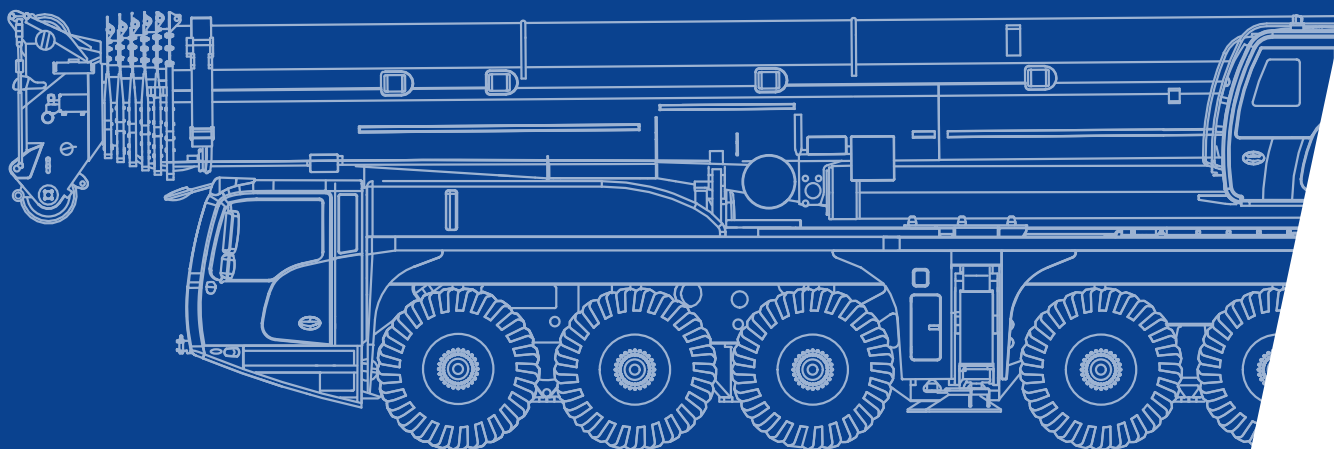


AC 450-7

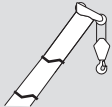

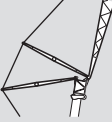
PRELIMINARY



**All Terrain Crane
500 USt Capacity class**

DEMAG
TADANO GROUP

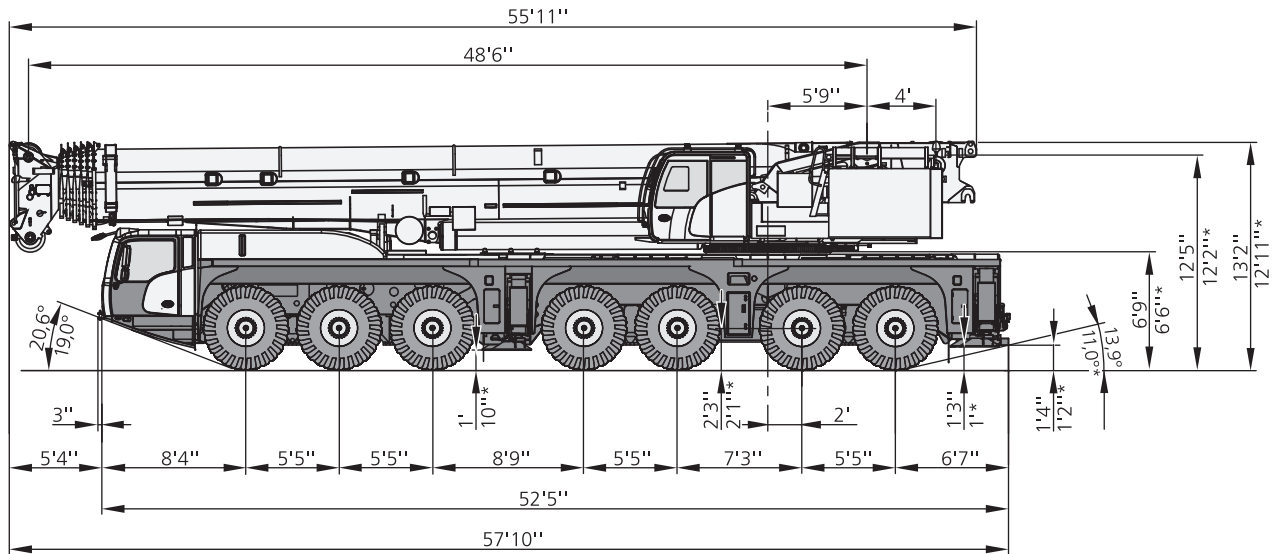
Courtesy of CraneMarket.com

		Page:
Dimensions.....		4
Equipment.....		6
Specifications.....		8
Counterweight		9
Boom Combinations.....		10
	HA Main boom	12
	HA-SSL Main boom with SSL	18
	LF Light fixed jib.....	22
	LF-SSL Light fixed jib with SSL.....	26
	WIHI Luffing fly jib	30
	WIHI-SSL Luffing fly jib with SSL	44
Technical description.....		58

	Counterweight		Slewing
	Lifting capacities on outriggers 360°		Working speeds
	Radius		Boom telescoping
	Main boom		Boom elevation
	Fixed fly jib		Max. line pull
	Luffing fly jib		Rope diameter
	Runner		Rope length
	Max. axle loads		Hook block (capacity-sheaves-rope diameter)
	Mechanism		Number of lines
	Tires		Possible load of hook block
	Hook block		Weight of hook block
	Sideways Superlift (SSL)		Distance head sheave axle – hook ground
	Hoist		Number of sheaves in boom head
	Dolly		Supporting force
	Travel speed		Length of stroke (support cylinders)
	Gradeability – road %		Payload incl. rear storage box
	Counterweight tailswing radius		Removable outrigger box rear

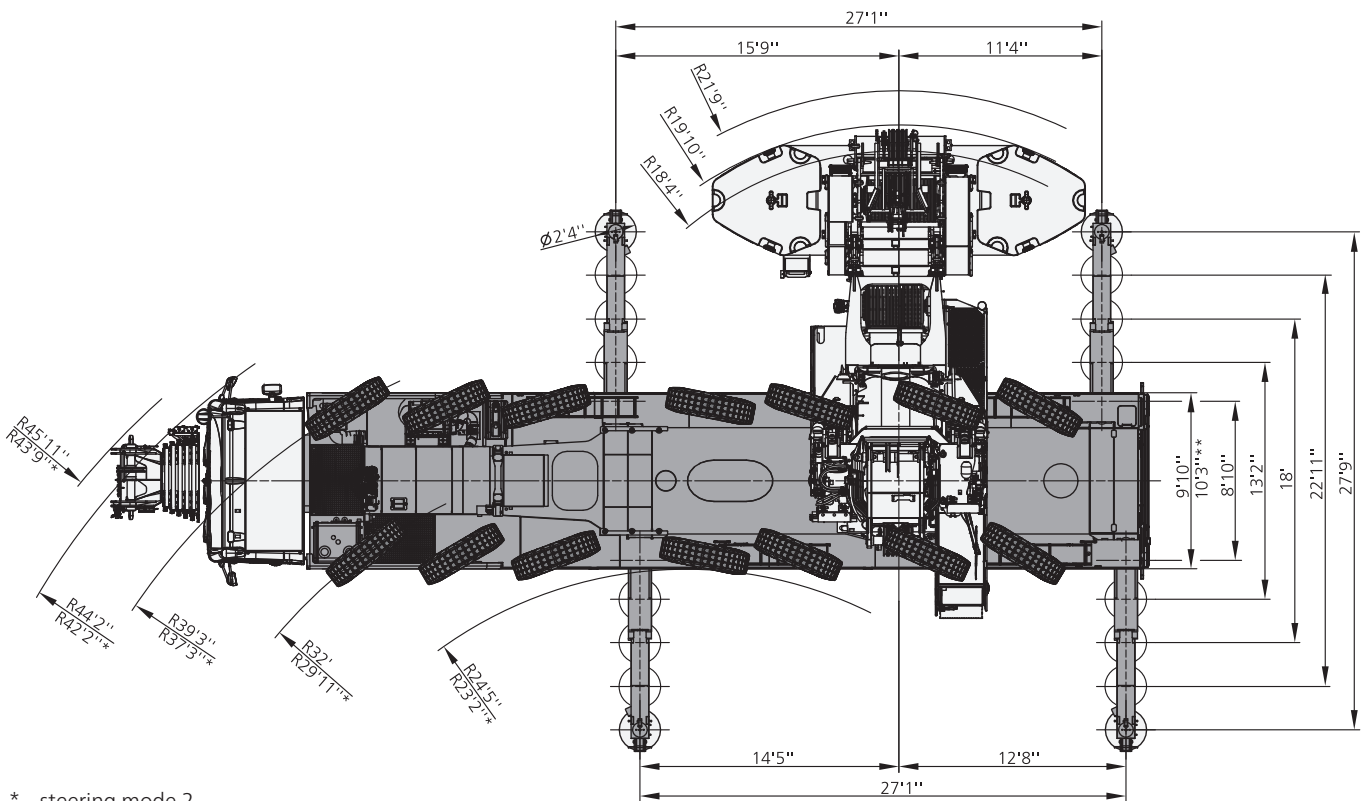
Dimensions

AC 450-7



⊙ 445/95 R25 / 525/80 R25

* ⊙ 385/95 R25



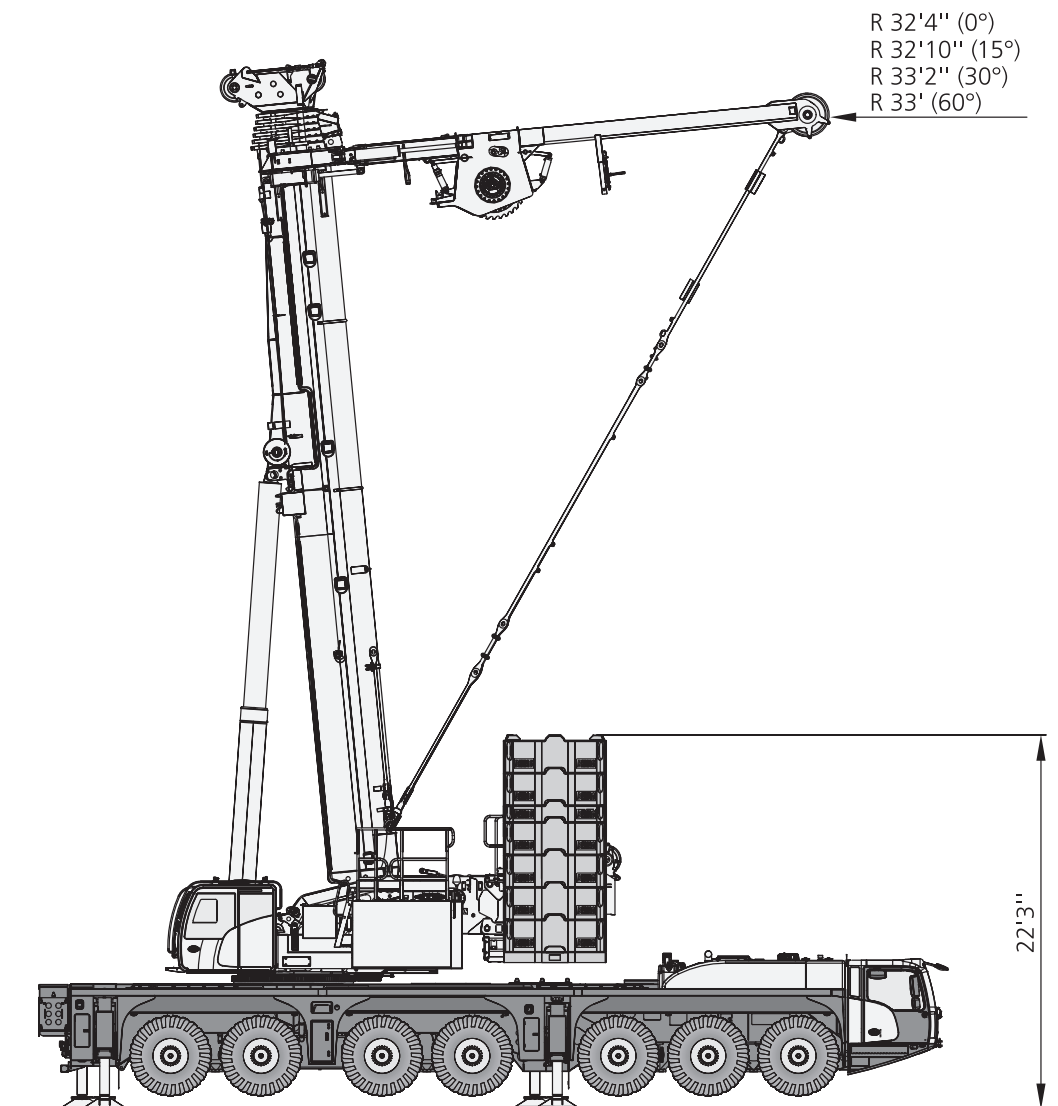
* steering mode 2

** ⊙ 525/80 R25

see page 8

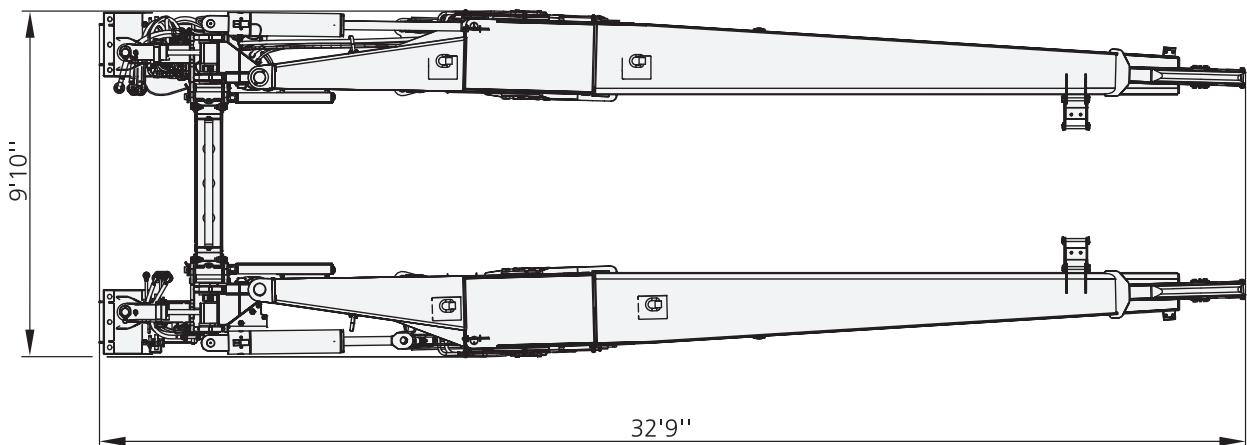
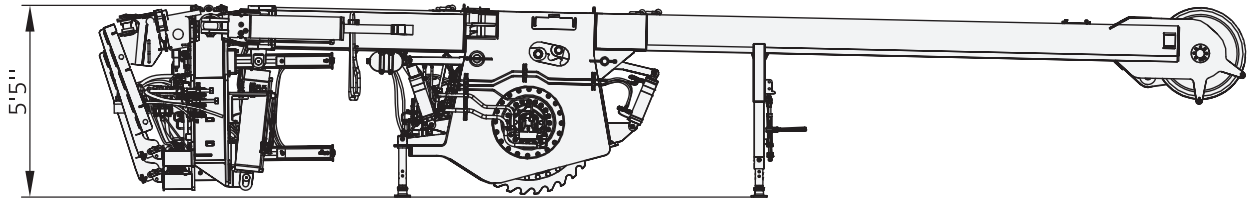
Dimensions

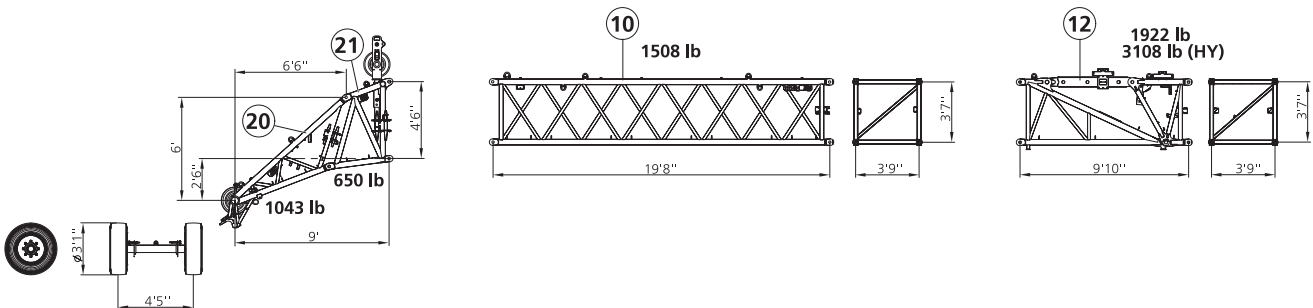
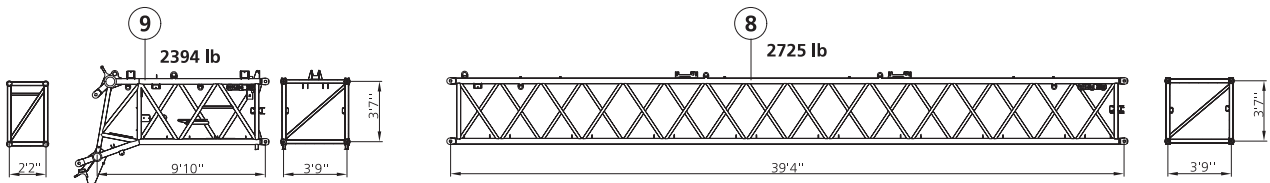
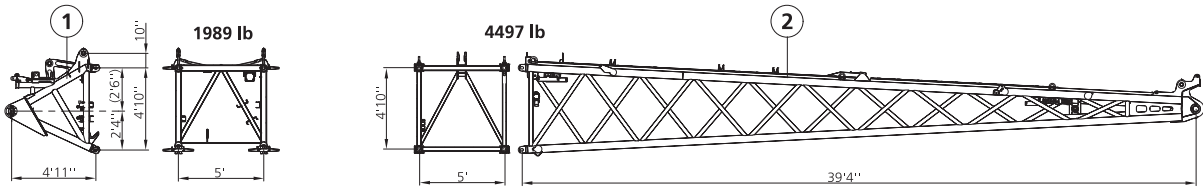
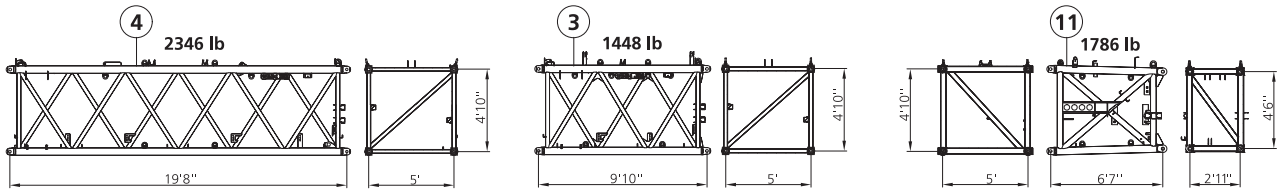
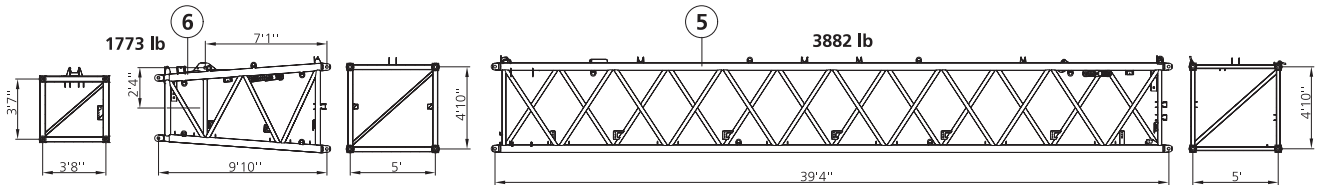
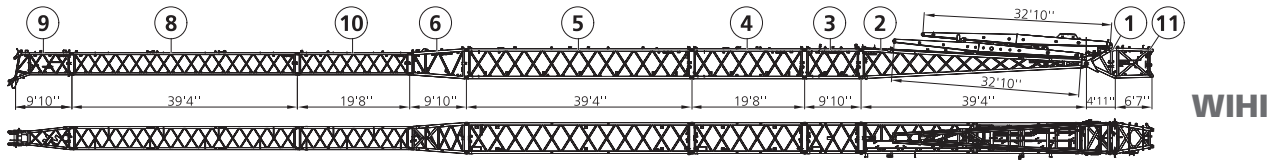
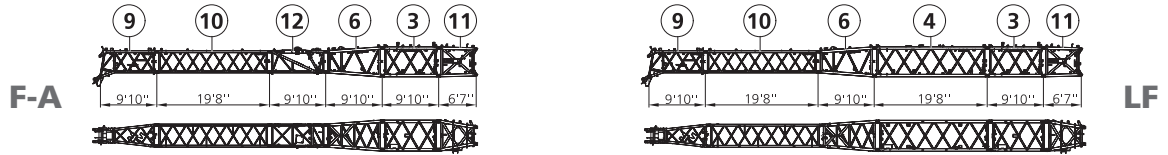
AC 450-7



Sideways Superlift (SSL)











Weight:
26,700 lb










Specifications


AC 450-7

									
	Total								
< 20,000 lb	On request and technical verification								X
< 20,000 lb	< 106,000 lb	14 x 8 x 14	525/80R25 (AI)	–	–	–	–*	–	–
< 27,500 lb	< 191,000 lb	14 x 8 x 14	525/80R25 (AI)	262.5 ft	80-3-23	–	X*	–	–
< 26,500 lb	< 185,200 lb	14 x 8 x 14	385/95R25	262.5 ft	40-1-23	–	n/a	1,430 lb	–
< 26,500 lb	< 185,200 lb	14 x 8 x 14	445/95R25 (AI)	262.5 ft	80-3-23 Vario	–	n/a	0,770 lb	–
< 26,500 lb	< 185,200 lb	14 x 8 x 14	445/95R25	262.5 ft	12-0-24	–	n/a	–	–
< 36,400 lb	< 224,900 lb	14 x 8 x 14	445/95R25	262.5 ft	80-3-23	X	n/a	9,920 lb	–




* special carrier variant with removable outrigger box rear











	1 Road		4* Crab steer mode
	2* Minimum turning radius < 12.4 mph		5* All wheel steering
	3* Off-wall		

*must be activated

		
308,700 lb	324,100 lb	52.8 mph ¹⁾
	23.6"	26"

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

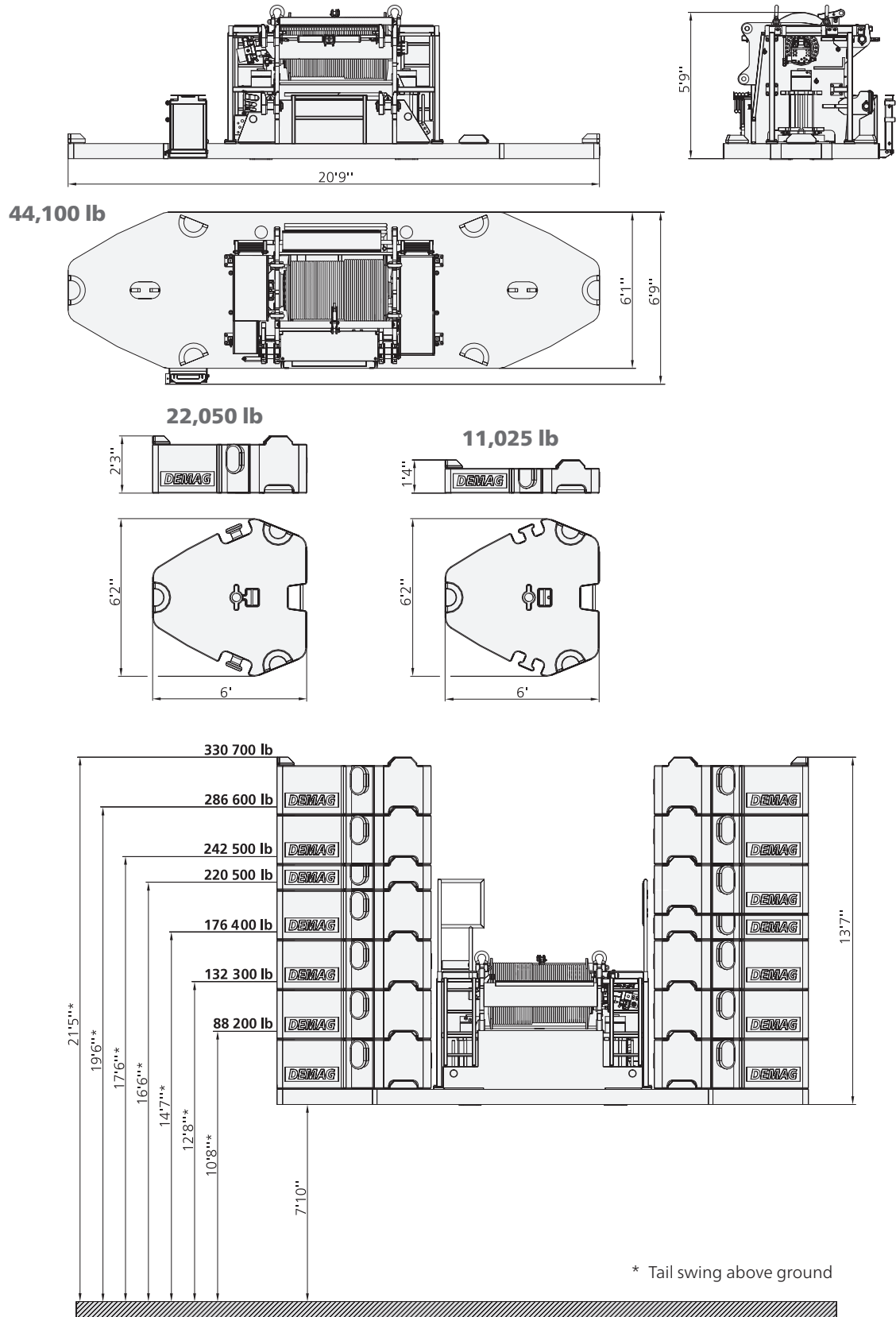
			
	385 / 95 R25 14.00 R25	445 / 95 R25 16.00 R25	525 / 80 R25 20.50 R25
	46 %	41 %	41 %

				
				
	426.5 ft/min	26,078 lbf	0.92"	1427 ft
	426.5 ft/min	26,078 lbf	0.92"	1854 ft
	1,0 min ⁻¹			
	660 s (48.6 - 262.5 ft)			
	60 s (0° - 84°)			

					
1	23,600	12-0-24	6	1,100	6.6 ft
2	47,400	40-1-23	6	1,980	8.9 ft
3	71,000	40-1-23	6	1,980	8.9 ft
4	94,800	80-3-23	6	2,650	9.8 ft
5	118,400	80-3-23	6	2,650	9.8 ft
6	142,200	80-3-23	6	2,650	9.8 ft
7	165,800	80-3-23	6	2,650	9.8 ft
8	189,600	125-5-23	6	3,100	9.8 ft
9	213,200	125-5-23	6	3,100	9.8 ft
10	236,800	125-5-23	6	3,100	9.8 ft
11	260,600	125-5-23	6	3,100	9.8 ft
12	284,200	160-7-23	6	4,190	9.8 ft
13	308,000	160-7-23	6 + 3	4,190	9.8 ft
14	331,600	160-7-23	6 + 3	4,190	9.8 ft
15	355,400	200-9-23	6 + 3	4,410	9.8 ft
16	379,000	200-9-23	6 + 3	4,410	9.8 ft
17	402,800	200-9-23	6 + 3	4,410	9.8 ft
18	426,400	200-9-23	6 + 3	4,410	9.8 ft

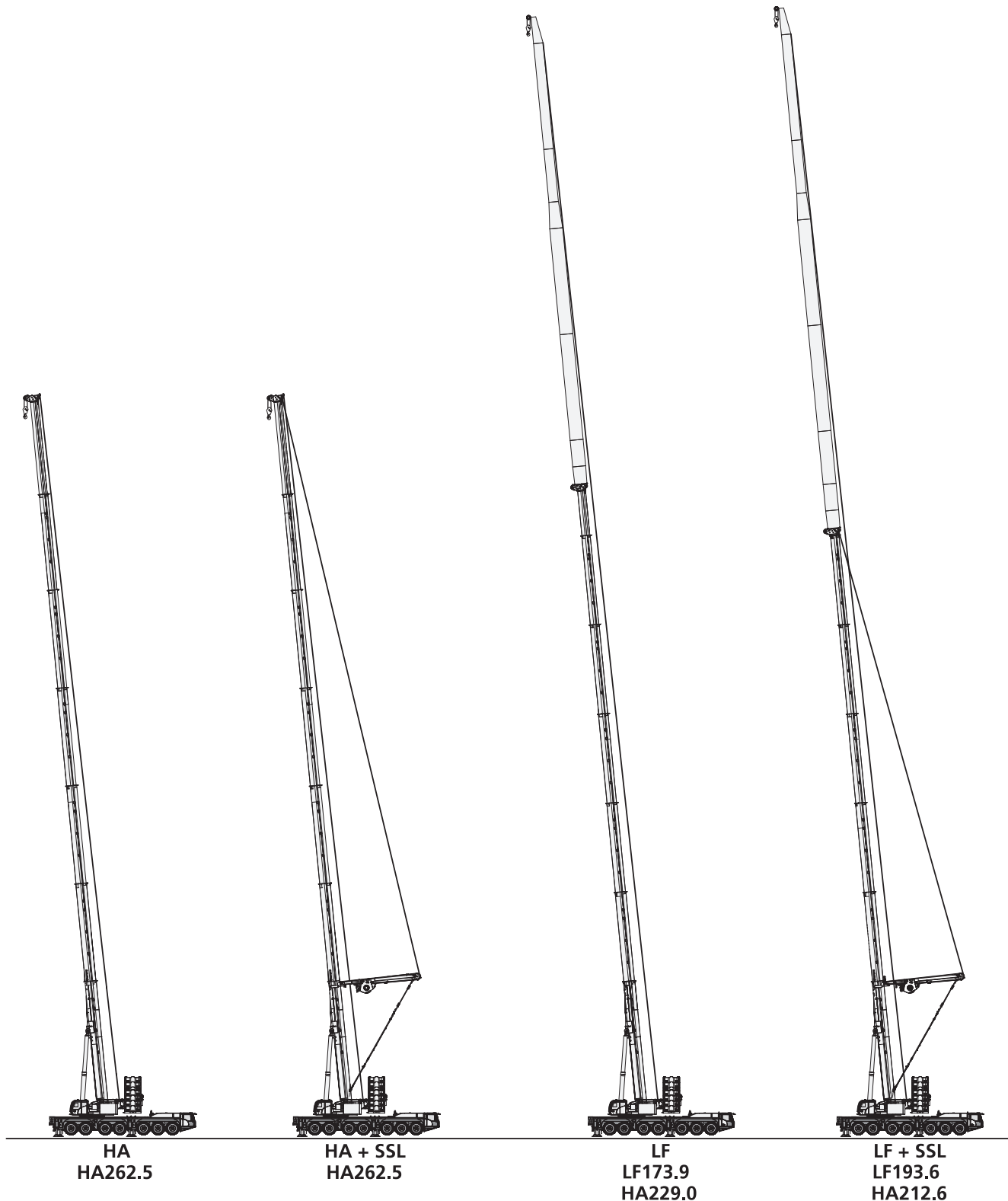
Counterweight

AC 450-7



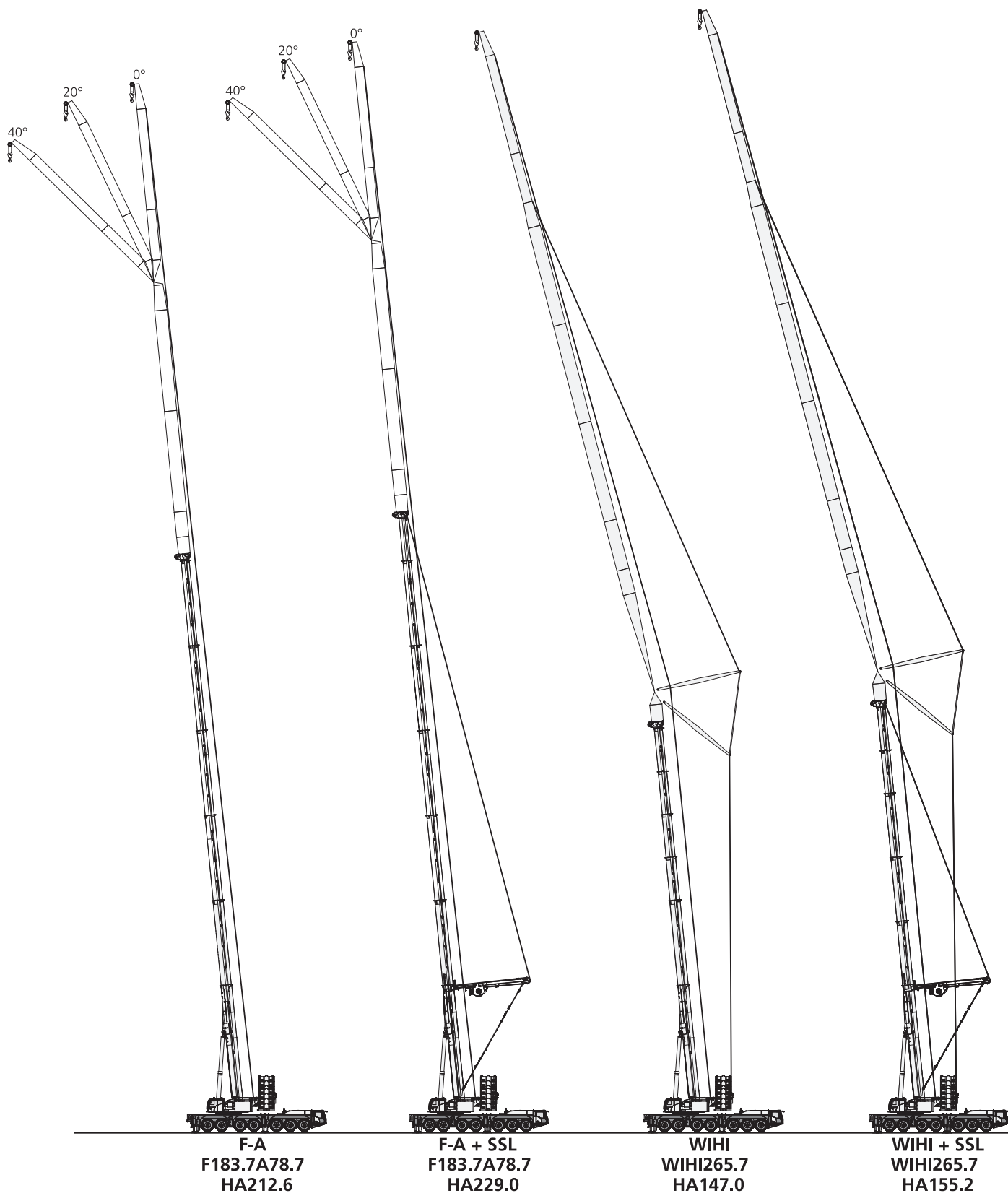
Boom Combinations

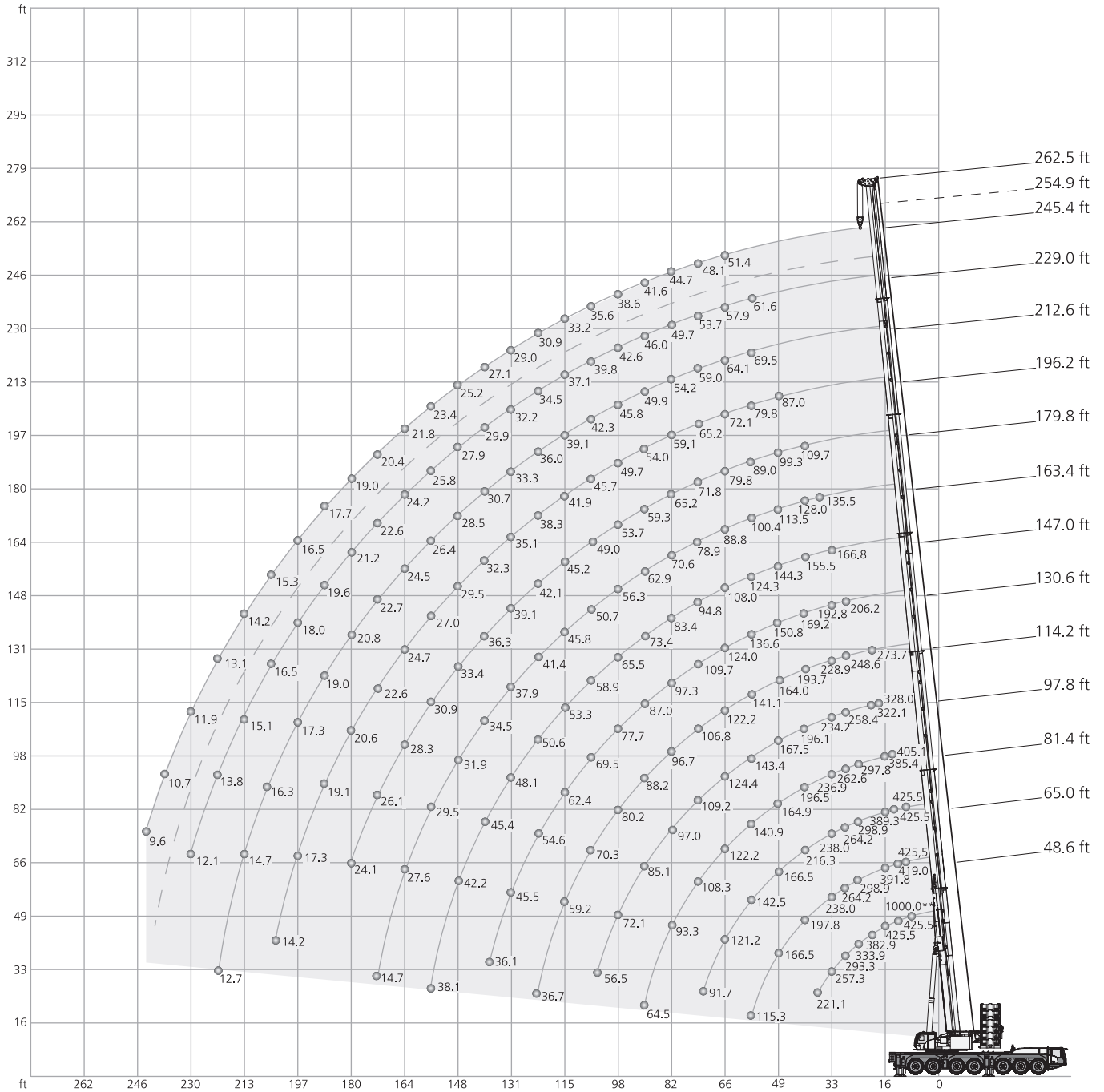
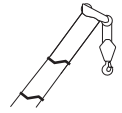
AC 450-7



Boom Combinations

AC 450-7






** Capacity class

330,700 lb		18.4 ft (STD)				27.0 ft x 27.7 ft				360°				ASME B30.5				
0°		(ft)																
48.6*		48.6	65.0	81.4	97.8	114.2	130.6	147.0	163.4	179.8	196.2	212.6	229.0	245.4	254.9	262.5	1,000 lb	
ft																		ft
8	1000.0**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
10	425.5 ²⁾	425.5 ²⁾	425.5 ²⁾	425.5 ²⁾	-	-	-	-	-	-	-	-	-	-	-	-	-	10
12	425.5 ²⁾	425.5 ²⁾	425.5 ²⁾	425.5 ²⁾	-	-	-	-	-	-	-	-	-	-	-	-	-	12
14	425.5 ²⁾	416.1 ²⁾	419.0 ²⁾	415.5 ²⁾	405.1 ²⁾	-	-	-	-	-	-	-	-	-	-	-	-	14
16	422.2	390.4	391.8	389.3	385.4	-	-	-	-	-	-	-	-	-	-	-	-	16
18	400.2	360.6	362.7	361.1	358.8	328.0	-	-	-	-	-	-	-	-	-	-	-	18
20	374.7	332.7	334.9	334.9	333.8	322.1	273.7	-	-	-	-	-	-	-	-	-	-	20
24	332.4	290.1	292.3	292.3	291.2	285.2	263.6	-	-	-	-	-	-	-	-	-	-	24
28	293.3	255.4	258.2	257.6	256.5	254.3	248.6	206.2	-	-	-	-	-	-	-	-	-	28
32	257.3	227.8	230.3	230.0	228.9	228.9	228.1	192.8	166.8	-	-	-	-	-	-	-	-	32
36	221.1	205.9	208.8	208.8	207.5	209.6	207.7	180.2	155.5	135.5	-	-	-	-	-	-	-	36
40	-	-	188.6	188.6	187.3	189.5	187.5	169.2	144.3	128.0	109.7	-	-	-	-	-	-	40
48	-	-	158.6	158.6	157.2	159.4	157.3	150.8	124.3	113.5	99.3	87.0	-	-	-	-	-	48
56	-	-	115.3	135.7	134.2	136.5	134.3	136.4	108.0	100.4	89.0	79.8	69.5	61.6	57.7	-	-	56
64	-	-	71.2	117.6	119.7	118.3	116.1	118.8	94.8	88.8	79.8	72.1	64.1	57.9	54.9	51.4	51.4	64
72	-	-	-	91.7	105.5	103.7	105.4	104.1	83.4	78.9	71.8	65.2	59.0	53.7	51.4	48.1	48.1	72
80	-	-	-	-	92.2	92.1	94.7	92.3	73.4	70.6	65.2	59.1	54.2	49.7	47.2	44.7	44.7	80
88	-	-	-	-	64.5	82.0	84.7	82.2	65.5	62.9	59.3	54.0	49.9	46.0	43.4	41.6	41.6	88
96	-	-	-	-	-	72.1	75.6	72.9	58.9	56.3	53.7	49.7	45.8	42.6	40.2	38.6	38.6	96
104	-	-	-	-	-	56.5	67.7	64.9	53.3	50.7	49.0	45.7	42.3	39.8	37.2	35.6	35.6	104
112	-	-	-	-	-	-	59.2	58.1	50.6	45.8	45.2	41.9	39.1	37.1	34.7	33.2	33.2	112
120	-	-	-	-	-	-	36.7	52.5	48.1	41.4	42.1	38.3	36.0	34.5	32.3	30.9	30.9	120
128	-	-	-	-	-	-	-	45.4	45.4	37.9	39.1	35.1	33.3	32.2	30.0	29.0	29.0	128
136	-	-	-	-	-	-	-	36.1	42.2	34.5	36.3	32.3	30.7	29.9	27.8	27.1	27.1	136
144	-	-	-	-	-	-	-	17.5	38.1	31.9	33.4	29.5	28.5	27.9	25.9	25.2	25.2	144
152	-	-	-	-	-	-	-	-	28.0	29.5	30.9	27.0	26.4	25.8	24.0	23.4	23.4	152
160	-	-	-	-	-	-	-	-	24.2	27.6	28.3	24.7	24.5	24.2	22.4	21.8	21.8	160
168	-	-	-	-	-	-	-	-	-	14.7	26.1	22.6	22.7	22.6	20.9	20.4	20.4	168
176	-	-	-	-	-	-	-	-	-	13.8	24.1	20.6	20.8	21.2	19.4	19.0	19.0	176
184	-	-	-	-	-	-	-	-	-	-	-	19.1	19.0	19.6	18.0	17.7	17.7	184
192	-	-	-	-	-	-	-	-	-	-	-	-	17.3	17.3	18.0	16.7	16.5	192
200	-	-	-	-	-	-	-	-	-	-	-	-	14.2	16.3	16.5	15.5	15.3	200
208	-	-	-	-	-	-	-	-	-	-	-	-	11.2	14.7	15.1	14.2	14.2	208
216	-	-	-	-	-	-	-	-	-	-	-	-	10.4	12.7	13.8	12.9	13.1	216
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.1	11.8	11.9	224
232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.6	10.7	232
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3	9.6	240
1)	73.6	73.6	53.4	41.0	32.0	25.6	19.8	15.7	11.2	7.7	4.0	-	-	-	-	-	-	1)

1) Capacities with horizontal boom






2)  308,600 lb

* over rear

** Capacity class

330,700 lb		19.7 ft (XL)				27.0 ft x 27.7 ft				360°				ASME B30.5					
0°		(ft)																	
48.6 *		48.6	65.0	81.4	97.8	114.2	130.6	147.0	163.4	179.8	196.2	212.6	229.0	245.4	254.9	262.5			
ft		1,000 lb																ft	
10	425.5	425.5 ²⁾	425.5 ²⁾	425.5 ²⁾	-	-	-	-	-	-	-	-	-	-	-	-	-	10	
12	425.5	425.5 ²⁾	425.5 ²⁾	425.5 ²⁾	-	-	-	-	-	-	-	-	-	-	-	-	-	12	
14	425.5	417.8 ³⁾	419.0 ³⁾	417.3 ³⁾	405.1 ³⁾	-	-	-	-	-	-	-	-	-	-	-	-	14	
16	425.5	390.4 ³⁾	391.8 ³⁾	389.3 ³⁾	385.4 ³⁾	-	-	-	-	-	-	-	-	-	-	-	-	16	
18	406.7	361.1 ³⁾	362.7 ³⁾	361.1 ³⁾	358.8 ³⁾	328.0 ³⁾	-	-	-	-	-	-	-	-	-	-	-	18	
20	382.9	337.0 ⁴⁾	339.2 ⁴⁾	338.2 ⁴⁾	336.1 ⁴⁾	322.1 ⁴⁾	273.7 ⁴⁾	-	-	-	-	-	-	-	-	-	-	20	
24	333.9	296.7 ⁵⁾	298.9 ⁵⁾	298.9 ⁵⁾	297.8 ⁵⁾	285.6 ⁵⁾	263.6 ⁵⁾	-	-	-	-	-	-	-	-	-	-	24	
28	293.3	261.5 ⁵⁾	264.2 ⁵⁾	264.2 ⁵⁾	262.6 ⁵⁾	258.4 ⁵⁾	248.6 ⁵⁾	206.2 ⁵⁾	-	-	-	-	-	-	-	-	-	28	
32	257.3	235.8 ⁶⁾	238.0 ⁶⁾	238.0 ⁶⁾	236.9 ⁶⁾	234.2 ⁶⁾	228.9 ⁶⁾	192.8 ⁶⁾	166.8 ⁶⁾	-	-	-	-	-	-	-	-	32	
36	221.1	213.7 ⁶⁾	216.3 ⁶⁾	216.3 ⁶⁾	215.0 ⁶⁾	212.8 ⁶⁾	211.4 ⁶⁾	180.2 ⁶⁾	155.5 ⁶⁾	135.5 ⁶⁾	-	-	-	-	-	-	-	36	
40	-	-	197.8	197.8	196.5	196.1	193.7	169.2	144.3	128.0	109.7	-	-	-	-	-	-	40	
48	-	-	166.5	166.5	164.9	167.5	164.0	150.8	124.3	113.5	99.3	87.0	-	-	-	-	-	48	
56	-	-	115.3	142.5	140.9	143.4	141.1	136.6	108.0	100.4	89.0	79.8	69.5	61.6	57.7	-	-	56	
64	-	-	71.2	121.2	122.2	124.4	122.2	124.0	94.8	88.8	79.8	72.1	64.1	57.9	54.9	51.4	-	64	
72	-	-	-	91.7	108.3	109.2	106.8	109.7	83.4	78.9	71.8	65.2	59.0	53.7	51.4	48.1	-	72	
80	-	-	-	-	93.3	97.0	96.7	97.3	73.4	70.6	65.2	59.1	54.2	49.7	47.2	44.7	-	80	
88	-	-	-	-	64.5	85.1	88.8	87.0	65.5	62.9	59.3	54.0	49.9	46.0	43.4	41.6	-	88	
96	-	-	-	-	-	72.1	80.2	77.7	58.9	56.3	53.7	49.7	45.8	42.6	40.2	38.6	-	96	
104	-	-	-	-	-	56.5	70.3	69.5	53.3	50.7	49.0	45.7	42.3	39.8	37.2	35.6	-	104	
112	-	-	-	-	-	-	59.2	62.4	50.6	45.8	45.2	41.9	39.1	37.1	34.7	33.2	-	112	
120	-	-	-	-	-	-	36.7	54.6	48.1	41.4	42.1	38.3	36.0	34.5	32.3	30.9	-	120	
128	-	-	-	-	-	-	-	45.5	45.4	37.9	39.1	35.1	33.3	32.2	30.0	29.0	-	128	
136	-	-	-	-	-	-	-	36.1	42.2	34.5	36.3	32.3	30.7	29.9	27.8	27.1	-	136	
144	-	-	-	-	-	-	-	17.5	38.1	31.9	33.4	29.5	28.5	27.9	25.9	25.2	-	144	
152	-	-	-	-	-	-	-	-	28.0	29.5	30.9	27.0	26.4	25.8	24.0	23.4	-	152	
160	-	-	-	-	-	-	-	-	24.2	27.6	28.3	24.7	24.5	24.2	22.4	21.8	-	160	
168	-	-	-	-	-	-	-	-	-	14.7	26.1	22.6	22.7	22.6	20.9	20.4	-	168	
176	-	-	-	-	-	-	-	-	-	13.8	24.1	20.6	20.8	21.2	19.4	19.0	-	176	
184	-	-	-	-	-	-	-	-	-	-	-	19.1	19.0	19.6	18.0	17.7	-	184	
192	-	-	-	-	-	-	-	-	-	-	-	17.3	17.3	18.0	16.7	16.5	-	192	
200	-	-	-	-	-	-	-	-	-	-	-	14.2	16.3	16.5	15.5	15.3	-	200	
208	-	-	-	-	-	-	-	-	-	-	-	11.2	14.7	15.1	14.2	14.2	-	208	
216	-	-	-	-	-	-	-	-	-	-	-	10.4	12.7	13.8	12.9	13.1	-	216	
224	-	-	-	-	-	-	-	-	-	-	-	-	-	12.1	11.8	11.9	-	224	
232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.6	10.7	-	232	
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3	9.6	-	240	
1)	73.6	73.6 ⁶⁾	53.4	41.0	32.0	25.6	19.8	15.7	11.2	7.7	4.0	-	-	-	-	-	-	1)	


1) Capacities with horizontal boom


- 2)  220,500 lb
- 3)  242,500 lb
- 4)  264,600 lb
- 5)  286,600 lb
- 6)  308,600 lb

* over rear

264,600 lb		19.7 ft (XL)		27.0 ft x 27.7 ft		360°		ASME B30.5													
0°		(ft)																			
48.6 *		48.6	65.0	81.4	97.8	114.2	130.6	147.0	163.4	179.8	196.2	212.6	229.0	245.4	254.9	262.5					
ft		1,000 lb																		ft	
10	425.5	425.5 ²⁾	425.5 ²⁾	425.5 ²⁾	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10		
12	425.5	425.5 ²⁾	425.5 ²⁾	425.5 ²⁾	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12		
14	425.5	417.8 ³⁾	419.0 ³⁾	417.3 ³⁾	405.1 ³⁾	-	-	-	-	-	-	-	-	-	-	-	-	-	14		
16	425.5	390.4 ³⁾	391.8 ³⁾	389.3 ³⁾	385.4 ³⁾	-	-	-	-	-	-	-	-	-	-	-	-	-	16		
18	406.7	361.1 ³⁾	362.7 ³⁾	361.1 ³⁾	358.8 ³⁾	328.0 ³⁾	-	-	-	-	-	-	-	-	-	-	-	-	18		
20	382.9	337.0	339.2	338.2	336.1	322.1	273.7	-	-	-	-	-	-	-	-	-	-	-	20		
24	333.9	293.4	295.6	295.6	294.5	285.6	263.6	-	-	-	-	-	-	-	-	-	-	-	24		
28	293.3	258.7	260.9	260.9	259.8	256.6	248.6	206.2	-	-	-	-	-	-	-	-	-	-	28		
32	257.3	230.3	233.3	233.3	231.4	230.0	228.9	192.8	166.8	-	-	-	-	-	-	-	-	-	32		
36	221.1	208.6	211.4	211.4	209.9	211.1	210.1	180.2	155.5	135.5	-	-	-	-	-	-	-	-	36		
40	-	-	191.0	191.0	189.5	191.9	189.7	169.2	144.3	128.0	109.7	-	-	-	-	-	-	-	40		
48	-	-	160.6	160.6	159.3	161.5	159.3	150.8	124.3	113.5	99.3	87.0	-	-	-	-	-	-	48		
56	-	-	115.3	136.3	134.7	137.1	134.9	136.4	108.0	100.4	89.0	79.8	69.5	61.6	57.7	-	-	-	56		
64	-	-	71.2	115.4	118.1	116.3	115.9	116.9	94.8	88.8	79.8	72.1	64.1	57.9	54.9	51.4	-	-	64		
72	-	-	-	91.7	101.3	99.6	102.6	100.0	83.4	78.9	71.8	65.2	59.0	53.7	51.4	48.1	-	-	72		
80	-	-	-	-	88.1	87.9	89.7	87.1	73.4	70.6	65.2	59.1	54.2	49.7	47.2	44.7	-	-	80		
88	-	-	-	-	64.5	80.3	79.1	76.3	65.5	62.9	59.3	54.0	49.9	46.0	43.4	41.6	-	-	88		
96	-	-	-	-	-	72.1	70.2	67.5	58.9	56.3	53.7	49.7	45.8	42.6	40.2	38.6	-	-	96		
104	-	-	-	-	-	56.5	62.6	60.0	53.3	50.7	49.0	45.7	42.3	39.8	37.2	35.6	-	-	104		
112	-	-	-	-	-	-	56.1	53.5	50.6	45.8	45.2	41.9	39.1	37.1	34.7	33.2	-	-	112		
120	-	-	-	-	-	-	36.7	48.2	48.1	41.4	42.1	38.3	36.0	34.5	32.3	30.9	-	-	120		
128	-	-	-	-	-	-	-	43.3	45.2	37.9	39.1	35.1	33.3	32.2	30.0	29.0	-	-	128		
136	-	-	-	-	-	-	-	36.1	41.5	34.5	36.3	32.3	30.7	29.9	27.8	27.1	-	-	136		
144	-	-	-	-	-	-	-	17.5	37.6	31.9	33.4	29.5	28.5	27.9	25.9	25.2	-	-	144		
152	-	-	-	-	-	-	-	-	28.0	29.5	30.9	27.0	26.4	25.8	24.0	23.4	-	-	152		
160	-	-	-	-	-	-	-	-	24.2	27.6	28.3	24.7	24.5	24.2	22.4	21.8	-	-	160		
168	-	-	-	-	-	-	-	-	-	14.7	26.0	22.6	22.7	22.6	20.9	20.4	-	-	168		
176	-	-	-	-	-	-	-	-	-	13.8	23.7	20.6	20.8	21.2	19.4	19.0	-	-	176		
184	-	-	-	-	-	-	-	-	-	-	-	19.1	19.0	19.6	18.0	17.7	-	-	184		
192	-	-	-	-	-	-	-	-	-	-	-	17.3	17.3	18.0	16.7	16.5	-	-	192		
200	-	-	-	-	-	-	-	-	-	-	-	14.2	16.3	16.5	15.5	15.3	-	-	200		
208	-	-	-	-	-	-	-	-	-	-	-	11.2	14.7	15.0	14.2	14.2	-	-	208		
216	-	-	-	-	-	-	-	-	-	-	-	10.4	12.7	13.5	12.9	13.1	-	-	216		
224	-	-	-	-	-	-	-	-	-	-	-	-	-	11.8	11.5	11.6	-	-	224		
232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.2	10.2	-	232		
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.8	8.8	-	240		
1)	73.6	73.6	53.4	41.0	32.0	25.6	19.8	15.7	11.2	7.7	4.0	-	-	-	-	-	-	-	1)		

1) Capacities with horizontal boom

2)  220,500 lb

3)  242,500 lb

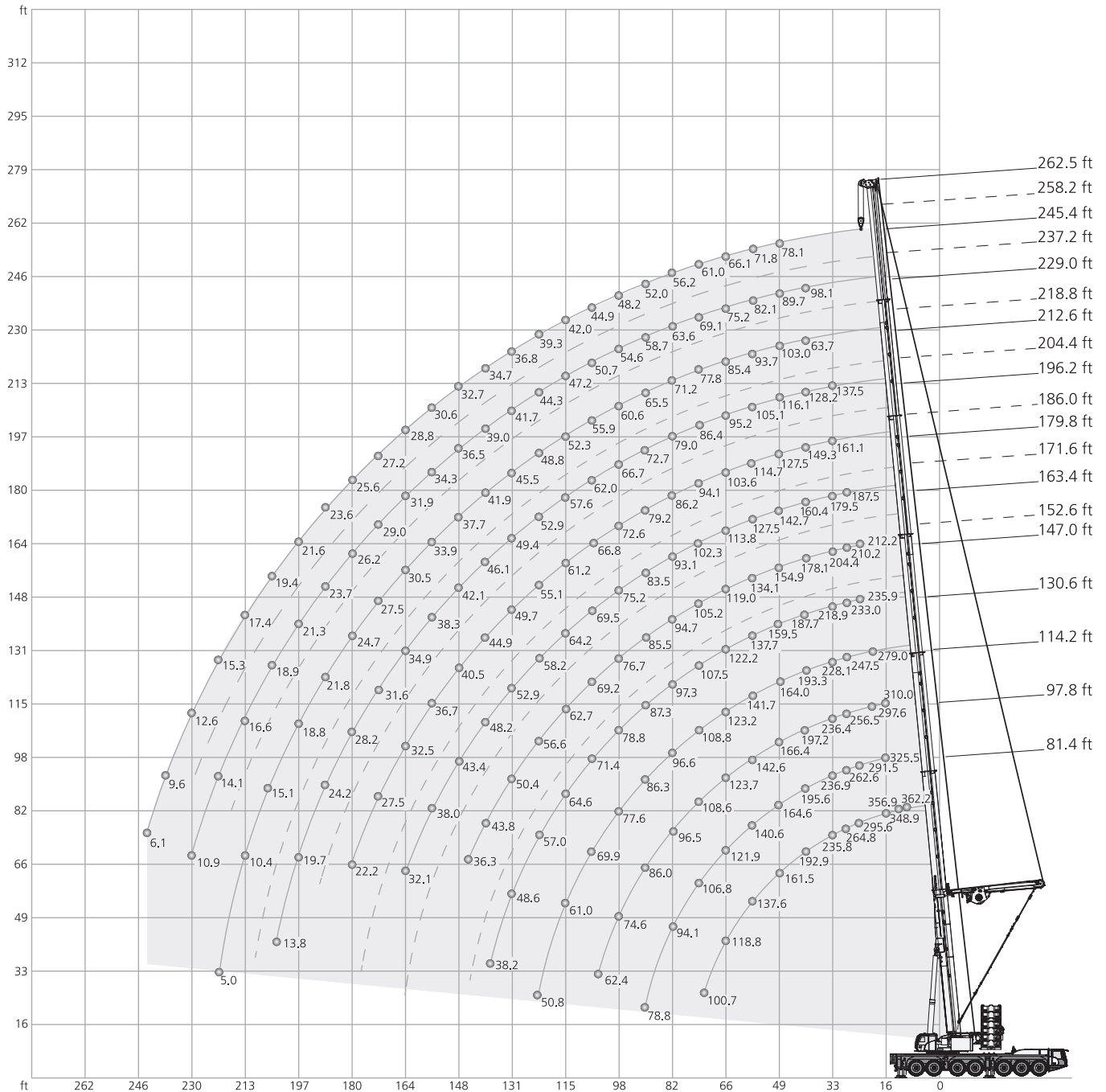
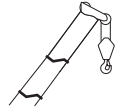
* over rear









132,300 lb		19.7 ft (XL)					27.0 ft x 27.7 ft					360°				ASME B30.5	
							(ft)										
							1,000 lb										
ft	48.6	65.0	81.4	97.8	114.2	130.6	147.0	163.4	179.8	196.2	212.6	229.0	245.4	254.9	262.5	ft	
10	425.5	425.5	425.5	-	-	-	-	-	-	-	-	-	-	-	-	10	
12	423.4	423.8	423.1	-	-	-	-	-	-	-	-	-	-	-	-	12	
14	402.4	404.1	402.5	396.8	-	-	-	-	-	-	-	-	-	-	-	14	
16	368.1	370.3	370.3	369.2	-	-	-	-	-	-	-	-	-	-	-	16	
18	340.1	342.3	342.3	341.2	323.7	-	-	-	-	-	-	-	-	-	-	18	
20	314.1	316.4	316.3	315.2	313.1	273.7	-	-	-	-	-	-	-	-	-	20	
24	272.8	276.1	275.4	273.9	274.2	262.6	-	-	-	-	-	-	-	-	-	24	
28	234.7	238.1	238.1	235.9	239.2	236.5	206.2	-	-	-	-	-	-	-	-	28	
32	199.4	203.1	203.1	205.9	204.2	201.6	192.8	166.8	-	-	-	-	-	-	-	32	
36	173.8	179.4	177.8	180.6	178.9	174.5	171.4	155.5	135.5	-	-	-	-	-	-	36	
40	-	156.8	158.3	157.9	156.1	159.0	148.0	138.6	127.8	109.7	-	-	-	-	-	40	
48	-	119.2	120.9	120.3	124.9	122.1	115.1	109.4	103.2	98.7	87.0	-	-	-	-	48	
56	-	93.1	93.3	96.8	95.7	93.0	91.5	87.4	85.5	82.8	79.1	69.5	61.6	57.7	-	56	
64	-	71.2	76.7	77.1	76.0	73.6	73.6	73.4	69.1	70.2	64.8	63.7	57.9	54.9	51.4	64	
72	-	-	62.7	63.1	62.0	61.6	62.4	61.3	58.9	57.4	57.7	53.8	53.7	51.4	48.1	72	
80	-	-	-	52.7	51.6	54.4	52.2	50.9	49.6	50.2	48.2	48.4	46.2	44.9	44.2	80	
88	-	-	-	44.9	46.6	46.1	45.3	43.0	43.2	42.4	42.9	41.6	38.9	37.5	37.5	88	
96	-	-	-	-	40.9	39.6	38.8	38.5	36.9	37.8	37.1	34.8	32.4	31.1	31.1	96	
104	-	-	-	-	35.7	34.1	33.8	33.1	33.3	32.9	31.5	29.1	27.1	26.0	26.0	104	
112	-	-	-	-	-	29.5	30.8	29.0	29.3	28.0	26.7	24.2	22.3	21.6	21.6	112	
120	-	-	-	-	-	22.4	26.7	26.4	25.9	24.0	22.8	20.3	18.4	17.8	17.9	120	
128	-	-	-	-	-	-	23.4	23.4	22.5	20.5	19.4	17.0	15.0	14.6	14.6	128	
136	-	-	-	-	-	-	21.0	20.4	19.6	17.6	16.3	13.9	11.9	11.7	11.8	136	
144	-	-	-	-	-	-	17.5	17.8	17.1	14.9	13.6	11.4	9.4	9.1	9.2	144	
152	-	-	-	-	-	-	-	10.7	14.7	12.7	11.4	9.2	7.0	6.8	7.0	152	
160	-	-	-	-	-	-	-	8.8	12.6	10.7	9.3	7.1	-	-	-	160	
168	-	-	-	-	-	-	-	-	10.9	8.9	7.6	-	-	-	-	168	
176	-	-	-	-	-	-	-	-	9.3	7.3	6.0	-	-	-	-	176	
1)	73.6	53.4	41.0	32.0	25.6	19.8	15.7	11.2	7.7	4.0	-	-	-	-	-	1)	

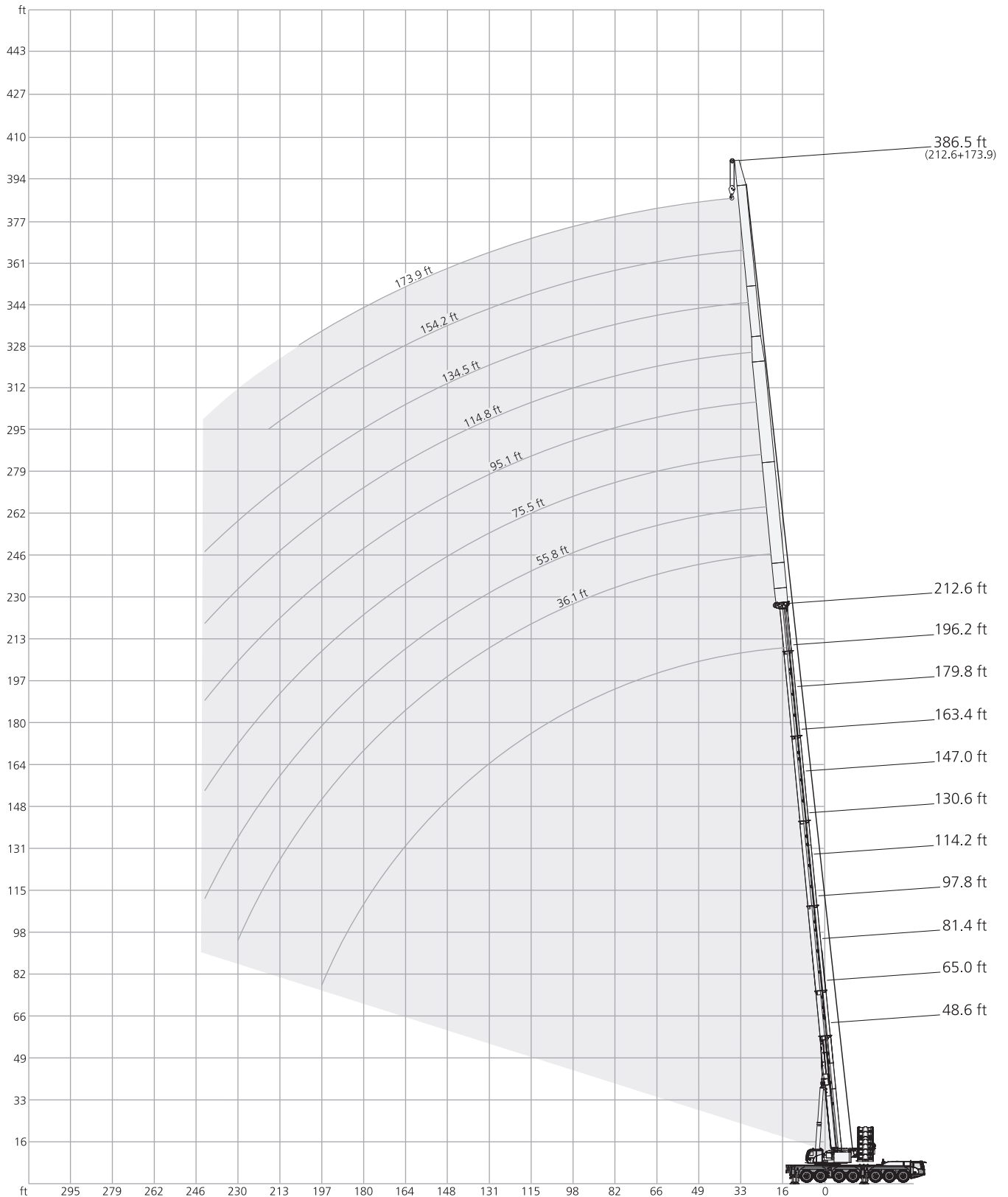
1) Capacities with horizontal boom

44,100 lb		19.7 ft (XL)				27.0 ft x 27.7 ft				360°				ASME B30.5		
		(ft)														
		1,000 lb														
ft	48.6	65.0	81.4	97.8	114.2	130.6	147.0	163.4	179.8	196.2	212.6	229.0	245.4	254.9	262.5	ft
10	425.5	425.5	425.5	-	-	-	-	-	-	-	-	-	-	-	-	10
12	417.1	417.8	417.8	-	-	-	-	-	-	-	-	-	-	-	-	12
14	383.7	385.9	385.9	384.2	-	-	-	-	-	-	-	-	-	-	-	14
16	351.3	353.5	353.5	345.4	-	-	-	-	-	-	-	-	-	-	-	16
18	315.0	317.8	317.2	297.1	273.3	-	-	-	-	-	-	-	-	-	-	18
20	278.7	282.1	278.8	259.6	229.8	215.6	-	-	-	-	-	-	-	-	-	20
24	220.5	224.8	208.8	191.7	181.3	164.0	151.8	-	-	-	-	-	-	-	-	24
28	160.7	167.2	158.9	154.3	142.5	132.4	124.7	113.8	-	-	-	-	-	-	-	28
32	114.0	127.2	130.5	124.4	115.7	111.6	105.9	99.1	90.9	-	-	-	-	-	-	32
36	88.5	103.9	104.8	102.5	98.5	96.2	90.6	85.7	83.7	-	-	-	-	-	-	36
40	-	81.8	82.2	83.1	86.5	81.2	76.9	76.1	71.8	66.6	-	-	-	-	-	40
48	-	56.5	59.7	61.4	61.5	62.2	61.5	58.3	55.2	50.9	47.2	42.5	-	-	-	48
56	-	40.9	43.7	45.5	47.0	47.0	47.5	45.5	43.1	39.4	36.1	31.7	27.7	25.7	-	56
64	-	30.2	32.8	34.6	36.6	36.1	36.3	35.0	33.3	29.8	26.9	22.7	18.7	17.2	17.0	64
72	-	-	24.9	26.6	28.6	28.0	28.4	26.8	25.5	22.4	19.8	15.8	12.3	10.7	10.5	72
80	-	-	-	20.6	22.6	21.9	22.1	20.8	19.7	16.9	14.5	10.8	7.3	-	-	80
88	-	-	-	16.1	17.7	17.2	17.4	16.0	15.2	12.5	10.2	6.8	-	-	-	88
96	-	-	-	-	13.8	13.4	13.6	12.1	11.4	8.9	6.8	-	-	-	-	96
104	-	-	-	-	10.9	10.3	10.3	9.0	8.3	6.1	-	-	-	-	-	104
112	-	-	-	-	-	7.6	7.8	6.3	-	-	-	-	-	-	-	112
120	-	-	-	-	-	-	5.7	-	-	-	-	-	-	-	-	120
1)	69.4	33.3	24.7	14.3	10.4	4.6	-	-	-	-	-	-	-	-	-	1)

1) Capacities with horizontal boom



 132,300 lb		 19.7 ft (XL)		 27.0 ft x 27.7 ft		360°		ASME B30.5		
										
						(ft)				
						1,000 lb				
ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	
10	362.2	-	-	-	-	-	-	-	-	10
12	356.9	-	-	-	-	-	-	-	-	12
14	352.1	331.1	-	-	-	-	-	-	-	14
16	348.9	325.2	310.0	-	-	-	-	-	-	16
18	328.0	316.0	303.8	-	-	-	-	-	-	18
20	309.7	305.4	296.3	279.0	-	-	-	-	-	20
24	271.0	271.0	267.7	262.8	235.9	213.2	212.2	-	-	24
28	236.6	239.4	238.3	236.6	228.8	213.2	210.2	189.6	187.5	28
30	220.0	223.3	225.5	223.5	218.9	210.1	204.1	188.2	184.4	30
32	203.7	207.3	209.2	208.5	202.7	197.8	192.8	183.3	179.0	32
34	189.9	193.6	195.8	195.2	192.9	185.9	183.5	176.1	170.4	34
36	177.8	181.4	183.6	183.0	181.3	175.1	172.0	167.0	160.9	36
40	154.7	158.2	160.4	160.7	162.0	159.9	154.5	152.8	145.5	40
48	121.0	124.9	127.4	127.6	129.0	128.8	122.2	121.2	120.5	48
56	92.5	97.1	100.0	100.0	101.8	102.2	97.6	97.9	98.0	56
64	72.0	76.2	78.9	78.9	80.7	81.1	77.6	78.7	79.6	64
72	57.2	61.4	63.8	63.8	65.4	65.8	62.5	63.6	64.5	72
80	-	50.4	52.8	52.8	54.3	54.6	51.5	52.4	53.4	80
88	-	41.7	44.1	44.0	45.4	45.9	42.6	43.6	44.6	88
96	-	34.6	36.9	36.6	38.2	38.6	35.1	36.2	37.3	96
104	-	-	31.1	30.7	32.0	32.5	29.1	30.1	31.2	104
112	-	-	-	25.6	27.1	27.5	24.0	25.1	26.0	112
120	-	-	-	21.6	22.9	23.4	19.8	20.7	21.8	120
128	-	-	-	18.2	19.4	19.7	16.3	17.2	18.2	128
136	-	-	-	-	16.3	16.7	13.2	14.1	15.0	136
144	-	-	-	-	-	14.2	10.7	11.4	12.2	144
152	-	-	-	-	-	-	9.2	9.9	10.3	152
160	-	-	-	-	-	-	7.2	8.0	8.1	160
168	-	-	-	-	-	-	-	6.3	-	168
176	-	-	-	-	-	-	-	4.6	-	176



179.8 ft		19.7 ft (XL)			27.0 ft x 27.7 ft			360°		ASME B30.5	
ft	36.1 ft	55.8 ft	75.5 ft	95.1 ft	114.8 ft	134.5 ft	154.2 ft	173.9 ft	193.6 ft	ft	
1,000 lb											
48	85.1	68.7	-	-	-	-	-	-	-	48	
56	77.7	65.6	52.7	43.4	-	-	-	-	-	56	
64	70.1	61.7	50.0	41.1	34.8	-	-	-	-	64	
72	63.0	57.0	47.2	38.6	32.9	27.8	22.3	-	-	72	
80	57.1	52.1	44.6	36.3	30.8	26.4	21.0	17.5	-	80	
88	51.8	47.5	42.0	34.1	28.9	24.8	19.9	16.6	-	88	
96	47.4	43.3	39.5	32.1	27.2	23.2	18.8	15.7	-	96	
104	43.3	39.7	36.9	30.4	25.6	21.8	17.8	14.7	-	104	
112	39.3	36.4	34.2	28.8	24.2	20.4	16.7	13.8	-	112	
120	35.8	33.5	31.6	27.2	22.8	19.4	15.6	13.0	-	120	
128	32.5	30.6	29.2	25.6	21.6	18.3	14.7	12.2	-	128	
136	29.5	27.9	26.8	24.0	20.7	17.2	13.8	11.4	-	136	
144	26.6	25.5	24.6	22.3	19.7	16.4	13.0	10.8	-	144	
152	23.9	23.3	22.5	20.9	18.8	15.5	12.2	10.1	-	152	
160	21.6	21.1	20.7	19.4	17.8	14.7	11.5	9.5	-	160	
168	19.5	19.1	19.0	18.0	16.9	13.9	10.9	8.9	-	168	
176	17.5	17.2	17.2	16.5	15.8	13.1	10.2	8.3	-	176	
184	15.6	15.5	15.7	15.2	14.7	12.4	9.7	7.7	-	184	
192	13.5	13.8	14.2	13.8	13.6	11.7	9.1	7.2	-	192	
200	10.5	12.2	12.8	12.5	12.4	10.9	8.6	6.6	-	200	
208	-	10.7	11.3	11.2	11.3	10.2	8.0	6.2	-	208	
216	-	9.3	9.8	10.0	10.2	9.5	7.3	5.8	-	216	
224	-	-	8.6	8.8	9.1	8.9	6.8	5.4	-	224	
232	-	-	-	7.6	8.1	8.1	6.2	-	-	232	
240	-	-	-	6.5	7.0	7.2	5.5	-	-	240	
248	-	-	-	5.5	6.0	6.2	-	-	-	248	

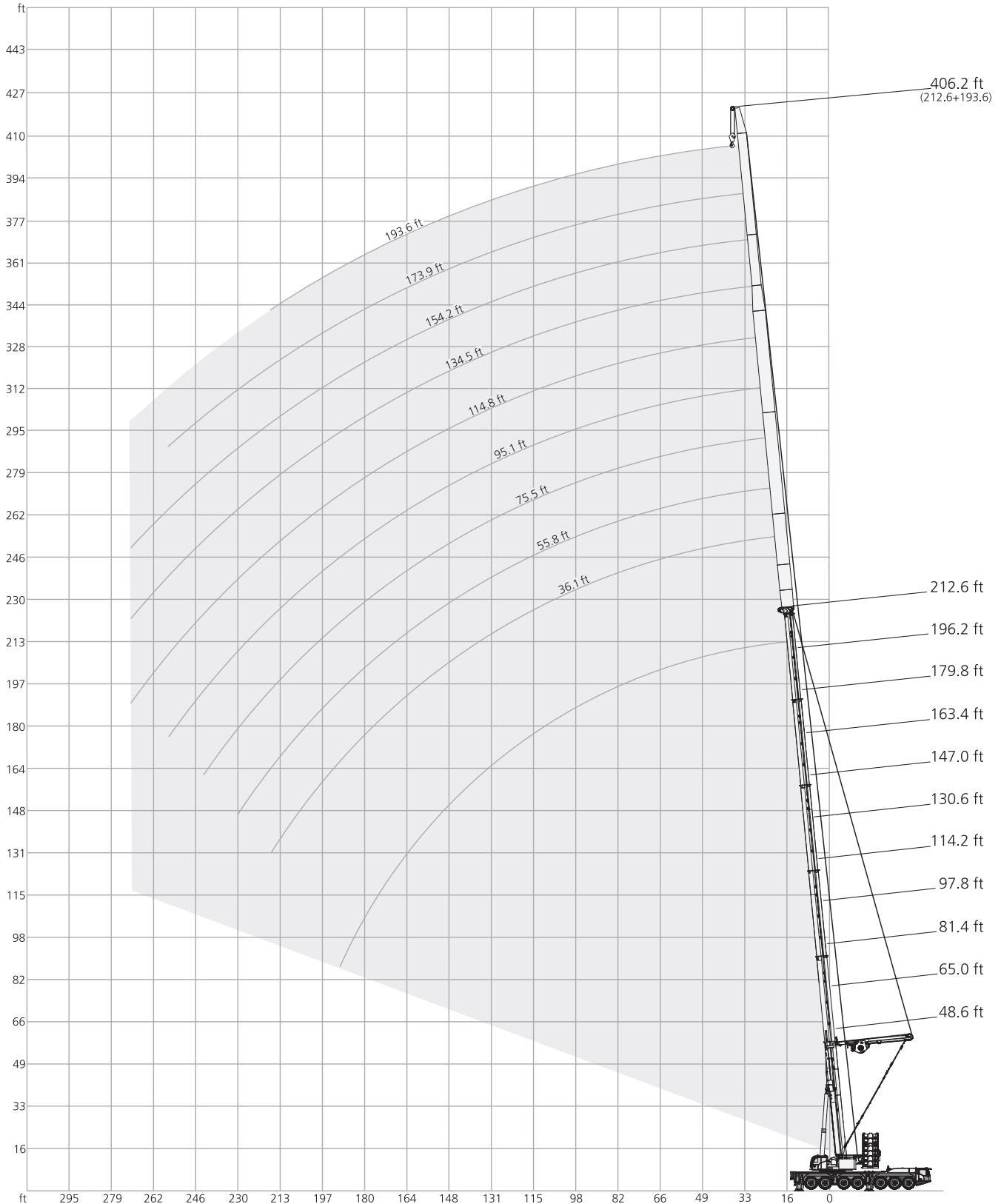
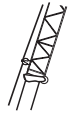
- 88,200 lb
- 110,200 lb
- 132,300 lb
- 154,350 lb
- 176,400 lb
- 198,400 lb
- 220,500 lb
- 242,500 lb
- 264,600 lb
- 286,600 lb

212.6 ft		19.7 ft (XL)			27.0 ft x 27.7 ft			360°		ASME B30.5	
ft	36.1 ft	55.8 ft	75.5 ft	95.1 ft	114.8 ft	134.5 ft	154.2 ft	173.9 ft	193.6 ft	ft	
1,000 lb											
56	55.9	-	-	-	-	-	-	-	-	56	
64	53.7	45.7	-	-	-	-	-	-	-	64	
72	49.7	43.0	37.7	30.6	-	-	-	-	-	72	
80	45.7	40.1	35.6	30.6	24.5	18.7	-	-	-	80	
88	42.0	36.8	33.0	29.5	24.2	18.7	16.7	-	-	88	
96	38.7	33.9	30.5	27.3	23.1	18.7	16.3	13.6	-	96	
104	35.6	31.4	28.1	25.2	21.6	18.6	15.7	13.1	-	104	
112	32.9	29.0	26.1	23.3	20.0	17.8	15.2	12.5	-	112	
120	30.3	26.8	24.2	21.7	18.4	16.7	14.4	12.0	-	120	
128	27.9	24.8	22.6	20.2	17.1	15.4	13.4	11.3	-	128	
136	25.6	22.9	21.1	18.7	15.9	14.4	12.4	10.5	-	136	
144	23.5	21.2	19.7	17.5	14.8	13.3	11.5	9.9	-	144	
152	21.6	19.4	18.3	16.2	13.7	12.2	10.5	9.2	-	152	
160	19.8	17.9	16.8	15.1	12.8	11.3	9.7	8.3	-	160	
168	18.2	16.5	15.5	14.0	11.9	10.5	8.9	7.6	-	168	
176	16.7	15.2	14.3	12.9	10.9	9.8	8.1	6.9	-	176	
184	15.3	14.0	13.2	12.0	10.2	9.1	7.5	6.3	-	184	
192	13.8	12.7	12.1	11.1	9.5	8.5	6.9	5.6	-	192	
200	12.3	11.5	11.0	10.3	8.7	7.8	6.4	5.1	-	200	
208	10.8	10.3	10.0	9.4	8.0	7.2	5.9	-	-	208	
216	9.4	9.1	9.1	8.4	7.3	6.6	5.3	-	-	216	
224	8.1	7.9	8.0	7.5	6.6	6.0	-	-	-	224	
232	-	6.7	7.0	6.6	6.0	5.3	-	-	-	232	
240	-	5.7	5.9	5.8	5.3	4.6	-	-	-	240	

- 88,200 lb
- 110,200 lb
- 132,300 lb
- 154,350 lb
- 176,400 lb
- 198,400 lb
- 220,500 lb
- 242,500 lb
- 264,600 lb
- 286,600 lb

245.4 ft		19.7 ft (XL)		27.0 ft x 27.7 ft		360°		ASME B30.5		
ft	36.1 ft	55.8 ft	75.5 ft	95.1 ft	114.8 ft	134.5 ft	154.2 ft	173.9 ft	193.6 ft	ft
1,000 lb										
64	37.1	-	-	-	-	-	-	-	-	64
72	36.6	29.3	-	-	-	-	-	-	-	72
80	35.1	29.1	22.7	18.5	15.2	-	-	-	-	80
88	32.5	27.5	22.3	18.5	15.2	-	-	-	-	88
96	30.2	25.5	20.8	18.0	15.2	12.6	8.2	-	-	96
104	28.0	23.8	19.3	16.7	14.8	12.6	8.2	-	-	104
112	26.1	22.2	18.0	15.6	13.8	12.3	8.2	-	-	112
120	24.3	20.6	16.7	14.5	12.8	11.2	8.2	-	-	120
128	22.7	19.3	15.6	13.4	11.8	10.2	8.2	-	-	128
136	21.2	18.1	14.6	12.5	11.0	9.4	7.7	-	-	136
144	19.9	17.0	13.7	11.5	10.2	8.6	7.1	-	-	144
152	18.8	15.9	12.9	10.7	9.4	8.0	6.3	-	-	152
160	17.4	14.9	12.1	10.1	8.8	7.3	5.8	-	-	160
168	16.2	13.9	11.3	9.4	8.1	6.8	5.2	-	-	168
176	15.1	12.9	10.5	8.9	7.6	6.3	4.7	-	-	176
184	14.1	12.0	9.8	8.2	7.0	5.7	-	-	-	184
192	13.0	11.1	9.1	7.6	6.5	5.2	-	-	-	192
200	11.9	10.3	8.4	7.1	6.1	4.8	-	-	-	200
208	10.9	9.5	7.8	6.5	5.6	-	-	-	-	208
216	10.0	8.7	7.1	6.0	5.1	-	-	-	-	216
224	9.0	7.8	6.6	5.5	-	-	-	-	-	224
232	8.1	7.0	6.0	-	-	-	-	-	-	232
240	7.0	6.2	5.3	-	-	-	-	-	-	240
248	6.0	5.4	-	-	-	-	-	-	-	248

88,200 lb	110,200 lb	132,300 lb	154,350 lb	176,400 lb	198,400 lb	220,500 lb	242,500 lb	264,600 lb	286,600 lb
-----------	------------	------------	------------	------------	------------	------------	------------	------------	------------



179.8 ft		19.7 ft (XL)			27.0 ft x 27.7 ft			360°		ASME B30.5	
ft	36.1 ft	55.8 ft	75.5 ft	95.1 ft	114.8 ft	134.5 ft	154.2 ft	173.9 ft	193.6 ft	ft	
1,000 lb											
34	126.5	-	-	-	-	-	-	-	-	34	
36	124.1	-	-	-	-	-	-	-	-	36	
40	119.4	91.2	72.9	-	-	-	-	-	-	40	
48	109.1	84.3	67.1	55.7	-	-	-	-	-	48	
56	98.0	78.1	61.8	51.2	43.0	36.8	-	-	-	56	
64	88.1	72.5	57.3	47.3	39.7	34.1	29.6	-	-	64	
72	79.3	67.8	53.2	43.7	36.7	31.4	27.2	22.3	-	72	
80	72.6	63.2	49.5	40.6	34.0	29.2	25.1	20.7	17.4	80	
88	65.9	58.6	46.5	37.9	31.7	27.1	23.3	19.2	16.2	88	
96	59.8	54.1	43.9	35.5	29.7	25.3	21.7	17.8	15.0	96	
104	54.4	49.7	41.5	33.5	27.8	23.6	20.0	16.5	13.8	104	
112	49.8	45.9	39.1	31.4	26.4	22.2	18.7	15.4	12.7	112	
120	46.1	42.4	36.8	29.6	24.8	20.9	17.6	14.3	11.9	120	
128	42.8	39.1	34.6	28.0	23.3	19.7	16.5	13.2	10.9	128	
136	38.7	36.3	32.6	26.4	21.9	18.5	15.5	12.3	10.1	136	
144	34.4	33.6	30.7	25.0	20.8	17.5	14.6	11.5	9.3	144	
152	30.6	31.2	28.8	23.9	19.7	16.4	13.6	10.7	8.5	152	
160	27.2	28.3	27.0	22.8	18.6	15.5	12.8	10.1	8.0	160	
168	24.1	25.3	25.2	21.8	17.7	14.7	11.9	9.4	7.4	168	
176	21.2	22.5	23.4	20.9	16.9	14.0	11.1	8.9	6.7	176	
184	17.2	20.0	21.1	19.8	16.2	13.3	10.6	8.4	6.2	184	
192	12.7	17.4	18.7	18.6	15.5	12.6	10.0	7.8	5.6	192	
200	7.2	14.2	16.6	17.2	14.8	12.0	9.3	7.3	5.2	200	
208	-	10.5	14.3	15.5	14.2	11.4	8.8	6.7	4.8	208	
216	-	6.4	11.8	13.6	13.5	10.8	8.4	6.2	4.4	216	
224	-	-	8.8	11.7	12.6	10.4	7.9	5.8	-	224	
232	-	-	-	9.6	11.5	10.0	7.4	5.4	-	232	
240	-	-	-	7.1	10.0	9.4	7.1	5.0	-	240	
248	-	-	-	-	8.1	8.6	6.8	-	-	248	
256	-	-	-	-	-	7.7	6.4	-	-	256	
264	-	-	-	-	-	5.9	6.0	-	-	264	

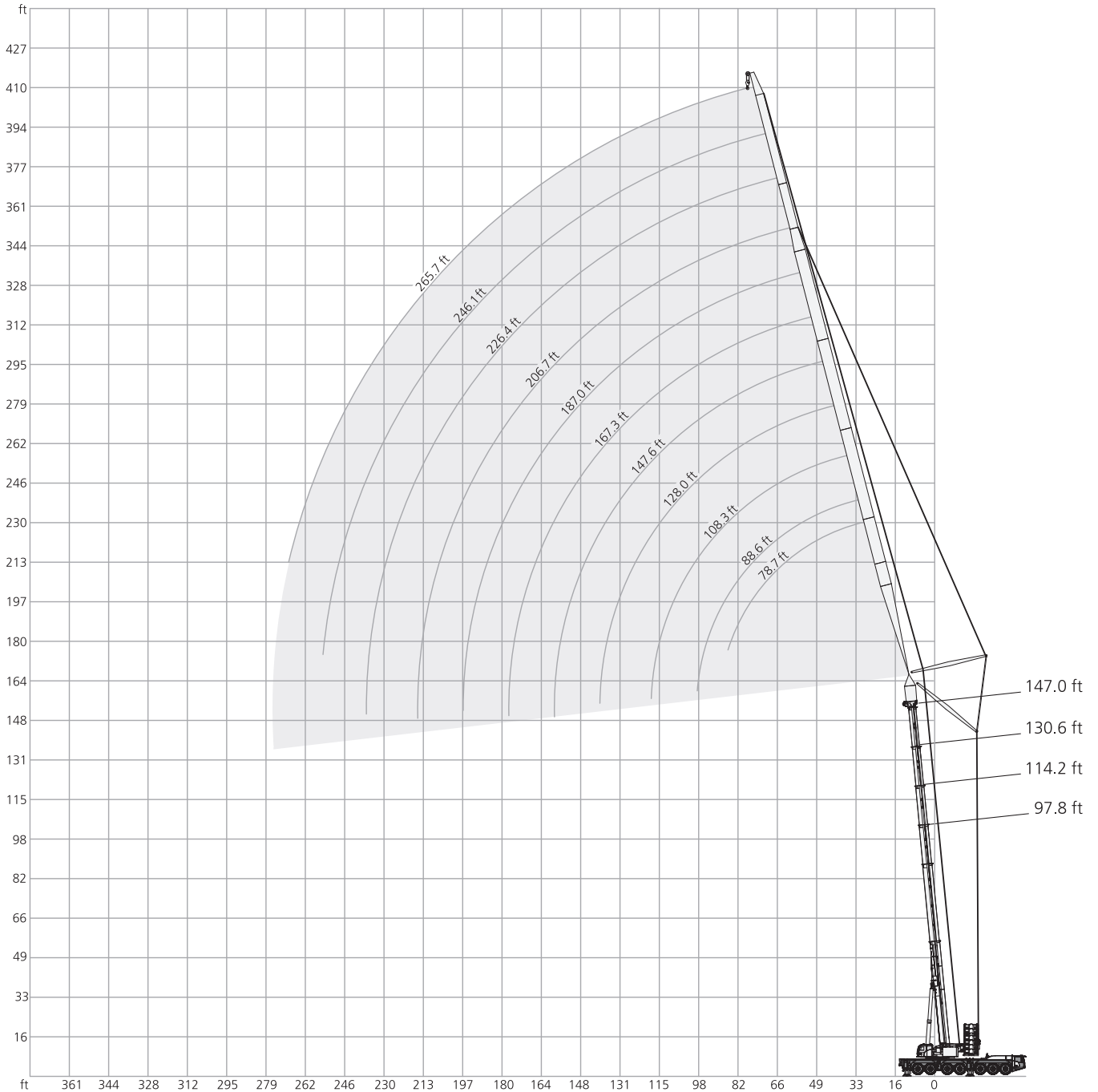
132,300 lb 154,350 lb 176,400 lb 198,400 lb 220,500 lb 242,500 lb 264,600 lb 286,600 lb 308,600 lb 330,700 lb

212.6 ft		19.7 ft (XL)			27.0 ft x 27.7 ft			360°		ASME B30.5	
ft	36.1 ft	55.8 ft	75.5 ft	95.1 ft	114.8 ft	134.5 ft	154.2 ft	173.9 ft	193.6 ft	ft	
1,000 lb											
40	95.3	-	-	-	-	-	-	-	-	40	
48	87.5	74.6	-	-	-	-	-	-	-	48	
56	79.8	69.5	56.4	46.2	-	-	-	-	-	56	
64	72.6	64.1	53.1	43.3	36.7	-	-	-	-	64	
72	66.1	58.8	50.1	40.6	34.4	29.4	-	-	-	72	
80	60.4	54.0	47.2	38.2	32.3	27.5	22.5	19.0	-	80	
88	55.4	49.5	44.3	36.1	30.5	25.9	21.1	17.9	14.7	88	
96	51.1	45.6	41.5	33.9	28.6	24.3	19.7	16.9	13.9	96	
104	47.0	42.1	38.5	32.2	26.9	22.9	18.5	15.8	12.9	104	
112	43.0	38.9	35.8	30.5	25.5	21.5	17.4	14.7	12.1	112	
120	39.6	35.9	33.3	28.7	24.2	20.2	16.3	13.7	11.3	120	
128	36.7	33.1	30.7	27.1	23.1	19.2	15.4	12.9	10.6	128	
136	34.1	30.5	28.5	25.3	22.1	18.3	14.5	12.1	9.9	136	
144	31.6	28.3	26.3	23.7	21.0	17.5	13.7	11.3	9.1	144	
152	29.5	26.4	24.4	22.3	20.1	16.6	12.9	10.7	8.5	152	
160	27.6	24.6	22.6	20.7	19.1	15.8	12.2	10.0	8.0	160	
168	25.5	23.0	21.2	19.4	18.0	15.0	11.6	9.4	7.5	168	
176	23.1	21.4	19.8	18.1	16.9	14.2	11.1	8.9	6.9	176	
184	20.6	20.1	18.5	16.8	16.0	13.4	10.6	8.4	6.4	184	
192	18.3	18.7	17.2	15.6	15.0	12.6	10.0	7.8	5.9	192	
200	16.1	16.6	16.1	14.4	13.9	12.0	9.5	7.3	5.5	200	
208	13.5	14.7	14.8	13.4	12.8	11.3	9.0	6.8	5.0	208	
216	10.6	12.9	13.3	12.6	11.8	10.6	8.4	6.4	4.4	216	
224	-	10.7	11.7	11.8	10.9	10.0	7.9	6.1	-	224	
232	-	-	10.1	10.8	10.2	9.3	7.3	5.8	-	232	
240	-	-	8.3	9.3	9.5	8.6	6.8	5.4	-	240	
248	-	-	-	7.9	8.6	8.0	6.3	5.0	-	248	
256	-	-	-	-	7.5	7.5	5.7	-	-	256	
264	-	-	-	-	6.3	6.4	5.2	-	-	264	
272	-	-	-	-	-	-	-	-	-	272	
280	-	-	-	-	-	-	-	-	-	280	

132,300 lb 154,350 lb 176,400 lb 198,400 lb 220,500 lb 242,500 lb 264,600 lb 286,600 lb 308,600 lb 330,700 lb

245.4 ft		19.7 ft (XL)			27.0 ft x 27.7 ft			360°		ASME B30.5	
ft	36.1 ft	55.8 ft	75.5 ft	95.1 ft	114.8 ft	134.5 ft	154.2 ft	173.9 ft	193.6 ft	ft	
	1,000 lb										
48	63.2	-	-	-	-	-	-	-	-	48	
56	59.6	48.1	-	-	-	-	-	-	-	56	
64	54.9	45.2	38.4	-	-	-	-	-	-	64	
72	50.6	42.0	35.8	30.7	-	-	-	-	-	72	
80	46.6	39.1	33.4	28.4	22.7	18.5	-	-	-	80	
88	42.9	36.6	31.2	26.5	21.3	18.2	13.9	-	-	88	
96	39.7	34.0	29.1	24.7	19.7	17.1	13.9	-	-	96	
104	36.9	31.6	27.1	23.1	18.2	15.8	13.1	-	-	104	
112	34.3	29.2	25.7	21.5	17.1	14.7	12.1	-	-	112	
120	31.8	27.3	24.2	20.2	16.1	13.7	11.2	-	-	120	
128	29.5	25.5	22.7	19.1	15.1	12.9	10.4	-	-	128	
136	27.4	23.6	21.2	17.9	14.3	12.1	9.7	-	-	136	
144	25.4	21.9	19.9	17.0	13.3	11.3	8.9	-	-	144	
152	23.8	20.3	18.6	16.2	12.5	10.5	8.3	-	-	152	
160	22.3	19.0	17.2	15.2	11.9	9.9	7.5	-	-	160	
168	20.9	17.7	16.0	14.3	11.2	9.2	7.1	-	-	168	
176	19.6	16.5	14.9	13.4	10.7	8.7	6.7	-	-	176	
184	18.4	15.5	14.0	12.5	10.0	8.1	6.2	-	-	184	
192	17.2	14.6	13.0	11.7	9.4	7.6	5.6	-	-	192	
200	16.3	13.6	12.1	10.9	8.8	7.2	5.2	-	-	200	
208	15.2	12.8	11.2	10.1	8.3	6.7	-	-	-	208	
216	14.0	12.0	10.4	9.3	7.8	6.2	-	-	-	216	
224	12.4	11.2	9.7	8.5	7.2	5.8	-	-	-	224	
232	10.6	10.3	9.1	7.7	6.6	5.4	-	-	-	232	
240	8.5	9.4	8.4	7.1	6.0	5.0	-	-	-	240	
248	-	7.9	7.7	6.5	5.4	-	-	-	-	248	
256	-	-	7.0	5.9	-	-	-	-	-	256	
264	-	-	5.8	5.3	-	-	-	-	-	264	

132,300 lb	154,350 lb	176,400 lb	198,400 lb	220,500 lb	242,500 lb	264,600 lb	286,600 lb	308,600 lb	330,700 lb
------------	------------	------------	------------	------------	------------	------------	------------	------------	------------



19.7 ft (XL)													360°			ASME B30.5								
97.8 ft																								
78.7 ft													88.6 ft			108.3 ft			128.0 ft					
84° 73° 65°													84° 73° 65°			84° 73° 65°			84° 73° 65°					
ft													1,000 lb									ft		
48	115.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48		
56	113.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56		
64	112.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64		
72	112.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72		
80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80		
88	-	92.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88		
96	-	84.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96		
104	-	78.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104		
112	-	-	67.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	112		
120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120		
128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128		
136	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	136		
144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144		
152	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152		
160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160		

147.6 ft													167.3 ft			187.0 ft			206.7 ft					
84° 73° 65°													84° 73° 65°			84° 73° 65°			84° 73° 65°					
ft													1,000 lb									ft		
56	55.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56		
64	54.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64		
72	53.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72		
80	52.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80		
88	51.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88		
96	50.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96		
104	50.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104		
112	49.8	46.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	112		
120	49.5	45.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120		
128	48.7	44.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128		
136	47.6	43.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	136		
144	44.9	43.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144		
152	-	43.7	40.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152		
160	-	43.7	40.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160		
168	-	43.1	39.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	168		
176	-	-	37.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176		
184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	184		
192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	192		
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200		
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	208		
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216		
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	224		
232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	232		
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240		

- 132,300 lb
- 154,350 lb
- 176,400 lb
- 198,400 lb
- 220,500 lb
- 242,500 lb
- 264,600 lb
- 286,600 lb
- 308,600 lb
- 330,700 lb

		19.7 ft (XL)			360°			ASME B30.5			
97.8 ft		226.4 ft			246.1 ft			265.7 ft			
		84°	73°	65°	84°	73°	65°	84°	73°	65°	
ft	1,000 lb									ft	
80	23.7	-	-	-	-	-	-	-	-	-	80
88	23.4	-	-	19.3	-	-	-	-	-	-	88
96	22.9	-	-	18.9	-	-	-	16.0	-	-	96
104	22.5	-	-	18.6	-	-	-	15.7	-	-	104
112	22.0	-	-	18.1	-	-	-	15.4	-	-	112
120	21.8	-	-	17.8	-	-	-	15.1	-	-	120
128	21.5	-	-	17.4	-	-	-	14.7	-	-	128
136	21.2	-	-	17.0	-	-	-	14.4	-	-	136
144	21.0	-	-	16.8	-	-	-	14.1	-	-	144
152	20.7	19.8	-	16.5	-	-	-	13.9	-	-	152
160	20.6	19.3	-	16.2	15.7	-	-	13.7	-	-	160
168	20.5	19.0	-	16.0	15.3	-	-	13.5	12.9	-	168
176	20.3	19.0	-	15.7	15.0	-	-	13.3	12.6	-	176
184	20.0	18.7	-	15.6	14.8	-	-	13.2	12.3	-	184
192	19.6	18.5	17.8	15.4	14.6	-	-	13.0	12.3	-	192
200	19.2	18.3	17.5	15.0	14.3	-	-	12.9	12.0	-	200
208	18.5	18.3	17.3	14.6	14.2	13.7	-	12.8	11.8	-	208
216	17.7	18.3	17.2	14.1	14.1	13.5	-	12.6	11.7	11.2	216
224	16.7	18.3	17.0	13.9	13.9	13.2	-	12.3	11.5	11.0	224
232	-	18.3	17.0	13.6	13.8	13.0	-	12.0	11.5	10.8	232
240	-	18.1	17.0	13.1	13.7	13.0	-	11.8	11.5	10.6	240
248	-	17.9	17.0	12.8	13.5	13.0	-	11.5	11.5	10.5	248
256	-	-	17.0	-	13.2	13.0	-	11.2	11.5	10.4	256
264	-	-	-	-	13.1	12.9	-	10.5	11.5	10.4	264
272	-	-	-	-	-	12.8	-	-	11.4	10.4	272
280	-	-	-	-	-	12.8	-	-	11.3	10.4	280
288	-	-	-	-	-	-	-	-	11.0	10.4	288
296	-	-	-	-	-	-	-	-	-	10.4	296

132,300 lb 154,350 lb 176,400 lb 198,400 lb 220,500 lb 242,500 lb 264,600 lb 286,600 lb 308,600 lb 330,700 lb

19.7 ft (XL) 360° ASME B30.5													
114.2 ft													
78.7 ft				88.6 ft			108.3 ft			128.0 ft			
84° 73° 65°				84° 73° 65°			84° 73° 65°			84° 73° 65°			
ft	1,000 lb											ft	
56	100.8	-	-	90.2	-	-	-	-	-	60.4	-	-	56
64	99.6	-	-	89.1	-	-	71.9	-	-	59.3	-	-	64
72	99.4	-	-	88.2	-	-	71.0	-	-	58.2	-	-	72
80	99.1	-	-	87.9	-	-	70.2	-	-	57.5	-	-	80
88	-	-	-	87.7	-	-	69.8	-	-	56.9	-	-	88
96	-	83.2	-	-	-	-	69.5	-	-	56.4	-	-	96
104	-	76.8	-	-	75.9	-	69.3	-	-	56.2	-	-	104
112	-	-	-	-	70.7	-	-	62.6	-	56.0	50.9	-	112
120	-	-	-	-	-	-	-	61.9	-	55.7	50.1	-	120
128	-	-	-	-	-	-	-	60.4	-	54.7	49.6	-	128
136	-	-	-	-	-	-	-	56.8	-	-	49.2	-	136
144	-	-	-	-	-	-	-	-	48.0	-	49.2	46.3	144
152	-	-	-	-	-	-	-	-	-	-	48.8	43.7	152
160	-	-	-	-	-	-	-	-	-	-	-	41.1	160
168	-	-	-	-	-	-	-	-	-	-	-	38.7	168

147.6 ft 167.3 ft 187.0 ft 206.7 ft													
84° 73° 65°				84° 73° 65°			84° 73° 65°			84° 73° 65°			
ft	1,000 lb											ft	
64	48.3	-	-	-	-	-	-	-	-	-	-	-	64
72	47.4	-	-	39.3	-	-	33.3	-	-	-	-	-	72
80	46.7	-	-	38.5	-	-	32.8	-	-	26.9	-	-	80
88	46.0	-	-	37.9	-	-	32.2	-	-	26.5	-	-	88
96	45.5	-	-	37.2	-	-	31.7	-	-	26.0	-	-	96
104	45.0	-	-	36.7	-	-	31.2	-	-	25.6	-	-	104
112	44.7	-	-	36.3	-	-	30.8	-	-	25.1	-	-	112
120	44.5	41.7	-	35.9	-	-	30.4	-	-	24.8	-	-	120
128	44.4	41.0	-	35.8	33.8	-	30.1	-	-	24.6	-	-	128
136	44.0	40.5	-	35.6	33.2	-	29.9	28.3	-	24.2	-	-	136
144	43.5	40.1	-	35.3	32.9	-	29.8	27.8	-	24.0	-	-	144
152	-	39.9	-	35.0	32.4	-	29.5	27.5	-	23.8	21.3	-	152
160	-	39.9	37.5	34.3	32.1	-	29.5	27.2	-	23.7	21.1	-	160
168	-	39.9	37.0	32.9	32.0	30.4	29.1	26.8	-	23.5	20.8	-	168
176	-	39.7	35.5	-	32.0	30.0	28.3	26.7	-	23.2	20.5	-	176
184	-	-	33.5	-	32.0	29.8	27.1	26.5	23.8	22.7	20.3	-	184
192	-	-	-	-	32.0	29.5	-	26.5	23.5	22.1	20.1	19.1	192
200	-	-	-	-	-	29.0	-	26.5	23.4	21.3	20.1	19.0	200
208	-	-	-	-	-	27.5	-	26.5	23.4	20.2	20.1	18.8	208
216	-	-	-	-	-	-	-	26.5	23.4	-	20.1	18.5	216
224	-	-	-	-	-	-	-	-	23.3	-	20.1	18.5	224
232	-	-	-	-	-	-	-	-	-	-	20.1	18.5	232
240	-	-	-	-	-	-	-	-	-	-	-	18.5	240
248	-	-	-	-	-	-	-	-	-	-	-	18.5	248

- 132,300 lb
- 154,350 lb
- 176,400 lb
- 198,400 lb
- 220,500 lb
- 242,500 lb
- 264,600 lb
- 286,600 lb
- 308,600 lb
- 330,700 lb

19.7 ft (XL)										360°			ASME B30.5						
114.2 ft										226.4 ft			246.1 ft			265.7 ft			
										84°			73°			65°			
ft										1,000 lb									ft
88	21.6	-	-	17.7	-	-	-	-	-	88									
96	21.3	-	-	17.3	-	-	14.6	-	-	96									
104	20.8	-	-	17.0	-	-	14.4	-	-	104									
112	20.5	-	-	16.5	-	-	14.1	-	-	112									
120	20.2	-	-	16.3	-	-	13.8	-	-	120									
128	20.0	-	-	16.0	-	-	13.6	-	-	128									
136	19.7	-	-	15.7	-	-	13.3	-	-	136									
144	19.4	-	-	15.4	-	-	13.0	-	-	144									
152	19.2	-	-	15.2	-	-	12.8	-	-	152									
160	19.0	18.0	-	15.0	-	-	12.5	-	-	160									
168	19.0	17.7	-	14.9	14.2	-	12.3	-	-	168									
176	18.8	17.5	-	14.6	13.9	-	12.2	11.5	-	176									
184	18.7	17.2	-	14.5	13.7	-	12.1	11.5	-	184									
192	18.5	17.1	-	14.3	13.4	-	11.9	11.2	-	192									
200	18.3	17.0	-	14.0	13.2	-	11.8	10.9	-	200									
208	18.0	16.8	15.9	13.7	13.1	-	11.7	10.8	-	208									
216	17.2	16.8	15.9	13.5	13.0	12.3	11.7	10.6	-	216									
224	16.4	16.8	15.7	13.2	12.8	12.1	11.5	10.6	9.9	224									
232	-	16.8	15.6	12.9	12.8	11.9	11.4	10.4	9.9	232									
240	-	16.8	15.5	12.7	12.8	11.9	11.3	10.4	9.7	240									
248	-	16.8	15.4	12.2	12.6	11.7	11.0	10.4	9.6	248									
256	-	-	15.4	-	12.6	11.7	10.6	10.4	9.5	256									
264	-	-	15.4	-	12.3	11.7	9.9	10.4	9.3	264									
272	-	-	-	-	12.1	11.7	-	10.4	9.3	272									
280	-	-	-	-	-	11.7	-	10.4	9.3	280									
288	-	-	-	-	-	11.7	-	10.4	9.3	288									
296	-	-	-	-	-	-	-	-	9.3	296									
304	-	-	-	-	-	-	-	-	9.3	304									

132,300 lb 154,350 lb 176,400 lb 198,400 lb 220,500 lb 242,500 lb 264,600 lb 286,600 lb 308,600 lb 330,700 lb

19.7 ft (XL) 360° ASME B30.5													
130.6 ft													
78.7 ft				88.6 ft			108.3 ft			128.0 ft			
84° 73° 65°				84° 73° 65°			84° 73° 65°			84° 73° 65°			
ft	1,000 lb											ft	
56	85.5	-	-	76.2	-	-	-	-	-	51.1	-	-	56
64	84.3	-	-	75.2	-	-	-	-	-	50.5	-	-	64
72	83.1	-	-	74.1	-	-	61.1	-	-	49.6	-	-	72
80	82.3	-	-	73.3	-	-	60.3	-	-	49.1	-	-	80
88	-	-	-	72.5	-	-	59.7	-	-	48.5	-	-	88
96	-	-	-	-	-	-	59.0	-	-	47.8	-	-	96
104	-	72.9	-	-	-	-	58.5	-	-	47.2	-	-	104
112	-	-	-	-	66.2	-	-	-	-	46.9	-	-	112
120	-	-	-	-	-	-	-	55.0	-	46.5	44.6	-	120
128	-	-	-	-	-	-	-	54.5	-	46.2	44.2	-	128
136	-	-	-	-	-	-	-	53.8	-	-	43.8	-	136
144	-	-	-	-	-	-	-	-	-	-	43.7	-	144
152	-	-	-	-	-	-	-	-	-	-	43.4	-	152
160	-	-	-	-	-	-	-	-	-	-	-	39.6	160
168	-	-	-	-	-	-	-	-	-	-	-	37.3	168
176	-	-	-	-	-	-	-	-	-	-	-	35.1	176

147.6 ft 167.3 ft 187.0 ft 206.7 ft													
84° 73° 65°				84° 73° 65°			84° 73° 65°			84° 73° 65°			
ft	1,000 lb											ft	
64	42.1	-	-	-	-	-	-	-	-	-	-	-	64
72	41.5	-	-	34.0	-	-	-	-	-	-	-	-	72
80	40.9	-	-	33.5	-	-	28.4	-	-	21.4	-	-	80
88	40.4	-	-	33.1	-	-	27.9	-	-	21.4	-	-	88
96	39.8	-	-	32.6	-	-	27.5	-	-	21.2	-	-	96
104	39.3	-	-	32.2	-	-	27.2	-	-	20.8	-	-	104
112	38.8	-	-	31.7	-	-	26.7	-	-	20.5	-	-	112
120	38.5	-	-	31.5	-	-	26.4	-	-	20.2	-	-	120
128	38.0	36.7	-	31.2	-	-	26.1	-	-	20.0	-	-	128
136	37.8	36.3	-	30.8	29.8	-	25.9	-	-	19.7	-	-	136
144	37.5	35.7	-	30.4	29.3	-	25.6	-	-	19.6	-	-	144
152	-	35.5	-	30.4	29.1	-	25.5	23.3	-	19.4	18.9	-	152
160	-	35.4	-	30.1	28.8	-	25.4	22.8	-	19.1	18.7	-	160
168	-	35.3	33.3	29.8	28.5	-	25.2	22.7	-	19.0	18.6	-	168
176	-	35.3	33.1	-	28.4	-	25.1	22.5	-	19.0	18.3	-	176
184	-	-	32.1	-	28.4	26.7	24.7	22.3	-	18.7	18.1	-	184
192	-	-	30.5	-	28.4	26.5	-	22.3	20.9	18.7	17.9	-	192
200	-	-	-	-	-	26.3	-	22.3	20.8	18.3	17.9	-	200
208	-	-	-	-	-	26.1	-	22.3	20.7	17.8	17.7	16.6	208
216	-	-	-	-	-	25.0	-	22.3	20.7	-	17.6	16.5	216
224	-	-	-	-	-	-	-	-	20.7	-	17.6	16.5	224
232	-	-	-	-	-	-	-	-	20.7	-	17.6	16.5	232
240	-	-	-	-	-	-	-	-	-	-	-	16.5	240
248	-	-	-	-	-	-	-	-	-	-	-	16.5	248

- 132,300 lb
- 154,350 lb
- 176,400 lb
- 198,400 lb
- 220,500 lb
- 242,500 lb
- 264,600 lb
- 286,600 lb
- 308,600 lb
- 330,700 lb

19.7 ft (XL)											360°			ASME B30.5						
130.6 ft											226.4 ft			246.1 ft			265.7 ft			
											84°			73°			65°			
ft											1,000 lb									ft
88	19.0	-	-	-	-	-	-	-	-	-	88									
96	18.7	-	-	15.1	-	-	12.7	-	-	96										
104	18.3	-	-	14.8	-	-	12.4	-	-	104										
112	18.1	-	-	14.5	-	-	12.1	-	-	112										
120	17.8	-	-	14.3	-	-	12.1	-	-	120										
128	17.5	-	-	14.0	-	-	11.8	-	-	128										
136	17.3	-	-	13.9	-	-	11.5	-	-	136										
144	17.0	-	-	13.7	-	-	11.3	-	-	144										
152	16.9	-	-	13.4	-	-	11.2	-	-	152										
160	16.7	-	-	13.1	-	-	10.9	-	-	160										
168	16.4	15.7	-	13.0	-	-	10.7	-	-	168										
176	16.3	15.7	-	12.8	12.2	-	10.6	-	-	176										
184	16.1	15.4	-	12.6	12.1	-	10.4	9.9	-	184										
192	16.0	15.2	-	12.5	11.8	-	10.3	9.7	-	192										
200	15.9	15.0	-	12.2	11.7	-	10.1	9.6	-	200										
208	15.7	14.8	-	12.1	11.5	-	10.0	9.3	-	208										
216	15.7	14.8	13.9	12.1	11.5	-	9.9	9.3	-	216										
224	15.2	14.8	13.9	11.9	11.2	10.6	9.7	9.0	-	224										
232	-	14.8	13.7	11.8	11.2	10.4	9.7	9.0	-	232										
240	-	14.8	13.7	11.6	11.2	10.4	9.6	8.9	8.2	240										
248	-	14.8	13.7	11.3	11.2	10.4	9.4	8.8	8.2	248										
256	-	-	13.7	-	11.2	10.1	9.3	8.8	8.2	256										
264	-	-	13.7	-	11.1	10.1	8.9	8.8	8.0	264										
272	-	-	13.7	-	11.0	10.1	-	8.8	7.9	272										
280	-	-	-	-	-	10.1	-	8.8	7.9	280										
288	-	-	-	-	-	10.1	-	8.8	7.9	288										
296	-	-	-	-	-	-	-	-	7.9	296										
304	-	-	-	-	-	-	-	-	7.9	304										
312	-	-	-	-	-	-	-	-	7.9	312										

132,300 lb 154,350 lb 176,400 lb 198,400 lb 220,500 lb 242,500 lb 264,600 lb 286,600 lb 308,600 lb 330,700 lb

19.7 ft (XL) 360° ASME B30.5													
147.0 ft													
ft	78.7 ft			88.6 ft			108.3 ft			128.0 ft			ft
	84°	73°	65°	84°	73°	65°	84°	73°	65°	84°	73°	65°	
1,000 lb													
64	70.4	-	-	63.9	-	-	-	-	-	43.3	-	-	64
72	68.6	-	-	63.1	-	-	51.4	-	-	42.8	-	-	72
80	63.3	-	-	61.7	-	-	50.8	-	-	42.2	-	-	80
88	-	-	-	57.1	-	-	49.9	-	-	41.7	-	-	88
96	-	-	-	51.3	-	-	47.9	-	-	41.3	-	-	96
104	-	-	-	-	-	-	44.9	-	-	40.9	-	-	104
112	-	46.6	-	-	44.2	-	41.0	-	-	39.4	-	-	112
120	-	-	-	-	42.5	-	-	-	-	37.6	-	-	120
128	-	-	-	-	-	-	-	38.1	-	34.8	35.3	-	128
136	-	-	-	-	-	-	-	36.1	-	31.3	33.5	-	136
144	-	-	-	-	-	-	-	34.3	-	-	31.8	-	144
152	-	-	-	-	-	-	-	-	-	-	30.2	-	152
160	-	-	-	-	-	-	-	-	23.2	-	29.0	-	160
168	-	-	-	-	-	-	-	-	-	-	-	20.2	168
176	-	-	-	-	-	-	-	-	-	-	-	19.1	176

ft	147.6 ft			167.3 ft			187.0 ft			206.7 ft			ft
	84°	73°	65°	84°	73°	65°	84°	73°	65°	84°	73°	65°	
1,000 lb													
72	35.7	-	-	-	-	-	-	-	-	-	-	-	72
80	35.2	-	-	27.6	-	-	22.0	-	-	-	-	-	80
88	34.9	-	-	27.6	-	-	21.8	-	-	15.9	-	-	88
96	34.3	-	-	27.6	-	-	21.8	-	-	15.7	-	-	96
104	34.0	-	-	27.6	-	-	21.8	-	-	15.7	-	-	104
112	33.7	-	-	27.3	-	-	21.8	-	-	15.7	-	-	112
120	33.2	-	-	27.1	-	-	21.5	-	-	15.7	-	-	120
128	32.6	-	-	26.8	-	-	21.3	-	-	15.7	-	-	128
136	32.1	-	-	26.5	-	-	21.0	-	-	15.7	-	-	136
144	29.9	29.4	-	26.5	-	-	20.7	-	-	15.7	-	-	144
152	27.1	28.0	-	26.1	23.0	-	20.7	-	-	15.7	-	-	152
160	-	26.7	-	24.6	21.9	-	20.5	19.9	-	15.7	-	-	160
168	-	25.5	-	22.9	20.9	-	20.1	19.2	-	15.7	15.7	-	168
176	-	24.4	17.8	20.6	20.0	-	18.9	18.4	-	15.7	15.7	-	176
184	-	-	16.9	-	18.9	-	17.6	17.6	-	15.7	15.4	-	184
192	-	-	15.9	-	18.2	14.2	16.0	16.8	-	15.5	14.9	-	192
200	-	-	15.1	-	17.5	13.4	-	16.1	-	14.9	14.2	-	200
208	-	-	-	-	-	12.5	-	15.4	11.7	13.8	13.6	-	208
216	-	-	-	-	-	11.9	-	14.8	11.1	12.2	13.0	9.7	216
224	-	-	-	-	-	-	-	-	10.3	-	12.5	9.0	224
232	-	-	-	-	-	-	-	-	9.8	-	12.0	8.4	232
240	-	-	-	-	-	-	-	-	9.2	-	11.6	7.9	240
248	-	-	-	-	-	-	-	-	-	-	-	7.5	248
256	-	-	-	-	-	-	-	-	-	-	-	7.0	256

- 132,300 lb
- 154,350 lb
- 176,400 lb
- 198,400 lb
- 220,500 lb
- 242,500 lb
- 264,600 lb
- 286,600 lb
- 308,600 lb
- 330,700 lb

19.7 ft (XL)				360°						ASME B30.5							
147.0 ft																	
226.4 ft																	
246.1 ft																	
265.7 ft																	
84°			73°			65°			84°			73°			65°		
1,000 lb																	
ft											ft						
96	16.2	-	-	12.3	-	-	-	-	-	-	96						
104	15.9	-	-	12.1	-	-	9.0	-	-	-	104						
112	15.6	-	-	12.1	-	-	8.8	-	-	-	112						
120	15.4	-	-	12.1	-	-	8.8	-	-	-	120						
128	15.1	-	-	12.0	-	-	8.8	-	-	-	128						
136	15.0	-	-	11.7	-	-	8.8	-	-	-	136						
144	14.8	-	-	11.5	-	-	8.8	-	-	-	144						
152	14.5	-	-	11.4	-	-	8.8	-	-	-	152						
160	14.3	-	-	11.2	-	-	8.8	-	-	-	160						
168	14.2	-	-	11.0	-	-	8.8	-	-	-	168						
176	14.1	13.7	-	10.8	-	-	8.8	-	-	-	176						
184	13.9	13.4	-	10.8	10.4	-	8.6	-	-	-	184						
192	13.8	13.1	-	10.6	10.3	-	8.6	-	-	-	192						
200	13.6	12.7	-	10.5	10.0	-	8.4	8.2	-	-	200						
208	13.3	12.4	-	10.4	9.8	-	8.4	8.0	-	-	208						
216	13.0	11.9	-	10.2	9.7	-	8.2	7.9	-	-	216						
224	12.2	11.4	-	10.1	9.4	-	8.1	7.7	-	-	224						
232	10.6	10.9	7.8	10.1	8.9	-	7.9	7.4	-	-	232						
240	-	10.5	7.2	9.5	8.5	5.5	7.9	7.1	-	-	240						
248	-	10.1	6.8	8.5	8.1	5.0	7.8	7.0	-	-	248						
256	-	9.7	6.4	-	7.7	4.6	7.5	6.6	-	-	256						
264	-	-	5.9	-	7.3	-	7.0	6.2	-	-	264						
272	-	-	5.6	-	7.0	-	6.0	5.9	-	-	272						
280	-	-	5.2	-	6.7	-	-	5.6	-	-	280						
288	-	-	-	-	-	-	-	5.3	-	-	288						
296	-	-	-	-	-	-	-	5.0	-	-	296						


132,300 lb 154,350 lb 176,400 lb 198,400 lb 220,500 lb 242,500 lb 264,600 lb 286,600 lb 308,600 lb 330,700 lb

		19.7 ft (XL)									360°			ASME B30.5		
163.4 ft																
		78.7 ft			88.6 ft			108.3 ft			128.0 ft					
		84°	73°	65°	84°	73°	65°	84°	73°	65°	84°	73°	65°			
ft	1,000 lb												ft			
64	58.3	-	-	-	-	-	-	-	-	-	-	-	-	64		
72	57.6	-	-	-	50.9	-	-	-	-	-	34.6	-	-	72		
80	56.9	-	-	-	50.4	-	-	42.1	-	-	34.6	-	-	80		
88	-	-	-	-	49.8	-	-	41.7	-	-	34.5	-	-	88		
96	-	-	-	-	49.0	-	-	41.3	-	-	34.3	-	-	96		
104	-	-	-	-	-	-	-	40.9	-	-	34.0	-	-	104		
112	-	-	-	-	-	-	-	40.5	-	-	33.7	-	-	112		
120	-	-	-	-	-	-	-	-	-	-	33.4	-	-	120		
128	-	-	-	-	-	32.9	-	-	-	-	33.2	-	-	128		
136	-	-	-	-	-	-	-	-	29.0	-	32.7	24.1	-	136		
144	-	-	-	-	-	-	-	-	27.6	-	-	22.8	-	144		
152	-	-	-	-	-	-	-	-	-	-	-	21.7	-	152		
160	-	-	-	-	-	-	-	-	-	-	-	20.6	-	160		
168	-	-	-	-	-	-	-	-	-	-	-	19.5	-	168		
176	-	-	-	-	-	-	-	-	-	-	-	-	14.3	176		
184	-	-	-	-	-	-	-	-	-	-	-	-	13.4	184		

		147.6 ft			167.3 ft			187.0 ft			206.7 ft				
		84°	73°	65°	84°	73°	65°	84°	73°	65°	84°	73°	65°		
ft	1,000 lb												ft		
80	26.7	-	-	-	19.6	-	-	-	-	-	-	-	-	80	
88	26.7	-	-	-	19.6	-	-	15.0	-	-	-	-	-	88	
96	26.7	-	-	-	19.6	-	-	15.0	-	-	12.3	-	-	96	
104	26.7	-	-	-	19.6	-	-	15.0	-	-	12.3	-	-	104	
112	26.7	-	-	-	19.6	-	-	15.0	-	-	12.3	-	-	112	
120	26.7	-	-	-	19.6	-	-	15.0	-	-	12.3	-	-	120	
128	26.7	-	-	-	19.6	-	-	15.0	-	-	12.3	-	-	128	
136	26.7	-	-	-	19.6	-	-	15.0	-	-	12.3	-	-	136	
144	26.7	-	-	-	19.6	-	-	15.0	-	-	12.3	-	-	144	
152	26.7	-	19.7	-	19.6	-	-	15.0	-	-	12.3	-	-	152	
160	-	18.7	-	-	19.6	16.5	-	15.0	-	-	12.3	-	-	160	
168	-	17.9	-	-	19.6	15.7	-	15.0	14.3	-	12.3	-	-	168	
176	-	16.9	-	-	19.6	14.9	-	15.0	13.6	-	12.3	-	-	176	
184	-	16.1	-	-	-	14.1	-	15.0	12.8	-	12.3	11.0	-	184	
192	-	-	11.3	-	-	13.3	-	15.0	12.2	-	12.3	10.5	-	192	
200	-	-	10.7	-	-	12.8	-	-	11.5	-	12.3	9.9	-	200	
208	-	-	10.1	-	-	12.3	8.3	-	10.9	-	12.3	9.4	-	208	
216	-	-	-	-	-	-	7.8	-	10.4	6.9	12.3	8.9	-	216	
224	-	-	-	-	-	-	7.2	-	9.9	6.3	-	8.3	-	224	
232	-	-	-	-	-	-	-	-	-	5.8	-	7.9	-	232	
240	-	-	-	-	-	-	-	-	-	5.4	-	7.6	-	240	
248	-	-	-	-	-	-	-	-	-	5.1	-	7.1	-	248	

132,300 lb 154,350 lb 176,400 lb 198,400 lb 220,500 lb 242,500 lb 264,600 lb 286,600 lb 308,600 lb 330,700 lb

		19.7 ft (XL)			360°			ASME B30.5			
		226.4 ft			246.1 ft						
		84°	73°	65°	84°	73°	65°				
ft		1,000 lb									ft
96	11.9	-	-	-	-	-	-			96	
104	11.9	-	-	-	7.5	-	-			104	
112	11.9	-	-	-	7.5	-	-			112	
120	11.9	-	-	-	7.5	-	-			120	
128	11.9	-	-	-	7.5	-	-			128	
136	11.9	-	-	-	7.5	-	-			136	
144	11.9	-	-	-	7.5	-	-			144	
152	11.7	-	-	-	7.5	-	-			152	
160	11.6	-	-	-	7.5	-	-			160	
168	11.5	-	-	-	7.5	-	-			168	
176	11.3	-	-	-	7.5	-	-			176	
184	11.2	-	-	-	7.5	-	-			184	
192	11.0	9.4	-	-	7.5	-	-			192	
200	11.0	8.9	-	-	7.5	6.9	-			200	
208	10.9	8.5	-	-	7.5	6.5	-			208	
216	10.8	8.0	-	-	7.5	6.0	-			216	
224	10.8	7.5	-	-	7.5	5.7	-			224	
232	10.8	7.1	-	-	7.5	5.2	-			232	
240	-	6.7	-	-	7.5	4.8	-			240	
248	-	6.4	-	-	7.5	4.5	-			248	
256	-	5.9	-	-	-	-	-			256	
264	-	5.7	-	-	-	-	-			264	


132,300 lb
154,350 lb
176,400 lb
198,400 lb
220,500 lb
242,500 lb
264,600 lb
286,600 lb
308,600 lb
330,700 lb

19.7 ft (XL)													360°			ASME B30.5						
179.8 ft																						
78.7 ft													88.6 ft			108.3 ft			128.0 ft			
84° 73° 65°													84° 73° 65°			84° 73° 65°			84° 73° 65°			
ft													1,000 lb									ft
72	44.8	-	-	-	-	-	-	-	-	-	-	23.6	-	-	72							
80	44.2	-	-	40.0	-	-	31.3	-	-	-	-	23.6	-	-	80							
88	43.4	-	-	39.5	-	-	31.3	-	-	-	-	23.6	-	-	88							
96	-	-	-	38.8	-	-	31.3	-	-	-	-	23.6	-	-	96							
104	-	-	-	-	-	-	31.3	-	-	-	-	23.6	-	-	104							
112	-	-	-	-	-	-	31.3	-	-	-	-	23.6	-	-	112							
120	-	-	-	-	-	-	-	-	-	-	-	23.6	-	-	120							
128	-	-	-	-	22.3	-	-	-	-	-	-	23.6	-	-	128							
136	-	-	-	-	21.9	-	-	-	-	-	-	23.3	-	-	136							
144	-	-	-	-	-	-	-	18.7	-	-	-	-	-	-	144							
152	-	-	-	-	-	-	-	18.2	-	-	-	-	16.2	-	152							
160	-	-	-	-	-	-	-	-	-	-	-	-	15.2	-	160							
168	-	-	-	-	-	-	-	-	-	-	-	-	14.4	-	168							
176	-	-	-	-	-	-	-	-	-	-	-	-	13.7	-	176							
184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	184							
192	-	-	-	-	-	-	-	-	-	-	-	-	-	8.7	192							

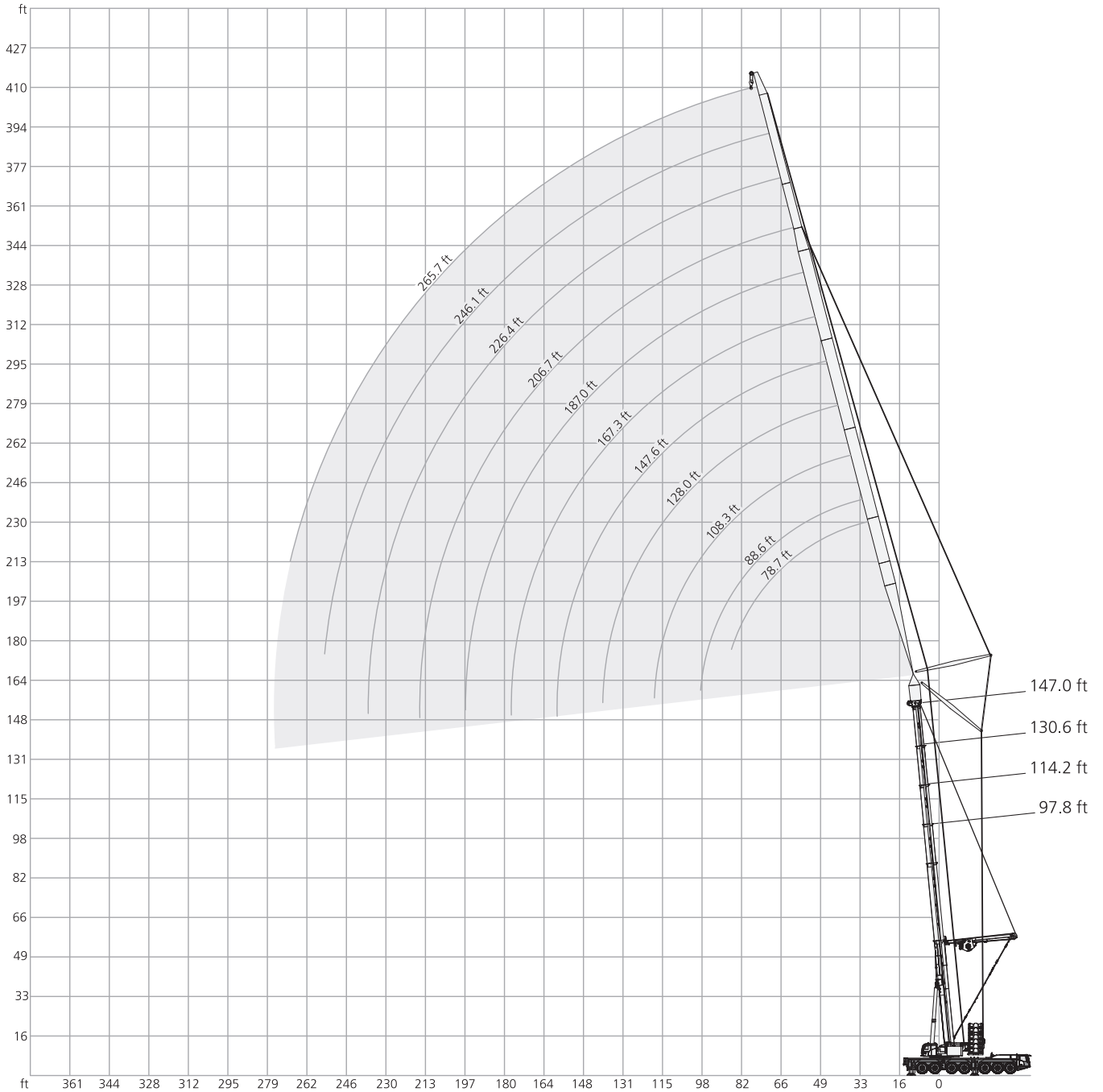
147.6 ft													167.3 ft			187.0 ft			206.7 ft			
84° 73° 65°													84° 73° 65°			84° 73° 65°			84° 73° 65°			
ft													1,000 lb									ft
80	17.4	-	-	-	-	-	-	-	-	-	-	-	-	-	80							
88	17.4	-	-	11.7	-	-	7.9	-	-	-	-	-	-	-	88							
96	17.4	-	-	11.7	-	-	7.9	-	-	-	-	9.0	-	-	96							
104	17.4	-	-	11.7	-	-	7.9	-	-	-	-	9.0	-	-	104							
112	17.4	-	-	11.7	-	-	7.9	-	-	-	-	9.0	-	-	112							
120	17.4	-	-	11.7	-	-	7.9	-	-	-	-	9.0	-	-	120							
128	17.4	-	-	11.7	-	-	7.9	-	-	-	-	9.0	-	-	128							
136	17.4	-	-	11.7	-	-	7.9	-	-	-	-	9.0	-	-	136							
144	17.4	-	-	11.7	-	-	7.9	-	-	-	-	9.0	-	-	144							
152	17.4	-	-	11.7	-	-	7.9	-	-	-	-	9.0	-	-	152							
160	-	13.6	-	11.7	-	-	7.9	-	-	-	-	9.0	-	-	160							
168	-	12.8	-	11.7	10.8	-	7.9	-	-	-	-	9.0	-	-	168							
176	-	12.0	-	11.7	10.0	-	7.9	-	-	-	-	9.0	-	-	176							
184	-	11.4	-	-	9.5	-	7.9	7.9	-	-	-	9.0	-	-	184							
192	-	10.9	-	-	8.9	-	7.9	7.8	-	-	-	9.0	6.3	-	192							
200	-	-	-	-	8.4	-	-	7.3	-	-	-	9.0	5.7	-	200							
208	-	-	6.3	-	7.8	-	-	6.7	-	-	-	9.0	5.4	-	208							
216	-	-	5.8	-	7.5	-	-	6.4	-	-	-	9.0	4.9	-	216							
224	-	-	-	-	-	-	-	5.9	-	-	-	-	-	-	224							
232	-	-	-	-	-	-	-	5.7	-	-	-	-	-	-	232							

132,300 lb 154,350 lb 176,400 lb 198,400 lb 220,500 lb 242,500 lb 264,600 lb 286,600 lb 308,600 lb 330,700 lb

19.7 ft (XL)		360°		ASME B30.5	
179.8 ft					
226.4 ft		84°		73° 65°	
ft	1,000 lb			ft	
104	6.2	-	-	104	
112	6.2	-	-	112	
120	6.2	-	-	120	
128	6.2	-	-	128	
136	6.2	-	-	136	
144	6.2	-	-	144	
152	6.2	-	-	152	
160	6.2	-	-	160	
168	6.2	-	-	168	
176	6.2	-	-	176	
184	6.2	-	-	184	
192	6.2	-	-	192	
200	6.2	-	-	200	
208	6.2	-	-	208	
216	6.2	-	-	216	
224	6.2	-	-	224	
232	6.2	-	-	232	


132,300 lb
154,350 lb
176,400 lb
198,400 lb
220,500 lb
242,500 lb
264,600 lb
286,600 lb
308,600 lb
330,700 lb

A large rectangular area with horizontal lines, intended for taking notes.



19.7 ft (XL)													360°						ASME B30.5		
97.8 ft																					
78.7 ft				88.6 ft				108.3 ft				128.0 ft									
84°			73°			65°			84°			73°			65°						
1,000 lb												ft									
48	131.0	-	-	-	-	-	-	-	-	-	-	-	-	48							
56	128.5	-	-	114.1	-	-	-	-	-	-	-	75.1	-	56							
64	122.0	-	-	112.0	-	-	90.1	-	-	-	-	73.3	-	64							
72	111.6	-	-	107.5	-	-	88.4	-	-	-	-	71.7	-	72							
80	-	-	-	100.7	-	-	86.8	-	-	-	-	70.6	-	80							
88	-	87.4	-	89.6	85.3	-	85.2	-	-	-	-	69.5	-	88							
96	-	80.3	-	-	79.6	-	80.1	-	-	-	-	68.4	-	96							
104	-	74.1	-	-	73.5	-	71.6	72.2	-	-	-	67.4	60.5	104							
112	-	-	61.9	-	-	61.3	-	67.4	-	-	-	64.5	59.5	112							
120	-	-	-	-	-	57.1	-	62.7	-	-	-	58.6	58.8	120							
128	-	-	-	-	-	-	-	58.6	52.3	-	-	52.9	57.5	128							
136	-	-	-	-	-	-	-	-	49.2	-	-	-	53.9	136							
144	-	-	-	-	-	-	-	-	46.2	-	-	-	50.6	144							
152	-	-	-	-	-	-	-	-	-	-	-	-	-	152							
160	-	-	-	-	-	-	-	-	-	-	-	-	-	160							

147.6 ft													167.3 ft						187.0 ft						206.7 ft					
84°			73°			65°			84°			73°			65°			84°			73°			65°						
1,000 lb												ft																		
56	61.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56						
64	60.5	-	-	48.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64						
72	59.1	-	-	47.6	-	-	40.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72						
80	57.8	-	-	46.6	-	-	39.4	-	-	-	-	32.1	-	-	-	-	-	-	-	-	-	-	-	80						
88	56.8	-	-	45.8	-	-	38.8	-	-	-	-	31.6	-	-	-	-	-	-	-	-	-	-	-	88						
96	56.0	-	-	45.0	-	-	38.2	-	-	-	-	31.0	-	-	-	-	-	-	-	-	-	-	-	96						
104	55.4	-	-	44.2	-	-	37.5	-	-	-	-	30.7	-	-	-	-	-	-	-	-	-	-	-	104						
112	54.9	48.5	-	43.4	-	-	37.0	-	-	-	-	30.2	-	-	-	-	-	-	-	-	-	-	-	112						
120	54.1	47.6	-	42.9	39.3	-	36.5	-	-	-	-	29.9	-	-	-	-	-	-	-	-	-	-	-	120						
128	51.9	47.0	-	42.3	38.6	-	36.0	33.0	-	-	-	29.3	-	-	-	-	-	-	-	-	-	-	-	128						
136	48.4	46.6	-	41.6	37.9	-	35.8	32.3	-	-	-	28.9	26.8	-	-	-	-	-	-	-	-	-	-	136						
144	44.5	46.3	43.5	40.6	37.5	-	35.5	31.8	-	-	-	28.7	26.3	-	-	-	-	-	-	-	-	-	-	144						
152	-	46.0	41.1	39.2	37.0	35.2	35.2	31.5	-	-	-	28.4	25.7	-	-	-	-	-	-	-	-	-	-	152						
160	-	44.0	38.8	37.0	37.0	34.7	34.4	31.0	-	-	-	28.1	25.3	-	-	-	-	-	-	-	-	-	-	160						
168	-	41.7	36.6	34.2	37.0	34.3	33.6	30.9	29.3	-	-	27.6	25.0	-	-	-	-	-	-	-	-	-	-	168						
176	-	-	34.7	-	37.0	33.4	32.0	30.9	28.7	-	-	27.0	24.7	22.3	-	-	-	-	-	-	-	-	-	176						
184	-	-	-	-	36.1	31.7	29.7	30.9	28.4	-	-	26.4	24.5	22.0	-	-	-	-	-	-	-	-	-	184						
192	-	-	-	-	-	29.9	-	30.9	28.3	-	-	25.3	24.5	21.8	-	-	-	-	-	-	-	-	-	192						
200	-	-	-	-	-	28.2	-	30.7	27.5	-	-	23.7	24.5	21.5	-	-	-	-	-	-	-	-	-	200						
208	-	-	-	-	-	-	-	29.3	26.0	-	-	21.7	24.5	21.4	-	-	-	-	-	-	-	-	-	208						
216	-	-	-	-	-	-	-	-	24.6	-	-	-	24.5	21.4	-	-	-	-	-	-	-	-	-	216						
224	-	-	-	-	-	-	-	-	-	-	-	-	24.4	21.4	-	-	-	-	-	-	-	-	-	224						
232	-	-	-	-	-	-	-	-	-	-	-	-	-	21.1	-	-	-	-	-	-	-	-	-	232						
240	-	-	-	-	-	-	-	-	-	-	-	-	-	20.2	-	-	-	-	-	-	-	-	-	240						

- 132,300 lb
- 154,350 lb
- 176,400 lb
- 198,400 lb
- 220,500 lb
- 242,500 lb
- 264,600 lb
- 286,600 lb
- 308,600 lb
- 330,700 lb

		19.7 ft (XL)			360°			ASME B30.5			
97.8 ft		226.4 ft			246.1 ft			265.7 ft			
		84°	73°	65°	84°	73°	65°	84°	73°	65°	
ft	1,000 lb									ft	
80	27.3	-	-	-	-	-	-	-	-	-	80
88	26.7	-	-	21.2	-	-	-	-	-	-	88
96	26.3	-	-	20.7	-	-	-	17.6	-	-	96
104	25.9	-	-	20.3	-	-	-	17.2	-	-	104
112	25.6	-	-	20.0	-	-	-	17.0	-	-	112
120	25.2	-	-	19.6	-	-	-	16.6	-	-	120
128	24.8	-	-	19.2	-	-	-	16.2	-	-	128
136	24.5	-	-	18.8	-	-	-	15.9	-	-	136
144	24.5	-	-	18.5	-	-	-	15.7	-	-	144
152	24.0	20.9	-	18.3	16.9	-	-	15.4	-	-	152
160	23.3	20.6	-	17.9	16.6	-	-	15.1	-	-	160
168	22.7	20.4	-	17.5	16.2	-	-	14.9	13.8	-	168
176	22.1	20.1	-	17.2	15.9	-	-	14.6	13.5	-	176
184	21.6	19.8	-	16.7	15.6	-	-	14.3	13.2	-	184
192	20.8	19.6	18.7	16.5	15.4	-	-	14.1	12.9	-	192
200	20.3	19.5	18.4	16.1	15.3	14.7	-	13.8	12.7	-	200
208	19.6	19.4	18.1	15.6	15.1	14.4	-	13.5	12.6	-	208
216	19.0	19.2	18.1	15.2	15.0	14.1	-	13.2	12.4	11.7	216
224	17.8	19.1	17.9	14.7	14.7	13.9	-	12.9	12.3	11.7	224
232	-	18.6	17.9	14.4	14.5	13.8	-	12.5	12.1	11.4	232
240	-	18.2	17.9	13.9	14.2	13.7	-	12.2	12.1	11.3	240
248	-	17.9	17.9	13.5	14.0	13.7	-	12.0	12.1	11.2	248
256	-	-	17.4	-	13.7	13.7	-	11.7	12.1	11.0	256
264	-	-	-	-	13.5	13.5	-	10.8	11.9	11.0	264
272	-	-	-	-	-	13.4	-	-	11.6	11.0	272
280	-	-	-	-	-	13.3	-	-	11.5	11.0	280
288	-	-	-	-	-	-	-	-	11.3	11.0	288
296	-	-	-	-	-	-	-	-	-	11.0	296

132,300 lb 154,350 lb 176,400 lb 198,400 lb 220,500 lb 242,500 lb 264,600 lb 286,600 lb 308,600 lb 330,700 lb

19.7 ft (XL) 360° ASME B30.5													
114.2 ft													
78.7 ft				88.6 ft			108.3 ft			128.0 ft			
84° 73° 65°				84° 73° 65°			84° 73° 65°			84° 73° 65°			
ft	1,000 lb											ft	
56	121.6	-	-	109.9	-	-	-	-	-	72.9	-	-	56
64	115.9	-	-	108.1	-	-	87.2	-	-	71.3	-	-	64
72	107.5	-	-	104.4	-	-	85.8	-	-	69.9	-	-	72
80	98.0	-	-	97.7	-	-	84.4	-	-	68.6	-	-	80
88	-	82.6	-	90.0	-	-	82.7	-	-	67.6	-	-	88
96	-	77.6	-	-	76.9	-	80.0	-	-	67.0	-	-	96
104	-	71.5	-	-	71.0	-	74.4	-	-	66.4	-	-	104
112	-	-	58.6	-	65.7	-	-	65.0	-	65.7	57.3	-	112
120	-	-	54.5	-	-	53.8	-	60.5	-	60.8	56.5	-	120
128	-	-	-	-	-	50.2	-	56.5	-	55.3	55.0	-	128
136	-	-	-	-	-	-	-	53.1	46.4	-	51.9	44.7	136
144	-	-	-	-	-	-	-	-	43.3	-	48.6	42.2	144
152	-	-	-	-	-	-	-	-	-	-	45.7	39.6	152
160	-	-	-	-	-	-	-	-	-	-	-	37.4	160
168	-	-	-	-	-	-	-	-	-	-	-	35.2	168

147.6 ft 167.3 ft 187.0 ft 206.7 ft													
84° 73° 65°				84° 73° 65°			84° 73° 65°			84° 73° 65°			
ft	1,000 lb											ft	
64	58.8	-	-	-	-	-	-	-	-	-	-	-	64
72	57.8	-	-	46.3	-	-	38.6	-	-	-	-	-	72
80	56.5	-	-	45.7	-	-	38.3	-	-	31.0	-	-	80
88	55.5	-	-	44.7	-	-	37.8	-	-	30.6	-	-	88
96	54.7	-	-	43.9	-	-	37.4	-	-	30.1	-	-	96
104	53.9	-	-	43.3	-	-	36.9	-	-	29.8	-	-	104
112	53.6	46.7	-	42.7	-	-	36.3	-	-	29.5	-	-	112
120	53.2	45.9	-	42.0	-	-	35.8	-	-	29.3	-	-	120
128	52.0	45.3	-	41.4	37.3	-	35.3	-	-	28.9	-	-	128
136	49.4	44.8	-	40.9	36.7	-	35.1	31.2	-	28.3	-	-	136
144	46.0	44.5	-	40.2	36.2	-	34.8	30.7	-	28.0	23.8	-	144
152	-	44.1	38.5	39.1	35.9	-	34.5	30.4	-	28.0	23.6	-	152
160	-	42.2	36.1	37.8	35.5	-	33.9	29.9	-	27.7	23.2	-	160
168	-	39.9	34.1	35.3	35.5	32.8	33.1	29.8	-	27.3	22.8	-	168
176	-	37.8	32.2	-	35.5	31.1	31.8	29.6	27.9	26.8	22.5	-	176
184	-	-	30.4	-	34.8	29.3	30.1	29.5	27.5	26.0	22.5	21.4	184
192	-	-	-	-	32.9	27.7	-	29.5	26.8	25.1	22.3	20.9	192
200	-	-	-	-	-	26.1	-	29.5	25.3	23.7	22.3	20.7	200
208	-	-	-	-	-	24.8	-	28.8	23.9	22.2	22.3	20.6	208
216	-	-	-	-	-	-	-	27.4	22.6	-	22.3	20.5	216
224	-	-	-	-	-	-	-	-	21.5	-	22.0	20.4	224
232	-	-	-	-	-	-	-	-	-	-	21.8	19.3	232
240	-	-	-	-	-	-	-	-	-	-	-	18.2	240
248	-	-	-	-	-	-	-	-	-	-	-	17.3	248

- 132,300 lb
- 154,350 lb
- 176,400 lb
- 198,400 lb
- 220,500 lb
- 242,500 lb
- 264,600 lb
- 286,600 lb
- 308,600 lb
- 330,700 lb

19.7 ft (XL)				360°						ASME B30.5							
114.2 ft																	
226.4 ft																	
246.1 ft																	
265.7 ft																	
84°			73°			65°			84°			73°			65°		
1,000 lb																	
ft											ft						
88	25.8	-	-	20.5	-	-	-	-	-	-	88						
96	25.4	-	-	20.2	-	-	17.1	-	-	-	96						
104	25.2	-	-	19.9	-	-	16.8	-	-	-	104						
112	24.7	-	-	19.6	-	-	16.5	-	-	-	112						
120	24.4	-	-	19.3	-	-	16.3	-	-	-	120						
128	24.3	-	-	18.8	-	-	16.0	-	-	-	128						
136	24.1	-	-	18.6	-	-	15.7	-	-	-	136						
144	23.8	-	-	18.3	-	-	15.4	-	-	-	144						
152	23.5	20.0	-	18.0	-	-	15.2	-	-	-	152						
160	23.0	19.8	-	17.6	16.0	-	14.9	-	-	-	160						
168	22.6	19.5	-	17.3	15.7	-	14.6	13.2	-	-	168						
176	22.1	19.4	-	17.0	15.5	-	14.4	13.0	-	-	176						
184	21.6	19.2	-	16.5	15.2	-	14.3	12.8	-	-	184						
192	20.8	19.0	-	16.3	14.9	-	14.1	12.5	-	-	192						
200	20.3	18.9	17.8	15.9	14.8	-	13.8	12.2	-	-	200						
208	19.8	18.7	17.5	15.5	14.6	13.9	13.5	12.1	-	-	208						
216	19.2	18.7	17.4	15.0	14.6	13.7	13.2	11.9	-	-	216						
224	18.3	18.7	17.2	14.5	14.3	13.4	12.9	11.9	11.2	-	224						
232	-	18.7	17.2	14.2	14.1	13.2	12.5	11.7	11.0	-	232						
240	-	18.4	17.2	13.8	13.9	13.2	12.2	11.7	10.8	-	240						
248	-	18.1	16.6	13.3	13.7	13.1	12.0	11.7	10.7	-	248						
256	-	-	15.6	-	13.4	13.0	11.7	11.7	10.6	-	256						
264	-	-	14.8	-	13.2	13.0	11.0	11.7	10.6	-	264						
272	-	-	-	-	13.0	12.9	-	11.6	10.6	-	272						
280	-	-	-	-	-	12.5	-	11.5	10.6	-	280						
288	-	-	-	-	-	11.8	-	11.3	10.5	-	288						
296	-	-	-	-	-	-	-	-	10.3	-	296						
304	-	-	-	-	-	-	-	-	9.6	-	304						

132,300 lb 154,350 lb 176,400 lb 198,400 lb 220,500 lb 242,500 lb 264,600 lb 286,600 lb 308,600 lb 330,700 lb

19.7 ft (XL) 360° ASME B30.5																	
130.6 ft																	
78.7 ft				88.6 ft			108.3 ft			128.0 ft							
84°		73°		65°		84°		73°		65°		84°		73°		65°	
1,000 lb																	
ft																ft	
56	116.5	-	-	104.7	-	-	-	-	-	69.9	-	-	56				
64	110.5	-	-	102.5	-	-	83.7	-	-	68.4	-	-	64				
72	102.9	-	-	100.1	-	-	82.0	-	-	67.1	-	-	72				
80	96.6	-	-	93.4	-	-	80.9	-	-	66.0	-	-	80				
88	-	-	-	87.3	-	-	79.0	-	-	65.0	-	-	88				
96	-	74.9	-	-	-	-	76.2	-	-	64.2	-	-	96				
104	-	69.0	-	-	68.4	-	72.2	-	-	63.6	-	-	104				
112	-	-	-	-	63.5	-	-	62.6	-	62.8	54.2	-	112				
120	-	-	51.4	-	-	-	-	58.4	-	60.8	53.4	-	120				
128	-	-	48.0	-	-	47.4	-	54.4	-	57.0	52.5	-	128				
136	-	-	-	-	-	44.3	-	51.0	-	-	49.9	-	136				
144	-	-	-	-	-	-	-	-	40.7	-	46.9	-	144				
152	-	-	-	-	-	-	-	-	38.3	-	44.0	37.2	152				
160	-	-	-	-	-	-	-	-	-	-	-	34.8	160				
168	-	-	-	-	-	-	-	-	-	-	-	32.8	168				
176	-	-	-	-	-	-	-	-	-	-	-	30.9	176				

147.6 ft 167.3 ft 187.0 ft 206.7 ft																
84°				73°		65°		84°		73°		65°				
1,000 lb																
ft																ft
64	56.1	-	-	-	-	-	-	-	-	-	-	-	64			
72	55.6	-	-	44.1	-	-	-	-	-	-	-	-	72			
80	54.5	-	-	43.8	-	-	36.5	-	-	29.5	-	-	80			
88	53.5	-	-	43.2	-	-	36.3	-	-	29.2	-	-	88			
96	52.7	-	-	42.6	-	-	36.0	-	-	29.0	-	-	96			
104	52.1	-	-	42.0	-	-	35.6	-	-	28.7	-	-	104			
112	51.6	-	-	41.2	-	-	35.0	-	-	28.4	-	-	112			
120	51.3	43.5	-	40.7	-	-	34.5	-	-	28.2	-	-	120			
128	51.1	43.0	-	40.3	35.3	-	34.2	-	-	27.9	-	-	128			
136	49.7	42.4	-	40.0	34.7	-	33.8	-	-	27.6	-	-	136			
144	47.5	42.1	-	39.5	34.4	-	33.7	29.1	-	27.1	-	-	144			
152	-	41.8	-	38.7	33.9	-	33.5	28.8	-	27.1	22.5	-	152			
160	-	40.5	33.7	37.6	33.6	-	33.3	28.5	-	26.8	22.1	-	160			
168	-	38.2	31.7	36.1	33.5	30.7	32.5	28.2	-	26.7	21.7	-	168			
176	-	36.2	29.8	-	33.5	28.7	31.5	28.0	-	26.1	21.4	-	176			
184	-	-	28.0	-	33.2	27.1	29.9	28.0	24.7	25.5	21.4	-	184			
192	-	-	26.6	-	31.4	25.4	-	28.0	24.2	24.7	21.2	20.0	192			
200	-	-	-	-	-	23.9	-	28.0	23.1	23.6	21.2	19.7	200			
208	-	-	-	-	-	22.6	-	27.4	21.7	22.4	21.2	19.5	208			
216	-	-	-	-	-	21.5	-	26.1	20.6	-	21.2	19.4	216			
224	-	-	-	-	-	-	-	-	19.5	-	21.2	18.4	224			
232	-	-	-	-	-	-	-	-	18.4	-	21.1	17.3	232			
240	-	-	-	-	-	-	-	-	-	-	-	16.4	240			
248	-	-	-	-	-	-	-	-	-	-	-	15.5	248			

- 132,300 lb
- 154,350 lb
- 176,400 lb
- 198,400 lb
- 220,500 lb
- 242,500 lb
- 264,600 lb
- 286,600 lb
- 308,600 lb
- 330,700 lb

		19.7 ft (XL)			360°			ASME B30.5			
130.6 ft		226.4 ft			246.1 ft			265.7 ft			
		84°	73°	65°	84°	73°	65°	84°	73°	65°	
ft	1,000 lb									ft	
88	24.2	-	-	-	-	-	-	-	-	-	88
96	23.9	-	-	19.6	-	-	16.3	-	-	-	96
104	23.6	-	-	19.2	-	-	16.1	-	-	-	104
112	23.4	-	-	18.9	-	-	15.9	-	-	-	112
120	23.1	-	-	18.7	-	-	15.7	-	-	-	120
128	22.8	-	-	18.4	-	-	15.5	-	-	-	128
136	22.4	-	-	18.1	-	-	15.3	-	-	-	136
144	22.1	-	-	17.7	-	-	15.0	-	-	-	144
152	21.8	-	-	17.4	-	-	14.7	-	-	-	152
160	21.5	18.9	-	17.1	-	-	14.5	-	-	-	160
168	21.3	18.6	-	16.8	14.9	-	14.2	-	-	-	168
176	21.0	18.3	-	16.6	14.6	-	13.9	12.2	-	-	176
184	20.7	18.1	-	16.3	14.3	-	13.9	12.1	-	-	184
192	20.4	18.0	-	16.0	14.1	-	13.7	11.8	-	-	192
200	19.9	17.9	-	15.5	14.0	-	13.6	11.6	-	-	200
208	19.3	17.7	16.6	15.3	13.9	-	13.3	11.5	-	-	208
216	18.8	17.6	16.3	14.8	13.7	-	13.2	11.3	-	-	216
224	18.4	17.6	16.3	14.5	13.6	12.8	12.8	11.2	-	-	224
232	-	17.6	16.0	14.0	13.4	12.5	12.5	11.0	10.3	-	232
240	-	17.6	15.6	13.8	13.3	12.4	12.2	11.0	10.2	-	240
248	-	17.6	14.8	13.3	13.2	12.3	12.0	11.0	10.1	-	248
256	-	-	13.9	-	13.0	12.3	11.7	11.0	9.9	-	256
264	-	-	13.2	-	12.7	12.1	11.1	11.0	9.8	-	264
272	-	-	12.5	-	12.6	11.6	-	11.0	9.7	-	272
280	-	-	-	-	-	10.8	-	11.0	9.7	-	280
288	-	-	-	-	-	10.2	-	11.0	9.3	-	288
296	-	-	-	-	-	-	-	-	8.8	-	296
304	-	-	-	-	-	-	-	-	8.2	-	304
312	-	-	-	-	-	-	-	-	7.7	-	312


132,300 lb
154,350 lb
176,400 lb
198,400 lb
220,500 lb
242,500 lb
264,600 lb
286,600 lb
308,600 lb
330,700 lb

19.7 ft (XL)													360°			ASME B30.5						
147.0 ft																						
78.7 ft													88.6 ft			108.3 ft			128.0 ft			
84° 73° 65°													84° 73° 65°			84° 73° 65°			84° 73° 65°			
ft													1,000 lb									ft
56	111.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56			
64	105.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64			
72	95.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72			
80	87.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80			
88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88			
96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96			
104	-	66.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104			
112	-	61.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	112			
120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120			
128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128			
136	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	136			
144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144			
152	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152			
160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160			
168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	168			
176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176			

147.6 ft													167.3 ft			187.0 ft			206.7 ft			
84° 73° 65°													84° 73° 65°			84° 73° 65°			84° 73° 65°			
ft													1,000 lb									ft
72	53.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72			
80	52.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80			
88	51.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88			
96	50.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96			
104	50.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104			
112	49.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	112			
120	49.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120			
128	48.7	40.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128			
136	48.0	39.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	136			
144	45.8	39.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144			
152	43.1	38.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152			
160	-	37.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160			
168	-	36.5	29.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	168			
176	-	34.7	27.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176			
184	-	-	25.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	184			
192	-	-	24.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	192			
200	-	-	23.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200			
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	208			
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216			
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	224			
232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	232			
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240			
248	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	248			
256	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	256			

- 132,300 lb
- 154,350 lb
- 176,400 lb
- 198,400 lb
- 220,500 lb
- 242,500 lb
- 264,600 lb
- 286,600 lb
- 308,600 lb
- 330,700 lb

		19.7 ft (XL)			360°			ASME B30.5		
147.0 ft		226.4 ft			246.1 ft			265.7 ft		
		84°	73°	65°	84°	73°	65°	84°	73°	65°
ft	1,000 lb									ft
96	23.7	-	-	19.0	-	-	-	-	-	96
104	23.2	-	-	18.8	-	-	15.5	-	-	104
112	22.9	-	-	18.5	-	-	15.4	-	-	112
120	22.4	-	-	18.2	-	-	15.2	-	-	120
128	22.2	-	-	17.7	-	-	15.1	-	-	128
136	21.7	-	-	17.5	-	-	14.8	-	-	136
144	21.4	-	-	17.2	-	-	14.6	-	-	144
152	21.1	-	-	16.9	-	-	14.3	-	-	152
160	20.9	-	-	16.7	-	-	14.0	-	-	160
168	20.7	17.7	-	16.4	-	-	13.9	-	-	168
176	20.5	17.5	-	16.1	13.9	-	13.7	-	-	176
184	20.5	17.2	-	15.9	13.7	-	13.4	11.2	-	184
192	20.2	17.0	-	15.6	13.4	-	13.2	11.2	-	192
200	19.9	16.9	-	15.3	13.2	-	13.1	10.9	-	200
208	19.3	16.8	-	15.1	13.1	-	13.0	10.8	-	208
216	18.8	16.6	15.4	14.6	13.0	-	13.0	10.6	-	216
224	18.5	16.5	15.2	14.3	12.8	-	12.8	10.4	-	224
232	17.8	16.5	14.8	14.0	12.7	11.9	12.5	10.3	-	232
240	-	16.5	13.9	13.5	12.6	11.7	12.2	10.2	9.5	240
248	-	16.5	13.1	13.2	12.6	11.6	12.0	10.1	9.4	248
256	-	16.5	12.3	-	12.6	11.5	11.7	10.1	9.3	256
264	-	-	11.5	-	12.3	10.6	11.3	10.1	9.1	264
272	-	-	10.8	-	12.1	9.9	10.5	10.1	8.9	272
280	-	-	10.3	-	11.9	9.2	-	10.1	8.5	280
288	-	-	-	-	-	8.6	-	10.1	7.9	288
296	-	-	-	-	-	8.1	-	10.1	7.2	296
304	-	-	-	-	-	-	-	-	6.7	304
312	-	-	-	-	-	-	-	-	6.2	312
320	-	-	-	-	-	-	-	-	5.6	320


132,300 lb
154,350 lb
176,400 lb
198,400 lb
220,500 lb
242,500 lb
264,600 lb
286,600 lb
308,600 lb
330,700 lb

		19.7 ft (XL)									360°			ASME B30.5		
163.4 ft																
		78.7 ft			88.6 ft			108.3 ft			128.0 ft					
		84°	73°	65°	84°	73°	65°	84°	73°	65°	84°	73°	65°			
ft		1,000 lb											ft			
64		94.0	-	-	-	-	-	-	-	-	-	-	-	-	64	
72		88.5	-	-	84.1	-	-	-	-	-	-	-	-	-	72	
80		82.7	-	-	79.5	-	-	71.4	-	-	-	-	-	60.5	80	
88		-	-	-	74.7	-	-	68.1	-	-	-	-	-	59.4	88	
96		-	-	-	69.5	-	-	64.9	-	-	-	-	-	57.9	96	
104		-	-	-	-	-	-	61.5	-	-	-	-	-	56.0	104	
112		-	57.2	-	-	54.5	-	58.0	-	-	-	-	-	53.9	112	
120		-	-	-	-	52.2	-	-	-	-	-	-	-	51.7	120	
128		-	-	-	-	50.3	-	-	-	-	-	-	-	49.5	128	
136		-	-	28.5	-	-	-	-	44.9	-	-	-	-	46.7	136	
144		-	-	27.6	-	-	-	-	43.1	-	-	-	-	38.9	136	
152		-	-	-	-	-	23.6	-	41.7	-	-	-	-	37.5	144	
160		-	-	-	-	-	-	-	-	-	-	-	-	36.5	152	
168		-	-	-	-	-	-	-	-	-	31.6	-	-	35.4	160	
176		-	-	-	-	-	-	-	-	-	29.7	-	-	34.4	168	
184		-	-	-	-	-	-	-	-	-	-	-	-	28.5	176	
		-	-	-	-	-	-	-	-	-	-	-	-	26.7	176	
		-	-	-	-	-	-	-	-	-	-	-	-	25.3	184	

		147.6 ft			167.3 ft			187.0 ft			206.7 ft				
		84°	73°	65°	84°	73°	65°	84°	73°	65°	84°	73°	65°		
ft		1,000 lb											ft		
80		49.5	-	-	40.5	-	-	-	-	-	-	-	-	-	80
88		48.7	-	-	39.9	-	-	33.1	-	-	-	-	-	-	88
96		47.9	-	-	39.4	-	-	32.8	-	-	-	-	-	26.0	96
104		47.1	-	-	38.9	-	-	32.7	-	-	-	-	-	26.0	104
112		46.3	-	-	38.3	-	-	32.4	-	-	-	-	-	26.0	112
120		45.4	-	-	37.8	-	-	32.1	-	-	-	-	-	26.0	120
128		44.2	-	-	37.3	-	-	31.6	-	-	-	-	-	25.9	128
136		42.9	34.9	-	36.7	-	-	31.4	-	-	-	-	-	25.6	136
144		41.3	33.8	-	36.2	-	-	30.9	-	-	-	-	-	25.4	144
152		39.2	32.7	-	35.4	28.6	-	30.6	23.5	-	-	-	-	25.1	152
160		-	31.6	-	34.5	27.7	-	30.6	23.1	-	-	-	-	24.8	160
168		-	30.7	-	33.4	26.9	-	30.3	22.5	-	-	-	-	24.7	168
176		-	29.8	24.0	32.2	26.1	-	29.7	21.9	-	-	-	-	24.5	176
184		-	29.3	22.9	-	25.3	-	29.1	21.1	-	-	-	-	24.5	184
192		-	-	22.1	-	24.8	19.7	28.2	20.6	-	-	-	-	23.9	192
200		-	-	21.3	-	24.3	18.9	-	20.1	-	-	-	-	23.4	200
208		-	-	20.2	-	23.9	18.2	-	19.8	16.5	-	-	-	22.5	208
216		-	-	-	-	-	17.7	-	19.4	15.9	-	-	-	21.3	216
224		-	-	-	-	-	17.1	-	19.0	15.4	-	-	-	16.6	216
232		-	-	-	-	-	-	-	-	14.8	-	-	-	16.1	224
240		-	-	-	-	-	-	-	-	14.1	-	-	-	15.8	232
248		-	-	-	-	-	-	-	-	13.5	-	-	-	15.5	240
256		-	-	-	-	-	-	-	-	-	-	-	-	15.4	248
264		-	-	-	-	-	-	-	-	-	-	-	-	11.7	256
		-	-	-	-	-	-	-	-	-	-	-	-	11.0	264

- 132,300 lb
- 154,350 lb
- 176,400 lb
- 198,400 lb
- 220,500 lb
- 242,500 lb
- 264,600 lb
- 286,600 lb
- 308,600 lb
- 330,700 lb

		19.7 ft (XL)			360°			ASME B30.5			
		226.4 ft			246.1 ft						
		84°	73°	65°	84°	73°	65°				
ft	1,000 lb										ft
96	22.9	-	-	-	-	-	-	-	-	-	96
104	22.3	-	-	-	17.9	-	-	-	-	-	104
112	22.0	-	-	-	17.8	-	-	-	-	-	112
120	21.7	-	-	-	17.6	-	-	-	-	-	120
128	21.3	-	-	-	17.2	-	-	-	-	-	128
136	21.0	-	-	-	16.8	-	-	-	-	-	136
144	20.5	-	-	-	16.5	-	-	-	-	-	144
152	20.3	-	-	-	16.3	-	-	-	-	-	152
160	20.2	-	-	-	16.0	-	-	-	-	-	160
168	19.9	-	-	-	15.7	-	-	-	-	-	168
176	19.7	16.1	-	-	15.5	-	-	-	-	-	176
184	19.6	15.9	-	-	15.4	12.6	-	-	-	-	184
192	19.6	15.6	-	-	15.2	12.3	-	-	-	-	192
200	19.4	15.3	-	-	14.9	12.2	-	-	-	-	200
208	19.1	15.1	-	-	14.6	12.0	-	-	-	-	208
216	18.8	14.8	-	-	14.3	11.9	-	-	-	-	216
224	18.5	14.3	12.1	-	14.1	11.7	-	-	-	-	224
232	18.1	14.0	11.7	-	13.7	11.4	-	-	-	-	232
240	-	13.8	11.2	-	13.3	11.1	9.1	-	-	-	240
248	-	13.5	10.8	-	13.1	10.8	8.8	-	-	-	248
256	-	13.2	10.6	-	-	10.6	8.4	-	-	-	256
264	-	13.2	10.0	-	-	10.4	8.1	-	-	-	264
272	-	-	9.5	-	-	10.3	7.8	-	-	-	272
280	-	-	9.0	-	-	10.2	7.6	-	-	-	280
288	-	-	8.4	-	-	10.1	7.3	-	-	-	288
296	-	-	-	-	-	-	7.0	-	-	-	296
304	-	-	-	-	-	-	6.5	-	-	-	304


132,300 lb
154,350 lb
176,400 lb
198,400 lb
220,500 lb
242,500 lb
264,600 lb
286,600 lb
308,600 lb
330,700 lb

19.7 ft (XL)													360°			ASME B30.5						
179.8 ft																						
78.7 ft													88.6 ft			108.3 ft			128.0 ft			
84° 73° 65°													84° 73° 65°			84° 73° 65°			84° 73° 65°			
ft													1,000 lb									ft
72	76.2	-	-	72.3	-	-	-	-	-	-	-	-	-	-	-	-	-	72				
80	70.7	-	-	67.4	-	-	62.4	-	-	-	56.1	-	-	-	-	-	-	80				
88	66.3	-	-	63.0	-	-	59.1	-	-	-	53.6	-	-	-	-	-	-	88				
96	-	-	-	59.3	-	-	55.5	-	-	-	51.2	-	-	-	-	-	-	96				
104	-	-	-	-	-	-	52.2	-	-	-	48.6	-	-	-	-	-	-	104				
112	-	47.5	-	-	-	-	49.5	-	-	-	45.9	-	-	-	-	-	-	112				
120	-	45.9	-	-	43.3	-	-	-	-	-	43.6	-	-	-	-	-	-	120				
128	-	-	-	-	41.9	-	-	-	-	-	41.5	-	-	-	-	-	-	128				
136	-	-	-	-	40.4	-	-	-	36.7	-	39.8	33.2	-	-	-	-	-	136				
144	-	-	18.8	-	-	-	-	-	35.3	-	-	31.8	-	-	-	-	-	144				
152	-	-	-	-	-	16.2	-	-	34.2	-	-	30.7	-	-	-	-	-	152				
160	-	-	-	-	-	-	-	-	-	-	-	29.6	-	-	-	-	-	160				
168	-	-	-	-	-	-	-	-	-	26.6	-	28.7	-	-	-	-	-	168				
176	-	-	-	-	-	-	-	-	-	25.7	-	28.1	21.3	-	-	-	-	176				
184	-	-	-	-	-	-	-	-	-	-	-	-	20.5	-	-	-	-	184				
192	-	-	-	-	-	-	-	-	-	-	-	-	19.7	-	-	-	-	192				

147.6 ft													167.3 ft			187.0 ft			206.7 ft			
84° 73° 65°													84° 73° 65°			84° 73° 65°			84° 73° 65°			
ft													1,000 lb									ft
80	46.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80				
88	45.5	-	-	37.7	-	-	-	-	-	-	-	-	-	-	-	-	-	88				
96	44.3	-	-	37.2	-	-	30.6	-	-	-	24.7	-	-	-	-	-	-	96				
104	43.1	-	-	36.7	-	-	30.5	-	-	-	24.5	-	-	-	-	-	-	104				
112	41.3	-	-	36.1	-	-	30.4	-	-	-	24.2	-	-	-	-	-	-	112				
120	39.2	-	-	35.0	-	-	30.1	-	-	-	23.7	-	-	-	-	-	-	120				
128	37.4	-	-	33.6	-	-	29.6	-	-	-	23.4	-	-	-	-	-	-	128				
136	35.6	-	-	32.1	-	-	28.8	-	-	-	22.8	-	-	-	-	-	-	136				
144	34.0	28.5	-	30.7	-	-	28.0	-	-	-	22.3	-	-	-	-	-	-	144				
152	32.9	27.4	-	29.4	22.4	-	27.2	-	-	-	21.7	-	-	-	-	-	-	152				
160	-	26.6	-	28.3	21.6	-	26.1	-	-	-	21.0	-	-	-	-	-	-	160				
168	-	25.6	-	27.2	20.8	-	25.0	18.5	-	-	20.3	-	-	-	-	-	-	168				
176	-	24.8	-	26.5	20.0	-	24.1	18.0	-	-	19.5	15.0	-	-	-	-	-	176				
184	-	24.2	18.5	-	19.4	-	23.4	17.4	-	-	18.7	15.0	-	-	-	-	-	184				
192	-	23.5	17.7	-	18.8	-	22.8	16.9	-	-	18.2	14.4	-	-	-	-	-	192				
200	-	-	17.0	-	18.3	14.8	-	16.3	-	-	17.6	14.0	-	-	-	-	-	200				
208	-	-	16.4	-	17.8	14.2	-	15.8	-	-	17.1	13.6	-	-	-	-	-	208				
216	-	-	15.9	-	17.6	13.5	-	15.5	-	-	16.8	13.0	-	-	-	-	-	216				
224	-	-	-	-	-	13.2	-	15.2	-	-	-	12.8	-	-	-	-	-	224				
232	-	-	-	-	-	12.6	-	14.8	-	-	-	12.5	-	-	-	-	-	232				
240	-	-	-	-	-	-	-	-	-	-	-	12.2	-	-	-	-	-	240				
248	-	-	-	-	-	-	-	-	-	-	-	12.0	-	-	-	-	-	248				

- 132,300 lb
- 154,350 lb
- 176,400 lb
- 198,400 lb
- 220,500 lb
- 242,500 lb
- 264,600 lb
- 286,600 lb
- 308,600 lb
- 330,700 lb

		19.7 ft (XL)		360°		ASME B30.5	
		179.8 ft					
		226.4 ft					
		84°	73°	65°			
ft	1,000 lb			ft			
104	21.2	-	-	104			
112	20.9	-	-	112			
120	20.4	-	-	120			
128	20.2	-	-	128			
136	19.7	-	-	136			
144	19.4	-	-	144			
152	19.1	-	-	152			
160	18.7	-	-	160			
168	18.3	-	-	168			
176	17.9	-	-	176			
184	17.4	13.0	-	184			
192	16.6	12.9	-	192			
200	16.1	12.6	-	200			
208	15.6	12.0	-	208			
216	15.0	11.7	-	216			
224	14.7	11.4	-	224			
232	14.3	10.9	-	232			
240	-	10.7	-	240			
248	-	10.4	-	248			
256	-	10.1	-	256			
264	-	10.0	-	264			
272	-	9.9	-	272			

	132,300 lb	154,350 lb	176,400 lb	198,400 lb	220,500 lb	242,500 lb	264,600 lb	286,600 lb	308,600 lb	330,700 lb
--	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------

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.

Basic machine

Equipment carrier

Engine 460-5	Mercedes-Benz OM473; Diesel engine; Output 460 kW / 1600 1/min (617 HP), torque 3000 Nm / 1300 1/min; The engine complies with EU Stage V / Tier 4F; Exhaust system complete stainless steel with SCR catalyzer.
Fuel tank	Fuel tank 159 gallons Diesel (no RME / biodiesel); 25 gallons AdBlue tank.
Transmission G280-16TRC	Mercedes-Benz G280-16TRC; Automated gearbox with turbo retarder clutch; 16 forward speeds and 4 reverse; 1-stage transfer case with switchable longitudinal lock.
Axles 14 x 8 x 14	14 x 8 x 14; 7 axles, axles 2, 3, 6 and 7 are driven and dispose of selectable transverse lock; Axle 6 with a selectable longitudinal lock; All axles steered.
Suspension	Hydropneumatic suspension with axle load compensation; Hydraulically lockable.
Steering	Dual-circuit steering system with independent rear axle steering; Axles 1, 2, 3 mechanically connected; Axle 5 and 6/7 electro-hydraulically connected; Active rear axle steering with different steering programs.
Brakes	Pneumatic dual circuit service brake, acting on all wheels; Disc brakes; Hydraulic retarder integrated into transmission as wearless, sustained-action brake; Additional exhaust brake; Parking brake.
Tire size 385/95 R25 (14.00R25)	Tires size 385/95 R25 (14.00R25); Steel rim 9,5-25/1,7"; TechKing ETCRANE 170F or similar.
Cab 2850	Type 9.4 ft; Adjustable driver seat, armrests and pneumatic suspension; Height and tilt-adjustable steering wheel; Auxiliary / passenger seat; Powered door windows; Tinted glass; Central door locking; Electrically adjustable rear-view mirrors, heated; Radio; Seat heating.
Heating engine-dependent	Engine-dependent warm water heating with 12 kW heating power.
Aircondition	Aircondition for carrier cab, 7 kW rated cooling power.
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; Automatic or manual levelling; 5 outrigger bases: 8.9 ft, 13.2 ft, 18.0 ft, 22.9 ft and 27.7 ft.
Outrigger pads 038PA	4 round polyamide outrigger pads A = 1.25 ft ² with transport position at vertical cylinder.
Outrigger basis monitoring	Individual monitoring of horizontal stroke; Deviation warning in cab.
Outrigger load indicator	The outrigger load is indicated in the operator cab and the outrigger control box.
Electronic immobilizer system	Prevents uncontrolled carrier mobilization; Incl. 5 ignition keys.
Pneumatic tire filling plug	Pneumatic tire filling plug for self-inflating of the wheels.
Contour safety marking	Continuous reflective strips on the sides of the chassis and in the back.

Equipment superstructure

Telescopic boom HA80	48.6 ft - 262.5 ft; Single cylinder telescoping system, automatic telescoping; Attachments for all equipment and extensions; 6 sheaves integrated in boom head for max. capacity of 284,200 lb.
Boom luffing	1 luffing cylinder with automatic lowering brake valve.
Rotary drive	1 slewing gear unit with spring-loaded multi-disc brake.
H1	Hoist with spring-loaded multi-disc brake; Resolver (hoist rotation indicator); Incl. hoist monitoring.
Counterweight base frame 44,100 lb	44,100 lb (base frame); Self rigging with semiautomatic rigging system, rigging storage on carrier front; Expandable to max. 330,700 lb.
Control system	Enabling 4 simultaneous working movements; Electric pilot controls via 2 two-axis joysticks; Different control modes selectable for hydraulic circuits.
Operator aids	IC-1, with integrated load moment indicator acc. EN13000; Colour display; Displaying of current operating conditions, load charts, fault indicator; Signal lights indicating LMI-load; Crane data logger.
Working range limiter	Displaying and programmability of the work range limits by IC-1.
Hook height indication	Displaying and programmability of the hook height H1 by IC-1.
Cab 875	Type 2.87 ft; Tilt infinitely variable 16°; Sliding window rear; Fold-out front window; Extendable side pedestal, front pedestal; Handrails; Tinted safety glass; Pull-down sun visor; Radio; Seat heating.
Heating engine-independent	Engine independent warm water heating with 5 kW heating power.
Aircondition	Aircondition in crane cab with 5 kW rated cooling power.
Anemometer	Disconnectable, to allow use with all extensions.
Remote control	Control of rigging and superstructure movements via wireless remote control.
Central lubrication	Automatic central lubrication system for the lubricating points at the superstructure.

Additional equipment

Carrier

Engine 460 ECE R96	Mercedes-Benz OM473; Diesel engine; Output 460 kW / 1600 1/min (617 HP), torque 3000 Nm / 1300 1/min; The engine complies with ECE R96 (equivalent to former European regulation EU Stage IIIA / Tier 3); Exhaust system complete stainless steel with spark arrester.
Additional fuel tank	Additional fuel tank 53 gallons; For 211 gallons diesel total carrier (no RME / biodiesel).
Removable outrigger box rear	Removable outrigger box rear incl. hydraulic pinning system and quick connections.
Demag Surround View	360° view during road travelling; Speed dependent; Indication in display of carrier cabin. Usable as assistance system when entering jobsite with indication of outrigger positions and tailswing of counterweight.

Superstructure

Quick connection main boom (HA)	Hydraulic bolt extractors and hydraulic and electric quick couplings for fast main boom (dis-) assembly; Incl. switchable suspension calibration for light travel configurations without main boom; Incl. storage space for luffing cylinder.
Heavy lift attachment SSL	3 additional sheaves; For total 9 sheaves at boom head; Max. capacity of 425,500 lb.
2. hoist (H2)	Sideways Superlift; Capacity increasing boom guy support.
Additional counterweight 286,600 lb	2. hoist; Spring-loaded multi-disc brake; Integrated resolver (hoist rotation indicator); Incl. hoist monitoring and quick couplings.
Engine-independent aircondition	Additional counterweight 286,600 lb; 12 x 22,050 lb + 2 x 11,025 lb or 10 x 22,050 lb + 6 x 11,025 lb; For total 330,700 lb.
Load supervision camera	For superstructure cabin; Powered by auxiliary diesel power unit; Incl. electrical power supply.
	Camera mounted on main boom head to supervise the hook block and load from above; Incl. boom head light on boom head.

Handling

IC-1 Plus	Smart crane control system for main boom operation enabling higher lifting capacities especially over outriggers. Enables safe use of the full capacity of the crane even in asymmetric outrigger configurations. Outriggers can be positioned independently. Capacity precalculation for +/- 30° slewing angle and radius area. In-cab lift simulation.
IC-1 Remote	IC-1 Remote, Demag telematic system.

Extensions ft

WIHI 265.7 ft	265.7 ft; Luffing jib with 9.8 ft increments incl. bridle; 3-sheave head; Enables configuration WIHI 78.7 ft - 265.7 ft, LF 26.3 ft - 193.6 ft.
LF 193.6 ft	193.6 ft; Light fixed jib; 3-sheave head; Enables configuration LF 26.3 ft - 193.6 ft.
F-A 183.7 ft	183.7 ft; Fixed jib; Manual offset 20°/40°; 3-sheave head; Enables configuration F-A 36.1 ft - 183.7 ft, LF 26.3 ft - 55.8 ft.
F-A-HY 183.7 ft	183.7 ft; Fixed jib; Hydraulic, stepless offset 0°-40°; 3-sheave head; Enables configuration F-A-HY 36.1 ft - 183.7 ft, LF 26.3 ft - 55.8 ft.
MS (Runner)	6.6 ft; Assembly jib with fixed angle, 2-sheaved for max. capacity 102,700 lb; Operation on main boom and all extensions possible.

Hook Blocks

Hook block 200-9-23-D-2000	200-9-23-D (4,410 lb); Hook block with ramshorn hook; with white red signal stripes.
Hook block 160-7-23-D-1900	160-7-23-D (4,190 lb); Hook block with ramshorn hook; with white red signal stripes.
Hook block 125-5-23-D-1400	125-5-23-D (3,100 lb); Hook block with ramshorn hook; with white red signal stripes.
Hook block 80-3-23-D-1200	80-3-23-D (2,650 lb); Hook block with ramshorn hook; with white red signal stripes.
Hook block 40-1-23-D-900	40-1-23-D (1,980 lb); Hook block with ramshorn hook; white with red signal stripes.
Hook 12-0-24-E-500	12-0-24-E (1,100 lb); 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.

December 2020. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the corresponding Operator's Manual when using our equipment or to otherwise act responsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Tadano makes no other warranty, express or implied. All rights reserved. Products and services listed may be trademarks, service marks or trade-names of Tadano Ltd.

© Tadano Demag GmbH 2020. Tadano and Demag are trademarks of or licensed by Tadano Ltd. or its subsidiaries.



Tadano Demag GmbH
Europa Allee 2
66482 Zweibrücken
Germany
T +49 6332 830

info.demag@tadano.com
www.demagmobilecranes.com



Tadano Ltd. (International Division)
4-12, Kamezawa 2-chome
Sumida-ku Tokyo 130-0014, Japan
E info@tadano.com T 81-3-3621-7750
www.tadano.com

Courtesy of CraneMarket.com