6	
72.2	6.6	12.7	7.4	13.4	7.0	12.7	5.9	11.6	5.0	10.5	3.7	8.5	3.5	8.3	72.2	
78.7	5.0	10.5	5.9	11.2	5.5	11.0	4.4	9.7	3.5	8.8	2.4	7.4	2.2	6.3	78.7	
85.3	3.7	8.5	4.6	9.4	4.1	9.2	3.3	8.1	2.4	6.6	1.3	5.7	1.1	5.5	85.3	
91.9	2.6	7.0	3.3	7.9	3.0	7.7	2.2	6.8	1.3	5.5	-	4.8	-	4.6	91.9	
98.4	1.5	5.9	2.4	6.6	2.2	6.3	1.3	5.0	-	4.8	-	3.7	-	3.5	98.4	
105.0	-	4.8	1.5	5.5	1.3	5.2	-	4.6	-	3.9	-	2.8	-	2.6	105.0	
111.5	-	3.9	-	4.6	-	4.4	-	3.5	-	3.0	-	1.9	-	1.7	111.5	
118.1	-	-	-	3.7	-	3.5	-	2.8	-	2.2	-	1.3	-	1.1	118.1	
124.7	-	-	-	3.0	-	2.6	-	1.9	-	1.5	-	-	-	-	124.7	
131.2	-	-	-	-	-	1.9	-	1.3	-	0.8	-	-	-	-	131.2	
137.8	-	-	-	-	-	1.5	-	0.8	-	-	-	-	-	-	137.8	

* Max. values are valid only for specific superstructure positions



Operation

78,200 lbs			24.6 ft x 26.3 ft			33.1 ft			360°			ASME B30.5			
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft				
0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	
1,000 lbs															
ft														ft	
11.5	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	-	32.8	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	-	30.2	20.9	-	32.1	-	-	-	-	-	-	-	-	-	23.0
26.2	33.0	27.7	20.0	-	30.6	-	-	-	-	-	-	-	-	-	26.2
29.5	31.7	25.7	19.1	-	29.5	20.5	-	-	-	-	-	-	-	-	29.5
32.8	28.4	24.2	18.2	-	28.2	20.0	-	-	-	-	-	-	-	-	32.8
36.1	25.7	22.7	17.6	-	28.2	19.6	-	15.4	-	-	-	-	-	-	36.1
39.4	23.5	21.3	16.9	-	27.1	19.1	-	15.4	-	-	-	-	-	-	39.4
45.9	20.0	19.4	16.0	-	25.3	18.2	15.4	15.4	15.4	-	12.5	-	-	-	45.9
52.5	17.4	17.8	15.6	31.5	23.8	17.4	15.4	15.4	15.4	-	12.5	-	-	11.2	52.5
59.1	15.2	16.7	-	29.1	22.4	16.7	15.4	15.4	15.4	12.5	12.5	12.5	11.2	11.2	59.1
65.6	-	-	-	26.6	21.1	16.3	15.4	15.4	15.2	12.5	12.5	12.5	11.2	11.2	65.6
72.2	-	-	-	24.2	20.2	15.8	15.4	15.4	14.5	12.5	12.5	12.5	11.2	10.8	72.2
78.7	-	-	-	22.0	19.1	15.4	15.4	15.4	13.8	12.5	12.5	11.9	11.0	10.1	78.7
85.3	-	-	-	20.2	18.2	14.9	14.5	14.5	13.4	11.9	11.9	11.2	10.3	9.7	85.3
91.9	-	-	-	18.5	17.4	14.7	14.1	14.1	13.0	11.2	11.2	10.8	9.7	9.2	91.9
98.4	-	-	-	16.3	16.7	-	14.1	13.8	12.5	10.5	10.5	10.1	9.2	8.8	98.4
105.0	-	-	-	14.3	14.9	-	13.0	13.0	12.1	9.9	9.9	9.7	8.8	8.3	105.0
111.5	-	-	-	12.7	13.2	-	12.3	12.1	11.6	9.2	9.4	9.2	8.3	7.9	111.5
118.1	-	-	-	11.4	-	-	11.0	11.4	11.2	8.5	8.8	8.8	7.9	7.7	118.1
124.7	-	-	-	-	-	-	9.7	10.3	10.8	8.1	8.3	8.3	7.4	7.2	124.7
131.2	-	-	-	-	-	-	8.8	9.0	-	7.4	7.7	7.9	7.0	6.8	131.2
137.8	-	-	-	-	-	-	8.3	8.3	-	7.0	7.2	7.4	6.6	6.6	137.8
144.4	-	-	-	-	-	-	7.2	7.7	-	6.3	6.8	6.8	6.1	6.3	144.4
150.9	-	-	-	-	-	-	7.0	6.8	-	5.5	5.9	-	5.2	5.9	150.9
157.5	-	-	-	-	-	-	6.8	6.3	-	4.6	5.0	-	4.4	5.0	157.5
164.0	-	-	-	-	-	-	6.1	-	-	3.9	4.4	-	3.7	4.4	164.0
170.6	-	-	-	-	-	-	5.5	-	-	3.3	3.7	-	3.0	3.5	170.6
177.2	-	-	-	-	-	-	-	-	-	2.6	3.0	-	2.6	2.8	177.2
183.7	-	-	-	-	-	-	-	-	-	2.2	2.4	-	1.9	2.4	183.7
190.3	-	-	-	-	-	-	-	-	-	1.7	1.9	-	1.5	1.7	190.3
196.9	-	-	-	-	-	-	-	-	-	1.3	-	-	1.1	1.3	196.9

Operation

HAV

53,000 lbs			24.6 ft x 26.3 ft			33.1 ft			360°			ASME B30.5					
37.4 ft			98.4 ft			147.2 ft			183.9 ft			196.9 ft					
0°			22°			45°			0°			22°			45°		
ft	1,000 lbs															ft	
11.5	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	-	32.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	-	30.2	20.9	-	32.1	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	33.0	27.7	20.0	-	30.6	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	31.7	25.7	19.1	-	29.5	20.5	-	-	-	-	-	-	-	-	-	-	29.5
32.8	28.4	24.2	18.2	-	28.2	20.0	-	-	-	-	-	-	-	-	-	-	32.8
36.1	25.7	22.7	17.6	-	28.2	19.6	-	15.4	-	-	-	-	-	-	-	-	36.1
39.4	23.5	21.3	16.9	-	27.1	19.1	-	15.4	-	-	-	-	-	-	-	-	39.4
45.9	20.0	19.4	16.0	-	25.3	18.2	15.4	15.4	15.4	-	12.5	-	-	-	-	-	45.9
52.5	17.4	17.8	15.6	31.5	23.8	17.4	15.4	15.4	15.4	-	12.5	-	-	11.2	-	-	52.5
59.1	15.2	16.7	-	29.1	22.4	16.7	15.4	15.4	15.4	12.5	12.5	12.5	11.2	11.2	-	-	59.1
65.6	-	-	-	25.1	21.1	16.3	15.4	15.4	15.2	12.5	12.5	12.5	11.2	11.2	11.0	-	65.6
72.2	-	-	-	20.9	19.8	15.8	15.4	15.4	14.5	12.5	12.5	12.5	11.2	10.8	10.3	-	72.2
78.7	-	-	-	17.8	18.9	15.4	15.4	15.4	13.8	12.5	12.5	11.9	11.0	10.1	9.9	-	78.7
85.3	-	-	-	15.2	16.3	14.9	14.5	14.5	13.4	11.9	11.9	11.2	10.3	9.7	9.4	-	85.3
91.9	-	-	-	14.3	13.8	14.5	13.4	14.1	13.0	11.2	11.2	10.8	9.7	9.2	9.0	-	91.9
98.4	-	-	-	13.4	11.9	-	11.9	12.1	12.3	10.3	10.5	10.1	9.2	8.8	8.5	-	98.4
105.0	-	-	-	11.9	11.4	-	10.3	11.0	11.0	8.8	9.9	9.7	8.5	8.3	8.1	-	105.0
111.5	-	-	-	10.5	10.8	-	9.7	9.7	9.9	7.7	8.5	9.2	7.2	7.9	7.9	-	111.5
118.1	-	-	-	9.2	-	-	8.8	8.5	8.8	6.6	7.4	8.1	6.1	7.0	7.4	-	118.1
124.7	-	-	-	-	-	-	7.7	8.1	7.7	5.5	6.3	6.8	5.2	6.1	6.6	-	124.7
131.2	-	-	-	-	-	-	6.8	7.2	-	4.6	5.2	5.7	4.4	5.0	5.7	-	131.2
137.8	-	-	-	-	-	-	5.9	6.3	-	3.7	4.4	4.8	3.5	4.1	4.8	-	137.8
144.4	-	-	-	-	-	-	5.0	5.5	-	2.8	3.5	3.9	2.8	3.5	3.9	-	144.4
150.9	-	-	-	-	-	-	4.4	4.6	-	2.2	2.8	-	2.2	2.6	3.0	-	150.9
157.5	-	-	-	-	-	-	3.7	3.9	-	1.5	2.2	-	1.5	1.9	-	-	157.5
164.0	-	-	-	-	-	-	3.3	-	-	1.1	1.5	-	-	1.3	-	-	164.0
170.6	-	-	-	-	-	-	2.6	-	-	-	-	-	-	-	-	-	170.6

Operation

HAV

29,200 lbs			24.6 ft x 26.3 ft			33.1 ft			360°			ASME B30.5					
37.4 ft			98.4 ft			147.2 ft			183.9 ft			196.9 ft					
0°			22°			45°			0°			22°			45°		
ft	1,000 lbs															ft	
11.5	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	-	32.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	-	30.2	20.9	-	32.1	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	33.0	27.7	20.0	-	30.6	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	31.7	25.7	19.1	-	29.5	20.5	-	-	-	-	-	-	-	-	-	-	29.5
32.8	28.4	24.2	18.2	-	28.2	20.0	-	-	-	-	-	-	-	-	-	-	32.8
36.1	25.7	22.7	17.6	-	28.2	19.6	-	15.4	-	-	-	-	-	-	-	-	36.1
39.4	23.5	21.3	16.9	-	27.1	19.1	-	15.4	-	-	-	-	-	-	-	-	39.4
45.9	20.0	19.4	16.0	-	25.3	18.2	15.4	15.4	15.4	-	12.5	-	-	-	-	-	45.9
52.5	17.4	17.8	15.6	24.4	23.8	17.4	15.4	15.4	15.4	-	12.5	-	-	11.2	-	-	52.5
59.1	15.2	16.7	-	20.9	21.8	16.7	15.4	15.4	15.4	12.5	12.5	12.5	11.2	11.2	-	-	59.1
65.6	-	-	-	18.9	18.5	16.3	15.4	15.4	15.2	12.5	12.5	12.5	11.2	11.2	11.0	-	65.6
72.2	-	-	-	16.3	15.4	15.6	14.7	14.9	14.5	11.2	12.5	12.5	10.8	10.8	10.3	-	72.2
78.7	-	-	-	13.8	13.8	13.6	12.7	12.7	13.0	9.4	10.8	11.9	9.0	10.1	9.9	-	78.7
85.3	-	-	-	11.6	12.5	12.1	11.0	11.4	11.9	7.7	9.0	10.1	7.2	8.8	9.4	-	85.3
91.9	-	-	-	10.3	10.8	11.2	9.4	10.3	10.1	6.3	7.4	8.5	5.9	7.2	8.1	-	91.9
98.4	-	-	-	8.8	9.4	-	8.1	9.0	9.4	5.0	6.1	7.0	4.8	5.9	6.8	-	98.4
105.0	-	-	-	7.7	8.1	-	6.8	7.7	8.1	3.9	5.0	5.9	3.7	4.8	5.5	-	105.0
111.5	-	-	-	7.0	6.8	-	5.7	6.3	6.8	3.0	3.9	4.6	2.6	3.7	4.4	-	111.5
118.1	-	-	-	6.3	-	-	4.8	5.2	5.7	2.2	3.0	3.7	1.9	2.8	3.5	-	118.1
124.7	-	-	-	-	-	-	3.9	4.4	4.8	1.5	2.2	2.8	1.1	1.9	2.6	-	124.7
131.2	-	-	-	-	-	-	3.0	3.5	-	-	1.5	1.9	-	1.3	1.7	-	131.2
137.8	-	-	-	-	-	-	2.4	2.8	-	-	-	1.1	-	-	1.1	-	137.8
144.4	-	-	-	-	-	-	1.7	2.2	-	-	-	-	-	-	-	-	144.4
150.9	-	-	-	-	-	-	1.3	1.5	-	-	-	-	-	-	-	-	150.9
157.5	-	-	-	-	-	-	-	1.1	-	-	-	-	-	-	-	-	157.5

Operation

HAV

20,400 lbs			24.6 ft x 26.3 ft			33.1 ft			360°			ASME B30.5					
37.4 ft			98.4 ft			147.2 ft			183.9 ft			196.9 ft					
0°			22°			45°			0°			22°			45°		
ft	1,000 lbs															ft	
11.5	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	-	32.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	-	30.2	20.9	-	32.1	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	33.0	27.7	20.0	-	30.6	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	31.7	25.7	19.1	-	29.5	20.5	-	-	-	-	-	-	-	-	-	-	29.5
32.8	28.4	24.2	18.2	-	28.2	20.0	-	-	-	-	-	-	-	-	-	-	32.8
36.1	25.7	22.7	17.6	-	28.2	19.6	-	15.4	-	-	-	-	-	-	-	-	36.1
39.4	23.5	21.3	16.9	-	27.1	19.1	-	15.4	-	-	-	-	-	-	-	-	39.4
45.9	20.0	19.4	16.0	-	25.1	18.2	15.4	15.4	15.4	-	12.5	-	-	-	-	-	45.9
52.5	17.4	17.8	15.6	22.7	22.9	17.4	15.4	15.4	15.4	-	12.5	-	-	11.2	-	-	52.5
59.1	15.2	16.7	-	19.6	18.7	16.7	15.4	15.4	15.4	12.5	12.5	12.5	11.2	11.2	-	-	59.1
65.6	-	-	-	16.5	15.6	16.0	14.5	14.7	14.3	10.8	12.5	12.5	10.3	11.2	11.0	-	65.6
72.2	-	-	-	13.6	14.5	13.8	12.1	13.0	13.4	8.8	10.3	11.9	8.3	9.9	10.3	-	72.2
78.7	-	-	-	11.9	12.3	12.5	10.3	11.4	11.4	7.0	8.5	9.7	6.6	8.1	9.4	-	78.7
85.3	-	-	-	9.9	10.8	11.0	8.8	9.9	10.5	5.5	6.8	7.9	5.2	6.6	7.7	-	85.3
91.9	-	-	-	8.8	9.0	9.4	7.2	8.3	9.0	4.4	5.5	6.6	3.9	5.2	6.1	-	91.9
98.4	-	-	-	7.9	7.7	-	6.1	7.0	7.7	3.0	4.4	5.2	2.8	3.9	4.8	-	98.4
105.0	-	-	-	6.6	7.0	-	5.0	5.9	6.3	2.2	3.3	3.9	1.9	2.8	3.7	-	105.0
111.5	-	-	-	5.7	6.1	-	4.1	4.8	5.2	1.3	2.2	3.0	1.1	1.9	2.8	-	111.5
118.1	-	-	-	4.8	-	-	3.3	3.9	4.1	-	1.5	1.9	-	1.1	1.7	-	118.1
124.7	-	-	-	-	-	-	2.4	3.0	3.3	-	-	1.3	-	-	1.1	-	124.7
131.2	-	-	-	-	-	-	1.7	2.2	-	-	-	-	-	-	-	-	131.2
137.8	-	-	-	-	-	-	1.1	1.5	-	-	-	-	-	-	-	-	137.8
144.4	-	-	-	-	-	-	-	1.1	-	-	-	-	-	-	-	-	144.4

Operation

78,200 lbs			24.6 ft x 26.3 ft			58.7 ft			360°			ASME B30.5					
37.4 ft			98.4 ft			147.2 ft			183.9 ft			196.9 ft					
0°			22°			45°			0°			22°			45°		
1,000 lbs																	
ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft		
14.8	14.5	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8		
16.4	13.8	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4		
19.7	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7		
23.0	11.6	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0		
26.2	10.8	8.3	-	12.3	-	-	-	-	-	-	-	-	-	-	26.2		
29.5	10.1	7.7	-	11.9	-	-	-	-	-	-	-	-	-	-	29.5		
32.8	9.4	7.2	-	11.4	7.4	-	-	-	-	-	-	-	-	-	32.8		
36.1	8.8	7.0	-	11.0	7.4	-	8.5	-	-	-	-	-	-	-	36.1		
39.4	8.3	6.6	-	10.8	7.2	-	8.5	-	-	-	-	-	-	-	39.4		
45.9	7.2	5.9	5.2	9.9	6.8	-	8.5	-	-	7.7	-	-	7.2	-	45.9		
52.5	6.6	5.5	4.8	9.0	6.3	5.0	8.5	6.1	-	7.7	-	-	7.0	-	52.5		
59.1	5.9	5.2	4.6	8.3	5.9	4.8	8.3	5.9	-	7.4	-	-	7.0	-	59.1		
65.6	5.5	4.8	4.4	7.7	5.7	4.8	7.9	5.7	4.6	7.2	5.2	-	6.8	-	65.6		
72.2	5.0	4.6	4.4	7.2	5.5	4.6	7.4	5.5	4.4	6.8	5.0	-	6.6	5.0	72.2		
78.7	4.8	4.4	4.4	6.8	5.2	4.4	7.0	5.2	4.4	6.6	5.0	4.1	6.3	4.8	78.7		
85.3	4.6	4.4	-	6.3	5.0	4.4	6.8	5.0	4.1	6.3	4.8	4.1	6.1	4.8	85.3		
91.9	-	-	-	5.9	4.8	4.1	6.3	4.8	4.1	6.1	4.6	3.9	5.9	4.6	91.9		
98.4	-	-	-	5.7	4.6	4.1	6.1	4.6	4.1	5.9	4.6	3.9	5.7	4.4	98.4		
105.0	-	-	-	5.5	4.4	4.1	5.9	4.6	3.9	5.7	4.4	3.9	5.7	4.4	105.0		
111.5	-	-	-	5.2	4.4	4.1	5.7	4.4	3.9	5.5	4.4	3.7	5.5	4.1	111.5		
118.1	-	-	-	5.0	4.1	3.9	5.5	4.4	3.9	5.2	4.1	3.7	5.2	4.1	118.1		
124.7	-	-	-	4.8	4.1	-	5.2	4.1	3.7	5.0	4.1	3.7	5.0	3.9	124.7		
131.2	-	-	-	4.6	4.1	-	5.0	4.1	3.7	5.0	3.9	3.7	5.0	3.9	131.2		
137.8	-	-	-	4.4	3.9	-	4.8	3.9	3.7	4.8	3.9	3.5	4.8	3.9	137.8		
144.4	-	-	-	4.4	-	-	4.8	3.9	3.7	4.6	3.7	3.5	4.6	3.7	144.4		
150.9	-	-	-	-	-	-	4.6	3.9	3.7	4.6	3.7	3.5	4.6	3.7	150.9		
157.5	-	-	-	-	-	-	4.4	3.7	-	4.4	3.7	3.5	4.4	3.7	157.5		
164.0	-	-	-	-	-	-	4.4	3.7	-	4.4	3.7	3.5	4.4	3.5	164.0		
170.6	-	-	-	-	-	-	4.1	3.7	-	3.9	3.5	3.5	3.7	3.5	170.6		
177.2	-	-	-	-	-	-	4.1	3.7	-	3.3	3.5	-	3.0	3.5	177.2		
183.7	-	-	-	-	-	-	3.9	3.7	-	2.6	3.5	-	2.4	3.3	183.7		
190.3	-	-	-	-	-	-	3.9	-	-	2.2	2.8	-	1.9	2.6	190.3		
196.9	-	-	-	-	-	-	3.9	-	-	1.7	2.2	-	1.5	2.2	196.9		
210.0	-	-	-	-	-	-	-	-	-	-	1.3	-	-	1.1	210.0		

Operation

HAV

53,000 lbs		24.6 ft x 26.3 ft						58.7 ft			360°			ASME B30.5					
37.4 ft		98.4 ft						147.2 ft			183.9 ft			196.9 ft					
0°		22°		45°		0°		22°		45°	0°		22°	45°	0°		22°	45°	
ft	1,000 lbs																		ft
14.8	14.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	13.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	11.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	10.8	8.3	-	12.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	10.1	7.7	-	11.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.5
32.8	9.4	7.2	-	11.4	7.4	-	-	-	-	-	-	-	-	-	-	-	-	-	32.8
36.1	8.8	7.0	-	11.0	7.4	-	8.5	-	-	-	-	-	-	-	-	-	-	-	36.1
39.4	8.3	6.6	-	10.8	7.2	-	8.5	-	-	-	-	-	-	-	-	-	-	-	39.4
45.9	7.2	5.9	5.2	9.9	6.8	-	8.5	-	-	7.7	-	-	7.2	-	-	-	-	-	45.9
52.5	6.6	5.5	4.8	9.0	6.3	5.0	8.5	6.1	-	7.7	-	-	7.0	-	-	-	-	-	52.5
59.1	5.9	5.2	4.6	8.3	5.9	4.8	8.3	5.9	-	7.4	-	-	7.0	-	-	-	-	-	59.1
65.6	5.5	4.8	4.4	7.7	5.7	4.8	7.9	5.7	4.6	7.2	5.2	-	6.8	-	-	-	-	-	65.6
72.2	5.0	4.6	4.4	7.2	5.5	4.6	7.4	5.5	4.4	6.8	5.0	-	6.6	5.0	-	-	-	-	72.2
78.7	4.8	4.4	4.4	6.8	5.2	4.4	7.0	5.2	4.4	6.6	5.0	4.1	6.3	4.8	-	-	-	-	78.7
85.3	4.6	4.4	-	6.3	5.0	4.4	6.8	5.0	4.1	6.3	4.8	4.1	6.1	4.8	4.1	-	-	-	85.3
91.9	-	-	-	5.9	4.8	4.1	6.3	4.8	4.1	6.1	4.6	3.9	5.9	4.6	3.9	-	-	-	91.9
98.4	-	-	-	5.7	4.6	4.1	6.1	4.6	4.1	5.9	4.6	3.9	5.7	4.4	3.9	-	-	-	98.4
105.0	-	-	-	5.5	4.4	4.1	5.9	4.6	3.9	5.7	4.4	3.9	5.7	4.4	3.7	-	-	-	105.0
111.5	-	-	-	5.2	4.4	4.1	5.7	4.4	3.9	5.5	4.4	3.7	5.5	4.1	3.7	-	-	-	111.5
118.1	-	-	-	5.0	4.1	3.9	5.5	4.4	3.9	5.2	4.1	3.7	5.2	4.1	3.7	-	-	-	118.1
124.7	-	-	-	4.8	4.1	-	5.2	4.1	3.7	5.0	4.1	3.7	5.0	3.9	3.7	-	-	-	124.7
131.2	-	-	-	4.6	4.1	-	5.0	4.1	3.7	5.0	3.9	3.7	4.8	3.9	3.5	-	-	-	131.2
137.8	-	-	-	4.4	3.9	-	4.8	3.9	3.7	4.4	3.9	3.5	3.9	3.9	3.5	-	-	-	137.8
144.4	-	-	-	4.4	-	-	4.6	3.9	3.7	3.5	3.7	3.5	3.3	3.7	3.5	-	-	-	144.4
150.9	-	-	-	-	-	-	4.4	3.9	3.7	2.8	3.7	3.5	2.6	3.7	3.5	-	-	-	150.9
157.5	-	-	-	-	-	-	4.4	3.7	-	2.2	3.3	3.5	1.9	3.0	3.5	-	-	-	157.5
164.0	-	-	-	-	-	-	3.7	3.7	-	1.5	2.6	3.0	1.3	2.4	3.0	-	-	-	164.0
170.6	-	-	-	-	-	-	3.3	3.7	-	1.1	1.9	2.4	-	1.7	2.4	-	-	-	170.6
177.2	-	-	-	-	-	-	2.6	3.0	-	-	1.3	-	-	1.3	1.7	-	-	-	177.2
183.7	-	-	-	-	-	-	2.2	2.6	-	-	-	-	-	-	-	-	-	-	183.7
190.3	-	-	-	-	-	-	1.9	-	-	-	-	-	-	-	-	-	-	-	190.3
196.9	-	-	-	-	-	-	1.5	-	-	-	-	-	-	-	-	-	-	-	196.9

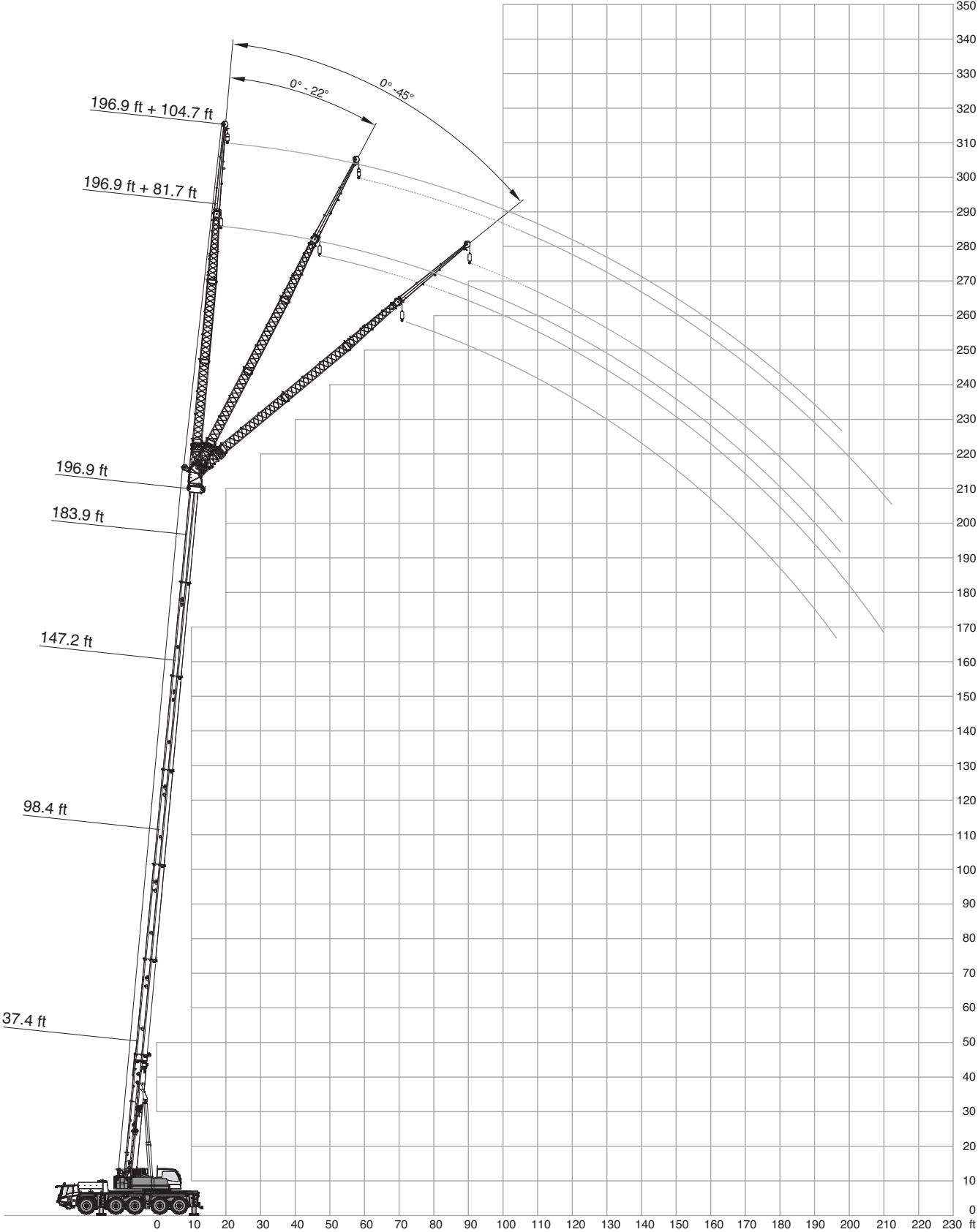
Operation

29,200 lbs			24.6 ft x 26.3 ft			58.7 ft			360°			ASME B30.5			
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft				
0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	
1,000 lbs															
ft														ft	
14.8	14.5	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	13.8	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	11.6	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	10.8	8.3	-	12.3	-	-	-	-	-	-	-	-	-	-	26.2
29.5	10.1	7.7	-	11.9	-	-	-	-	-	-	-	-	-	-	29.5
32.8	9.4	7.2	-	11.4	7.4	-	-	-	-	-	-	-	-	-	32.8
36.1	8.8	7.0	-	11.0	7.4	-	8.5	-	-	-	-	-	-	-	36.1
39.4	8.3	6.6	-	10.8	7.2	-	8.5	-	-	-	-	-	-	-	39.4
45.9	7.2	5.9	5.2	9.9	6.8	-	8.5	-	-	7.7	-	-	7.2	-	45.9
52.5	6.6	5.5	4.8	9.0	6.3	5.0	8.5	6.1	-	7.7	-	-	7.0	-	52.5
59.1	5.9	5.2	4.6	8.3	5.9	4.8	8.3	5.9	-	7.4	-	-	7.0	-	59.1
65.6	5.5	4.8	4.4	7.7	5.7	4.8	7.9	5.7	4.6	7.2	5.2	-	6.8	-	65.6
72.2	5.0	4.6	4.4	7.2	5.5	4.6	7.4	5.5	4.4	6.8	5.0	-	6.6	5.0	72.2
78.7	4.8	4.4	4.4	6.8	5.2	4.4	7.0	5.2	4.4	6.6	5.0	4.1	6.3	4.8	78.7
85.3	4.6	4.4	-	6.3	5.0	4.4	6.8	5.0	4.1	6.3	4.8	4.1	6.1	4.8	85.3
91.9	-	-	-	5.9	4.8	4.1	6.3	4.8	4.1	6.1	4.6	3.9	5.9	4.6	91.9
98.4	-	-	-	5.7	4.6	4.1	6.1	4.6	4.1	5.5	4.6	3.9	5.0	4.4	98.4
105.0	-	-	-	5.2	4.4	4.1	5.7	4.6	3.9	4.4	4.4	3.9	4.1	4.4	105.0
111.5	-	-	-	5.0	4.4	4.1	5.5	4.4	3.9	3.5	4.4	3.7	3.0	4.1	111.5
118.1	-	-	-	4.8	4.1	3.9	5.2	4.4	3.9	2.6	4.1	3.7	2.4	3.9	118.1
124.7	-	-	-	4.6	4.1	-	4.4	4.1	3.7	1.9	3.3	3.7	1.5	3.0	124.7
131.2	-	-	-	4.6	3.9	-	3.7	3.9	3.7	1.3	2.6	3.7	-	2.2	131.2
137.8	-	-	-	4.4	3.9	-	3.0	3.9	3.7	-	1.7	2.8	-	1.5	137.8
144.4	-	-	-	4.1	-	-	2.4	3.3	3.7	-	1.1	1.9	-	-	144.4
150.9	-	-	-	-	-	-	1.9	2.6	2.2	-	-	1.3	-	-	150.9
157.5	-	-	-	-	-	-	1.3	1.9	-	-	-	-	-	-	157.5
164.0	-	-	-	-	-	-	-	1.5	-	-	-	-	-	-	164.0
170.6	-	-	-	-	-	-	-	1.1	-	-	-	-	-	-	170.6

Operation

HAV

20,400 lbs			24.6 ft x 26.3 ft			58.7 ft			360°			ASME B30.5			
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft				
0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	
1,000 lbs															
ft														ft	
14.8	14.5	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	13.8	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	11.6	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	10.8	8.3	-	12.3	-	-	-	-	-	-	-	-	-	-	26.2
29.5	10.1	7.7	-	11.9	-	-	-	-	-	-	-	-	-	-	29.5
32.8	9.4	7.2	-	11.4	7.4	-	-	-	-	-	-	-	-	-	32.8
36.1	8.8	7.0	-	11.0	7.4	-	8.5	-	-	-	-	-	-	-	36.1
39.4	8.3	6.6	-	10.8	7.2	-	8.5	-	-	-	-	-	-	-	39.4
45.9	7.2	5.9	5.2	9.9	6.8	-	8.5	-	-	7.7	-	-	7.2	-	45.9
52.5	6.6	5.5	4.8	9.0	6.3	5.0	8.5	6.1	-	7.7	-	-	7.0	-	52.5
59.1	5.9	5.2	4.6	8.3	5.9	4.8	8.3	5.9	-	7.4	-	-	7.0	-	59.1
65.6	5.5	4.8	4.4	7.7	5.7	4.8	7.9	5.7	4.6	7.2	5.2	-	6.8	-	65.6
72.2	5.0	4.6	4.4	7.2	5.5	4.6	7.4	5.5	4.4	6.8	5.0	-	6.6	5.0	72.2
78.7	4.8	4.4	4.4	6.8	5.2	4.4	7.0	5.2	4.4	6.6	5.0	4.1	6.3	4.8	78.7
85.3	4.6	4.4	-	6.3	5.0	4.4	6.6	5.0	4.1	5.9	4.8	4.1	5.5	4.8	85.3
91.9	-	-	-	5.9	4.8	4.1	6.1	4.8	4.1	4.8	4.6	3.9	4.4	4.6	91.9
98.4	-	-	-	5.7	4.6	4.1	5.9	4.6	4.1	3.7	4.6	3.9	3.3	4.4	98.4
105.0	-	-	-	5.2	4.4	4.1	5.5	4.6	3.9	2.6	4.4	3.9	2.4	4.1	105.0
111.5	-	-	-	5.0	4.4	4.1	4.6	4.4	3.9	1.7	3.5	3.7	1.5	3.3	111.5
118.1	-	-	-	4.8	4.1	3.9	3.9	4.1	3.9	1.1	2.6	3.7	-	2.4	118.1
124.7	-	-	-	4.6	4.1	-	3.0	4.1	3.7	-	1.9	3.0	-	1.5	124.7
131.2	-	-	-	4.4	3.9	-	2.4	3.3	3.7	-	1.1	2.2	-	-	131.2
137.8	-	-	-	3.7	3.9	-	1.7	2.6	3.3	-	-	1.5	-	-	137.8
144.4	-	-	-	3.0	-	-	1.3	1.9	2.6	-	-	-	-	-	144.4
150.9	-	-	-	-	-	-	-	1.5	1.1	-	-	-	-	-	150.9



Operation

HAV-VA

78,200 lbs		24.6 ft x 26.3 ft						81.7 ft						360°			ASME B30.5						
37.4 ft		98.4 ft						147.2 ft						183.9 ft			196.9 ft						
0°		22°		45°		0°		22°		45°		0°		22°		45°		0°		22°		45°	
ft	1,000 lbs																						ft
19.7	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	10.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	10.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.5
32.8	9.9	-	-	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.8
36.1	9.4	7.9	-	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.1
39.4	9.0	7.4	-	9.4	-	-	6.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.4
45.9	8.1	6.8	-	9.2	-	-	6.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45.9
52.5	7.4	6.3	-	8.8	6.6	-	6.8	-	-	5.2	-	-	-	-	-	-	-	-	-	-	-	-	52.5
59.1	6.8	5.9	-	8.1	6.1	-	6.8	-	-	5.2	-	-	4.8	-	-	-	-	-	-	-	-	-	59.1
65.6	6.3	5.5	5.0	7.7	5.9	-	6.8	5.7	-	5.2	-	-	4.8	-	-	4.8	-	-	-	-	-	-	65.6
72.2	5.9	5.2	4.8	7.2	5.7	4.8	6.8	5.5	-	5.2	-	-	4.8	-	-	4.8	-	-	-	-	-	-	72.2
78.7	5.7	5.0	4.6	7.0	5.5	4.8	6.6	5.2	-	5.2	-	-	4.8	-	-	4.8	-	-	-	-	-	-	78.7
85.3	5.0	4.8	4.4	6.6	5.2	4.6	6.3	5.0	-	5.2	4.8	-	4.8	4.6	-	4.8	4.6	-	-	-	-	-	85.3
91.9	4.6	4.6	4.4	6.3	5.0	4.4	6.1	4.8	4.4	5.2	4.6	-	4.8	4.6	-	4.8	4.6	-	-	-	-	-	91.9
98.4	4.1	4.4	4.4	5.9	4.8	4.4	5.9	4.8	4.1	5.2	4.4	-	4.8	4.4	-	4.8	4.4	-	-	-	-	-	98.4
105.0	3.9	4.4	-	5.7	4.8	4.4	5.7	4.6	4.1	5.2	4.4	3.9	4.8	4.4	-	4.8	4.4	-	-	-	-	-	105.0
111.5	-	-	-	5.5	4.6	4.1	5.7	4.6	4.1	5.2	4.1	3.9	4.8	4.1	3.7	4.8	4.1	3.7	-	-	-	-	111.5
118.1	-	-	-	5.2	4.4	4.1	5.5	4.4	3.9	5.0	4.1	3.7	4.8	4.1	3.7	4.8	4.1	3.7	-	-	-	-	118.1
124.7	-	-	-	5.0	4.4	4.1	5.2	4.4	3.9	5.0	4.1	3.7	4.8	3.9	3.7	4.8	3.9	3.7	-	-	-	-	124.7
131.2	-	-	-	4.8	4.1	3.9	5.0	4.1	3.9	4.8	3.9	3.7	4.6	3.9	3.7	4.6	3.9	3.7	-	-	-	-	131.2
137.8	-	-	-	4.6	4.1	3.9	5.0	4.1	3.7	4.6	3.9	3.7	4.6	3.9	3.7	4.6	3.9	3.5	-	-	-	-	137.8
144.4	-	-	-	4.4	4.1	-	4.8	3.9	3.7	4.6	3.7	3.5	4.6	3.7	3.5	4.6	3.7	3.5	-	-	-	-	144.4
150.9	-	-	-	4.1	3.9	-	4.6	3.9	3.7	4.4	3.7	3.5	4.4	3.7	3.5	4.4	3.7	3.5	-	-	-	-	150.9
157.5	-	-	-	3.9	3.9	-	4.6	3.9	3.7	4.4	3.7	3.5	4.1	3.7	3.5	4.1	3.7	3.5	-	-	-	-	157.5
164.0	-	-	-	3.7	3.9	-	4.4	3.7	3.7	4.4	3.7	3.5	3.9	3.5	3.3	3.9	3.5	3.3	-	-	-	-	164.0
170.6	-	-	-	3.5	-	-	4.4	3.7	3.7	3.9	3.5	3.5	3.7	3.5	3.3	3.7	3.5	3.3	-	-	-	-	170.6
177.2	-	-	-	-	-	-	4.1	3.7	-	3.5	3.5	3.3	3.0	3.5	3.3	3.0	3.5	3.3	-	-	-	-	177.2
183.7	-	-	-	-	-	-	4.1	3.7	-	2.8	3.5	3.3	2.6	3.3	3.3	2.6	3.3	3.3	-	-	-	-	183.7
190.3	-	-	-	-	-	-	3.5	3.5	-	2.4	3.3	3.3	2.2	3.0	3.0	2.2	3.0	3.0	-	-	-	-	190.3
196.9	-	-	-	-	-	-	3.0	3.5	-	1.7	2.8	-	1.5	2.6	2.8	1.5	2.6	2.8	-	-	-	-	196.9
210.0	-	-	-	-	-	-	2.4	-	-	1.1	1.7	-	-	1.5	-	-	-	-	-	-	-	-	210.0

Operation

HAV-VA

53,000 lbs			24.6 ft x 26.3 ft			81.7 ft			360°			ASME B30.5			
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft				
0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	
1,000 lbs															
ft														ft	
19.7	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	10.8	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	10.3	-	-	-	-	-	-	-	-	-	-	-	-	-	29.5
32.8	9.9	-	-	9.4	-	-	-	-	-	-	-	-	-	-	32.8
36.1	9.4	7.9	-	9.4	-	-	-	-	-	-	-	-	-	-	36.1
39.4	9.0	7.4	-	9.4	-	-	6.6	-	-	-	-	-	-	-	39.4
45.9	8.1	6.8	-	9.2	-	-	6.8	-	-	-	-	-	-	-	45.9
52.5	7.4	6.3	-	8.8	6.6	-	6.8	-	-	5.2	-	-	-	-	52.5
59.1	6.8	5.9	-	8.1	6.1	-	6.8	-	-	5.2	-	-	4.8	-	59.1
65.6	6.3	5.5	5.0	7.7	5.9	-	6.8	5.7	-	5.2	-	-	4.8	-	65.6
72.2	5.9	5.2	4.8	7.2	5.7	4.8	6.8	5.5	-	5.2	-	-	4.8	-	72.2
78.7	5.7	5.0	4.6	7.0	5.5	4.8	6.6	5.2	-	5.2	-	-	4.8	-	78.7
85.3	5.0	4.8	4.4	6.6	5.2	4.6	6.3	5.0	-	5.2	4.8	-	4.8	4.6	85.3
91.9	4.6	4.6	4.4	6.3	5.0	4.4	6.1	4.8	4.4	5.2	4.6	-	4.8	4.6	91.9
98.4	4.1	4.4	4.4	5.9	4.8	4.4	5.9	4.8	4.1	5.2	4.4	-	4.8	4.4	98.4
105.0	3.9	4.4	-	5.7	4.8	4.4	5.7	4.6	4.1	5.2	4.4	3.9	4.8	4.4	105.0
111.5	-	-	-	5.5	4.6	4.1	5.7	4.6	4.1	5.2	4.1	3.9	4.8	4.1	111.5
118.1	-	-	-	5.2	4.4	4.1	5.5	4.4	3.9	5.0	4.1	3.7	4.8	4.1	118.1
124.7	-	-	-	5.0	4.4	4.1	5.2	4.4	3.9	5.0	4.1	3.7	4.8	3.9	124.7
131.2	-	-	-	4.8	4.1	3.9	5.0	4.1	3.9	4.8	3.9	3.7	4.6	3.9	131.2
137.8	-	-	-	4.6	4.1	3.9	4.8	4.1	3.7	4.4	3.9	3.7	3.9	3.9	137.8
144.4	-	-	-	4.4	4.1	-	4.6	3.9	3.7	3.5	3.7	3.5	3.3	3.7	144.4
150.9	-	-	-	4.1	3.9	-	4.4	3.9	3.7	2.8	3.7	3.5	2.6	3.7	150.9
157.5	-	-	-	3.9	3.9	-	4.1	3.9	3.7	2.4	3.7	3.5	1.9	3.5	157.5
164.0	-	-	-	3.7	3.9	-	3.9	3.7	3.7	1.7	3.0	3.5	1.5	2.8	164.0
170.6	-	-	-	3.5	-	-	3.3	3.5	3.5	1.3	2.4	3.3	-	2.2	170.6
177.2	-	-	-	-	-	-	2.8	3.3	-	-	1.9	2.6	-	1.7	177.2
183.7	-	-	-	-	-	-	2.4	3.0	-	-	1.3	1.9	-	1.1	183.7
190.3	-	-	-	-	-	-	1.9	2.4	-	-	-	1.5	-	-	190.3
196.9	-	-	-	-	-	-	1.5	1.9	-	-	-	-	-	-	196.9

Operation

HAV-VA

78,200 lbs		24.6 ft x 26.3 ft			104.7 ft			360°			ASME B30.5						
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft						
0°		22°		45°		0°		22°		45°		0°		22°		45°	
ft	1,000 lbs																ft
26.2	8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.5
32.8	8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.8
36.1	8.8	-	-	6.8	-	-	-	-	-	-	-	-	-	-	-	-	36.1
39.4	8.5	-	-	6.8	-	-	-	-	-	-	-	-	-	-	-	-	39.4
45.9	7.9	-	-	6.8	-	-	5.0	-	-	-	-	-	-	-	-	-	45.9
52.5	7.4	6.6	-	6.8	-	-	5.0	-	-	-	-	-	-	-	-	-	52.5
59.1	7.0	6.3	-	6.8	-	-	5.0	-	-	3.9	-	-	-	-	-	-	59.1
65.6	6.1	5.9	-	6.8	5.9	-	5.0	-	-	3.9	-	-	3.5	-	-	-	65.6
72.2	5.2	5.2	-	6.8	5.7	-	5.0	-	-	3.9	-	-	3.5	-	-	-	72.2
78.7	4.6	4.8	-	6.6	5.5	-	5.0	5.0	-	3.9	-	-	3.5	-	-	-	78.7
85.3	4.1	4.4	3.5	6.3	5.2	-	5.0	4.8	-	3.9	-	-	3.5	-	-	-	85.3
91.9	3.7	3.9	3.0	5.9	5.0	3.3	5.0	4.6	-	3.9	-	-	3.5	-	-	-	91.9
98.4	3.3	3.7	2.8	5.5	4.6	3.0	5.0	4.6	-	3.9	3.9	-	3.5	-	-	-	98.4
105.0	3.0	3.3	2.6	5.0	4.4	3.0	5.0	4.4	-	3.9	3.9	-	3.5	3.5	-	-	105.0
111.5	2.6	3.0	2.6	4.6	4.1	2.8	5.0	4.1	2.8	3.9	3.9	-	3.5	3.5	-	-	111.5
118.1	2.4	2.8	2.4	4.1	3.7	2.6	5.0	4.1	2.8	3.9	3.7	-	3.5	3.5	-	-	118.1
124.7	2.2	2.6	2.4	3.9	3.5	2.6	4.8	3.9	2.6	3.9	3.7	-	3.5	3.5	-	-	124.7
131.2	1.9	2.6	-	3.5	3.5	2.4	4.6	3.7	2.6	3.9	3.5	2.4	3.5	3.5	-	-	131.2
137.8	-	-	-	3.3	3.3	2.4	4.1	3.5	2.4	3.9	3.5	2.4	3.5	3.5	2.4	-	137.8
144.4	-	-	-	3.0	3.0	2.4	3.9	3.3	2.4	3.9	3.3	2.4	3.5	3.3	2.4	-	144.4
150.9	-	-	-	2.8	2.8	2.2	3.7	3.3	2.2	3.9	3.3	2.2	3.5	3.3	2.2	-	150.9
157.5	-	-	-	2.6	2.8	2.2	3.5	3.0	2.2	3.9	3.0	2.2	3.3	3.0	2.2	-	157.5
164.0	-	-	-	2.4	2.6	2.2	3.3	2.8	2.2	3.7	3.0	2.2	3.3	3.0	2.2	-	164.0
170.6	-	-	-	2.4	2.6	-	3.0	2.8	1.9	3.3	2.8	1.9	3.0	2.8	1.9	-	170.6
177.2	-	-	-	2.2	2.4	-	2.8	2.6	1.9	3.0	2.6	1.9	2.8	2.6	1.9	-	177.2
183.7	-	-	-	1.9	2.4	-	2.8	2.6	1.9	2.8	2.4	1.9	2.6	2.4	1.9	-	183.7
190.3	-	-	-	1.9	-	-	2.6	2.6	1.9	2.4	2.4	1.9	1.9	2.2	1.7	-	190.3
196.9	-	-	-	-	-	-	2.4	2.4	-	1.9	2.2	1.7	1.5	1.9	1.7	-	196.9
210.0	-	-	-	-	-	-	2.2	2.2	-	1.1	1.7	1.7	-	1.7	1.5	-	210.0
223.1	-	-	-	-	-	-	1.5	1.7	-	-	1.1	-	-	1.1	1.3	-	223.1

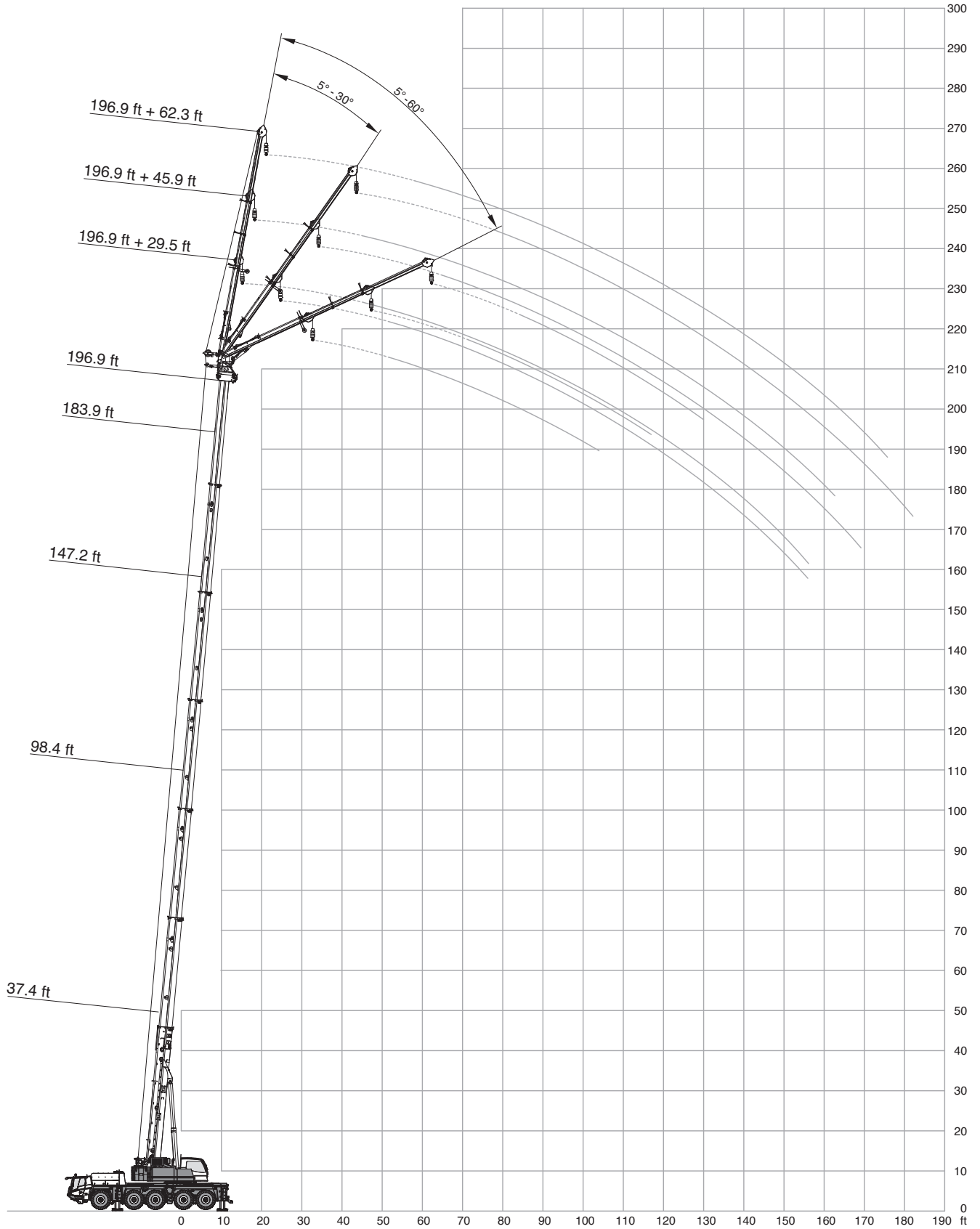
Operation

HAV-VA

53,000 lbs			24.6 ft x 26.3 ft			104.7 ft			360°			ASME B30.5			
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft				
0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	
1,000 lbs															
ft														ft	
26.2	8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	29.5
32.8	8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	32.8
36.1	8.8	-	-	6.8	-	-	-	-	-	-	-	-	-	-	36.1
39.4	8.5	-	-	6.8	-	-	-	-	-	-	-	-	-	-	39.4
45.9	7.9	-	-	6.8	-	-	5.0	-	-	-	-	-	-	-	45.9
52.5	7.4	6.6	-	6.8	-	-	5.0	-	-	-	-	-	-	-	52.5
59.1	7.0	6.3	-	6.8	-	-	5.0	-	-	3.9	-	-	-	-	59.1
65.6	6.1	5.9	-	6.8	5.9	-	5.0	-	-	3.9	-	-	3.5	-	65.6
72.2	5.2	5.2	-	6.8	5.7	-	5.0	-	-	3.9	-	-	3.5	-	72.2
78.7	4.6	4.8	-	6.6	5.5	-	5.0	5.0	-	3.9	-	-	3.5	-	78.7
85.3	4.1	4.4	3.5	6.3	5.2	-	5.0	4.8	-	3.9	-	-	3.5	-	85.3
91.9	3.7	3.9	3.0	5.9	5.0	3.3	5.0	4.6	-	3.9	-	-	3.5	-	91.9
98.4	3.3	3.7	2.8	5.5	4.6	3.0	5.0	4.6	-	3.9	3.9	-	3.5	-	98.4
105.0	3.0	3.3	2.6	5.0	4.4	3.0	5.0	4.4	-	3.9	3.9	-	3.5	3.5	105.0
111.5	2.6	3.0	2.6	4.6	4.1	2.8	5.0	4.1	2.8	3.9	3.9	-	3.5	3.5	111.5
118.1	2.4	2.8	2.4	4.1	3.7	2.6	5.0	4.1	2.8	3.9	3.7	-	3.5	3.5	118.1
124.7	2.2	2.6	2.4	3.9	3.5	2.6	4.8	3.9	2.6	3.9	3.7	-	3.5	3.5	124.7
131.2	1.9	2.6	-	3.5	3.5	2.4	4.6	3.7	2.6	3.9	3.5	2.4	3.5	3.5	131.2
137.8	-	-	-	3.3	3.3	2.4	4.1	3.5	2.4	3.9	3.5	2.4	3.5	3.5	137.8
144.4	-	-	-	3.0	3.0	2.4	3.9	3.3	2.4	3.5	3.3	2.4	3.0	3.3	144.4
150.9	-	-	-	2.8	2.8	2.2	3.7	3.3	2.2	2.8	3.3	2.2	2.4	3.3	150.9
157.5	-	-	-	2.6	2.8	2.2	3.5	3.0	2.2	2.2	3.0	2.2	1.7	3.0	157.5
164.0	-	-	-	2.4	2.6	2.2	3.0	2.8	2.2	1.7	3.0	2.2	1.3	3.0	164.0
170.6	-	-	-	2.2	2.6	-	2.6	2.8	1.9	1.1	2.8	1.9	-	2.4	170.6
177.2	-	-	-	2.2	2.4	-	2.4	2.6	1.9	-	2.2	1.9	-	1.9	177.2
183.7	-	-	-	1.9	2.4	-	2.2	2.6	1.9	-	1.7	1.9	-	1.3	183.7
190.3	-	-	-	1.9	-	-	1.9	2.2	1.9	-	1.1	1.9	-	-	190.3
196.9	-	-	-	-	-	-	1.5	1.7	-	-	-	1.7	-	-	196.9
210.0	-	-	-	-	-	-	-	1.3	-	-	-	-	-	-	210.0

Operation

HTLJ



Operation

HTLJ

78,200 lbs		24.6 ft x 26.3 ft			29.5 ft			360°			ASME B30.5						
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft						
5°		30°			60°			5°			30°			60°			
ft	1,000 lbs															ft	
9.8	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8
11.5	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	16.0	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	11.4	16.0	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	16.0	16.0	11.0	16.0	16.0	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	16.0	16.0	10.8	16.0	16.0	-	16.0	-	-	-	-	-	-	-	-	-	26.2
29.5	16.0	15.8	10.5	16.0	16.0	11.0	16.0	-	-	-	-	-	-	-	-	-	29.5
32.8	16.0	15.2	10.3	16.0	16.0	11.0	16.0	16.0	-	-	-	-	-	-	-	-	32.8
36.1	16.0	14.5	10.3	16.0	16.0	10.8	16.0	15.6	-	9.4	-	-	-	-	-	-	36.1
39.4	16.0	13.8	-	16.0	16.0	10.8	16.0	15.2	11.0	9.4	-	-	8.3	-	-	-	39.4
45.9	14.1	13.0	-	16.0	16.0	10.5	16.0	14.3	10.8	9.4	9.4	-	8.3	-	-	-	45.9
52.5	12.5	12.3	-	16.0	15.8	10.3	15.8	13.4	10.5	9.4	9.4	9.4	8.3	8.3	8.3	-	52.5
59.1	11.2	-	-	16.0	15.2	10.3	14.9	13.0	10.5	9.4	9.4	9.0	8.3	7.9	7.7	-	59.1
65.6	-	-	-	16.0	14.5	10.3	13.8	12.3	10.3	9.4	9.2	8.8	7.7	7.4	7.2	-	65.6
72.2	-	-	-	16.0	13.8	-	12.5	11.9	10.3	9.4	8.8	8.3	7.2	7.0	6.8	-	72.2
78.7	-	-	-	16.0	13.4	-	11.6	11.4	10.1	9.0	8.3	8.1	6.8	6.6	6.3	-	78.7
85.3	-	-	-	15.2	13.0	-	10.5	10.8	10.1	8.3	8.1	7.9	6.3	6.1	5.9	-	85.3
91.9	-	-	-	14.1	12.5	-	9.7	9.9	-	7.7	7.7	7.4	5.9	5.7	5.7	-	91.9
98.4	-	-	-	13.2	12.3	-	9.2	9.0	-	7.2	7.2	7.0	5.5	5.5	5.2	-	98.4
105.0	-	-	-	11.4	11.9	-	8.3	8.3	-	6.6	6.8	-	5.2	5.0	5.0	-	105.0
111.5	-	-	-	10.5	-	-	7.9	7.7	-	6.1	6.3	-	4.8	4.8	-	-	111.5
118.1	-	-	-	9.9	-	-	7.2	7.2	-	5.7	5.9	-	4.6	4.6	-	-	118.1
124.7	-	-	-	-	-	-	6.6	6.8	-	5.2	5.2	-	4.4	4.1	-	-	124.7
131.2	-	-	-	-	-	-	6.1	6.1	-	4.8	5.0	-	4.1	3.9	-	-	131.2
137.8	-	-	-	-	-	-	5.7	5.7	-	4.4	4.6	-	3.7	3.7	-	-	137.8
144.4	-	-	-	-	-	-	4.8	5.2	-	3.9	4.1	-	3.5	3.5	-	-	144.4
150.9	-	-	-	-	-	-	4.4	-	-	3.0	3.5	-	2.8	3.3	-	-	150.9
157.5	-	-	-	-	-	-	4.1	-	-	2.2	2.6	-	1.9	2.4	-	-	157.5
164.0	-	-	-	-	-	-	3.7	-	-	-	-	-	-	-	-	-	164.0

Operation

HTLJ

53,000 lbs			24.6 ft x 26.3 ft			29.5 ft			360°			ASME B30.5					
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft						
5°		30°		60°		5°		30°		60°		5°		30°		60°	
1,000 lbs																	
ft																	ft
9.8	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8
11.5	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	16.0	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	11.4	16.0	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	16.0	16.0	11.0	16.0	16.0	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	16.0	16.0	10.8	16.0	16.0	-	16.0	-	-	-	-	-	-	-	-	-	26.2
29.5	16.0	15.8	10.5	16.0	16.0	11.0	16.0	-	-	-	-	-	-	-	-	-	29.5
32.8	16.0	15.2	10.3	16.0	16.0	11.0	16.0	16.0	-	-	-	-	-	-	-	-	32.8
36.1	16.0	14.5	10.3	16.0	16.0	10.8	16.0	15.6	-	9.4	-	-	-	-	-	-	36.1
39.4	16.0	13.8	-	16.0	16.0	10.8	16.0	15.2	11.0	9.4	-	-	8.3	-	-	-	39.4
45.9	14.1	13.0	-	16.0	16.0	10.5	16.0	14.3	10.8	9.4	9.4	-	8.3	-	-	-	45.9
52.5	12.5	12.3	-	16.0	15.8	10.3	15.8	13.4	10.5	9.4	9.4	9.4	8.3	8.3	8.3	-	52.5
59.1	11.2	-	-	16.0	15.2	10.3	14.9	13.0	10.5	9.4	9.4	9.0	8.3	7.9	7.7	-	59.1
65.6	-	-	-	16.0	14.5	10.3	13.8	12.3	10.3	9.4	9.2	8.8	7.7	7.4	7.2	-	65.6
72.2	-	-	-	16.0	13.8	-	12.5	11.9	10.3	9.4	8.8	8.3	7.2	7.0	6.8	-	72.2
78.7	-	-	-	15.2	13.4	-	11.6	11.4	10.1	9.0	8.3	8.1	6.8	6.6	6.3	-	78.7
85.3	-	-	-	14.1	13.0	-	10.5	10.8	10.1	8.3	8.1	7.9	6.3	6.1	5.9	-	85.3
91.9	-	-	-	12.1	12.5	-	9.7	9.9	-	7.7	7.7	7.4	5.9	5.7	5.7	-	91.9
98.4	-	-	-	10.1	10.5	-	9.2	8.5	-	7.2	7.2	7.0	5.5	5.5	5.2	-	98.4
105.0	-	-	-	8.5	8.8	-	8.1	8.1	-	6.3	6.8	-	5.2	5.0	5.0	-	105.0
111.5	-	-	-	7.2	-	-	6.8	7.2	-	5.0	5.9	-	4.6	4.8	-	-	111.5
118.1	-	-	-	6.8	-	-	6.3	6.1	-	3.9	4.6	-	3.5	4.4	-	-	118.1
124.7	-	-	-	-	-	-	5.2	5.7	-	2.8	3.5	-	2.6	3.3	-	-	124.7
131.2	-	-	-	-	-	-	4.4	4.8	-	1.9	2.6	-	-	2.4	-	-	131.2
137.8	-	-	-	-	-	-	3.5	3.7	-	-	-	-	-	-	-	-	137.8
144.4	-	-	-	-	-	-	2.6	2.8	-	-	-	-	-	-	-	-	144.4
150.9	-	-	-	-	-	-	1.9	-	-	-	-	-	-	-	-	-	150.9

Operation

HTLJ

78,200 lbs		24.6 ft x 26.3 ft			45.9 ft			360°			ASME B30.5						
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft						
5°		30°			60°			5°			30°			60°			
ft	1,000 lbs															ft	
9.8	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8
11.5	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	9.4	-	-	9.4	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	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	-	-	-	-	-	-	-	-	-	29.5
32.8	9.4	9.2	-	9.4	9.4	-	9.4	-	-	-	-	-	-	-	-	-	32.8
36.1	9.4	8.5	5.9	9.4	9.4	-	9.4	-	-	-	-	-	-	-	-	-	36.1
39.4	9.4	8.3	5.9	9.4	9.2	-	9.4	-	-	-	-	-	-	-	-	-	39.4
45.9	9.4	7.7	5.7	9.4	8.5	5.9	9.4	8.3	-	6.8	-	-	6.1	-	-	-	45.9
52.5	8.3	7.0	5.5	9.4	8.1	5.7	9.4	8.1	-	6.8	-	-	6.1	-	-	-	52.5
59.1	7.4	6.6	-	9.4	7.7	5.7	9.4	7.7	5.7	6.8	6.8	-	6.1	-	-	-	59.1
65.6	6.6	6.3	-	9.4	7.4	5.5	9.4	7.4	5.7	6.8	6.8	5.7	6.1	6.1	-	-	65.6
72.2	5.9	-	-	9.4	7.0	5.5	9.4	7.2	5.5	6.8	6.8	5.5	6.1	6.1	5.7	-	72.2
78.7	-	-	-	9.2	6.8	5.5	9.4	6.8	5.5	6.8	6.6	5.5	6.1	5.9	5.5	-	78.7
85.3	-	-	-	8.8	6.6	-	9.2	6.6	5.5	6.8	6.3	5.5	5.7	5.5	5.5	-	85.3
91.9	-	-	-	8.1	6.3	-	8.8	6.3	5.5	6.8	6.1	5.5	5.5	5.2	5.2	-	91.9
98.4	-	-	-	7.7	6.1	-	8.3	6.3	5.2	6.8	5.9	5.5	5.0	5.0	5.0	-	98.4
105.0	-	-	-	7.4	6.1	-	8.1	6.1	-	6.6	5.7	5.2	4.8	4.6	4.6	-	105.0
111.5	-	-	-	7.0	5.9	-	7.4	5.9	-	6.1	5.7	5.2	4.6	4.4	4.4	-	111.5
118.1	-	-	-	6.6	5.9	-	7.0	5.7	-	5.7	5.5	-	4.4	4.1	4.1	-	118.1
124.7	-	-	-	6.1	-	-	6.6	5.7	-	5.2	5.2	-	4.1	3.9	-	-	124.7
131.2	-	-	-	5.9	-	-	6.1	5.5	-	5.0	4.8	-	3.9	3.7	-	-	131.2
137.8	-	-	-	-	-	-	5.7	5.5	-	4.6	4.6	-	3.7	3.5	-	-	137.8
144.4	-	-	-	-	-	-	-	5.5	-	-	4.4	-	-	3.5	-	-	144.4
150.9	-	-	-	-	-	-	-	5.0	-	-	3.9	-	-	3.3	-	-	150.9
157.5	-	-	-	-	-	-	-	4.6	-	-	3.7	-	-	3.0	-	-	157.5
164.0	-	-	-	-	-	-	-	3.9	-	-	2.8	-	-	2.6	-	-	164.0
170.6	-	-	-	-	-	-	-	3.3	-	-	2.2	-	-	1.9	-	-	170.6
177.2	-	-	-	-	-	-	-	3.0	-	-	-	-	-	-	-	-	177.2

Operation

HTLJ

53,000 lbs			24.6 ft x 26.3 ft			45.9 ft			360°			ASME B30.5		
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft			
5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°	5°	30°	60°
1,000 lbs														
ft														ft
9.8	9.4	-	-	-	-	-	-	-	-	-	-	-	-	9.8
11.5	9.4	-	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	9.4	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	9.4	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	9.4	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	9.4	-	-	9.4	-	-	-	-	-	-	-	-	-	19.7
23.0	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	-	-	-	-	-	-	29.5
32.8	9.4	9.2	-	9.4	9.4	-	9.4	-	-	-	-	-	-	32.8
36.1	9.4	8.5	5.9	9.4	9.4	-	9.4	-	-	-	-	-	-	36.1
39.4	9.4	8.3	5.9	9.4	9.2	-	9.4	-	-	-	-	-	-	39.4
45.9	9.4	7.7	5.7	9.4	8.5	5.9	9.4	8.3	-	6.8	-	-	6.1	45.9
52.5	8.3	7.0	5.5	9.4	8.1	5.7	9.4	8.1	-	6.8	-	-	6.1	52.5
59.1	7.4	6.6	-	9.4	7.7	5.7	9.4	7.7	5.7	6.8	6.8	-	6.1	59.1
65.6	6.6	6.3	-	9.4	7.4	5.5	9.4	7.4	5.7	6.8	6.8	5.7	6.1	65.6
72.2	5.9	-	-	9.4	7.0	5.5	9.4	7.2	5.5	6.8	6.8	5.5	6.1	72.2
78.7	-	-	-	9.2	6.8	5.5	9.4	6.8	5.5	6.8	6.6	5.5	6.1	78.7
85.3	-	-	-	8.8	6.6	-	9.2	6.6	5.5	6.8	6.3	5.5	5.7	85.3
91.9	-	-	-	8.1	6.3	-	8.8	6.3	5.5	6.8	6.1	5.5	5.5	91.9
98.4	-	-	-	7.7	6.1	-	8.3	6.3	5.2	6.8	5.9	5.5	5.0	98.4
105.0	-	-	-	7.2	6.1	-	7.7	6.1	-	6.6	5.7	5.2	4.8	105.0
111.5	-	-	-	7.0	5.9	-	7.2	5.9	-	6.1	5.7	5.2	4.6	111.5
118.1	-	-	-	6.6	5.9	-	6.6	5.7	-	5.0	5.5	-	4.4	118.1
124.7	-	-	-	6.1	-	-	5.5	5.5	-	3.9	5.2	-	3.7	124.7
131.2	-	-	-	5.2	-	-	5.0	5.2	-	3.0	4.1	-	2.8	131.2
137.8	-	-	-	-	-	-	4.6	4.6	-	2.2	3.3	-	1.9	137.8
144.4	-	-	-	-	-	-	3.7	4.1	-	-	2.4	-	-	144.4
150.9	-	-	-	-	-	-	3.0	3.5	-	-	-	-	-	150.9
157.5	-	-	-	-	-	-	2.4	2.8	-	-	-	-	-	157.5

Operation

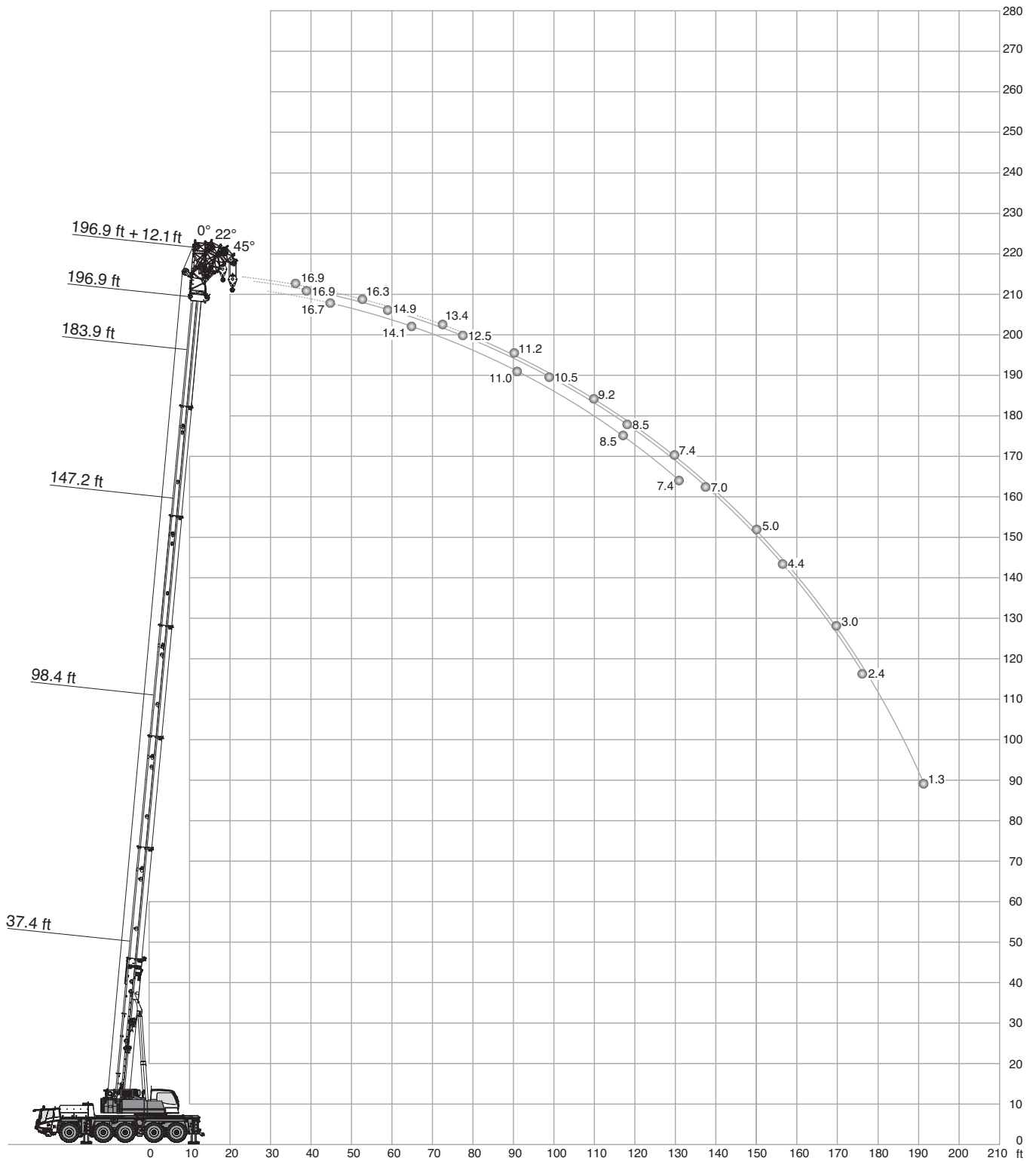
HTLJ

78,200 lbs		24.6 ft x 26.3 ft			62.3 ft			360°			ASME B30.5							
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft							
5°		30°		60°		5°		30°		60°		5°		30°		60°		
ft	1,000 lbs																ft	
13.1	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	7.2	-	-	6.8	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	7.2	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	7.2	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	29.5
32.8	7.2	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	32.8
36.1	7.2	5.7	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	36.1
39.4	7.0	5.5	-	7.2	-	-	5.5	-	-	-	-	-	-	-	-	-	-	39.4
45.9	6.3	5.0	-	7.2	5.2	-	5.5	-	-	-	-	-	-	-	-	-	-	45.9
52.5	5.7	4.6	-	7.2	5.0	-	5.5	-	-	4.1	-	-	-	-	-	-	-	52.5
59.1	5.2	4.4	3.7	6.8	4.8	-	5.5	4.6	-	4.1	-	-	3.9	-	-	-	-	59.1
65.6	4.8	3.9	3.5	6.3	4.6	3.7	5.5	4.4	-	4.1	-	-	3.9	-	-	-	-	65.6
72.2	4.4	3.7	-	5.9	4.4	3.5	5.5	4.4	3.5	4.1	4.1	-	3.9	-	-	-	-	72.2
78.7	4.1	3.7	-	5.5	4.1	3.5	5.5	4.1	3.5	4.1	3.9	-	3.9	3.9	-	-	-	78.7
85.3	3.9	3.5	-	5.2	3.9	3.5	5.5	3.9	3.5	4.1	3.9	3.3	3.9	3.7	3.3	-	-	85.3
91.9	3.5	-	-	5.0	3.9	3.5	5.2	3.9	3.5	4.1	3.7	3.3	3.9	3.7	3.3	-	-	91.9
98.4	-	-	-	4.8	3.7	3.5	5.0	3.7	3.3	4.1	3.7	3.3	3.9	3.5	3.3	-	-	98.4
105.0	-	-	-	4.6	3.5	-	4.8	3.7	3.3	4.1	3.5	3.3	3.9	3.5	3.0	-	-	105.0
111.5	-	-	-	4.4	3.5	-	4.6	3.5	3.3	4.1	3.5	3.0	3.9	3.5	3.0	-	-	111.5
118.1	-	-	-	4.1	3.5	-	4.4	3.5	3.3	4.1	3.3	3.0	3.9	3.3	3.0	-	-	118.1
124.7	-	-	-	3.9	3.5	-	4.4	3.5	-	4.1	3.3	3.0	3.7	3.3	3.0	-	-	124.7
131.2	-	-	-	3.9	3.3	-	4.1	3.3	-	4.1	3.3	3.0	3.5	3.3	3.0	-	-	131.2
137.8	-	-	-	3.7	3.3	-	3.9	3.3	-	3.9	3.0	-	3.5	3.0	-	-	-	137.8
144.4	-	-	-	-	3.5	-	-	3.5	-	-	3.5	-	-	3.3	-	-	-	144.4
150.9	-	-	-	-	-	-	-	3.5	-	-	3.3	-	-	3.0	-	-	-	150.9
157.5	-	-	-	-	-	-	-	3.3	-	-	3.3	-	-	2.8	-	-	-	157.5
164.0	-	-	-	-	-	-	-	3.3	-	-	3.3	-	-	2.8	-	-	-	164.0
170.6	-	-	-	-	-	-	-	3.3	-	-	3.0	-	-	2.6	-	-	-	170.6
177.2	-	-	-	-	-	-	-	3.0	-	-	2.6	-	-	2.4	-	-	-	177.2
183.7	-	-	-	-	-	-	-	3.0	-	-	1.9	-	-	-	-	-	-	183.7
190.3	-	-	-	-	-	-	-	2.6	-	-	-	-	-	-	-	-	-	190.3

Operation

HTLJ

53,000 lbs		24.6 ft x 26.3 ft						62.3 ft						360°			ASME B30.5						
37.4 ft		98.4 ft						147.2 ft						183.9 ft			196.9 ft						
5°		30°		60°		5°		30°		60°		5°		30°		60°		5°		30°		60°	
ft	1,000 lbs																						ft
13.1	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
14.8	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8
16.4	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.4
19.7	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7
23.0	7.2	-	-	6.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0
26.2	7.2	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2
29.5	7.2	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.5
32.8	7.2	-	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.8
36.1	7.2	5.7	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.1
39.4	7.0	5.5	-	7.2	-	-	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.4
45.9	6.3	5.0	-	7.2	5.2	-	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45.9
52.5	5.7	4.6	-	7.2	5.0	-	5.5	-	-	4.1	-	-	-	-	-	-	-	-	-	-	-	-	52.5
59.1	5.2	4.4	3.7	6.8	4.8	-	5.5	4.6	-	4.1	-	-	3.9	-	-	-	-	-	-	-	-	-	59.1
65.6	4.8	3.9	3.5	6.3	4.6	3.7	5.5	4.4	-	4.1	-	-	3.9	-	-	-	-	-	-	-	-	-	65.6
72.2	4.4	3.7	-	5.9	4.4	3.5	5.5	4.4	3.5	4.1	4.1	-	3.9	-	-	-	-	-	-	-	-	-	72.2
78.7	4.1	3.7	-	5.5	4.1	3.5	5.5	4.1	3.5	4.1	3.9	-	3.9	3.9	-	-	-	-	-	-	-	-	78.7
85.3	3.9	3.5	-	5.2	3.9	3.5	5.5	3.9	3.5	4.1	3.9	3.3	3.9	3.7	3.3	-	-	-	-	-	-	-	85.3
91.9	3.5	-	-	5.0	3.9	3.5	5.2	3.9	3.5	4.1	3.7	3.3	3.9	3.7	3.3	-	-	-	-	-	-	-	91.9
98.4	-	-	-	4.8	3.7	3.5	5.0	3.7	3.3	4.1	3.7	3.3	3.9	3.5	3.3	-	-	-	-	-	-	-	98.4
105.0	-	-	-	4.6	3.5	-	4.8	3.7	3.3	4.1	3.5	3.3	3.9	3.5	3.0	-	-	-	-	-	-	-	105.0
111.5	-	-	-	4.4	3.5	-	4.6	3.5	3.3	4.1	3.5	3.0	3.9	3.5	3.0	-	-	-	-	-	-	-	111.5
118.1	-	-	-	4.1	3.5	-	4.4	3.5	3.3	4.1	3.3	3.0	3.9	3.3	3.0	-	-	-	-	-	-	-	118.1
124.7	-	-	-	3.9	3.5	-	4.4	3.5	-	4.1	3.3	3.0	3.7	3.3	3.0	-	-	-	-	-	-	-	124.7
131.2	-	-	-	3.9	3.3	-	4.1	3.3	-	4.1	3.3	3.0	3.5	3.3	3.0	-	-	-	-	-	-	-	131.2
137.8	-	-	-	3.7	3.3	-	3.9	3.3	-	3.3	3.0	-	2.8	3.0	-	-	-	-	-	-	-	-	137.8
144.4	-	-	-	3.7	-	-	3.7	3.3	-	2.6	3.0	-	2.2	3.0	-	-	-	-	-	-	-	-	144.4
150.9	-	-	-	3.5	-	-	3.7	3.0	-	-	3.0	-	-	2.8	-	-	-	-	-	-	-	-	150.9
157.5	-	-	-	-	-	-	3.3	3.0	-	-	2.4	-	-	1.9	-	-	-	-	-	-	-	-	157.5
164.0	-	-	-	-	-	-	2.8	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	164.0
170.6	-	-	-	-	-	-	2.2	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170.6



Operation

MS

78,200 lbs			24.6 ft x 26.3 ft			12.1 ft			360°			ASME B30.5			
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft				
0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	
1,000 lbs															
ft														ft	
9.8	110.8	78.0	56.6	-	-	-	-	-	-	-	-	-	-	-	9.8
11.5	103.3	75.1	55.7	-	-	-	-	-	-	-	-	-	-	-	11.5
13.1	96.7	72.5	54.6	-	82.2	-	-	-	-	-	-	-	-	-	13.1
14.8	90.8	70.3	53.7	-	80.0	58.6	-	-	-	-	-	-	-	-	14.8
16.4	85.7	68.3	53.1	-	78.2	57.9	-	-	-	-	-	-	-	-	16.4
19.7	77.3	64.5	52.0	77.8	73.4	56.6	-	-	-	-	-	-	-	-	19.7
23.0	70.5	61.7	51.1	77.8	68.5	55.5	-	33.7	-	-	-	-	-	-	23.0
26.2	64.8	59.3	50.7	77.8	66.1	54.4	-	33.7	33.7	-	-	-	-	-	26.2
29.5	60.4	56.4	50.7	76.5	63.7	53.5	-	33.7	33.7	-	-	-	-	-	29.5
32.8	56.4	54.2	-	72.0	61.7	52.2	-	33.7	33.7	-	-	-	-	-	32.8
36.1	53.5	52.6	-	64.5	59.7	50.9	33.7	33.7	33.7	-	19.4	19.4	16.9	-	36.1
39.4	51.3	52.2	-	57.9	57.9	50.2	32.4	32.4	33.5	-	19.4	19.4	16.9	16.9	39.4
45.9	-	-	-	47.8	48.2	48.7	31.5	31.0	30.8	19.4	19.4	19.4	16.9	16.9	45.9
52.5	-	-	-	40.1	40.5	41.0	28.4	28.2	27.9	19.4	19.4	19.4	16.3	16.0	52.5
59.1	-	-	-	34.3	34.6	34.8	26.0	25.5	25.5	19.4	19.4	19.4	15.2	14.9	59.1
65.6	-	-	-	29.5	29.9	30.2	23.5	23.5	23.5	18.0	18.2	18.0	14.3	14.1	65.6
72.2	-	-	-	26.0	26.0	26.2	21.8	21.6	21.6	16.9	16.9	16.9	13.4	13.2	72.2
78.7	-	-	-	23.8	23.1	-	20.0	20.0	20.0	15.8	15.8	15.8	12.5	12.5	78.7
85.3	-	-	-	21.6	21.3	-	18.5	18.5	18.5	14.7	14.7	14.7	11.9	11.6	85.3
91.9	-	-	-	18.9	19.1	-	17.1	17.1	17.1	13.6	13.6	13.6	11.2	11.0	91.9
98.4	-	-	-	16.7	-	-	15.4	15.6	15.6	12.7	12.7	12.7	10.5	10.5	98.4
105.0	-	-	-	-	-	-	13.4	13.6	13.6	11.9	11.9	11.9	9.9	9.9	105.0
111.5	-	-	-	-	-	-	12.3	12.3	-	11.0	11.0	11.0	9.2	9.2	111.5
118.1	-	-	-	-	-	-	11.2	11.4	-	10.3	10.3	10.3	8.5	8.5	118.1
124.7	-	-	-	-	-	-	10.3	10.1	-	9.0	9.2	9.2	7.9	8.1	124.7
131.2	-	-	-	-	-	-	9.9	9.7	-	7.7	7.9	-	7.4	7.4	131.2
137.8	-	-	-	-	-	-	9.0	9.0	-	6.8	6.8	-	6.8	7.0	137.8
144.4	-	-	-	-	-	-	7.9	-	-	5.9	5.9	-	5.9	6.1	144.4
150.9	-	-	-	-	-	-	-	-	-	5.0	5.0	-	5.0	5.2	150.9
157.5	-	-	-	-	-	-	-	-	-	4.1	4.4	-	4.4	4.4	157.5
164.0	-	-	-	-	-	-	-	-	-	3.5	3.5	-	3.7	3.7	164.0
170.6	-	-	-	-	-	-	-	-	-	2.8	3.0	-	3.0	3.0	170.6
177.2	-	-	-	-	-	-	-	-	-	2.4	-	-	2.4	2.4	177.2
183.7	-	-	-	-	-	-	-	-	-	1.7	-	-	1.7	-	183.7
190.3	-	-	-	-	-	-	-	-	-	-	-	-	1.3	-	190.3

Operation

MS

53,000 lbs		24.6 ft x 26.3 ft			12.1 ft			360°			ASME B30.5					
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft					
0°		22°		45°	0°		22°	45°	0°		22°	45°				
ft	1,000 lbs												ft			
9.8	110.8	78.0	56.6	-	-	-	-	-	-	-	-	-	9.8			
11.5	103.3	75.1	55.7	-	-	-	-	-	-	-	-	-	11.5			
13.1	96.7	72.5	54.6	-	82.2	-	-	-	-	-	-	-	13.1			
14.8	90.8	70.3	53.7	-	80.0	58.6	-	-	-	-	-	-	14.8			
16.4	85.7	68.3	53.1	-	78.2	57.9	-	-	-	-	-	-	16.4			
19.7	77.3	64.5	52.0	77.8	73.4	56.6	-	-	-	-	-	-	19.7			
23.0	70.5	61.7	51.1	77.8	68.5	55.5	-	33.7	-	-	-	-	23.0			
26.2	64.8	59.3	50.7	77.8	66.1	54.4	-	33.7	33.7	-	-	-	26.2			
29.5	60.4	56.4	50.7	74.7	63.7	53.5	-	33.7	33.7	-	-	-	29.5			
32.8	56.4	54.2	-	65.9	61.7	52.2	-	33.7	33.7	-	-	-	32.8			
36.1	53.5	52.6	-	58.6	59.5	50.9	33.7	33.7	33.7	-	19.4	19.4	16.9	-	36.1	
39.4	51.3	52.2	-	52.4	53.3	50.2	32.4	32.4	33.5	-	19.4	19.4	16.9	16.9	-	39.4
45.9	-	-	-	42.3	43.2	43.8	31.5	31.0	30.8	19.4	19.4	19.4	16.9	16.9	16.7	45.9
52.5	-	-	-	35.0	35.4	35.9	28.4	28.2	27.9	19.4	19.4	19.4	16.3	16.0	15.8	52.5
59.1	-	-	-	29.1	29.3	29.5	26.0	25.5	25.5	19.4	19.4	19.4	15.2	14.9	14.9	59.1
65.6	-	-	-	25.5	24.9	24.2	23.1	23.5	23.5	18.0	18.2	18.0	14.3	14.1	14.1	65.6
72.2	-	-	-	21.6	22.0	22.0	19.8	20.2	20.5	16.9	16.9	16.9	13.4	13.2	13.2	72.2
78.7	-	-	-	19.1	19.1	-	18.0	18.0	17.8	15.8	15.8	15.8	12.5	12.5	12.3	78.7
85.3	-	-	-	16.5	16.7	-	15.4	15.6	15.8	13.8	14.1	14.5	11.9	11.6	11.6	85.3
91.9	-	-	-	14.3	14.5	-	13.6	13.4	13.6	11.9	12.3	12.5	11.2	11.0	11.0	91.9
98.4	-	-	-	12.5	-	-	12.5	12.3	12.3	10.3	10.5	10.8	10.1	10.3	10.3	98.4
105.0	-	-	-	-	-	-	11.0	11.0	11.2	8.8	9.0	9.0	8.8	9.0	9.2	105.0
111.5	-	-	-	-	-	-	9.4	9.7	-	7.2	7.4	7.7	7.4	7.7	7.9	111.5
118.1	-	-	-	-	-	-	8.3	8.3	-	6.1	6.3	6.3	6.3	6.6	6.6	118.1
124.7	-	-	-	-	-	-	7.2	7.2	-	5.0	5.2	5.2	5.2	5.5	5.5	124.7
131.2	-	-	-	-	-	-	6.3	6.3	-	4.1	4.1	-	4.4	4.4	4.6	131.2
137.8	-	-	-	-	-	-	5.5	5.5	-	3.3	3.5	-	3.5	3.5	-	137.8
144.4	-	-	-	-	-	-	4.6	-	-	2.4	2.6	-	2.6	2.8	-	144.4
150.9	-	-	-	-	-	-	-	-	-	1.7	1.9	-	1.9	1.9	-	150.9
157.5	-	-	-	-	-	-	-	-	-	1.3	1.3	-	1.3	1.5	-	157.5

Operation

MS

29,200 lbs			24.6 ft x 26.3 ft			12.1 ft			360°			ASME B30.5				
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft					
0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°		
1,000 lbs																
ft														ft		
9.8	110.8	78.0	56.6	-	-	-	-	-	-	-	-	-	-	9.8		
11.5	103.3	75.1	55.7	-	-	-	-	-	-	-	-	-	-	11.5		
13.1	96.7	72.5	54.6	-	82.2	-	-	-	-	-	-	-	-	13.1		
14.8	90.8	70.3	53.7	-	80.0	58.6	-	-	-	-	-	-	-	14.8		
16.4	85.7	68.3	53.1	-	78.2	57.9	-	-	-	-	-	-	-	16.4		
19.7	77.3	64.5	52.0	77.8	73.4	56.6	-	-	-	-	-	-	-	19.7		
23.0	70.5	61.7	51.1	77.8	68.5	55.5	-	33.7	-	-	-	-	-	23.0		
26.2	64.8	59.3	50.7	67.6	66.1	54.4	-	33.7	33.7	-	-	-	-	26.2		
29.5	60.4	56.4	50.7	57.3	58.8	53.5	-	33.7	33.7	-	-	-	-	29.5		
32.8	56.4	54.2	-	49.8	51.1	51.5	-	33.7	33.7	-	-	-	-	32.8		
36.1	52.6	52.6	-	43.4	44.5	45.4	33.7	33.7	33.7	-	19.4	19.4	16.9	-	36.1	
39.4	44.7	44.9	-	38.1	39.0	39.9	32.4	32.4	33.5	-	19.4	19.4	16.9	16.9	-	39.4
45.9	-	-	-	32.6	30.8	31.5	28.4	27.9	28.6	19.4	19.4	19.4	16.9	16.9	16.7	45.9
52.5	-	-	-	27.5	27.3	27.1	23.3	24.0	23.1	19.4	19.4	19.4	16.3	16.0	15.8	52.5
59.1	-	-	-	22.4	22.9	23.1	19.6	19.8	20.2	16.7	17.4	17.8	15.2	14.9	14.9	59.1
65.6	-	-	-	18.5	18.7	18.9	17.6	17.4	16.9	13.8	14.3	14.7	13.6	14.1	14.1	65.6
72.2	-	-	-	15.6	15.6	15.6	14.9	15.4	15.6	11.4	11.9	12.3	11.2	11.6	12.1	72.2
78.7	-	-	-	13.2	13.4	-	12.7	13.2	13.4	9.4	9.9	10.1	9.2	9.7	9.9	78.7
85.3	-	-	-	11.2	11.2	-	10.8	11.0	11.2	7.7	8.1	8.3	7.7	7.9	8.1	85.3
91.9	-	-	-	9.9	9.9	-	9.0	9.2	9.4	6.3	6.6	6.8	6.1	6.6	6.8	91.9
98.4	-	-	-	9.0	-	-	7.4	7.7	7.9	5.0	5.2	5.5	4.8	5.2	5.2	98.4
105.0	-	-	-	-	-	-	6.3	6.3	6.6	3.9	4.1	4.4	3.7	4.1	4.1	105.0
111.5	-	-	-	-	-	-	5.2	5.2	-	2.8	3.0	3.3	2.8	3.0	3.3	111.5
118.1	-	-	-	-	-	-	4.1	4.4	-	1.9	2.2	2.4	1.9	2.2	2.2	118.1
124.7	-	-	-	-	-	-	3.5	3.5	-	1.3	1.5	1.5	1.1	1.3	1.5	124.7
131.2	-	-	-	-	-	-	2.6	2.6	-	-	-	-	-	-	-	131.2
137.8	-	-	-	-	-	-	1.9	1.9	-	-	-	-	-	-	-	137.8
144.4	-	-	-	-	-	-	1.5	-	-	-	-	-	-	-	-	144.4

Operation

MS

20,400 lbs			24.6 ft x 26.3 ft			12.1 ft			360°			ASME B30.5				
37.4 ft		98.4 ft			147.2 ft			183.9 ft			196.9 ft					
0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°		
1,000 lbs																
ft														ft		
9.8	110.8	78.0	56.6	-	-	-	-	-	-	-	-	-	-	9.8		
11.5	103.3	75.1	55.7	-	-	-	-	-	-	-	-	-	-	11.5		
13.1	96.7	72.5	54.6	-	82.2	-	-	-	-	-	-	-	-	13.1		
14.8	90.8	70.3	53.7	-	80.0	58.6	-	-	-	-	-	-	-	14.8		
16.4	85.7	68.3	53.1	-	78.2	57.9	-	-	-	-	-	-	-	16.4		
19.7	77.3	64.5	52.0	77.8	73.4	56.6	-	-	-	-	-	-	-	19.7		
23.0	70.5	61.7	51.1	71.6	68.5	55.5	-	33.7	-	-	-	-	-	23.0		
26.2	64.8	59.3	50.7	59.5	60.8	54.4	-	33.7	33.7	-	-	-	-	26.2		
29.5	60.4	56.4	50.7	50.2	51.8	53.1	-	33.7	33.7	-	-	-	-	29.5		
32.8	55.1	54.2	-	42.9	44.3	45.6	-	33.7	33.7	-	-	-	-	32.8		
36.1	45.8	46.2	-	39.9	38.3	39.4	32.8	33.7	33.5	-	19.4	19.4	16.9	-	36.1	
39.4	39.0	39.2	-	35.4	33.7	34.3	29.7	29.9	30.8	-	19.4	19.4	16.9	16.9	-	39.4
45.9	-	-	-	29.1	29.7	28.8	24.2	24.9	25.1	19.4	19.4	19.4	16.9	16.9	16.7	45.9
52.5	-	-	-	23.5	24.2	24.4	21.1	20.5	20.7	16.9	17.6	18.0	16.3	16.0	15.8	52.5
59.1	-	-	-	19.1	19.6	19.8	17.6	18.0	18.2	13.6	14.3	14.7	13.4	13.8	14.3	59.1
65.6	-	-	-	15.8	16.3	16.5	14.7	14.9	15.4	11.0	11.4	11.9	10.8	11.2	11.6	65.6
72.2	-	-	-	13.0	13.4	13.4	12.3	12.7	13.0	8.8	9.2	9.7	8.8	9.2	9.4	72.2
78.7	-	-	-	11.6	11.4	-	10.3	10.5	10.8	7.0	7.4	7.7	7.0	7.2	7.7	78.7
85.3	-	-	-	10.1	10.1	-	8.5	8.8	9.0	5.5	5.9	6.1	5.5	5.7	5.9	85.3
91.9	-	-	-	8.5	8.5	-	7.0	7.2	7.4	4.1	4.6	4.8	4.1	4.4	4.6	91.9
98.4	-	-	-	7.2	-	-	5.7	5.9	5.9	3.0	3.3	3.5	3.0	3.3	3.5	98.4
105.0	-	-	-	-	-	-	4.6	4.8	4.8	2.2	2.4	2.4	1.9	2.2	2.4	105.0
111.5	-	-	-	-	-	-	3.5	3.7	-	1.3	1.5	1.5	1.1	1.3	1.5	111.5
118.1	-	-	-	-	-	-	2.8	2.8	-	-	-	-	-	-	-	118.1
124.7	-	-	-	-	-	-	1.9	2.2	-	-	-	-	-	-	-	124.7
131.2	-	-	-	-	-	-	1.3	1.3	-	-	-	-	-	-	-	131.2

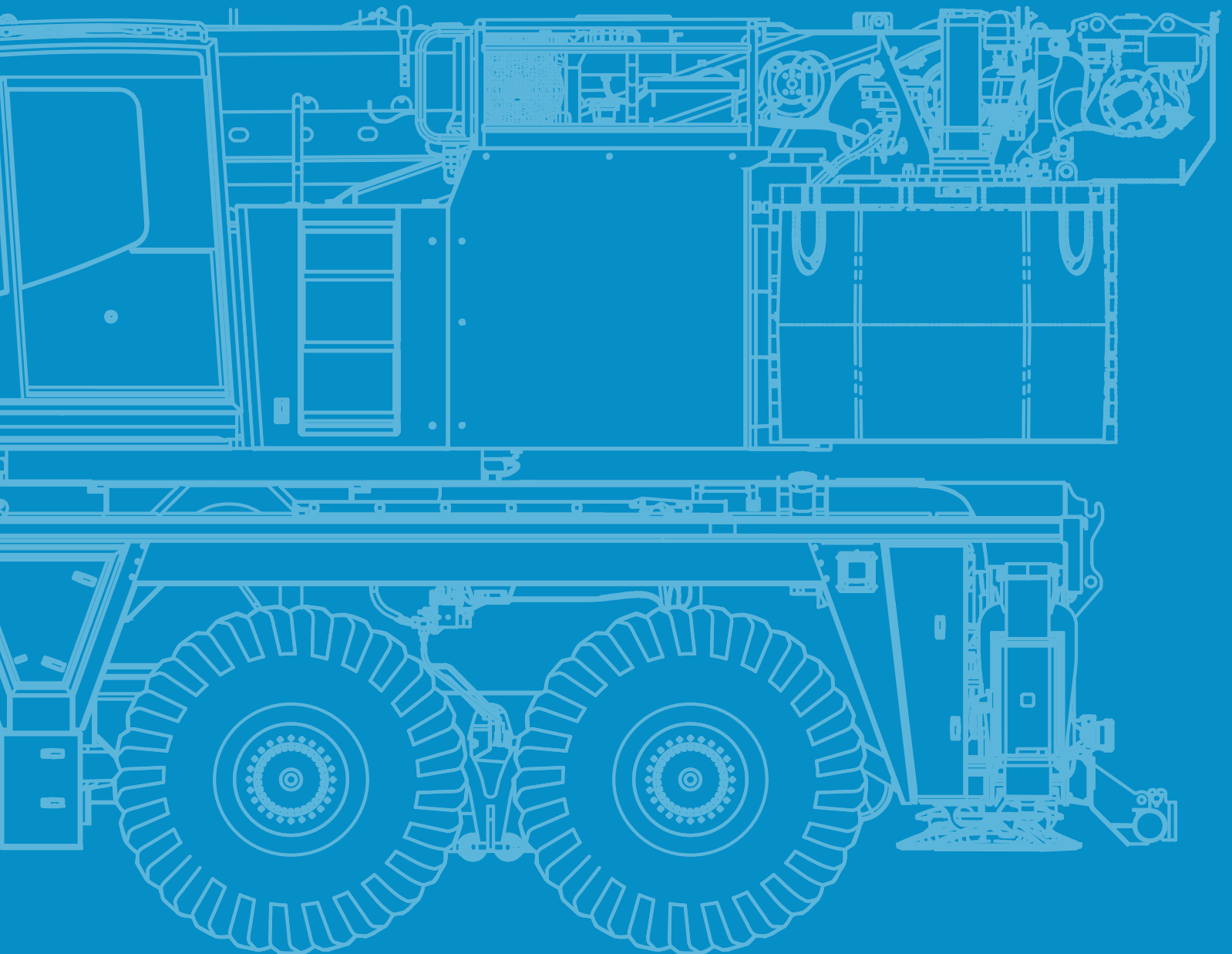
Notes to Lifting Capacity

Ratings are in compliance with ASME B30.5.
Lifting capacities do not exceed 85 % of tipping load.

Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings.
Consult operation manual for further details.

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

TECHNICAL DESCRIPTION



Technical Description

Basic machine

Equipment carrier

Engine 390-5	Mercedes-Benz OM471LA; Diesel engine; Output 390 kW / 1600 1/min (530 HP), torque 2600 Nm / 1300 1/min; The engine complies with EU Stage V/Tier 4F; Exhaust system complete stainless steel with SCR catalyzer.
Fuel tank	159 gallons Diesel (no RME / biodiesel); 11 gallons Ad-Blue tank.
Transmission ZF TraXon	Automated gearbox with 12 forward speeds and 2 reverse; 2-stage transfer case with switchable longitudinal lock.
Axles 10 x 6 x 10	All 5 axles steered, axles 2, 4, 5 driven and equipped with selectable transverse lock.
Suspension	Hydropneumatic suspension with axle load compensation; Hydraulically lockable; Manual or automatic levelling alternatively.
Steering	Dual circuit hydro servocom steering with emergency steering pump; Active rear axle steering.
Brakes	Pneumatic dual circuit service brake with antilock system, acting on all wheels; Disc brakes; Additional, double-speed decompression brake; Spring-loaded parking brake.
Tires	Tires size 385/95 R25 (14.00R25); Steel rim 9,5-25/1,7"
Cab 2690	Type 8.8 ft; Adjustable driver seat, armrests and pneumatic suspension; Height and tilt-adjustable steering wheel; Auxiliary/passenger seat; Powered door windows; Tinted glass; Radio; Seat heating; Heating engine-dependent; Aircondition.
Rear view camera	Display in carrier cab; Cameras installed on rear of vehicle.
Drive lights	Including low beam, upper beam, daytime running lights, fog lights and cornering lights.
Central lubrication	Automatic central lubrication system for the lubricating points at the carrier.
Outriggers	H-4-Point design; Vertical and horizontal movement fully hydraulic; Manual or automatic levelling alternatively; 5 outrigger bases: 8.2 ft, 13.5 ft, 16.4 ft, 20.3 ft and 24.6 ft. 4 square outrigger pads with transport position at vertical cylinder.
Outrigger basis monitoring	Individual monitoring of horizontal stroke; Deviation warning in crane cab.
Outrigger load indicator	The outrigger load is indicated in the operator cab and the outrigger control box.
Electronic immobiliser system	Prevents uncontrolled carrier mobilisation; Incl. 4 ignition keys.
Pneumatic tire filling plug	For self-filling of the wheels.

Equipment superstructure

Engine 129-5	Mercedes-Benz OM934LA; Diesel engine; Output 129 kW / 2200 1/min (175 HP), torque 750 Nm / 1200-1600 1/min; The engine complies with EU Stage V/Tier 4F; Exhaust system complete stainless steel with SCR catalyzer.
Telescopic boom HA60	37.4 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 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 53,000 lbs	9 pieces (①, 3 x ②, ③, ④, ⑤, ⑥, ⑧).
Control system	Enabling 4 simultaneous working movements; Electric pilot controls via 2 two-axis joysticks; Different control modes selectable for hydraulic circuits.
Operator aids	AML-F, with integrated electronic load moment indicator in accordance with EN13000; Color display; Displaying of current operating conditions, load charts, fault indicator; Signal lights indicating LMI-load; Crane data logger.
SmartChart	Smart crane control system for main boom and rooster sheave operation enabling higher lifting capacities especially over outriggers. Enables safe use of the full capacity of the crane even in asymmetric outrigger configurations. Visualization of full working area in operator cabin. In-cab lift simulation.
Hello-Net	Tadano telematic system.
Working range limiter	Displaying and programmability of the work range limits by AML-F.
Lift adjuster	Safety device which prevents the load from swinging out when the load is picked up and the released hook block from swinging when the load is set down; Activated by switch in operator cabin.
Cab 872	Type 2.86 ft; 12° tiltable seat incl. control panel; Fold-out front window; Extendable side pedestal, front pedestal; Handrails; Tinted safety glass; Pull-down sun visor; Radio; Seat heating; Heating engine-dependent and engine-independent; Aircondition.
Central lubrication	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.
Tires	10 tires; Tire size 445/95R25 (16.00R25) or 525/80 (20.5R25).

Superstructure

2. hoist (H2)	Spring-loaded multi-disc brake; Integrated resolver (hoist rotation indicator); Quick couplings; Incl. hoist monitoring.
Additional counterweight 25,500 lbs	2 pieces (2 x ⑦); for total 78,200 lbs, 11 pieces.
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	Control of superstructure movements via wireless remote control.
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Extensions

HAV 58.7 ft	Double folding swing-away jib, manual offset 22°/45°; 1-sheave head; Incl. transport storage.
HAV-VA 104.7 ft	Variable extension; 2 x 23 ft lattice boom extension and double folding swing-away jib, manual offset 22°/45°; 1-sheaved head; Incl. transport storage for double folding swing-away jib; Includes HAV 58.7 ft and HAV-VA 81.7 ft.
HAV-HY	Hydraulic, stepless offset 0°-40°, instead of the manual offset; Available for HAV and HAV-VA.
HTLJ 62.3 ft	Hydraulically telescopable and offsetable main boom extension; Length 29.5 ft - 62.3 ft; Hydraulic offset 5°-60°.
MS (runner)	12.1 ft; Variable assembly jib with manual offset; 3-sheaves, for max. 110,800 lbs lifting capacity.

Hook Blocks

Hook block 352,800 lbs 7-sheaves	Max. capacity 264,600 lbs; 2,870 lbs; Double hook, red with white signal stripes.
Hook block 220,500 lbs, 5-sheaves	Max. capacity 202,200 lbs 1,760 lbs; Double hook, red with white signal stripes.
Hook block 138,900 lbs 3-sheaves	Max. capacity 130,100 lbs; 1,320 lbs; Double hook, red with white signal stripes.
Hook block 70,600 lbs 1-sheave	Max. capacity 56,450 lbs; 990 lbs; Single hook, red with white signal stripes.
Hook 22,050 lbs	Max. capacity 19,100 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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