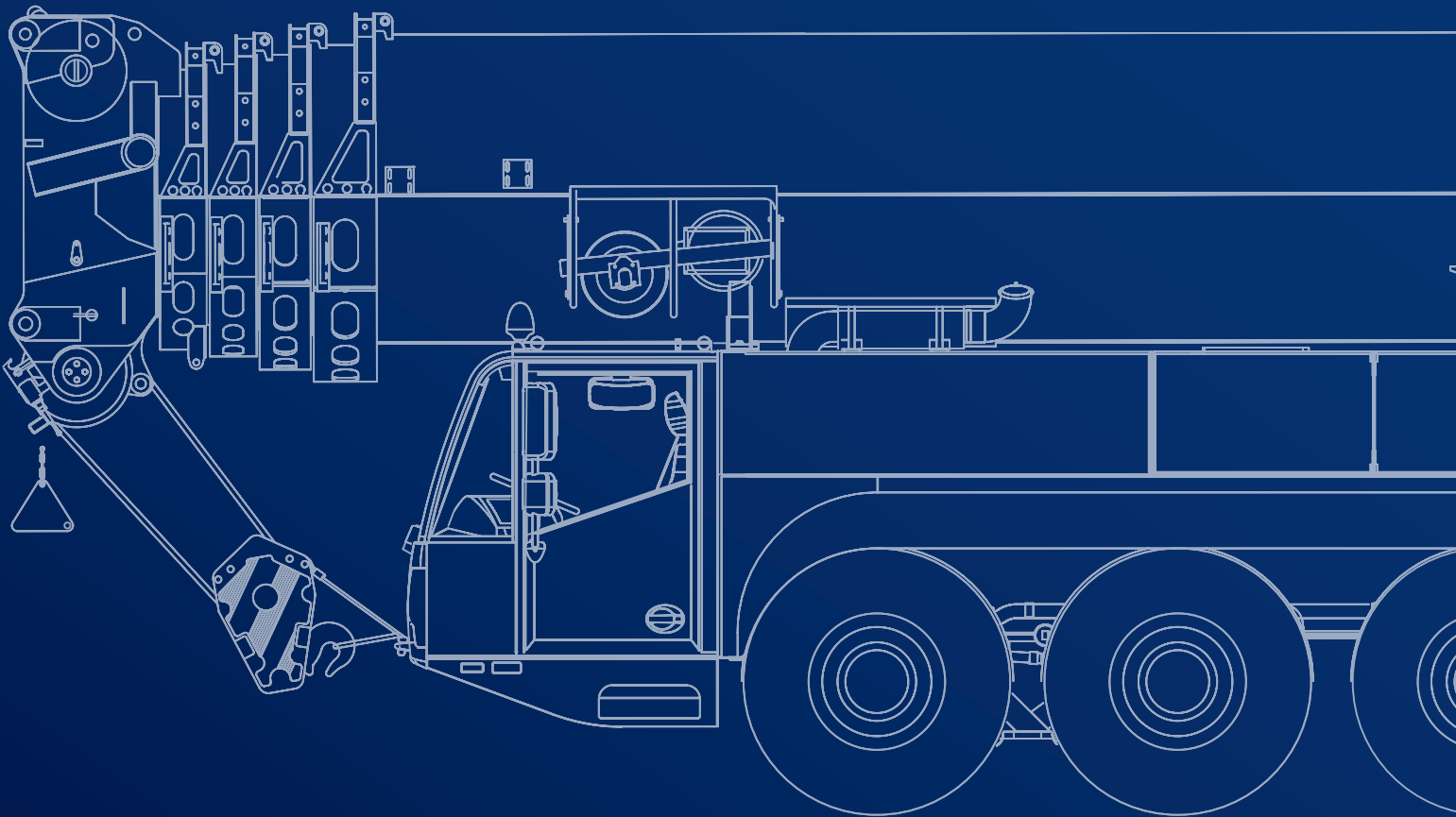


# **AC 8.500-1**

**600 US TON MAX. CRANE CAPACITY**



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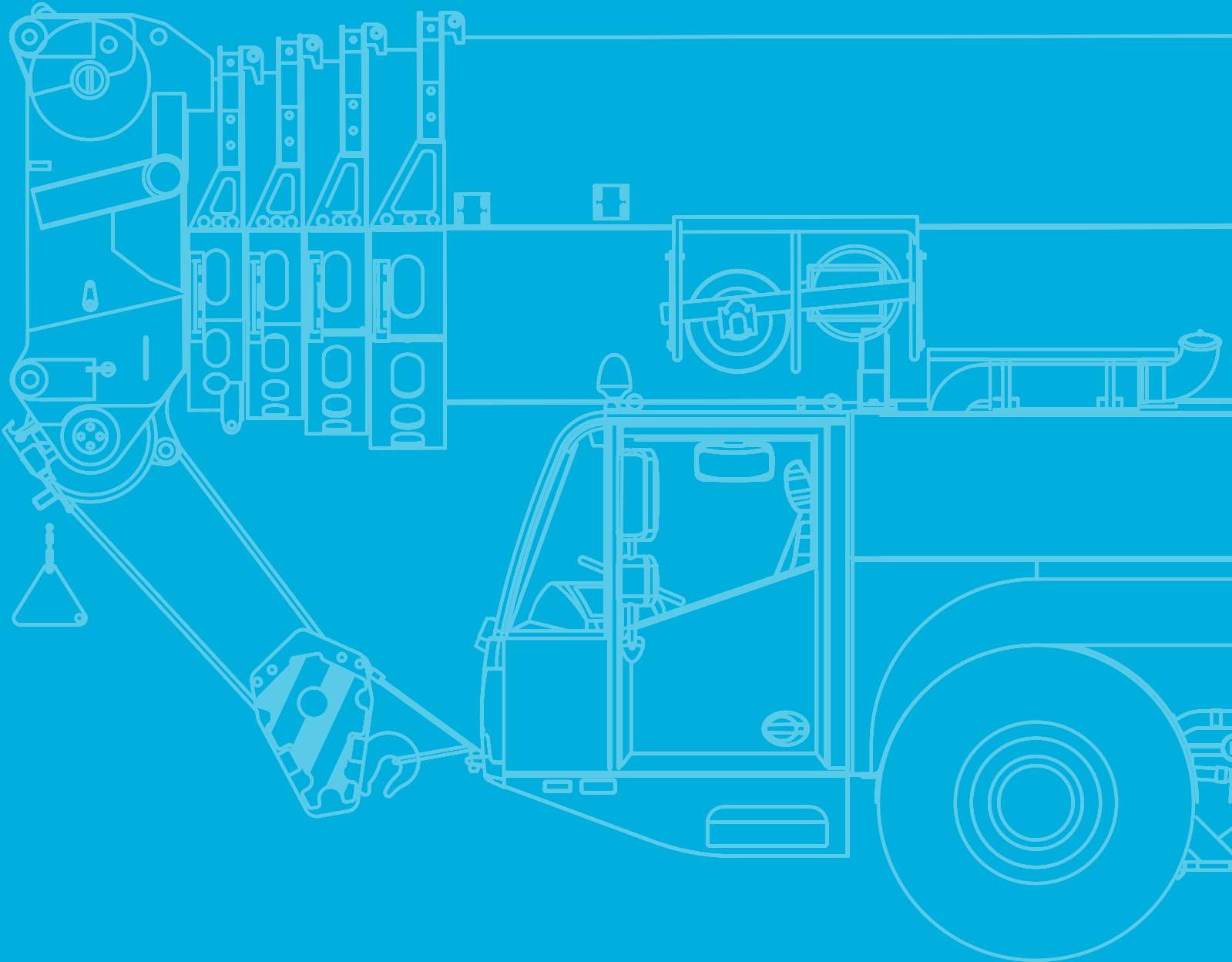
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# Key

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

# GENERAL TECHNICAL DATA

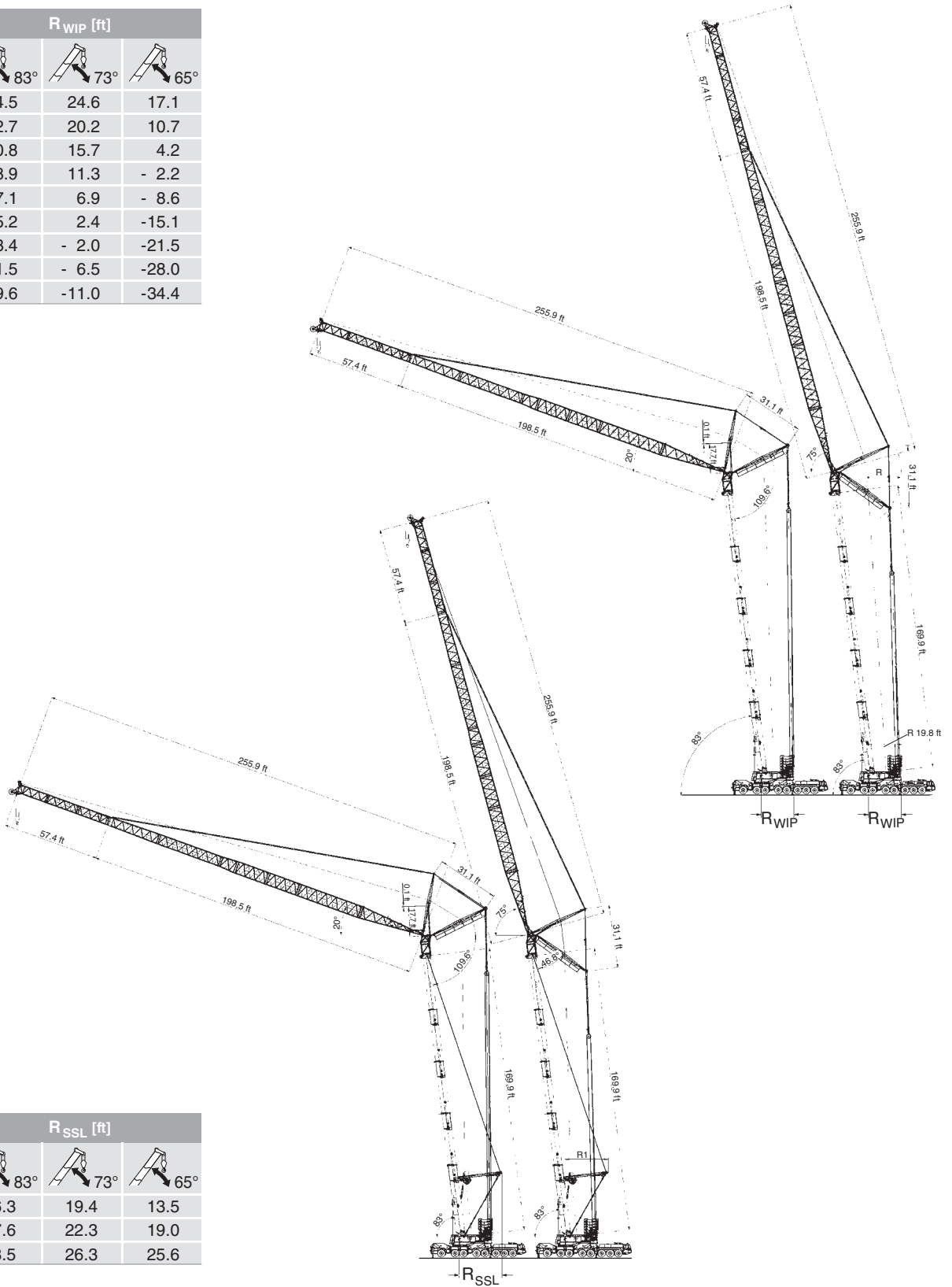




# General

## Vehicle dimensions

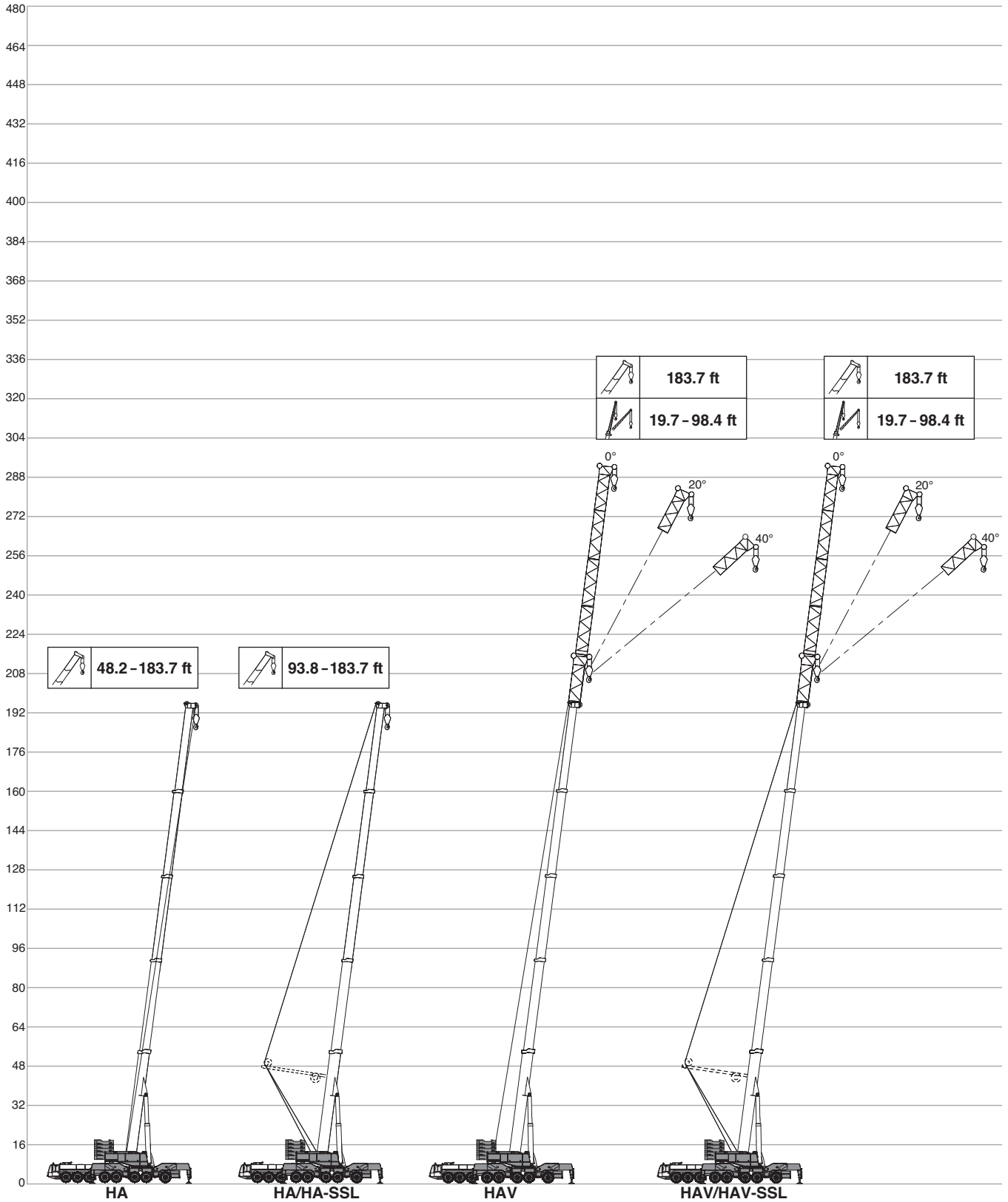
[ft]	R <sub>WIP</sub> [ft]		
	83°	73°	65°
48.2	34.5	24.6	17.1
63.3	32.7	20.2	10.7
78.7	30.8	15.7	4.2
93.8	28.9	11.3	- 2.2
108.9	27.1	6.9	- 8.6
124.3	25.2	2.4	-15.1
139.4	23.4	- 2.0	-21.5
154.9	21.5	- 6.5	-28.0
169.9	19.6	-11.0	-34.4



[°]	R <sub>SSL</sub> [ft]		
	83°	73°	65°
0	26.3	19.4	13.5
30	27.6	22.3	19.0
60	28.5	26.3	25.6

# General

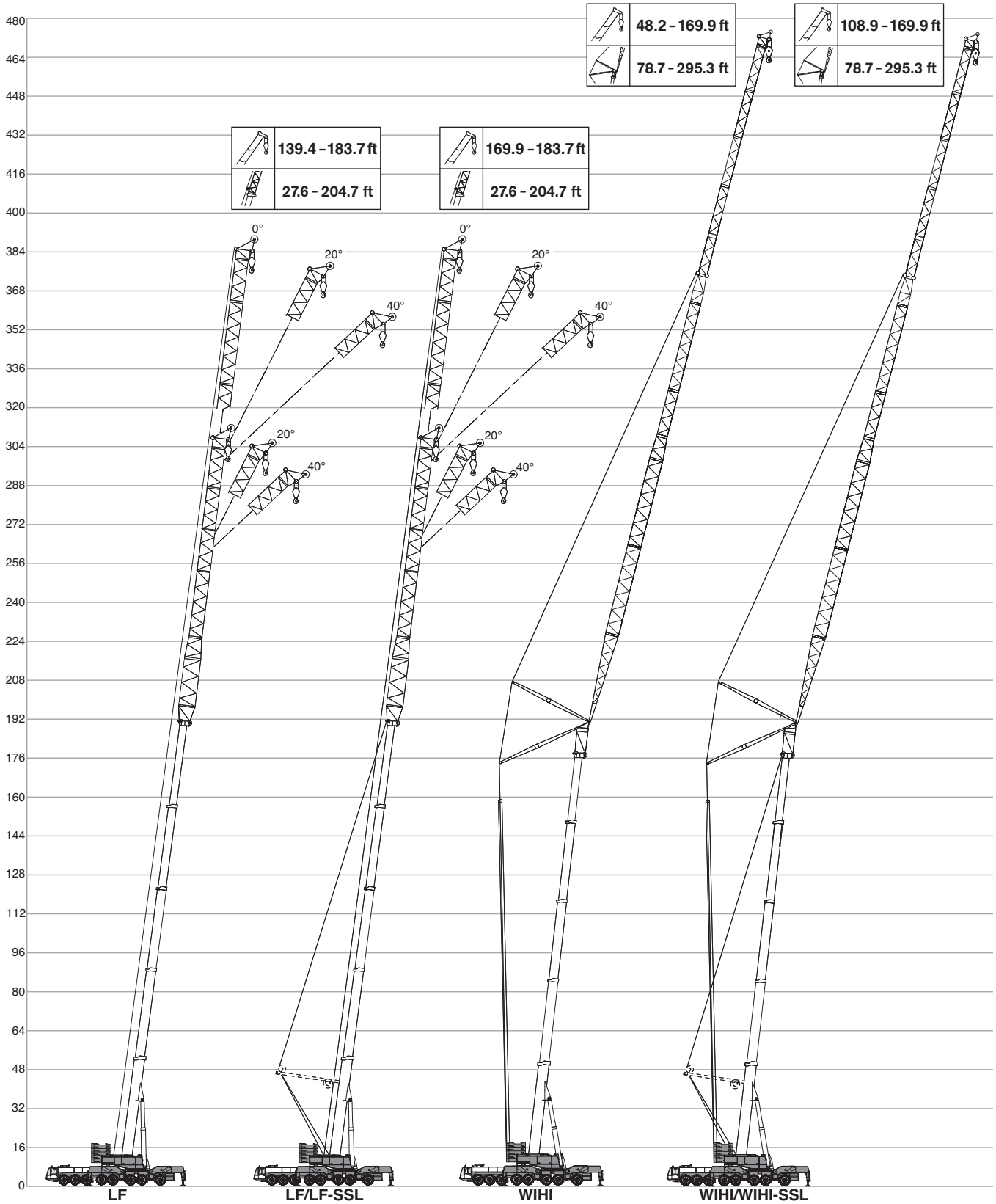
## Boom combinations





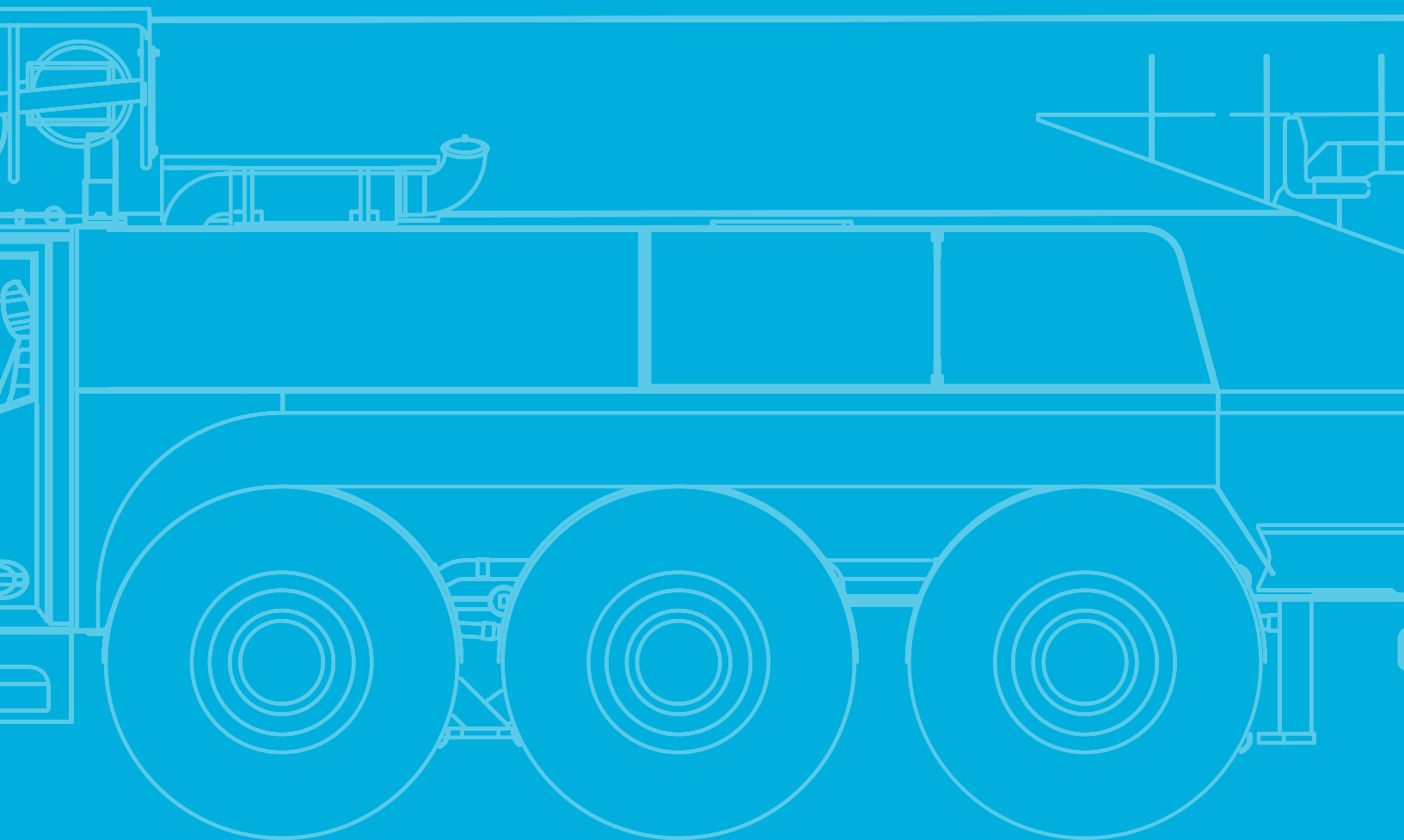
# General

## Boom combinations


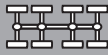













# TECHNICAL DATA FOR ON-ROAD AND OFF-ROAD DRIVING


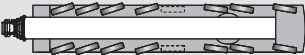



# On-road and off-road driving

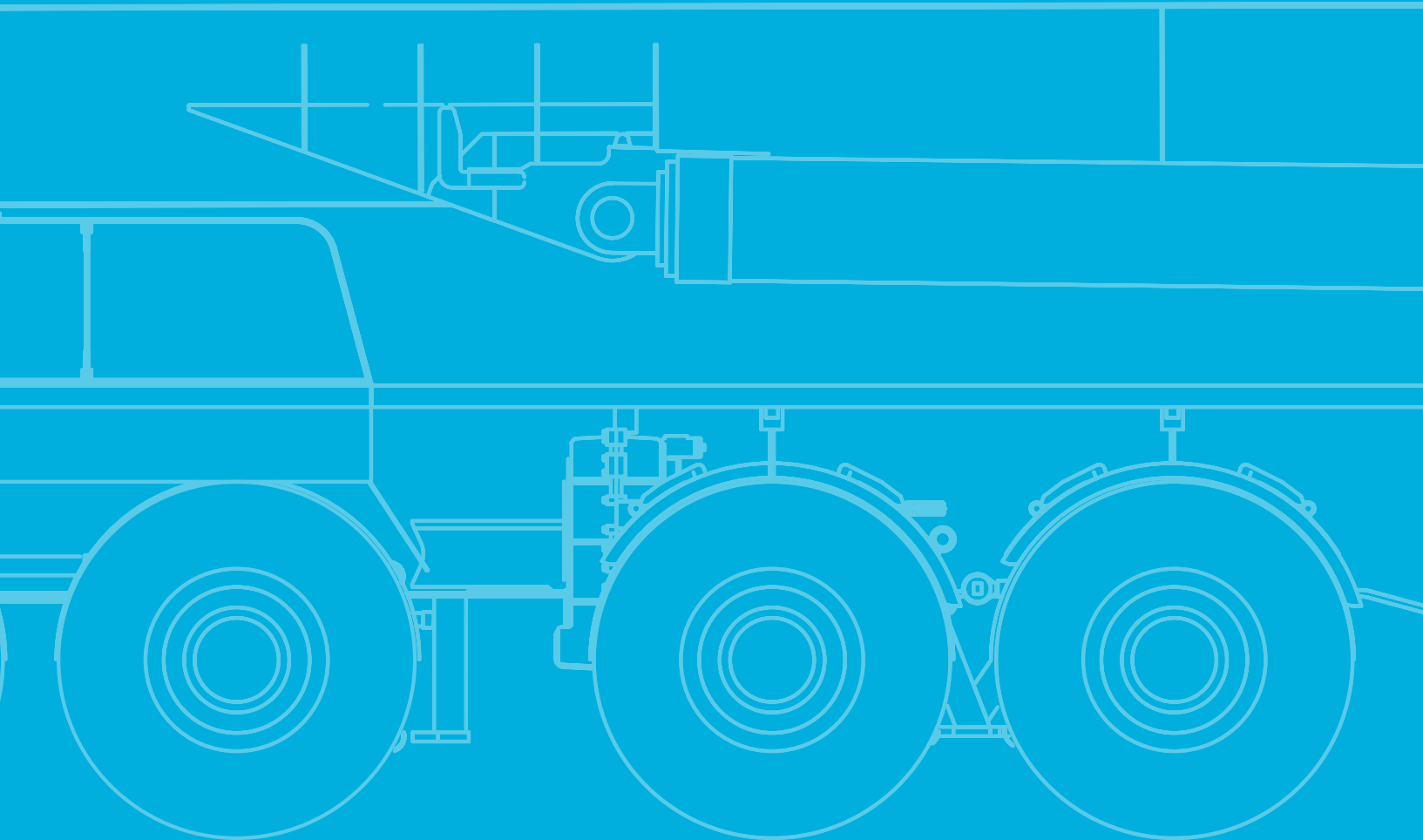
Axle loads								
	Total							
< 19,400 lbs	< 114,600 lbs	16 x 8 x 14	14.00R25	–	–	–	–	–
< 26,500 lbs	< 191,800 lbs	16 x 8 x 14	14.00R25	–	–	–	X	–
< 26,500 lbs	< 209,400 lbs	16 x 8 x 14	14.00R25	88,200 lbs	–	X	X	–
< 28,700 lbs	< 220,500 lbs	16 x 8 x 14	14.00R25	88,200 lbs	X	X	X	–
< 32,000 lbs	< 233,700 lbs	16 x 8 x 14	14.00R25	88,200 lbs	–	X	X	X
< 34,400 lbs	< 251,300 lbs	16 x 8 x 14	14.00R25	220,500 lbs	X	X	X	X

Speeds and gradeability		
	385/95 R 25 14.00 R 25	445/80 R 25 17.50 R 25
	41 %	41 %
	49.7 mph <sup>1)</sup>	

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

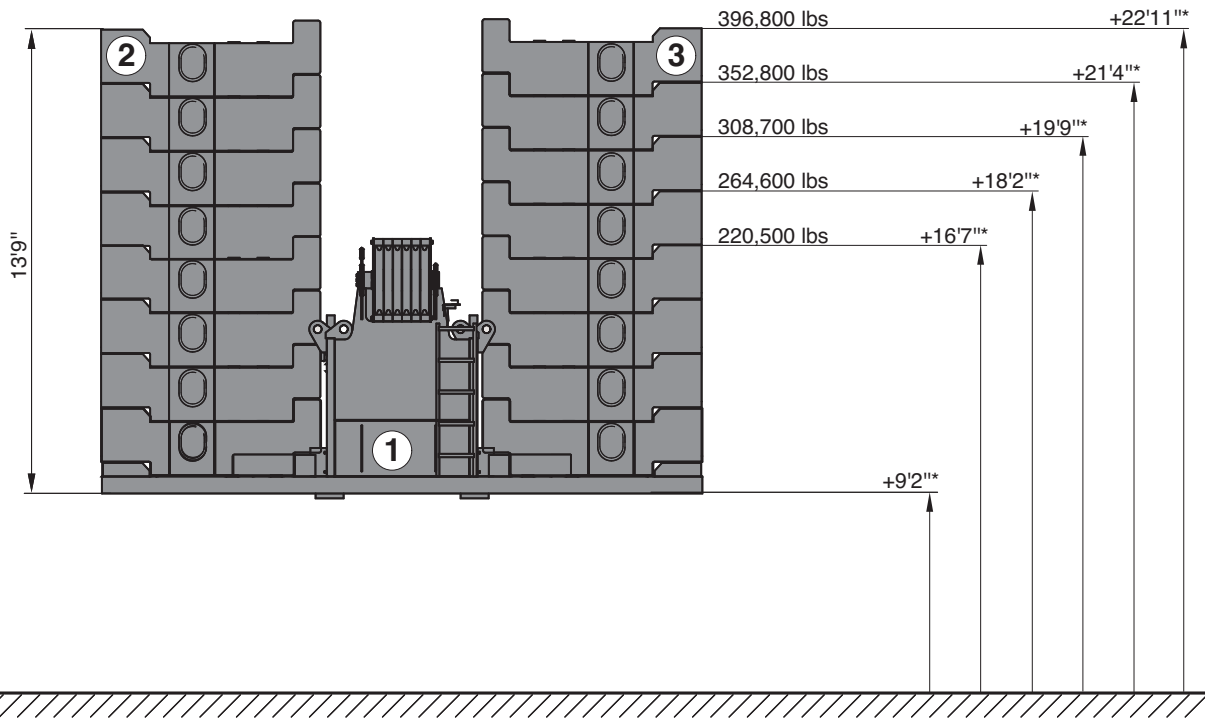
Steering	
	1 Road Travel
	2 Manually steered
	3 Crab steer mode

# TECHNICAL DATA FOR TRANSPORT



# Transportation

## Counterweight



\* Tail swing above ground

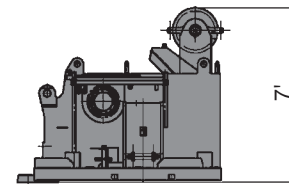
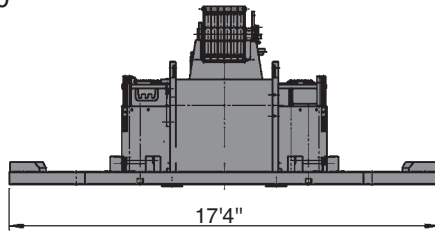
## Configurations

	44,100 lbs	88,200 lbs	132,300 lbs	176,400 lbs	220,500 lbs	264,600 lbs	308,700 lbs	352,800 lbs	396,800 lbs
① 44,100 lbs	1	1	1	1	1	1	1	1	1
② 22,050 lbs		1	2	3	4	5	6	7	8
③ 22,050 lbs		1	2	3	4	5	6	7	8

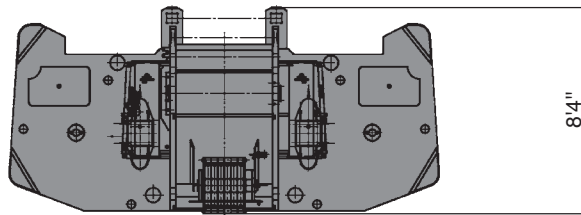
# Transportation

## Counterweight

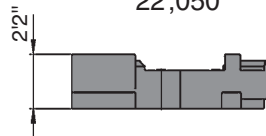
**lbs**  
44,100



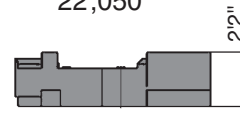
①



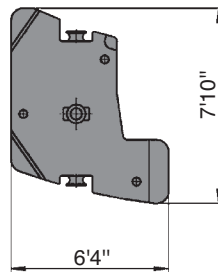
**lbs**  
22,050



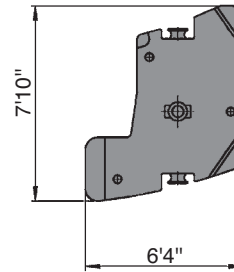
**lbs**  
22,050



②



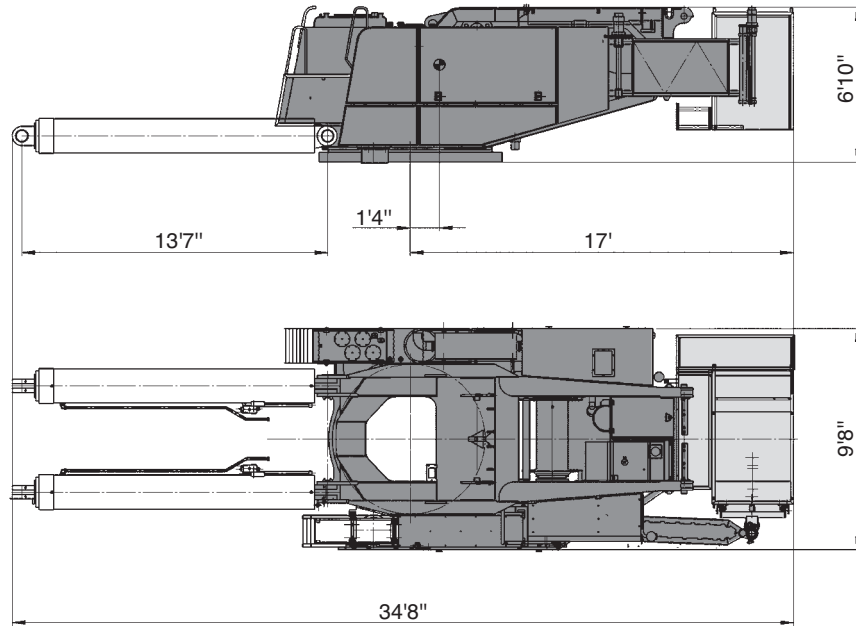
③



# Transportation

## Superstructure with luffing cylinder

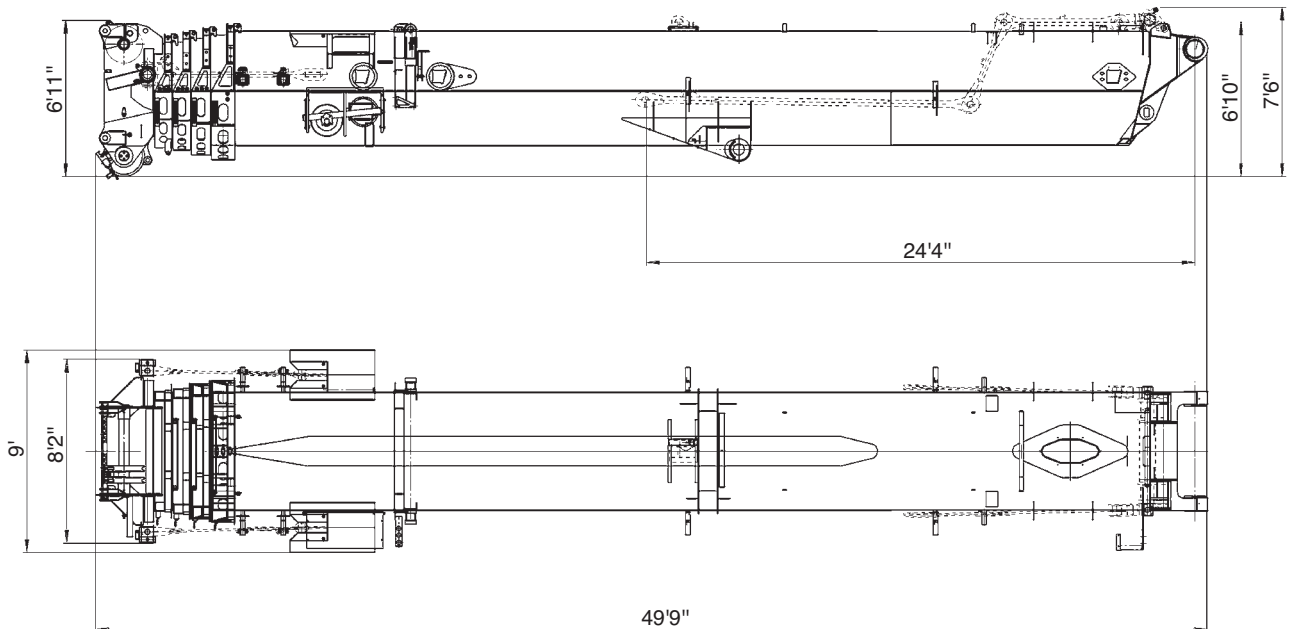
  
44,100\*



\* incl. luffing cylinder

## Main boom

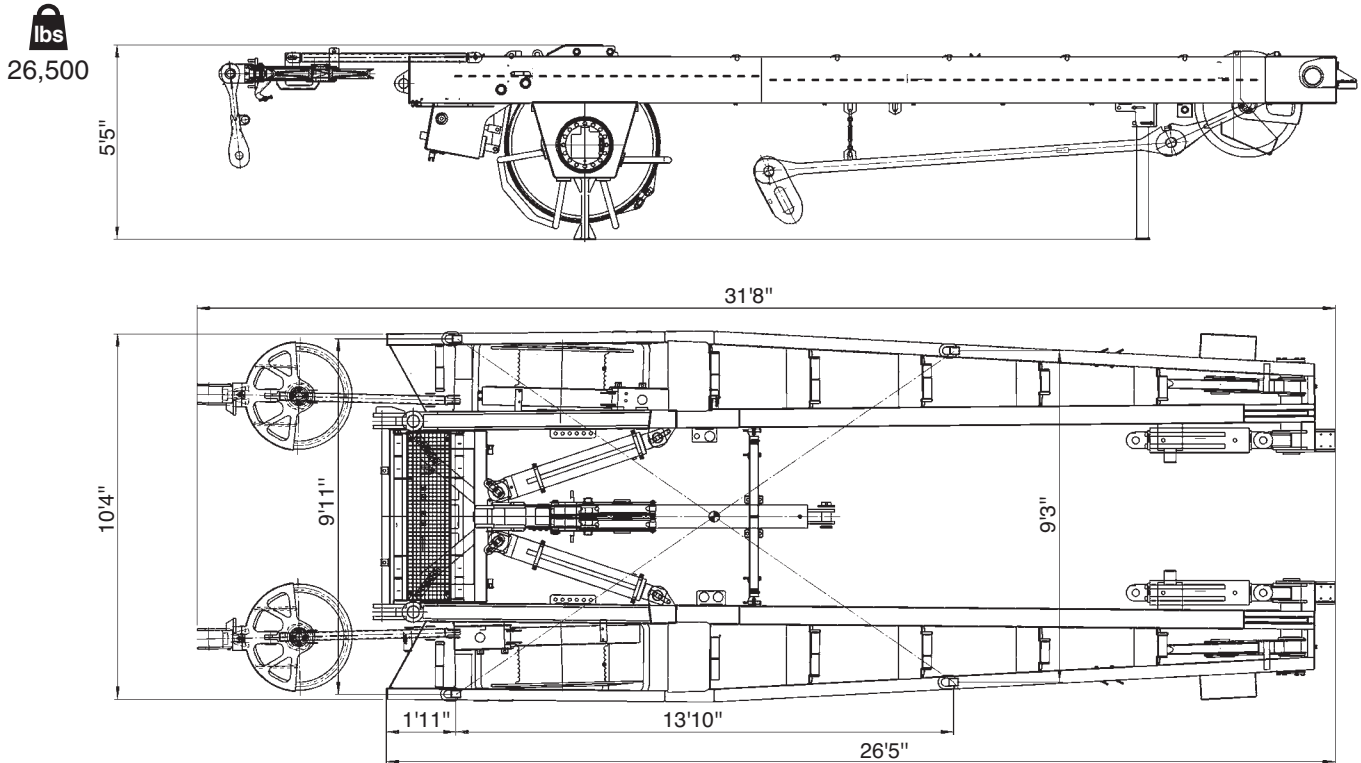
  
77,200



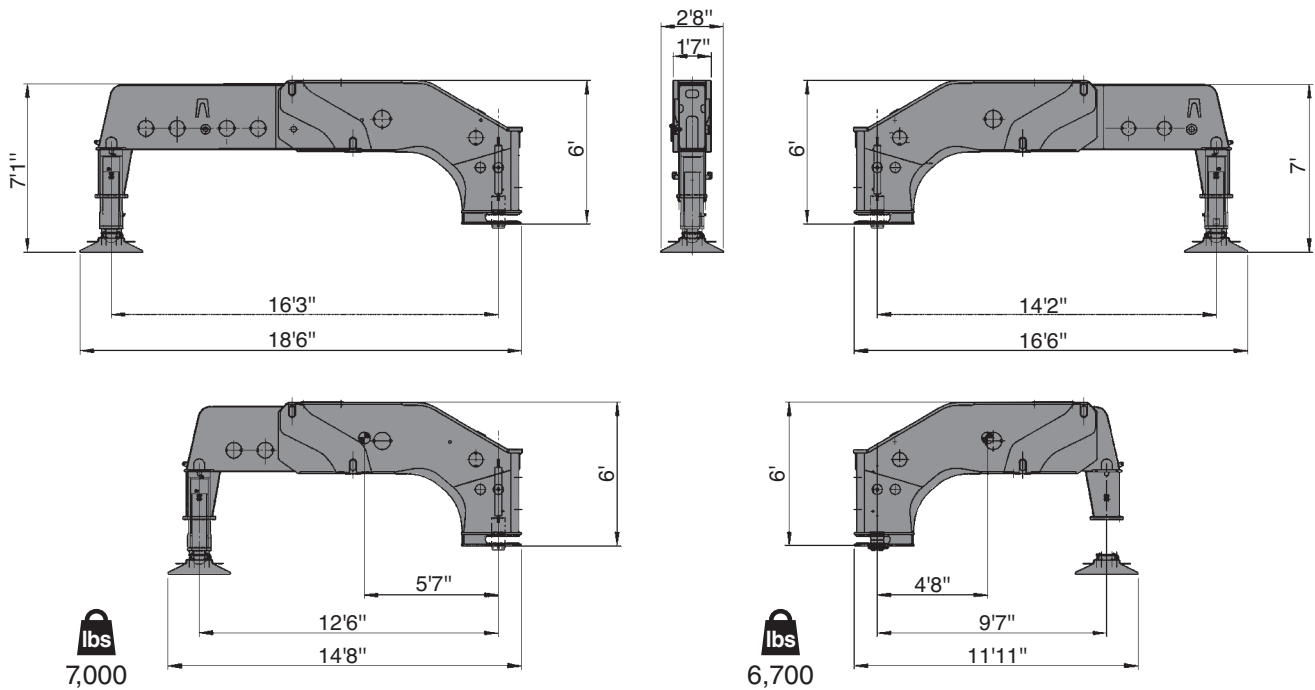


# Transportation

## Sideways Superlift (SSL)

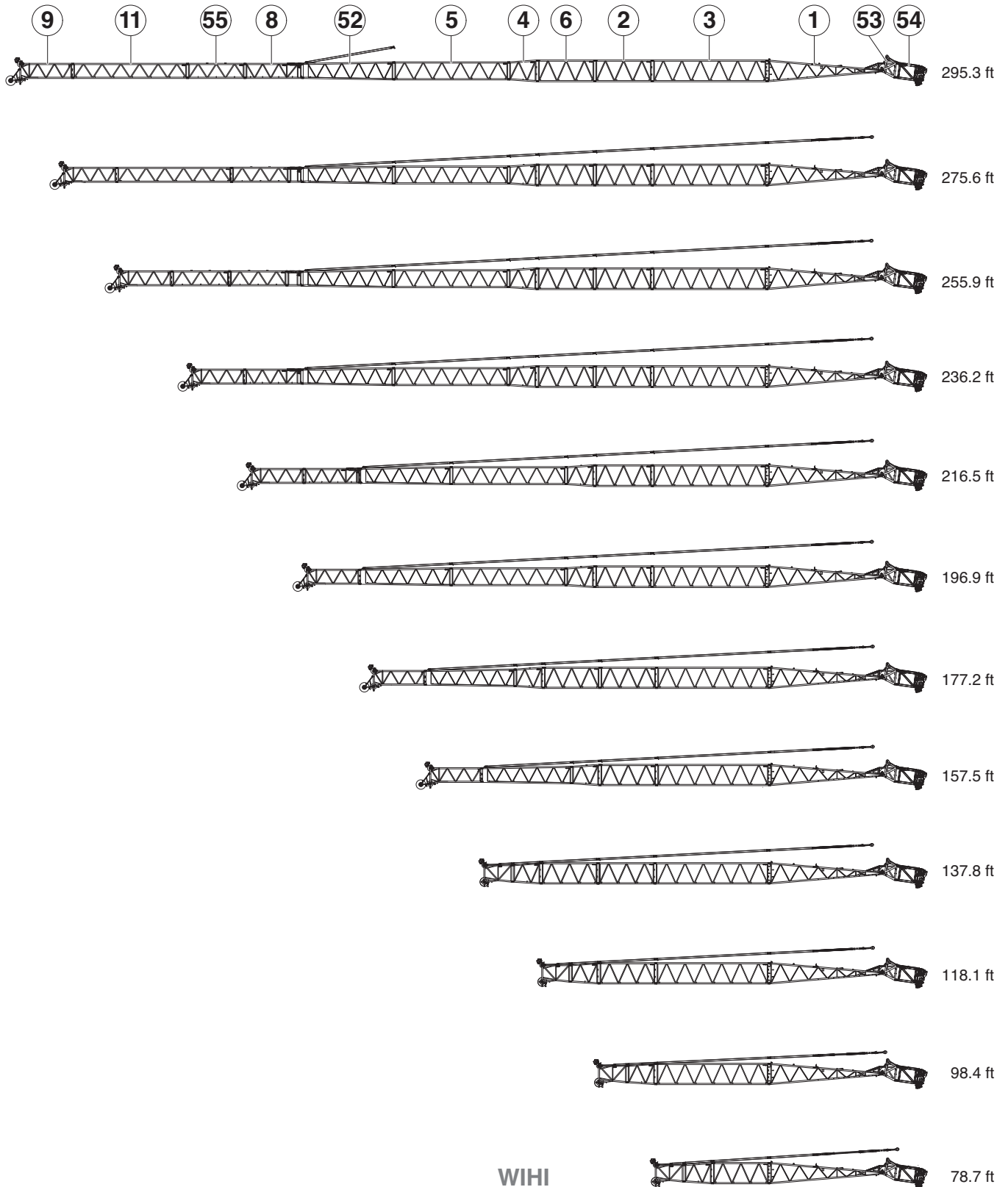


## Outriggers



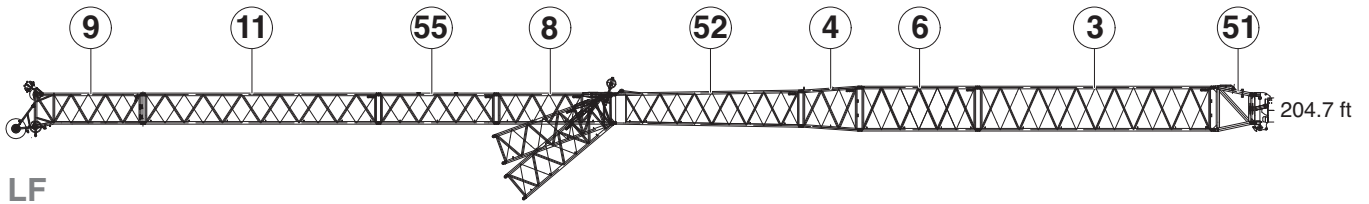
# Transportation

## Jib

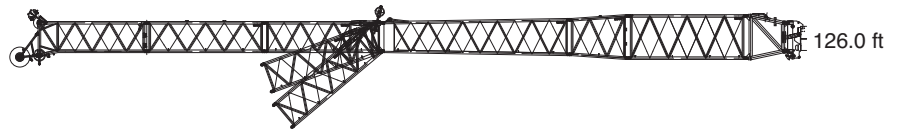
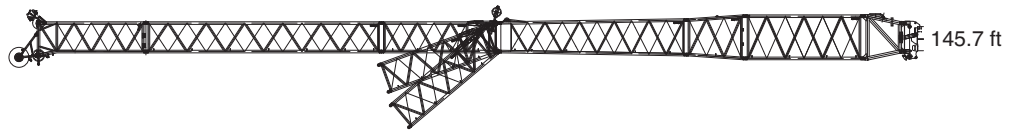
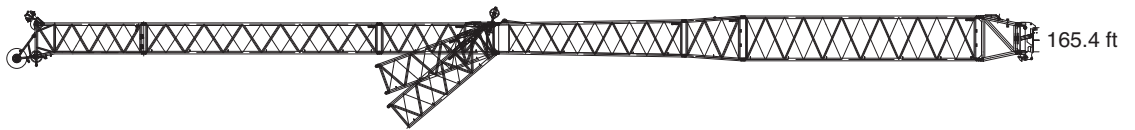
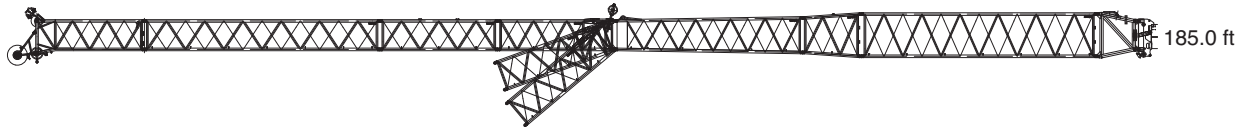


# Transportation

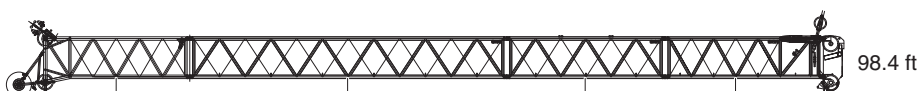
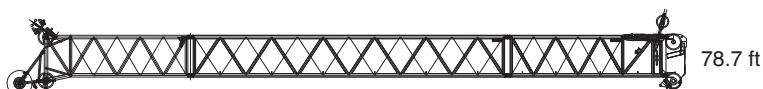
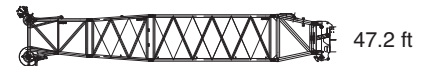
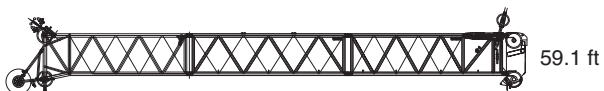
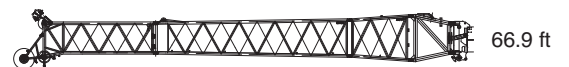
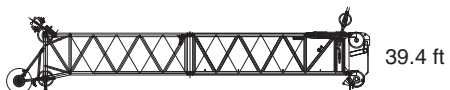
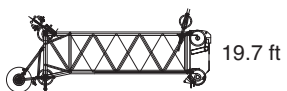
## Jib



## LF



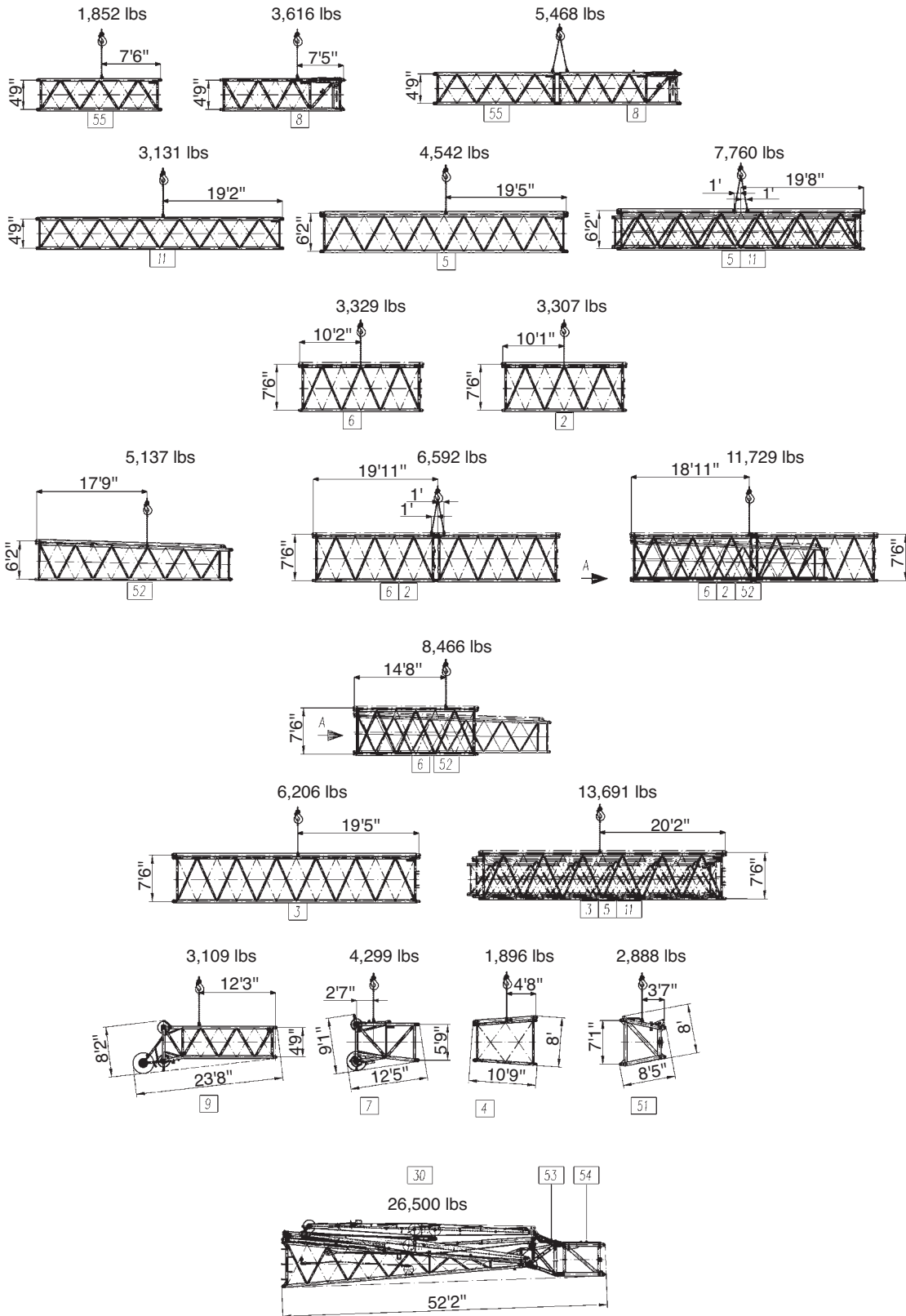
## HAV



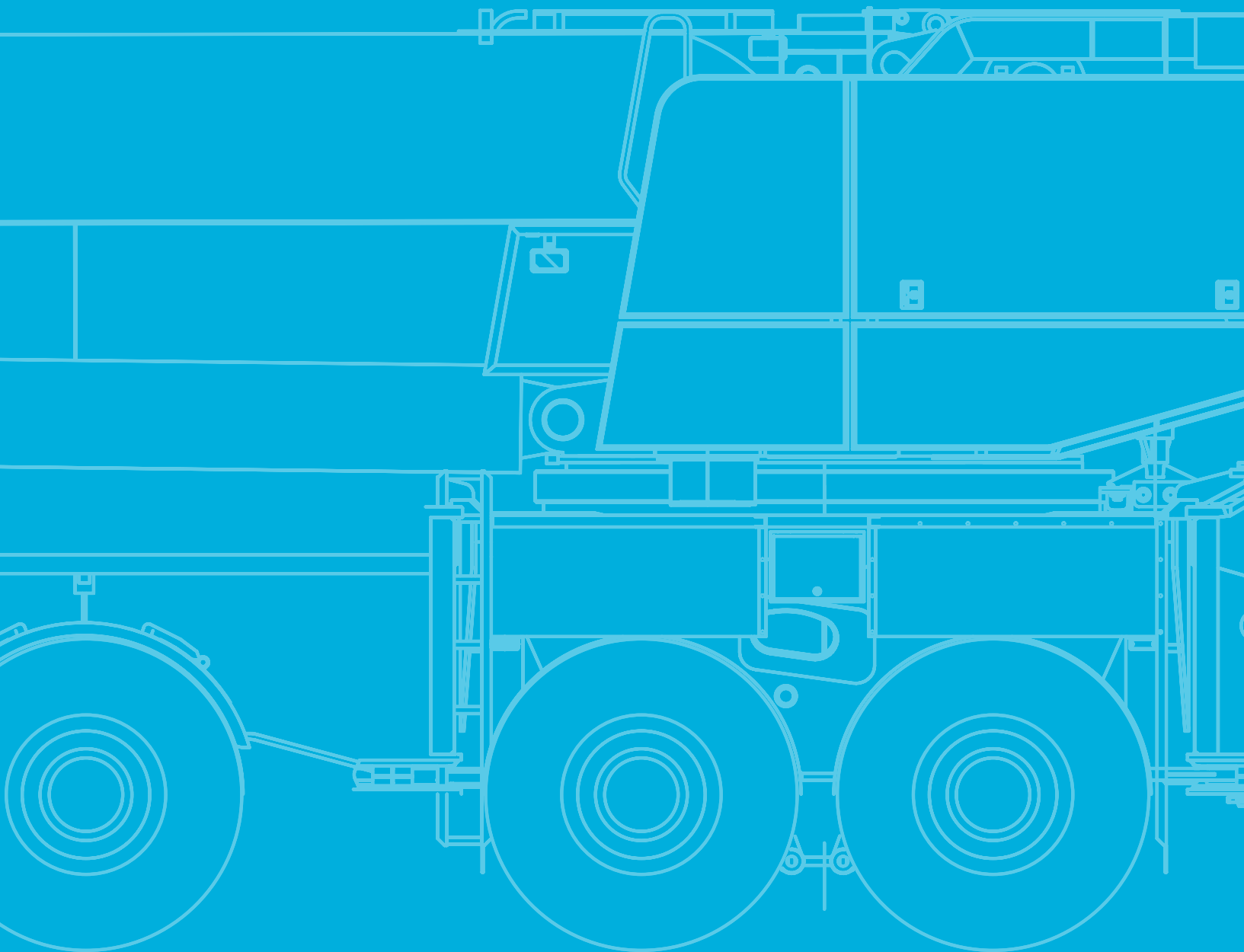
9 11 55 8

# Transportation

## Jib



# TECHNICAL DATA FOR OPERATION





# Operation

## Main boom



420 s (48.2 - 183.7 ft)



85 s (0° - 83°)

## Slewing



0.9 min<sup>-1</sup>

## Hoist

	380 ft/min	28,200 lbf	0.94 in	1969 ft
	466 ft/min	28,200 lbf	0.94 in	2362 ft

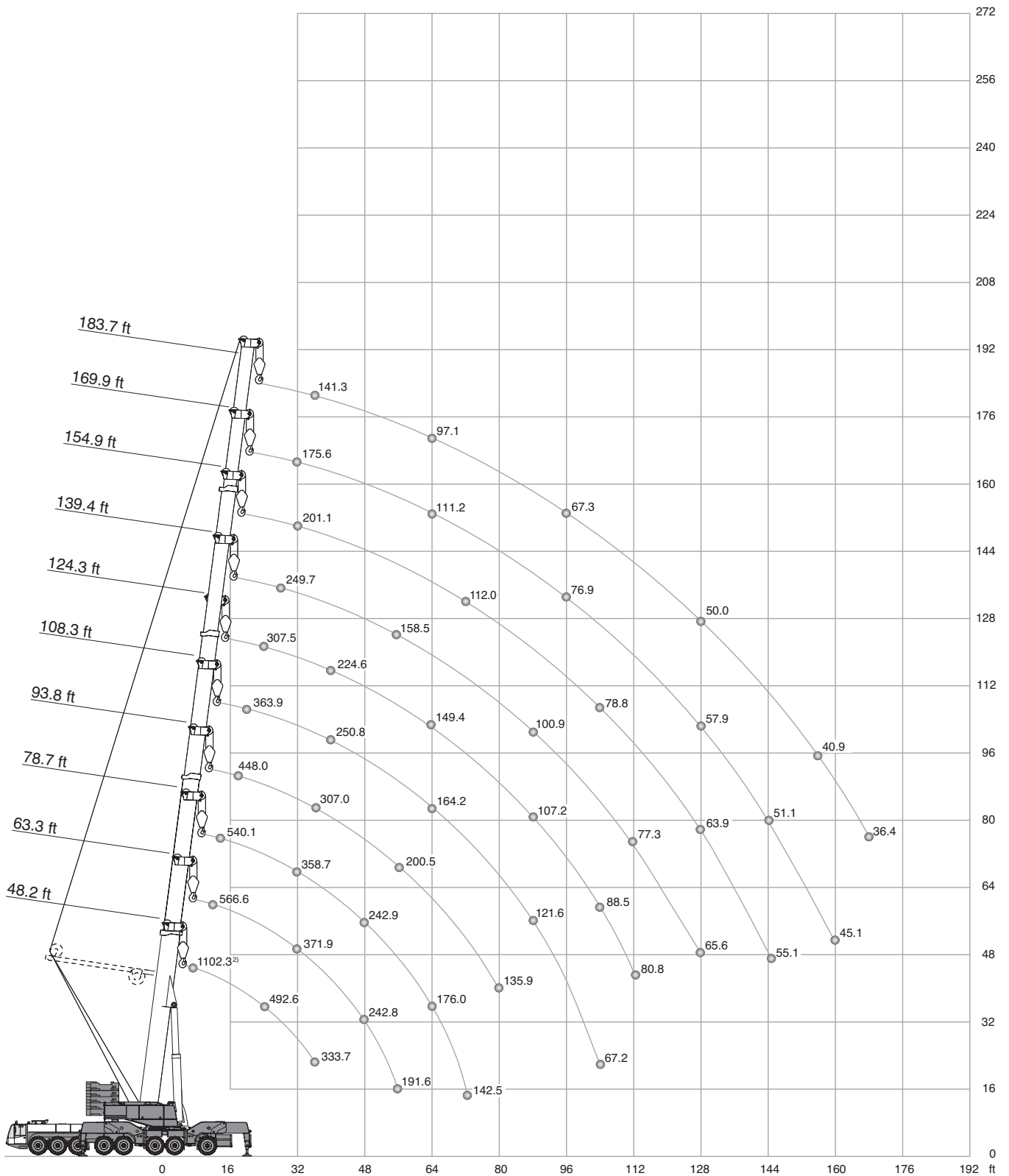
## Outrigger cylinders

	395,000 lbs	434,400 lbs
	21.7 in	21.7 in

## Hook Blocks



27,600 lbs	27,600 lbs	—	1	1,100 lbs	6.6 ft
88,200 lbs	82,900 lbs	1	3	1,650 lbs	8.9 ft
220,500 lbs	189,400 lbs	3	7	4,000 lbs	9.8 ft
352,800 lbs	292,000 lbs	5	11	4,900 lbs	9.8 ft
441,000 lbs	390,200 lbs	7	15	5,100 lbs	9.8 ft
551,250 lbs	484,800 lbs	9	19	5,700 lbs	14.8 ft
705,600 lbs	553,100 lbs	11	22	7,100 lbs	14.8 ft





2) Max. crane capacity – with additional special equipment



# Operation



# HA / HA-ZA / HA-SA

396,800 lbs		360°												ASME B30.5		
		48.2ft <sup>1)</sup>	48.2ft	63.3ft <sup>1)</sup>	63.3ft	78.7ft <sup>1)</sup>	78.7ft	93.8ft	108.9ft	124.3ft	139.4ft	154.9ft	169.9ft	183.7ft		
ft	1,000 lbs														ft	
8	1102.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
10	929.6**	551.2	-	-	-	-	-	-	-	-	-	-	-	-	-	10
12	815.6**	551.2	566.6*	551.2	-	-	-	-	-	-	-	-	-	-	-	12
14	728.7**	551.2	566.6*	551.2	540.1	540.1	-	-	-	-	-	-	-	-	-	14
16	659.0**	551.2	566.6*	551.2	540.1	540.1	-	-	-	-	-	-	-	-	-	16
18	607.4**	526.5	558.0*	525.4	527.3	519.8	448.0	-	-	-	-	-	-	-	-	18
20	561.1*	495.6	543.0	495.6	509.0	493.4	429.6	363.9	-	-	-	-	-	-	-	20
24	492.6	435.9	471.2	436.5	451.3	434.3	396.6	337.0	307.5	-	-	-	-	-	-	24
28	429.3	386.8	415.3	387.8	401.1	386.8	364.0	312.5	284.8	249.7	-	-	-	-	-	28
32	374.1	347.1	371.9	348.8	358.7	347.1	334.5	290.9	263.9	232.5	201.1	175.6	-	-	-	32
36	333.7	315.9	332.7	318.1	323.7	315.9	307.0	270.5	244.1	218.0	188.0	165.1	141.3	-	-	36
40	-	-	295.4	289.4	291.4	287.4	280.6	250.8	224.6	204.1	175.6	155.1	133.8	-	-	40
48	-	-	242.8	243.8	242.9	243.0	234.9	216.9	193.8	179.6	155.3	138.0	120.1	-	-	48
56	-	-	191.6	195.0	205.2	205.5	200.5	187.7	168.8	158.5	138.6	123.5	107.8	-	-	56
64	-	-	-	-	176.0	176.1	175.0	164.2	149.4	140.4	124.2	111.2	97.1	-	-	64
72	-	-	-	-	142.5	142.8	155.0	146.3	133.1	124.9	112.0	100.5	87.7	-	-	72
80	-	-	-	-	-	-	135.9	132.7	119.3	111.9	101.5	91.5	79.8	-	-	80
88	-	-	-	-	-	-	-	121.6	107.2	100.9	92.5	83.8	73.1	-	-	88
96	-	-	-	-	-	-	-	109.1	96.7	91.7	85.0	76.9	67.3	-	-	96
104	-	-	-	-	-	-	-	67.2	88.5	84.2	78.8	71.2	62.5	-	-	104
112	-	-	-	-	-	-	-	-	80.8	77.3	73.2	65.9	57.8	-	-	112
120	-	-	-	-	-	-	-	-	-	71.4	68.5	61.8	53.7	-	-	120
128	-	-	-	-	-	-	-	-	-	65.6	63.9	57.9	50.0	-	-	128
136	-	-	-	-	-	-	-	-	-	-	59.6	54.4	46.6	-	-	136
144	-	-	-	-	-	-	-	-	-	-	55.1	51.1	43.8	-	-	144
152	-	-	-	-	-	-	-	-	-	-	-	48.1	40.9	-	-	152
160	-	-	-	-	-	-	-	-	-	-	-	45.1	38.6	-	-	160
168	-	-	-	-	-	-	-	-	-	-	-	-	36.4	-	-	168

\*\* over rear

\*, \*\* HA-SA:



Main boom with special equipment



1) HA-ZA =  396,800 lbs + 

2) Max. crane capacity – with additional special equipment

# Operation

HA




☰ 352,800 lbs		360° / Max.*										ASME B30.5	
		360° 48.2 ft	Max. 48.2 ft	360° 63.3 ft	Max. 63.3 ft	360° 78.7 ft	Max. 78.7 ft	360° 93.8 ft	Max. 93.8 ft	360° 108.9 ft	Max. 108.9 ft		
ft	1,000 lbs											ft	
10	551.2	551.2	-	-	-	-	-	-	-	-	-	-	10
12	551.2	551.2	-	-	-	-	-	-	-	-	-	-	12
14	551.2	551.2	551.2	551.2	540.1	540.1	-	-	-	-	-	-	14
16	551.2	551.2	551.2	551.2	540.1	540.1	-	-	-	-	-	-	16
18	523.3	526.5	523.3	525.4	517.6	519.8	448.0	448.0	-	-	-	-	18
20	489.0	495.6	489.0	495.6	489.0	493.4	429.6	429.6	363.9	363.9	-	-	20
24	429.9	435.8	429.9	436.5	429.9	434.3	396.6	396.6	337.0	337.0	-	-	24
28	382.4	386.8	382.4	387.8	382.4	386.8	364.0	364.0	312.5	312.5	-	-	28
32	344.4	344.4	344.4	344.4	342.7	342.7	334.5	334.5	290.9	290.9	-	-	32
36	313.7	313.7	313.7	313.7	311.5	311.5	307.0	307.0	270.5	270.5	-	-	36
40	-	-	284.8	284.8	282.6	282.6	280.6	280.6	250.8	250.8	-	-	40
48	-	-	236.6	236.6	234.2	234.2	234.9	234.9	216.9	216.9	-	-	48
56	-	-	191.1	191.1	197.3	197.3	199.3	199.3	187.7	187.7	-	-	56
64	-	-	-	-	168.9	168.9	170.8	170.8	164.2	164.2	-	-	64
72	-	-	-	-	142.6	142.6	148.4	148.4	146.3	146.3	-	-	72
80	-	-	-	-	-	-	130.0	130.0	132.2	132.2	-	-	80
88	-	-	-	-	-	-	-	-	118.3	118.3	-	-	88
96	-	-	-	-	-	-	-	-	105.8	105.8	-	-	96
104	-	-	-	-	-	-	-	-	67.2	67.2	-	-	104




		360° 124.3 ft	Max. 124.3 ft	360° 139.4 ft	Max. 139.4 ft	360° 154.9 ft	Max. 154.9 ft	360° 169.9 ft	Max. 169.9 ft	360° 183.7 ft	Max. 183.7 ft		
ft	1,000 lbs											ft	
24	307.5	307.5	-	-	-	-	-	-	-	-	-	-	24
28	284.8	284.8	249.7	249.7	-	-	-	-	-	-	-	-	28
32	263.9	263.9	232.5	232.5	201.1	201.1	175.6	175.6	-	-	-	-	32
36	244.1	244.1	218.0	218.0	188.0	188.0	165.1	165.1	141.3	141.3	-	-	36
40	224.6	224.6	204.1	204.1	175.6	175.6	155.1	155.1	133.8	133.8	-	-	40
48	193.8	193.8	179.6	179.6	155.3	155.3	138.0	138.0	120.1	120.1	-	-	48
56	168.8	168.8	158.5	158.5	138.6	138.6	123.5	123.5	107.8	107.8	-	-	56
64	149.4	149.4	140.4	140.4	124.2	124.2	111.2	111.2	97.1	97.1	-	-	64
72	133.1	133.1	124.9	124.9	112.0	112.0	100.5	100.5	87.7	87.7	-	-	72
80	119.3	119.3	111.9	111.9	101.5	101.5	91.5	91.5	79.8	79.8	-	-	80
88	107.2	107.2	100.9	100.9	92.5	92.5	83.8	83.8	73.1	73.1	-	-	88
96	96.7	96.7	91.7	91.7	85.0	85.0	76.9	76.9	67.3	67.3	-	-	96
104	88.5	88.5	84.2	84.2	78.8	78.8	71.2	71.2	62.5	62.5	-	-	104
112	80.8	80.8	77.3	77.3	73.2	73.2	65.9	65.9	57.8	57.8	-	-	112
120	-	-	71.4	71.4	68.5	68.5	61.8	61.8	53.7	53.7	-	-	120
128	-	-	65.6	65.6	63.9	63.9	57.9	57.9	50.0	50.0	-	-	128
136	-	-	-	-	59.6	59.6	54.4	54.4	46.6	46.6	-	-	136
144	-	-	-	-	55.1	55.1	51.1	51.1	43.8	43.8	-	-	144
152	-	-	-	-	-	-	48.1	48.1	40.9	40.9	-	-	152
160	-	-	-	-	-	-	-	-	38.6	38.6	-	-	160
168	-	-	-	-	-	-	-	-	36.4	36.4	-	-	168

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

# Operation

HA

☰ 264,600 lbs		360° / Max.*								ASME B30.5		
		360° 48.2 ft	Max. 48.2 ft	360° 63.3 ft	Max. 63.3 ft	360° 78.7 ft	Max. 78.7 ft	360° 93.8 ft	Max. 93.8 ft	360° 108.9 ft	Max. 108.9 ft	
ft		1,000 lbs										ft
10		551.2	551.2	-	-	-	-	-	-	-	-	10
12		551.2	551.2	-	-	-	-	-	-	-	-	12
14		551.2	551.2	551.2	551.2	540.1	540.1	-	-	-	-	14
16		546.2	551.2	544.5	551.2	540.1	540.1	-	-	-	-	16
18		514.5	526.5	512.3	525.4	511.2	519.8	448.0	448.0	-	-	18
20		477.9	494.8	478.2	494.9	476.0	492.6	429.6	429.6	363.9	363.9	20
24		419.6	424.7	421.1	424.9	418.9	422.6	396.6	396.6	337.0	337.0	24
28		373.6	373.6	373.6	373.6	372.6	372.6	364.0	364.0	312.5	312.5	28
32		330.6	330.6	330.6	330.6	328.9	328.9	329.5	329.5	290.9	290.9	32
36		294.0	294.0	294.0	294.0	291.8	291.8	294.0	294.0	270.5	270.5	36
40		-	-	260.7	260.7	258.5	258.5	260.7	260.7	250.8	250.8	40
48		-	-	214.5	214.5	212.2	212.2	214.5	214.5	215.5	215.5	48
56		-	-	178.0	178.0	178.8	178.8	178.1	178.1	181.3	181.3	56
64		-	-	-	-	151.9	151.9	148.8	149.2	152.4	152.4	64
72		-	-	-	-	127.1	132.5	123.6	129.8	127.3	132.3	72
80		-	-	-	-	-	-	105.6	114.1	107.9	116.6	80
88		-	-	-	-	-	-	-	-	92.7	103.5	88
96		-	-	-	-	-	-	-	-	80.5	92.7	96
104		-	-	-	-	-	-	-	-	67.2	67.2	104

		360° 124.3 ft	Max. 124.3 ft	360° 139.4 ft	Max. 139.4 ft	360° 154.9 ft	Max. 154.9 ft	360° 169.9 ft	Max. 169.9 ft	360° 183.7 ft	Max. 183.7 ft	
ft		1,000 lbs										ft
24		307.5	307.5	-	-	-	-	-	-	-	-	24
28		284.8	284.8	249.7	249.7	-	-	-	-	-	-	28
32		263.9	263.9	232.5	232.5	201.1	201.1	175.6	175.6	-	-	32
36		244.1	244.1	218.0	218.0	188.0	188.0	165.1	165.1	141.3	141.3	36
40		224.6	224.6	204.1	204.1	175.6	175.6	155.1	155.1	133.8	133.8	40
48		193.8	193.8	179.6	179.6	155.3	155.3	138.0	138.0	120.1	120.1	48
56		168.8	168.8	158.5	158.5	138.6	138.6	123.5	123.5	107.8	107.8	56
64		148.4	149.4	140.4	140.4	124.2	124.2	111.2	111.2	97.1	97.1	64
72		124.9	130.7	124.7	124.9	112.0	112.0	100.5	100.5	87.7	87.7	72
80		105.5	114.9	105.4	111.9	101.5	101.5	91.5	91.5	79.8	79.8	80
88		90.3	101.6	90.1	100.8	91.1	92.5	83.8	83.8	73.1	73.1	88
96		78.1	90.8	77.9	90.6	79.4	85.0	76.9	76.9	67.3	67.3	96
104		71.4	81.6	68.0	81.3	69.3	78.8	70.8	71.2	62.5	62.5	104
112		63.8	66.6	59.8	73.5	60.9	73.1	62.9	65.9	57.8	57.8	112
120		-	-	53.3	66.9	54.1	67.8	56.0	61.8	53.7	53.7	120
128		-	-	49.9	61.0	48.1	61.9	50.0	57.9	49.7	50.0	128
136		-	-	-	-	43.3	56.7	44.8	54.4	45.0	46.6	136
144		-	-	-	-	40.7	52.2	40.1	51.1	40.1	43.8	144
152		-	-	-	-	-	-	36.1	48.1	36.1	40.9	152
160		-	-	-	-	-	-	-	-	32.3	38.6	160
168		-	-	-	-	-	-	-	-	29.2	36.4	168

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

# Operation

HA




132,300 lbs		360° / Max.*								ASME B30.5	
ft	360° 48.2 ft	Max. 48.2 ft	360° 63.3 ft	Max. 63.3 ft	360° 78.7 ft	Max. 78.7 ft	360° 93.8 ft	Max. 93.8 ft	360° 108.9 ft	Max. 108.9 ft	ft
1,000 lbs											
10	551.2	551.2	-	-	-	-	-	-	-	-	10
12	551.2	551.2	-	-	-	-	-	-	-	-	12
14	551.2	551.2	551.2	551.2	540.1	540.1	-	-	-	-	14
16	531.2	537.2	529.5	534.9	526.8	533.9	-	-	-	-	16
18	495.8	495.8	495.8	495.8	493.6	493.6	448.0	448.0	-	-	18
20	459.2	459.2	459.2	459.2	457.0	457.0	429.4	429.4	363.9	363.9	20
24	386.1	386.1	386.1	386.1	383.9	383.9	386.1	386.1	337.0	337.0	24
28	324.8	324.8	324.8	324.8	327.0	327.0	324.8	324.8	312.5	312.5	28
32	277.6	277.6	277.6	277.6	279.8	279.8	277.6	277.6	277.6	279.3	32
36	228.9	245.8	229.2	245.9	232.2	247.9	229.0	245.5	231.7	248.4	36
40	-	-	182.3	217.8	186.3	220.0	192.2	217.3	187.6	220.4	40
48	-	-	130.2	175.4	136.9	177.4	135.6	178.4	131.3	177.8	48
56	-	-	101.4	145.3	103.1	147.1	101.8	150.0	105.6	147.4	56
64	-	-	-	-	80.9	124.5	84.3	127.4	83.1	124.8	64
72	-	-	-	-	67.9	104.5	68.7	107.6	68.8	104.1	72
80	-	-	-	-	-	-	57.2	89.7	57.8	89.3	80
88	-	-	-	-	-	-	-	-	48.7	79.0	88
96	-	-	-	-	-	-	-	-	41.6	68.2	96
104	-	-	-	-	-	-	-	-	35.9	59.6	104




ft	360° 124.3 ft	Max. 124.3 ft	360° 139.4 ft	Max. 139.4 ft	360° 154.9 ft	Max. 154.9 ft	360° 169.9 ft	Max. 169.9 ft	360° 183.7 ft	Max. 183.7 ft	ft
1,000 lbs											
24	307.5	307.5	-	-	-	-	-	-	-	-	24
28	284.8	284.8	249.7	249.7	-	-	-	-	-	-	28
32	257.3	263.9	232.5	232.5	201.1	201.1	175.6	175.6	-	-	32
36	221.1	241.7	207.7	218.0	188.0	188.0	165.1	165.1	141.3	141.3	36
40	184.3	218.6	180.5	204.1	173.7	175.6	155.1	155.1	133.8	133.8	40
48	133.9	176.1	128.7	176.1	130.7	155.2	132.4	138.0	119.8	120.1	48
56	102.6	145.8	102.7	145.6	102.2	138.3	99.8	123.5	100.1	107.8	56
64	83.6	123.0	82.5	121.3	79.8	118.7	77.5	111.2	77.8	97.1	64
72	67.8	102.8	66.5	101.6	63.8	100.0	61.6	99.3	62.1	87.7	72
80	56.3	88.1	55.1	83.9	52.5	85.5	50.3	85.8	50.5	79.8	80
88	47.4	74.5	46.1	71.5	43.6	71.9	41.2	74.0	41.5	72.4	88
96	40.2	65.0	38.9	64.9	36.1	64.1	33.6	63.1	34.0	63.3	96
104	34.2	57.0	32.7	57.2	30.0	56.4	27.6	54.5	27.8	54.8	104
112	29.1	50.2	27.8	51.5	24.9	49.5	22.5	47.7	22.7	47.7	112
120	-	-	23.6	46.2	20.7	43.8	18.3	41.9	18.5	42.2	120
128	-	-	20.0	41.3	17.2	38.9	14.8	36.8	15.0	37.0	128
136	-	-	-	-	14.1	34.6	11.7	32.3	11.9	32.5	136
144	-	-	-	-	11.6	30.8	9.1	28.6	9.2	28.6	144
152	-	-	-	-	-	-	6.8	25.2	6.8	25.2	152
160	-	-	-	-	-	-	-	-	-	22.3	160
168	-	-	-	-	-	-	-	-	-	19.7	168

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

# Operation

HA




0 lbs		360° / Max.*								ASME B30.5		
		360° 48.2 ft	Max. 48.2 ft	360° 63.3 ft	Max. 63.3 ft	360° 78.7 ft	Max. 78.7 ft	360° 93.8 ft	Max. 93.8 ft	360° 108.9 ft	Max. 108.9 ft	
ft		1,000 lbs										ft
10		551.2	551.2	-	-	-	-	-	-	-	-	10
12		551.2	551.2	-	-	-	-	-	-	-	-	12
14		537.0	537.0	535.9	535.9	530.7	530.7	-	-	-	-	14
16		479.8	479.8	479.8	479.8	439.4	472.9	-	-	-	-	16
18		407.3	429.1	379.5	429.3	344.2	427.0	289.2	427.7	-	-	18
20		333.6	385.1	286.7	385.4	261.0	387.3	225.1	382.7	193.1	357.4	20
24		190.2	319.8	187.1	320.1	171.1	316.9	161.3	284.6	144.8	256.2	24
28		111.4	266.1	124.4	258.1	126.1	243.6	118.8	222.5	111.3	197.1	28
32		71.7	220.8	82.7	200.0	90.0	195.3	89.8	177.5	86.7	164.7	32
36		52.0	167.1	61.5	164.2	68.0	162.4	69.2	149.1	68.6	143.8	36
40		-	-	44.6	132.7	50.4	133.7	51.5	130.9	52.4	120.8	40
48		-	-	27.1	89.6	32.0	95.1	32.9	96.1	33.7	92.4	48
56		-	-	16.6	63.4	21.0	68.7	21.9	69.6	22.6	70.0	56
64		-	-	-	-	13.8	50.7	14.5	51.6	15.2	52.3	64
72		-	-	-	-	8.1	38.6	8.9	39.3	9.6	39.9	72
80		-	-	-	-	-	-	-	31.1	-	31.6	80
88		-	-	-	-	-	-	-	-	-	25.4	88
96		-	-	-	-	-	-	-	-	-	20.5	96
104		-	-	-	-	-	-	-	-	-	16.6	104




		360° 124.3 ft	Max. 124.3 ft	360° 139.4 ft	Max. 139.4 ft	360° 154.9 ft	Max. 154.9 ft	360° 169.9 ft	Max. 169.9 ft	360° 183.7 ft	Max. 183.7 ft	
ft		1,000 lbs										ft
24		134.0	225.0	121.8	173.1	-	-	-	-	-	-	24
28		101.3	178.9	92.9	163.9	83.0	160.4	-	-	-	-	28
32		79.3	152.2	73.2	144.8	65.1	131.5	58.0	117.8	-	-	32
36		64.1	131.0	59.8	124.0	52.9	111.0	46.9	99.7	44.6	94.1	36
40		50.6	113.1	47.9	103.8	42.2	93.0	36.9	83.8	35.2	80.4	40
48		32.2	84.4	30.9	77.8	27.4	69.9	22.4	63.8	21.0	61.5	48
56		21.0	65.4	19.9	60.5	15.8	54.6	11.5	49.5	10.6	47.8	56
64		13.7	50.5	12.4	47.7	8.2	43.3	-	38.8	-	37.6	64
72		7.8	38.4	6.5	36.8	-	34.1	-	30.4	-	29.3	72
80		-	30.0	-	28.9	-	26.1	-	23.1	-	22.2	80
88		-	23.8	-	22.7	-	20.0	-	17.3	-	16.7	88
96		-	18.9	-	17.7	-	15.1	-	12.8	-	12.2	96
104		-	14.8	-	13.7	-	11.0	-	8.8	-	8.4	104
112		-	11.8	-	10.4	-	7.8	-	-	-	-	112
120		-	-	-	7.8	-	-	-	-	-	-	120
128		-	-	-	5.5	-	-	-	-	-	-	128


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

# Operation

# HA-SSL 0°




☰ 396,800 lbs		360°						ASME B30.5	
		93.8 ft	108.9 ft	124.3 ft	139.4 ft	154.9 ft	169.9 ft	183.7 ft	
ft	1,000 lbs							ft	
18	387.1	-	-	-	-	-	-	-	18
20	380.3	411.0	-	-	-	-	-	-	20
24	366.9	394.2	362.5	326.4	-	-	-	-	24
28	355.8	369.5	349.1	318.3	272.0	-	-	-	28
32	337.8	333.9	327.3	310.3	265.6	256.8*	-	-	32
36	309.3	306.9	298.3	290.4	258.1	238.5*	217.3*	-	36
40	281.0	278.8	270.0	267.6	249.6	220.3*	202.5*	-	40
48	238.6	236.4	228.4	225.4	224.9	199.9	176.5*	-	48
56	203.6	202.1	197.8	194.6	193.8	187.6	157.1	-	56
64	174.1	172.5	170.1	170.0	169.6	169.1	147.4	-	64
72	150.9	154.6	146.9	155.1	150.3	150.1	138.2	-	72
80	132.1	138.6	128.7	137.5	132.0	134.4	129.6	-	80
88	-	123.6	113.9	122.5	116.9	119.3	119.5	-	88
96	-	108.4	101.2	109.8	104.3	106.5	107.0	-	96
104	-	-	90.5	99.0	93.6	95.8	96.1	-	104
112	-	-	78.4	89.9	84.4	86.6	86.8	-	112
120	-	-	-	81.5	76.5	78.5	79.0	-	120
128	-	-	-	61.9	69.5	71.6	71.9	-	128
136	-	-	-	-	62.8	65.3	65.7	-	136
144	-	-	-	-	52.1	59.8	60.0	-	144
152	-	-	-	-	-	53.8	54.9	-	152
160	-	-	-	-	-	-	50.4	-	160
168	-	-	-	-	-	-	43.8	-	168


☰ 264,600 lbs		360°						ASME B30.5	
		93.8 ft	108.9 ft	124.3 ft	139.4 ft	154.9 ft	169.9 ft	183.7 ft	
ft	1,000 lbs							ft	
18	387.1	-	-	-	-	-	-	-	18
20	380.3	411.0	-	-	-	-	-	-	20
24	366.9	392.8	362.5	326.4	-	-	-	-	24
28	354.6	360.4	349.1	318.3	272.0	-	-	-	28
32	325.6	321.3	320.6	310.3	265.6	256.8*	-	-	32
36	289.6	289.6	287.0	284.0	258.1	238.5*	217.3*	-	36
40	258.1	255.9	253.7	254.1	248.4	220.3*	202.5*	-	40
48	211.0	209.6	207.3	208.0	210.7	199.4	176.5*	-	48
56	175.7	178.4	172.2	178.9	175.5	177.8	157.1	-	56
64	148.0	154.1	144.4	153.3	147.9	150.2	147.4	-	64
72	125.5	131.9	121.1	130.6	124.2	127.0	127.5	-	72
80	106.1	112.3	101.7	111.1	104.8	107.4*	108.0	-	80
88	-	96.7	86.1	95.6	89.2	91.9*	92.3*	-	88
96	-	84.1	73.5	82.7	76.5	79.0*	79.4*	-	96
104	-	-	63.1	72.2	66.0	68.5*	68.9*	-	104
112	-	-	54.2	63.5	57.3	60.0*	60.2*	-	112
120	-	-	-	56.5	49.8	52.4*	52.8*	-	120
128	-	-	-	40.8	43.4	45.9*	46.3*	-	128
136	-	-	-	-	37.8	40.2*	40.7*	-	136
144	-	-	-	-	33.1	35.3*	35.7*	-	144
152	-	-	-	-	-	31.2*	31.4*	-	152
160	-	-	-	-	-	-	27.6*	-	160
168	-	-	-	-	-	-	24.3*	-	168

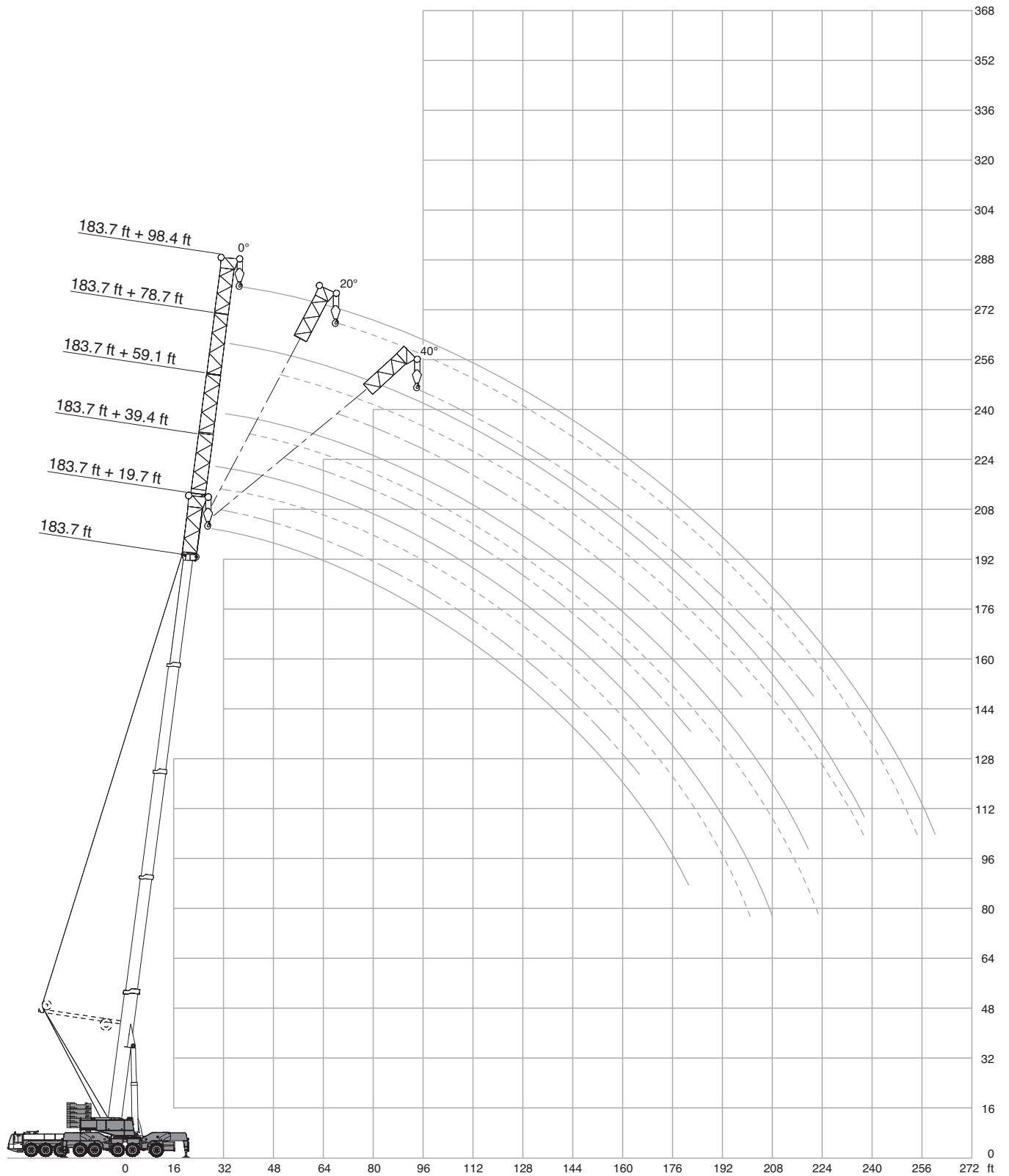
\*  30°

# Operation

# HA-SSL 0°

176,400 lbs		360°						ASME B30.5	
		93.8 ft	108.9 ft	124.3 ft	139.4 ft	154.9 ft	169.9 ft	183.7 ft	
ft					1,000 lbs				ft
18	387.1	-	-	-	-	-	-	-	18
20	380.3	411.0	-	-	-	-	-	-	20
24	366.9	385.8	362.5	326.4	-	-	-	-	24
28	340.5	334.8	334.9	318.3	272.0	-	-	-	28
32	297.5	295.3	292.5	293.7	265.6	256.8*	-	-	32
36	260.9	260.9	258.7	258.7	247.4	238.5*	217.3*	-	36
40	228.0	227.8	225.6	225.5	225.1	218.9*	202.1*	-	40
48	174.4	181.7	169.3	180.3	172.9	172.5*	169.5*	-	48
56	131.3	138.3	126.4	137.2	129.7	132.9*	133.5*	-	56
64	102.1	108.9	97.5	107.7	100.8	103.7*	104.4*	-	64
72	81.6	88.2	76.9	87.1	80.2	83.1*	83.5*	-	72
80	66.8	73.2	62.1	72.1	65.5	68.2*	68.6*	-	80
88	-	61.6	49.9	60.5	53.6	56.7*	57.1*	-	88
96	-	52.5	40.5	51.1	43.9	46.9*	47.3*	-	96
104	-	-	32.7	43.0	36.0	38.8*	39.3*	-	104
112	-	-	26.4	36.5	29.4	32.3*	32.7*	-	112
120	-	-	-	31.0	24.0	26.8*	27.1*	-	120
128	-	-	-	17.0	19.5	22.0*	22.5*	-	128
136	-	-	-	-	15.6	18.0*	18.3*	-	136
144	-	-	-	-	12.3	14.5*	14.7*	-	144
152	-	-	-	-	-	11.5*	11.8*	-	152
160	-	-	-	-	-	-	9.2*	-	160
168	-	-	-	-	-	-	6.9*	-	168

\*  30°





# Operation

HAV

308,600 lbs													360°			ASME B30.5		
183.7 ft																		
ft	19.7 ft			39.4 ft			59.1 ft			78.7 ft			98.4 ft			ft		
	0°	0°	20°	40°*	0°	20°	40°*	0°	20°	40°*	0°	20°	40°*	0°	20°		40°*	
1,000 lbs																		
40	105.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	
48	94.8	80.5	-	-	67.0	-	-	-	-	-	-	-	-	-	-	-	48	
56	85.3	72.3	61.6	-	61.1	-	-	53.2	-	-	46.4	-	-	-	-	-	56	
64	77.2	65.3	57.3	-	55.9	-	-	48.9	-	-	42.6	-	-	-	-	-	64	
72	70.0	59.2	53.2	47.2	51.2	41.7	-	45.1	-	-	39.3	-	-	-	-	-	72	
80	64.2	54.2	49.5	44.8	47.2	39.3	34.0	41.6	33.0	-	36.4	-	-	-	-	-	80	
88	59.1	49.9	46.1	42.4	43.7	37.2	32.6	38.6	31.2	-	33.8	-	-	-	-	-	88	
96	54.7	46.3	43.0	39.9	40.4	35.2	31.2	35.9	29.4	25.2	31.4	24.9	-	-	-	-	96	
104	50.5	42.9	40.2	37.6	37.8	33.3	29.9	33.6	27.9	24.2	29.3	23.5	-	-	-	-	104	
112	46.8	40.0	37.8	35.4	35.2	31.4	28.6	31.2	26.4	23.3	27.5	22.4	19.4	-	-	-	112	
120	43.6	37.3	35.4	33.4	33.0	29.8	27.5	29.3	25.1	22.5	25.6	21.4	18.5	-	-	-	120	
128	40.4	34.8	33.4	31.4	30.9	28.1	26.2	27.5	23.9	21.7	24.1	20.3	17.7	-	-	-	128	
136	37.6	32.5	31.3	29.5	28.9	26.6	25.2	25.9	22.7	20.7	22.6	19.2	16.9	-	-	-	136	
144	35.2	30.3	29.6	28.1	27.2	25.2	24.1	24.3	21.7	19.9	21.2	18.3	16.3	-	-	-	144	
152	32.8	28.4	28.0	26.5	25.4	23.9	23.0	22.7	20.6	19.1	20.1	17.3	15.6	-	-	-	152	
160	30.9	26.7	26.4	25.2	24.0	22.7	22.1	21.4	19.7	18.4	18.8	16.5	15.0	-	-	-	160	
168	29.2	25.1	24.9	-	22.5	21.5	21.1	20.1	18.8	17.7	17.8	15.7	14.5	-	-	-	168	
176	27.6	23.8	23.6	-	21.1	20.4	20.2	18.7	18.0	16.9	16.7	14.9	14.0	-	-	-	176	
184	26.1	22.5	22.3	-	20.0	19.4	-	17.6	17.1	16.2	15.6	14.1	13.4	-	-	-	184	
192	-	21.4	21.1	-	18.7	18.3	-	16.5	16.1	15.5	14.6	13.3	12.9	-	-	-	192	
200	-	20.3	19.9	-	17.7	17.2	-	15.5	15.2	15.0	13.6	12.6	12.4	-	-	-	200	
208	-	-	-	-	16.7	16.2	-	14.5	14.5	-	12.8	11.7	11.8	-	-	-	208	
216	-	-	-	-	15.7	15.3	-	13.5	13.5	-	12.0	11.1	11.3	-	-	-	216	
224	-	-	-	-	-	-	-	12.7	12.6	-	11.1	10.4	-	-	-	-	224	
232	-	-	-	-	-	-	-	11.9	11.8	-	10.1	9.7	-	-	-	-	232	
240	-	-	-	-	-	-	-	11.1	-	-	9.3	9.0	-	-	-	-	240	
248	-	-	-	-	-	-	-	-	-	-	8.5	8.2	-	-	-	-	248	
256	-	-	-	-	-	-	-	-	-	-	7.7	7.5	-	-	-	-	256	

88,200 lbs													360°			ASME B30.5		
183.7 ft																		
ft	19.7 ft			39.4 ft			59.1 ft			78.7 ft			98.4 ft			ft		
	0°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°		40°	
1,000 lbs																		
40	105.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	
48	92.4	80.5	-	-	67.0	-	-	-	-	-	-	-	-	-	-	-	48	
56	72.8	69.3	61.6	-	61.1	-	-	53.2	-	-	46.4	-	-	-	-	-	56	
64	55.7	54.4	57.3	-	52.9	-	-	48.9	-	-	42.6	-	-	-	-	-	64	
72	43.3	42.1	48.1	47.2	41.9	41.7	-	41.6	-	-	39.3	-	-	-	-	-	72	
80	34.0	33.0	38.2	42.5	33.0	38.8	34.0	33.0	33.0	-	33.2	-	-	-	-	-	80	
88	26.7	25.9	30.5	34.2	25.9	32.7	32.6	26.1	31.2	-	26.4	-	-	-	-	-	88	
96	20.7	20.1	24.1	27.3	20.3	26.0	30.3	20.5	27.7	25.2	20.9	24.9	-	-	-	-	96	
104	15.8	15.5	18.9	21.6	15.6	20.9	25.4	15.8	22.7	24.2	16.4	23.5	-	-	-	-	104	
112	11.7	11.5	14.5	16.7	11.7	16.3	20.5	11.9	18.3	23.2	12.6	20.3	19.4	-	-	-	112	
120	8.3	8.1	10.6	12.6	8.6	12.7	16.3	8.8	14.4	19.6	9.4	16.4	18.5	-	-	-	120	
128	-	-	7.4	9.0	5.7	9.6	12.7	6.2	11.1	15.7	6.7	13.1	17.7	-	-	-	128	
136	-	-	-	6.0	-	6.8	9.3	-	8.3	12.4	-	10.1	15.5	-	-	-	136	
144	-	-	-	-	-	-	6.3	-	5.8	9.6	-	7.6	12.5	-	-	-	144	
152	-	-	-	-	-	-	-	-	-	6.9	-	-	9.8	-	-	-	152	
160	-	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-	-	160	
168	-	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	-	168	

\* 264,600 lbs






# Operation

# HAV-SSL 0°

☰ 396,800 lbs		360°												ASME B30.5			
🔧 183.7 ft		📐 0°															
ft	📐 0°	19.7 ft			39.4 ft			59.1 ft			78.7 ft			98.4 ft			ft
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
1,000 lbs																	
32	110.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32
36	110.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36
40	110.2	100.6	-	-	82.4	-	-	-	-	-	-	-	-	-	-	-	40
48	110.2	98.9	-	-	81.4	-	-	65.9	-	-	54.6	-	-	-	-	-	48
56	110.2	96.5	83.6	-	79.9	-	-	62.4	-	-	52.0	-	-	-	-	-	56
64	108.2	93.5	79.9	66.2	77.8	57.1	-	59.1	-	-	49.4	-	-	-	-	-	64
72	104.8	90.2	76.4	63.6	75.2	54.1	-	55.8	39.3	-	46.8	-	-	-	-	-	72
80	101.3	86.4	72.6	61.1	72.2	51.4	41.0	52.7	37.6	-	44.4	-	-	-	-	-	80
88	97.5	82.5	68.8	58.8	68.9	49.0	39.8	49.8	35.9	-	42.2	30.4	-	-	-	-	88
96	93.6	78.6	65.2	56.8	65.6	46.7	38.5	47.0	34.4	28.5	39.9	29.1	-	-	-	-	96
104	89.6	74.8	61.7	54.9	62.3	44.8	37.6	44.4	33.2	27.7	37.7	27.7	-	-	-	-	104
112	85.5	70.8	58.5	53.0	58.9	42.9	36.6	42.0	31.9	27.1	35.8	26.6	21.8	-	-	-	112
128	73.3	63.9	53.3	49.8	52.9	39.8	34.7	37.8	29.9	25.9	32.2	24.6	20.5	-	-	-	128
144	61.3	57.7	49.5	47.2	47.7	37.3	33.3	34.5	28.0	24.9	29.2	23.0	19.4	-	-	-	144
160	51.6	51.6	46.3	-	43.2	35.2	32.5	31.8	26.5	24.1	26.6	21.4	18.6	-	-	-	160
168	47.4	47.4	45.0	-	41.2	34.3	32.1	30.6	25.8	23.7	25.7	20.7	18.2	-	-	-	168
176	43.4	43.7	43.2	-	39.5	33.5	31.8	29.6	25.2	23.4	24.7	20.1	17.9	-	-	-	176
184	-	40.2	41.1	-	37.9	32.8	-	28.6	24.7	23.1	23.8	19.6	17.6	-	-	-	184
192	-	37.1	37.9	-	36.5	32.3	-	28.0	24.1	22.9	23.0	19.1	17.4	-	-	-	192
200	-	33.7	-	-	34.9	31.9	-	27.2	23.7	-	22.3	18.5	17.1	-	-	-	200
208	-	-	-	-	32.4	31.6	-	26.4	23.2	-	21.6	18.0	17.0	-	-	-	208
216	-	-	-	-	29.6	30.7	-	25.8	22.7	-	21.0	17.7	16.8	-	-	-	216
224	-	-	-	-	-	-	-	25.3	22.5	-	20.4	17.4	-	-	-	-	224
232	-	-	-	-	-	-	-	24.6	22.2	-	19.8	17.1	-	-	-	-	232
240	-	-	-	-	-	-	-	-	-	-	19.1	16.8	-	-	-	-	240
248	-	-	-	-	-	-	-	-	-	-	18.6	16.6	-	-	-	-	248
256	-	-	-	-	-	-	-	-	-	-	17.9	-	-	-	-	-	256

# Operation

# HAV-SSL 0°

☰ 220,500 lbs		360°												ASME B30.5	
 183.7 ft		 0°													
 ft	 19.7 ft	39.4 ft			59.1 ft			78.7 ft			98.4 ft			 ft	
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
1,000 lbs															
32	110.2	-	-	-	-	-	-	-	-	-	-	-	-	32	
36	110.2	-	-	-	-	-	-	-	-	-	-	-	-	36	
40	110.2	100.6	-	-	82.4	-	-	-	-	-	-	-	-	40	
48	110.2	98.9	-	-	81.4	-	-	65.9	-	-	54.6	-	-	48	
56	110.2	96.5	83.6	-	79.9	-	-	62.4	-	-	52.0	-	-	56	
64	108.2	93.5	79.9	66.2	77.8	57.1	-	59.1	-	-	49.4	-	-	64	
72	104.8	90.2	76.4	63.6	75.2	54.1	-	55.8	39.3	-	46.8	-	-	72	
80	91.1	86.1	72.6	61.1	72.2	51.4	41.0	52.7	37.6	-	44.4	-	-	80	
88	77.2	77.6	68.8	58.8	68.9	49.0	39.8	49.8	35.9	-	42.2	30.4	-	88	
96	65.9	66.4	65.2	56.8	65.6	46.7	38.5	47.0	34.4	28.5	39.9	29.1	-	96	
104	56.7	57.1	60.2	54.9	58.4	44.8	37.6	44.4	33.2	27.7	37.7	27.7	-	104	
112	48.8	49.2	52.5	52.9	50.5	42.9	36.6	42.0	31.9	27.1	35.8	26.6	21.8	112	
128	36.2	36.6	39.5	41.5	37.9	39.8	34.7	37.8	29.9	25.9	32.2	24.6	20.5	128	
144	26.9	27.1	29.3	30.9	28.4	32.0	33.3	30.0	28.0	24.9	29.2	23.0	19.4	144	
152	23.1	23.3	25.4	26.5	24.6	27.9	29.8	26.2	27.2	24.5	26.8	22.2	19.0	152	
160	19.6	19.8	21.6	-	21.1	24.1	26.2	22.6	25.8	24.1	24.2	21.4	18.6	160	
168	16.6	16.8	18.3	-	18.0	20.7	22.4	19.5	23.0	23.7	21.1	20.7	18.2	168	
176	13.9	14.2	15.4	-	15.3	17.7	19.0	16.7	20.1	22.3	18.2	20.1	17.9	176	
184	-	11.6	12.7	-	12.7	14.9	-	14.0	17.1	19.3	15.6	19.5	17.6	184	
192	-	9.5	10.3	-	10.6	12.4	-	11.9	14.7	16.5	13.3	17.0	17.4	192	
200	-	7.4	-	-	8.5	10.0	-	9.8	12.4	-	11.2	14.6	16.4	200	
208	-	-	-	-	6.6	8.0	-	8.0	10.2	-	9.3	12.4	14.4	208	
216	-	-	-	-	5.0	6.1	-	6.3	8.1	-	7.4	10.3	12.1	216	
224	-	-	-	-	-	-	-	-	6.4	-	6.0	8.4	-	224	
232	-	-	-	-	-	-	-	-	-	-	-	6.6	-	232	






# Operation

# HAV-SSL 30°

396,800 lbs		360°				ASME B30.5
183.7 ft		30°				
ft	39.4 ft 0°	59.1 ft 0°	78.7 ft 0°	98.4 ft 0°	ft	
1,000 lbs						
40	107.7	92.0	-	-	40	
48	103.6	86.9	71.1	61.6	48	
56	99.1	82.1	65.0	56.2	56	
64	94.1	77.3	59.7	51.4	64	
72	88.7	72.6	55.0	47.3	72	
80	83.4	68.3	51.0	43.8	80	
88	78.0	64.1	47.6	40.7	88	
96	72.8	60.2	44.5	38.0	96	
104	67.8	56.6	42.2	35.8	104	
112	63.0	53.2	39.8	33.6	112	
120	59.0	50.0	37.9	32.0	120	
128	55.2	47.2	36.0	30.4	128	
136	51.9	44.6	34.4	29.0	136	
144	48.6	42.2	32.9	27.6	144	
152	45.7	40.1	31.6	26.4	152	
160	42.8	38.0	30.2	25.2	160	
168	40.3	36.1	28.9	24.2	168	
176	37.7	34.2	27.7	23.2	176	
184	35.2	32.3	26.6	22.2	184	
192	32.8	30.6	25.7	21.4	192	
200	30.2	28.9	24.7	20.5	200	
208	-	26.9	23.6	19.8	208	
216	-	25.0	22.7	19.1	216	
224	-	-	21.7	18.4	224	
232	-	-	20.6	17.8	232	
240	-	-	-	16.9	240	
248	-	-	-	16.4	248	

# Operation

# HAV-SSL 30°

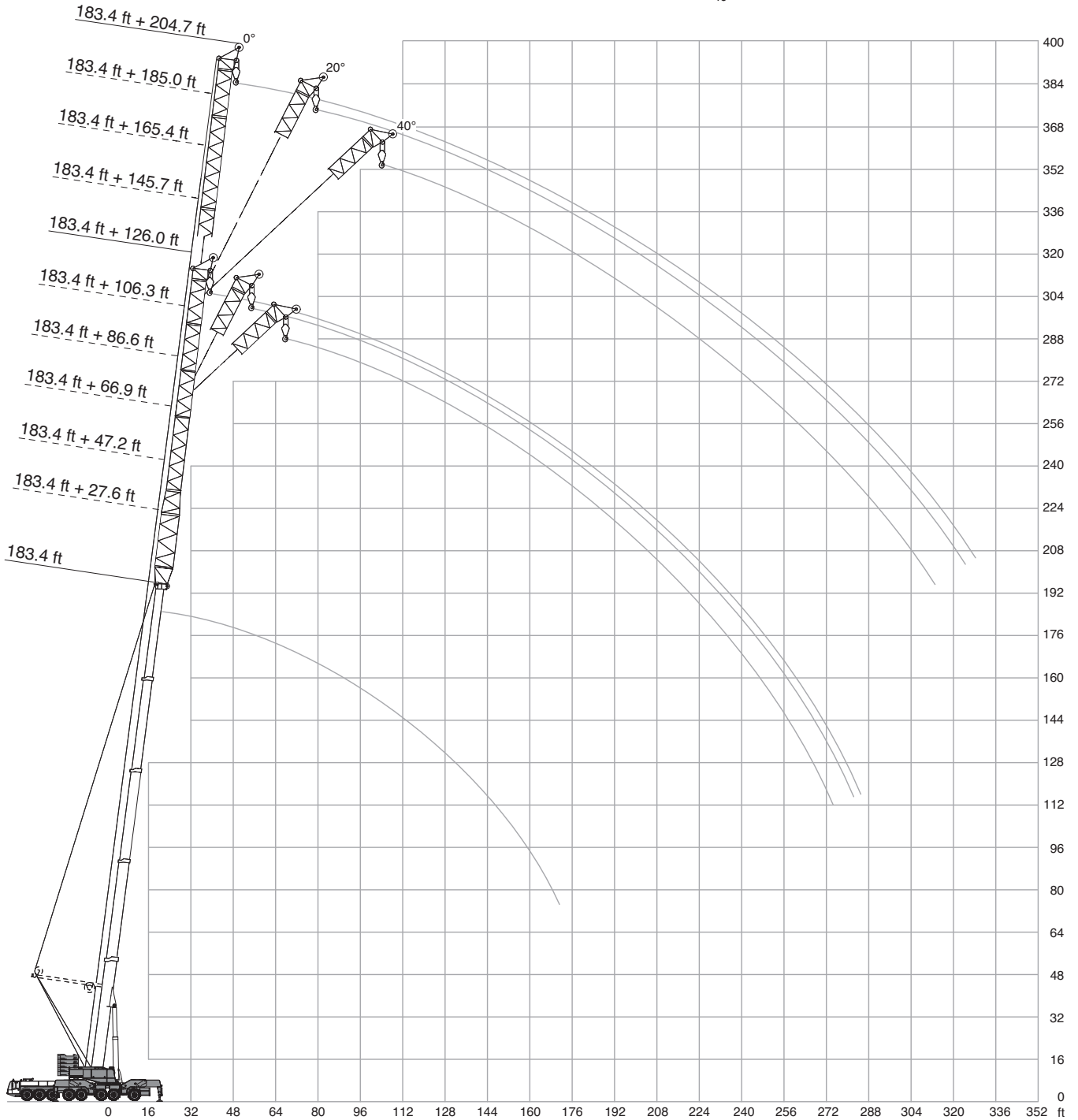
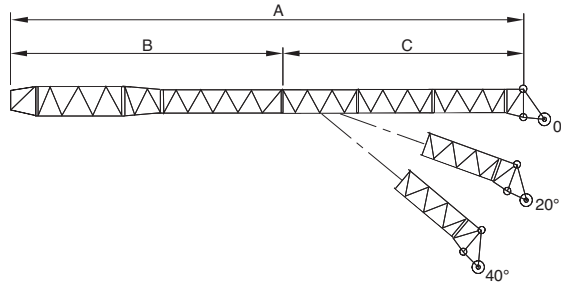
220,500 lbs		360°				ASME B30.5
 183.7 ft		 30°				
		39.4 ft 0°	59.1 ft 0°	78.7 ft 0°	98.4 ft 0°	
ft	1,000 lbs				ft	
40	107.7	92.0	-	-	40	
48	103.6	86.9	71.1	61.6	48	
56	99.1	82.1	65.0	56.2	56	
64	94.1	77.3	59.7	51.4	64	
72	88.7	72.6	55.0	47.3	72	
80	83.4	68.3	51.0	43.8	80	
88	76.5	64.1	47.6	40.7	88	
96	66.4	60.2	44.5	38.0	96	
104	57.1	56.6	42.2	35.8	104	
112	49.2	50.5	39.8	33.6	112	
120	42.4	43.9	37.9	32.0	120	
128	36.6	37.9	36.0	30.4	128	
136	31.7	33.0	33.3	29.0	136	
144	27.1	28.4	29.9	27.6	144	
152	23.3	24.6	26.2	26.1	152	
160	19.8	21.1	22.6	24.2	160	
168	16.8	18.0	19.5	21.1	168	
176	14.2	15.3	16.7	18.2	176	
184	11.6	12.7	14.0	15.6	184	
192	9.5	10.6	11.9	13.3	192	
200	7.3	8.4	9.7	11.3	200	
208	-	6.6	7.9	9.3	208	
216	-	5.0	6.3	7.4	216	
224	-	-	-	6.0	224	

# Operation

LF / LF-SSL

A	B	C
86.6 ft	48.9 ft	37.7 ft
106.3 ft	48.9 ft	57.4 ft
126.0 ft	68.6 ft	57.4 ft
145.7 ft	68.6 ft	77.0 ft
165.4 ft	88.2 ft	77.0 ft
185.0 ft	88.2 ft	96.8 ft
204.7 ft	107.9 ft	96.8 ft

(27.6 ft, 47.2 ft and 66.9 ft only 0°)



360°													ASME B30.5						
183.4 ft																			
ft	27.6 ft			47.2 ft			66.9 ft			86.6 ft			106.3 ft			126.0 ft			ft
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
1,000 lbs																			
48	88.0	74.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48
56	78.2	67.1	60.1	50.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56
64	70.0	60.4	54.8	46.1	-	-	-	-	-	40.7	-	-	35.7	-	-	-	-	-	64
72	62.8	54.4	49.9	42.0	38.0	-	-	-	-	37.1	-	-	32.5	-	-	-	-	-	72
80	57.2	49.5	45.9	38.6	35.1	33.2	-	-	-	34.1	30.1	-	29.8	-	-	-	-	-	80
88	52.1	45.0	42.0	35.4	32.5	31.0	-	-	-	31.3	27.9	-	27.2	24.9	-	-	-	-	88
96	47.6	41.1	38.5	32.6	30.2	28.9	-	-	-	28.8	26.0	24.3	24.9	23.0	21.9	-	-	-	96
104	44.0	37.7	35.5	30.1	28.2	27.1	-	-	-	26.6	24.2	22.9	22.9	21.4	20.4	-	-	-	104
112	40.6	34.7	32.7	27.7	26.4	25.3	-	-	-	24.6	22.6	21.3	21.1	19.8	19.1	-	-	-	112
120	37.7	32.1	30.4	25.8	24.8	23.9	-	-	-	22.8	21.1	20.2	19.5	18.4	17.8	-	-	-	120
128	34.9	29.8	28.3	24.0	23.1	22.4	-	-	-	21.2	19.7	19.0	18.0	17.1	16.6	-	-	-	128
136	32.5	27.6	26.2	22.4	21.7	21.2	-	-	-	19.7	18.5	17.9	16.8	15.9	15.5	-	-	-	136
144	30.4	25.8	24.5	20.9	20.3	19.9	-	-	-	18.5	17.5	16.8	15.6	14.8	14.6	-	-	-	144
152	28.4	24.0	22.9	19.4	19.1	18.8	-	-	-	17.3	16.4	15.9	14.4	13.9	13.7	-	-	-	152
160	26.7	22.4	21.5	18.1	17.9	17.8	-	-	-	16.0	15.4	15.0	13.3	13.0	12.8	-	-	-	160
168	24.9	20.9	20.1	16.8	16.7	16.8	-	-	-	14.9	14.4	14.2	12.3	12.2	11.9	-	-	-	168
176	23.2	19.6	18.9	15.6	15.7	15.9	-	-	-	13.8	13.6	13.4	11.4	11.4	11.2	-	-	-	176
184	21.4	18.4	17.9	14.6	14.7	15.0	-	-	-	12.9	12.8	12.8	10.6	10.6	10.6	-	-	-	184
192	19.7	17.2	17.0	13.7	13.7	13.9	-	-	-	11.9	12.0	12.0	9.8	9.7	9.8	-	-	-	192
200	17.9	16.1	16.1	12.8	12.7	12.8	-	-	-	11.0	11.1	11.3	9.1	9.0	9.1	-	-	-	200
208	-	15.0	15.2	11.9	11.9	-	-	-	-	10.3	10.3	10.5	8.4	8.4	8.5	-	-	-	208
216	-	13.7	14.4	11.1	11.2	-	-	-	-	9.5	9.6	9.8	7.5	7.8	8.0	-	-	-	216
224	-	-	13.6	10.5	10.5	-	-	-	-	8.9	9.0	-	7.0	7.2	7.4	-	-	-	224
232	-	-	12.8	9.8	9.8	-	-	-	-	8.2	8.4	-	6.5	6.7	6.7	-	-	-	232
240	-	-	-	9.2	9.2	-	-	-	-	7.7	7.9	-	5.9	6.1	-	-	-	-	240
248	-	-	-	8.7	-	-	-	-	-	7.1	7.4	-	5.4	5.6	-	-	-	-	248
256	-	-	-	8.2	-	-	-	-	-	6.6	6.8	-	4.8	5.1	-	-	-	-	256
264	-	-	-	-	-	-	-	-	-	6.3	6.3	-	-	-	-	-	-	-	264
272	-	-	-	-	-	-	-	-	-	5.8	-	-	-	-	-	-	-	-	272

ft	145.7 ft			165.4 ft			185.0 ft			204.7 ft			ft
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
1,000 lbs													
72	29.4	-	-	-	-	-	-	-	-	-	-	-	72
80	27.0	-	-	23.7	-	-	-	-	-	20.9	-	-	80
88	24.7	-	-	21.6	-	-	-	-	-	19.3	-	-	88
96	22.7	20.6	-	19.8	-	-	-	-	-	17.7	-	-	96
104	20.8	19.1	-	18.1	16.9	-	-	-	-	16.2	-	-	104
112	19.1	17.8	16.7	16.5	15.6	-	-	-	-	14.7	13.6	-	112
120	17.6	16.5	15.6	15.1	14.5	14.1	-	-	-	13.4	12.5	-	120
128	16.3	15.3	14.7	13.8	13.4	13.0	-	-	-	12.1	11.6	-	128
136	15.0	14.2	13.7	12.6	12.4	12.1	-	-	-	11.0	10.7	10.5	136
144	13.9	13.3	12.8	11.6	11.3	11.3	-	-	-	10.1	9.7	9.7	144
152	12.9	12.3	12.0	10.7	10.5	10.5	-	-	-	9.1	8.9	8.9	152
160	11.9	11.4	11.2	9.7	9.7	9.7	-	-	-	8.2	8.1	8.2	160
168	11.1	10.6	10.4	8.9	8.9	8.9	-	-	-	7.4	7.3	7.5	168
176	10.3	9.9	9.7	8.3	8.1	8.1	-	-	-	6.7	6.7	6.9	176
184	9.5	9.2	9.0	7.6	7.5	7.5	-	-	-	6.0	6.2	6.4	184
192	8.7	8.6	8.5	6.9	6.8	6.9	-	-	-	5.4	5.5	5.6	192
200	7.9	7.9	7.9	6.2	6.2	6.4	-	-	-	4.9	4.9	5.1	200
208	7.3	7.3	7.4	5.6	5.6	5.9	-	-	-	-	-	4.7	208
216	6.7	6.8	6.9	5.1	5.1	5.3	-	-	-	-	-	-	216
224	6.1	6.3	6.3	-	-	4.8	-	-	-	-	-	-	224
232	5.6	5.8	5.8	-	-	-	-	-	-	-	-	-	232
240	5.0	5.3	5.5	-	-	-	-	-	-	-	-	-	240
248	4.7	4.7	4.9	-	-	-	-	-	-	-	-	-	248

88,200 lbs 132,300 lbs 176,400 lbs 220,500 lbs 264,600 lbs 308,700 lbs 352,800 lbs

# Operation

LF-SSL 0°/30°

360°													ASME B30.5		
183.4 ft													0° (* 30°)		
ft	27.6 ft 0°	47.2 ft 0°	66.9 ft 0°	86.6 ft			106.3 ft			126.0 ft			ft		
				0°	20°	40°	0°	20°	40°	0°	20°	40°			
1,000 lbs															
40	157.7*	-	-	-	-	-	-	-	-	-	-	-	40		
48	142.8*	120.0*	101.0*	-	-	-	-	-	-	-	-	-	48		
56	129.0*	108.4*	91.4*	78.4*	-	-	68.1*	-	-	-	-	-	56		
64	116.8*	98.3*	83.2*	71.3*	54.8	-	62.0*	-	-	54.6*	-	-	64		
72	105.8*	89.7*	76.2*	65.0*	51.0	43.9	56.8*	-	-	49.9*	-	-	72		
80	96.3*	82.5*	70.5*	60.0*	47.8	41.5	52.3*	38.2	-	46.0*	34.7	-	80		
88	89.6	75.9*	65.3*	55.3*	44.7	39.4	48.2*	35.9	30.9	42.3*	32.6	-	88		
96	84.1	70.1*	60.9*	51.3*	42.0	37.5	44.5*	33.7	29.7	38.9*	30.6	26.6	96		
104	79.1	65.3	57.1*	47.8*	39.7	35.7	41.5*	31.8	28.4	36.0*	28.9	25.5	104		
112	74.2	61.3	53.6*	44.6*	37.4	33.9	38.7*	29.9	27.3	33.4*	27.0	24.2	112		
120	68.6	58.0	50.5*	42.1*	35.5	32.4	36.2*	28.3	26.1	31.2*	25.6	23.1	120		
128	62.7	54.8	47.4*	39.6*	33.7	31.0	34.1*	26.7	24.8	29.3*	24.1	22.0	128		
144	51.2	49.3	41.5*	35.3*	30.6	28.4	30.5*	23.9	22.5	26.0*	21.5	20.0	144		
160	42.0	42.8	37.3	31.4*	27.9	26.1	27.4*	21.6	20.5	23.2*	19.3	18.3	160		
176	34.1	35.2	34.2	27.8*	25.5	24.2	24.9*	19.8	18.7	20.9*	17.5	16.7	176		
184	30.6	31.7	32.8	26.2*	24.5	23.2	23.7*	18.9	17.8	19.8*	16.7	15.8	184		
192	27.4*	28.4	31.3	24.6*	23.6	22.4	22.5*	18.2	17.1	18.8*	15.9	15.1	192		
200	24.1	25.4	29.4	23.4	22.7	-	21.4*	17.6	16.5	17.9*	15.3	14.4	200		
208	-	22.8	26.5	22.5	21.8	-	20.3*	17.1	16.1	17.0*	14.6	13.8	208		
216	-	20.2	24.0	21.7	21.0	-	19.3*	16.6	-	16.1*	13.9	13.3	216		
224	-	-	21.7	20.4	20.2	-	18.3*	16.2	-	15.3*	13.4	12.7	224		
232	-	-	19.5	18.8	19.1	-	17.3*	15.8	-	14.5*	12.8	-	232		
240	-	-	-	17.0	17.4	-	16.2*	15.4	-	13.7*	12.3	-	240		
248	-	-	-	15.2	-	-	15.1	14.9	-	12.9*	11.8	-	248		
256	-	-	-	-	-	-	13.9	14.5	-	12.3	11.2	-	256		
264	-	-	-	-	-	-	12.4	-	-	11.4	10.7	-	264		
272	-	-	-	-	-	-	11.0	-	-	10.3	10.2	-	272		
280	-	-	-	-	-	-	-	-	-	9.0	-	-	280		
288	-	-	-	-	-	-	-	-	-	7.7	-	-	288		

176,400 lbs 220,500 lbs 264,600 lbs 308,700 lbs 352,800 lbs



# Operation

LF-SSL 0°/30°

360°													ASME B30.5		
ft	145.7 ft			165.4 ft			185.0 ft			204.7 ft			ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°			
1,000 lbs															
64	48.0*	-	-	-	-	-	-	-	-	-	-	-	64		
72	44.2*	-	-	39.1*	-	-	-	-	-	-	-	-	72		
80	40.7*	-	-	36.1*	-	-	32.2*	-	-	28.5*	-	-	80		
88	37.4*	26.3	-	33.3*	-	-	29.7*	-	-	26.2*	-	-	88		
96	34.6*	25.1	-	30.8*	23.2	-	27.4*	-	-	24.2*	-	-	96		
104	32.0*	23.8	-	28.4*	21.8	-	25.3*	-	-	22.3*	-	-	104		
112	29.7*	22.6	19.4	26.1*	20.4	18.0	23.3*	18.2	-	20.4*	15.4	-	112		
120	27.8*	21.4	18.7	24.4*	19.2	17.1	21.7*	17.2	-	18.8*	14.6	-	120		
128	26.0*	20.3	18.0	22.7*	18.1	16.2	20.1*	16.1	-	17.3*	13.8	-	128		
136	24.4*	19.2	17.2	21.1*	17.0	15.3	18.6*	15.0	13.6	16.0*	13.0	12.0	136		
144	23.0*	18.2	16.5	19.8*	16.0	14.6	17.4*	14.0	12.8	14.7*	12.2	11.4	144		
160	20.5*	16.3	15.1	17.5*	14.1	13.1	15.1*	12.3	11.4	12.6*	10.5	9.9	160		
176	18.2*	14.7	14.0	15.6*	12.7	11.8	13.3*	10.7	10.0	10.9*	8.9	8.5	176		
192	16.6*	13.3	12.9	13.7*	11.3	10.7	11.8*	9.3	8.7	9.4*	7.3	7.1	192		
200	15.8*	12.8	12.4	13.0*	10.6	10.2	11.1*	8.5	8.2	8.8*	6.4	6.3	200		
208	15.0*	12.3	11.8	12.3*	10.1	9.7	10.4*	7.8	7.5	8.2*	5.5	5.6	208		
216	14.2*	11.7	11.5	11.5*	9.5	9.3	9.7*	7.3	6.9	7.5*	4.7	4.9	216		
224	13.5*	11.2	11.0	11.0*	9.0	8.8	9.1*	6.6	6.3	7.1*	-	-	224		
232	12.8*	10.7	10.5	10.4*	8.4	8.5	8.4*	6.0	5.8	6.7*	-	-	232		
240	12.1*	10.3	10.1	9.8*	7.9	8.1	8.0*	5.5	5.1	6.1*	-	-	240		
248	11.5*	10.0	-	9.1*	7.5	7.6	7.6*	4.9	4.5	5.7*	-	-	248		
256	10.8*	9.7	-	8.6*	7.0	7.3	7.0*	-	-	5.3*	-	-	256		
264	10.1*	9.2	-	8.2*	6.5	-	6.5*	-	-	-	-	-	264		
272	9.5*	8.9	-	7.7*	6.0	-	6.1*	-	-	-	-	-	272		
280	8.9*	8.6	-	7.2*	5.7	-	5.7*	-	-	-	-	-	280		
288	8.1*	8.3	-	6.7*	5.1	-	5.2*	-	-	-	-	-	288		
296	7.2*	7.9	-	6.1*	-	-	-	-	-	-	-	-	296		
304	6.1*	-	-	5.6*	-	-	-	-	-	-	-	-	304		
312	5.0*	-	-	-	-	-	-	-	-	-	-	-	312		

176,400 lbs  
 220,500 lbs  
 264,600 lbs  
 308,700 lbs  
 352,800 lbs

# Operation



360°													ASME B30.5		
169.9 ft															
ft	27.6 ft 0°	47.2 ft 0°	66.9 ft 0°	86.6 ft			106.3 ft			126.0 ft			ft		
				0°	20°	40°	0°	20°	40°	0°	20°	40°			
1,000 lbs															
40	116.6	-	-	-	-	-	-	-	-	-	-	-	40		
48	103.0	86.7	74.1	-	-	-	-	-	-	-	-	-	48		
56	91.4	78.0	67.1	58.0	-	-	50.3	-	-	-	-	-	56		
64	81.9	70.4	60.9	52.7	46.0	-	45.8	-	-	40.4	-	-	64		
72	73.8	63.9	55.5	47.9	42.4	-	41.8	-	-	36.9	-	-	72		
80	67.6	58.5	51.0	43.9	39.2	36.9	38.3	33.7	-	33.8	30.3	-	80		
88	61.9	53.4	46.9	40.2	36.4	34.5	35.0	31.2	-	30.9	27.9	-	88		
96	57.0	49.0	43.6	37.1	33.9	32.2	32.3	29.1	27.2	28.3	26.0	24.6	96		
104	52.7	45.3	40.7	34.4	31.6	30.2	29.9	27.1	25.6	26.2	24.2	23.1	104		
112	48.5	41.9	38.0	31.9	29.5	28.3	27.7	25.3	24.2	24.2	22.4	21.5	112		
120	45.0	39.0	35.7	29.8	27.8	27.0	25.8	23.9	22.8	22.4	21.0	20.2	120		
136	38.8	33.8	31.5	26.4	24.8	24.0	22.6	21.1	20.3	19.3	18.2	17.9	136		
152	33.7	30.0	28.0	23.4	22.2	21.8	19.9	18.8	18.3	16.8	16.1	15.9	152		
168	29.8	26.6	24.9	20.9	20.0	19.9	17.8	16.8	16.6	14.7	14.2	14.0	168		
176	28.2	25.1	23.6	19.8	19.0	19.0	16.7	16.0	15.8	13.8	13.3	13.2	176		
184	26.8	23.8	22.5	18.7	18.1	18.1	15.8	15.2	15.0	12.9	12.5	12.5	184		
192	-	22.4	21.4	17.9	17.2	-	15.0	14.5	14.4	12.2	11.9	11.8	192		
200	-	21.1	20.3	16.9	16.4	-	14.2	13.8	13.7	11.5	11.1	11.3	200		
208	-	-	19.5	16.2	15.6	-	13.6	13.1	-	10.7	10.5	10.7	208		
216	-	-	18.6	15.3	14.9	-	12.8	12.5	-	10.2	10.0	10.2	216		
224	-	-	17.7	14.5	14.2	-	12.3	11.8	-	9.6	9.4	-	224		
232	-	-	-	13.9	13.5	-	11.5	11.3	-	9.1	8.9	-	232		
240	-	-	-	13.1	-	-	11.0	11.0	-	8.6	8.4	-	240		
248	-	-	-	-	-	-	10.5	10.5	-	8.1	8.0	-	248		
256	-	-	-	-	-	-	9.9	-	-	7.7	7.7	-	256		
264	-	-	-	-	-	-	9.6	-	-	7.4	7.2	-	264		
272	-	-	-	-	-	-	-	-	-	6.9	-	-	272		
280	-	-	-	-	-	-	-	-	-	6.5	-	-	280		

88,200 lbs
  132,300 lbs
  176,400 lbs
  220,500 lbs
  264,600 lbs
  308,700 lbs
  352,800 lbs

# Operation

360°													ASME B30.5
169.9 ft													
ft	145.7 ft			165.4 ft			185.0 ft			204.7 ft			ft
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
1,000 lbs													
64	36.5	-	-	-	-	-	-	-	-	-	-	-	64
72	33.4	-	-	29.6	-	-	-	-	-	-	-	-	72
80	30.7	-	-	27.2	-	-	24.4	-	-	21.3	-	-	80
88	28.1	-	-	24.8	-	-	22.3	-	-	19.5	-	-	88
96	25.8	23.2	-	22.7	21.0	-	20.4	-	-	17.7	-	-	96
104	23.7	21.6	-	20.8	19.4	-	18.6	-	-	16.2	-	-	104
112	21.7	20.0	18.9	19.1	18.0	-	16.9	15.8	-	14.7	14.0	-	112
120	20.1	18.6	17.8	17.6	16.7	16.1	15.6	14.7	-	13.4	13.0	-	120
128	18.6	17.4	16.7	16.2	15.4	15.0	14.3	13.7	-	12.1	11.9	-	128
136	17.3	16.3	15.7	14.9	14.4	13.9	13.1	12.6	12.2	11.0	10.9	10.9	136
152	15.1	14.3	13.9	12.7	12.3	12.2	10.9	10.7	10.5	8.9	9.0	9.2	152
168	13.0	12.6	12.2	11.1	10.6	10.6	9.1	9.1	9.1	7.3	7.3	7.7	168
176	12.2	11.8	11.5	10.3	9.9	9.9	8.5	8.4	8.4	6.5	6.6	7.0	176
184	11.5	11.0	10.8	9.5	9.2	9.2	7.8	7.7	7.7	5.8	5.9	6.4	184
192	10.7	10.3	10.2	8.7	8.6	8.5	7.2	7.0	7.2	5.2	5.4	5.6	192
200	10.0	9.7	9.7	8.0	7.9	7.9	6.6	6.4	6.6	4.6	4.9	5.1	200
208	9.4	9.2	9.2	7.4	7.4	7.4	6.1	5.9	6.1	-	-	4.5	208
216	8.9	8.6	8.6	6.9	6.9	6.9	5.5	5.4	5.5	-	-	-	216
224	8.3	8.1	8.1	6.3	6.3	6.3	5.2	5.0	5.0	-	-	-	224
232	7.8	7.6	7.7	5.8	5.8	5.9	-	-	4.6	-	-	-	232
240	7.2	7.1	7.2	5.4	5.3	5.5	-	-	-	-	-	-	240
248	6.7	6.7	-	4.9	4.9	5.1	-	-	-	-	-	-	248
256	6.4	6.4	-	-	-	-	-	-	-	-	-	-	256
264	6.0	5.9	-	-	-	-	-	-	-	-	-	-	264
272	5.6	5.6	-	-	-	-	-	-	-	-	-	-	272
280	5.4	5.4	-	-	-	-	-	-	-	-	-	-	280
288	5.1	5.1	-	-	-	-	-	-	-	-	-	-	288
296	4.8	-	-	-	-	-	-	-	-	-	-	-	296

- 88,200 lbs
- 132,300 lbs
- 176,400 lbs
- 220,500 lbs
- 264,600 lbs
- 308,700 lbs
- 352,800 lbs

# Operation

LF-SSL 0°/30°

360°													ASME B30.5			
ft	27.6 ft		47.2 ft		66.9 ft		86.6 ft			106.3 ft			126.0 ft			ft
	0°		0°		0°		0°	20°	40°	0°	20°	40°	0°	20°	40°	
1,000 lbs																
36	173.0*	-	-	-	-	-	-	-	-	-	-	-	-	-	36	
40	164.8*	144.8*	125.7*	-	-	-	-	-	-	-	-	-	-	-	40	
48	149.7*	131.3*	113.0*	94.6*	-	-	-	-	78.9*	-	-	-	-	-	48	
56	135.7*	119.0*	102.0*	86.2*	65.1	-	-	-	72.4*	-	-	-	63.8*	-	56	
64	123.1*	108.2*	92.2*	78.8*	60.4	-	-	-	66.6*	-	-	-	59.0*	-	64	
72	115.2	98.5*	84.0*	72.2*	56.1	48.8	-	-	61.4*	45.0	-	-	54.5*	-	72	
80	108.6	90.7	77.2*	66.7*	52.4	46.2	-	-	57.0*	42.1	-	-	50.6*	38.4	80	
88	102.2	85.0	71.0	61.6*	49.0	43.7	-	-	52.8*	39.5	34.7	-	46.9*	35.9	88	
96	96.0	79.5	66.6	57.1*	46.0	41.4	-	-	49.2*	37.1	33.3	-	43.6*	33.6	96	
104	87.4	74.5	62.4	53.2*	43.3	39.4	-	-	46.0*	34.9	31.7	-	40.7*	31.6	104	
120	70.0	65.8	55.0	46.6*	38.7	35.6	-	-	40.5*	30.9	28.9	-	35.6*	27.9	120	
136	56.7	57.6	48.7	41.1*	35.0	32.5	-	-	36.0*	27.5	25.9	-	31.5*	24.6	136	
152	46.6	47.7	44.0	36.5*	31.8	29.8	-	-	32.2*	24.5	23.4	-	28.0*	22.1	152	
168	38.3	39.4	40.2	32.4*	28.9	27.5	-	-	28.8*	22.5	21.4	-	25.1*	19.8	168	
176	34.5	35.6	38.6	30.7*	27.7	26.4	-	-	27.3*	21.5	20.4	-	23.8*	18.9	176	
184	-	32.1	36.0	29.0*	26.6	-	-	-	25.7*	20.7	19.6	-	22.5*	18.1	184	
192	-	28.9	32.9	28.0	25.6	-	-	-	24.4*	19.9	18.8	-	21.4*	17.2	192	
200	-	26.1	29.9	27.2	24.5	-	-	-	23.1*	19.4	18.3	-	20.3*	16.4	200	
208	-	-	27.2	25.9	23.5	-	-	-	21.8*	18.9	-	-	19.2*	15.7	208	
216	-	-	24.6	24.1	22.6	-	-	-	20.8	18.3	-	-	18.1*	15.0	216	
224	-	-	-	21.8	21.6	-	-	-	20.0	17.8	-	-	17.3*	14.4	224	
232	-	-	-	19.7	-	-	-	-	19.3	17.3	-	-	16.3*	13.7	232	
240	-	-	-	17.7	-	-	-	-	18.1	16.9	-	-	15.3*	13.2	240	
248	-	-	-	-	-	-	-	-	16.5	16.4	-	-	14.6	12.5	248	
256	-	-	-	-	-	-	-	-	14.8	-	-	-	14.1	11.9	256	
264	-	-	-	-	-	-	-	-	-	-	-	-	12.7	11.4	264	
272	-	-	-	-	-	-	-	-	-	-	-	-	11.4	-	272	

176,400 lbs  
 
 220,500 lbs  
 
 264,600 lbs  
 
 308,700 lbs  
 
 352,800 lbs

# Operation

LF-SSL 0°/30°

360°													ASME B30.5
ft	145.7 ft			165.4 ft			185.0 ft			204.7 ft			ft
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
1,000 lbs													
56	55.9*	-	-	-	-	-	-	-	-	-	-	-	56
64	51.7*	-	-	45.6*	-	-	-	-	-	-	-	-	64
72	47.9*	-	-	42.8*	-	-	-	-	-	-	-	-	72
80	44.6*	-	-	40.0*	-	-	-	-	-	-	-	-	80
88	41.4*	29.3	-	37.3*	27.4	-	-	-	-	-	-	-	88
96	38.6*	27.8	-	34.9*	25.6	-	-	-	-	-	-	-	96
104	35.9*	26.4	22.8	32.6*	24.0	-	-	-	-	-	-	-	104
112	33.4*	25.1	21.8	30.3*	22.4	20.0	-	-	-	-	-	-	112
120	31.4*	23.7	20.8	28.3*	21.1	18.9	-	-	-	-	-	-	120
128	29.4*	22.4	19.9	26.3*	19.8	17.9	-	-	-	-	-	-	128
136	27.5*	21.0	19.1	24.5*	18.6	16.9	-	-	-	-	-	-	136
144	26.0*	19.9	18.3	22.9*	17.4	16.0	-	-	-	-	-	-	144
160	23.0*	17.9	16.7	19.9*	15.2	14.3	-	-	-	-	-	-	160
176	20.5*	16.0	15.3	17.4*	13.6	12.9	-	-	-	-	-	-	176
192	18.3*	14.4	14.2	15.5*	12.0	11.6	-	-	-	-	-	-	192
200	17.4*	13.9	13.5	14.5*	11.3	11.0	-	-	-	-	-	-	200
208	16.4*	13.3	12.9	13.7*	10.7	10.5	-	-	-	-	-	-	208
216	15.5*	12.6	12.4	13.1*	10.2	10.0	-	-	-	-	-	-	216
224	14.7*	12.2	11.8	12.3*	9.6	9.4	-	-	-	-	-	-	224
232	13.9*	11.7	11.3	11.7*	9.1	9.0	-	-	-	-	-	-	232
240	13.2*	11.2	-	11.0*	8.7	8.6	-	-	-	-	-	-	240
248	12.5*	10.8	-	10.5*	8.2	8.2	-	-	-	-	-	-	248
256	11.7*	10.4	-	9.9*	7.9	-	-	-	-	-	-	-	256
264	11.0*	10.0	-	9.4*	7.4	-	-	-	-	-	-	-	264
272	10.4*	9.6	-	8.8*	6.9	-	-	-	-	-	-	-	272
280	10.1*	9.1	-	8.3*	6.5	-	-	-	-	-	-	-	280
288	9.2*	-	-	7.8*	6.0	-	-	-	-	-	-	-	288
296	8.3*	-	-	7.2*	5.5	-	-	-	-	-	-	-	296
304	-	-	-	6.6*	-	-	-	-	-	-	-	-	304
312	-	-	-	5.8*	-	-	-	-	-	-	-	-	312
320	-	-	-	-	-	-	-	-	-	-	-	-	320

176,400 lbs
220,500 lbs
264,600 lbs
308,700 lbs
352,800 lbs

# Operation



360°													ASME B30.5
139.4 ft													
ft	27.6 ft 0°	47.2 ft 0°	66.9 ft 0°	86.6 ft			106.3 ft			126.0 ft			ft
				0°	20°	40°	0°	20°	40°	0°	20°	40°	
1,000 lbs													
36	162.8	-	-	-	-	-	-	-	-	-	-	36	
40	150.7	136.3	107.0	-	-	-	-	-	-	-	-	40	
48	130.7	118.3	98.9	94.4	-	-	-	-	-	-	-	48	
56	114.7	103.7	91.3	84.6	69.8	-	74.1	-	-	64.9	-	56	
64	101.7	91.6	83.7	76.1	66.0	-	68.6	-	-	60.4	-	64	
72	91.3	81.8	76.7	68.7	62.3	54.7	63.2	47.9	-	56.1	-	72	
80	83.2	74.3	70.2	62.7	58.5	52.4	58.3	45.2	39.2	52.2	43.4	80	
88	75.7	67.5	64.0	57.1	54.6	50.0	53.6	42.8	37.7	48.4	40.9	37.5	88
96	69.4	61.9	58.4	52.4	51.0	47.5	49.2	40.3	36.2	44.8	38.4	35.8	96
104	63.8	56.9	53.6	48.3	47.4	45.1	45.2	38.2	34.8	41.5	36.4	34.2	104
120	54.5	48.4	45.6	41.3	41.0	40.2	38.3	34.2	31.9	35.6	32.5	31.1	120
136	46.9	41.7	39.6	35.7	35.6	35.5	32.8	30.5	29.2	30.7	29.3	28.5	136
144	43.6	39.1	37.4	33.3	33.2	33.4	30.5	28.7	27.8	28.6	27.8	27.2	144
152	40.3	36.7	35.2	31.1	31.1	31.4	28.4	27.1	26.5	26.6	26.2	26.0	152
160	-	34.6	33.4	29.2	29.2	29.4	26.7	25.5	25.2	24.8	24.7	24.7	160
168	-	32.6	31.7	27.5	27.3	-	25.1	24.1	24.0	23.3	23.4	23.4	168
176	-	30.9	30.2	26.0	25.6	-	23.8	22.7	22.8	21.8	21.9	22.0	176
184	-	-	28.6	24.5	24.0	-	22.7	21.3	-	20.5	20.5	20.7	184
192	-	-	27.0	23.1	22.4	-	21.6	20.3	-	19.2	19.3	19.2	192
200	-	-	-	22.1	20.7	-	20.5	19.2	-	18.1	18.0	17.9	200
208	-	-	-	21.0	-	-	19.4	18.3	-	17.1	16.8	-	208
216	-	-	-	-	-	-	18.6	17.5	-	16.2	15.7	-	216
224	-	-	-	-	-	-	17.5	-	-	15.3	14.7	-	224
232	-	-	-	-	-	-	16.4	-	-	14.5	13.9	-	232
240	-	-	-	-	-	-	-	-	-	13.5	-	-	240
248	-	-	-	-	-	-	-	-	-	12.8	-	-	248

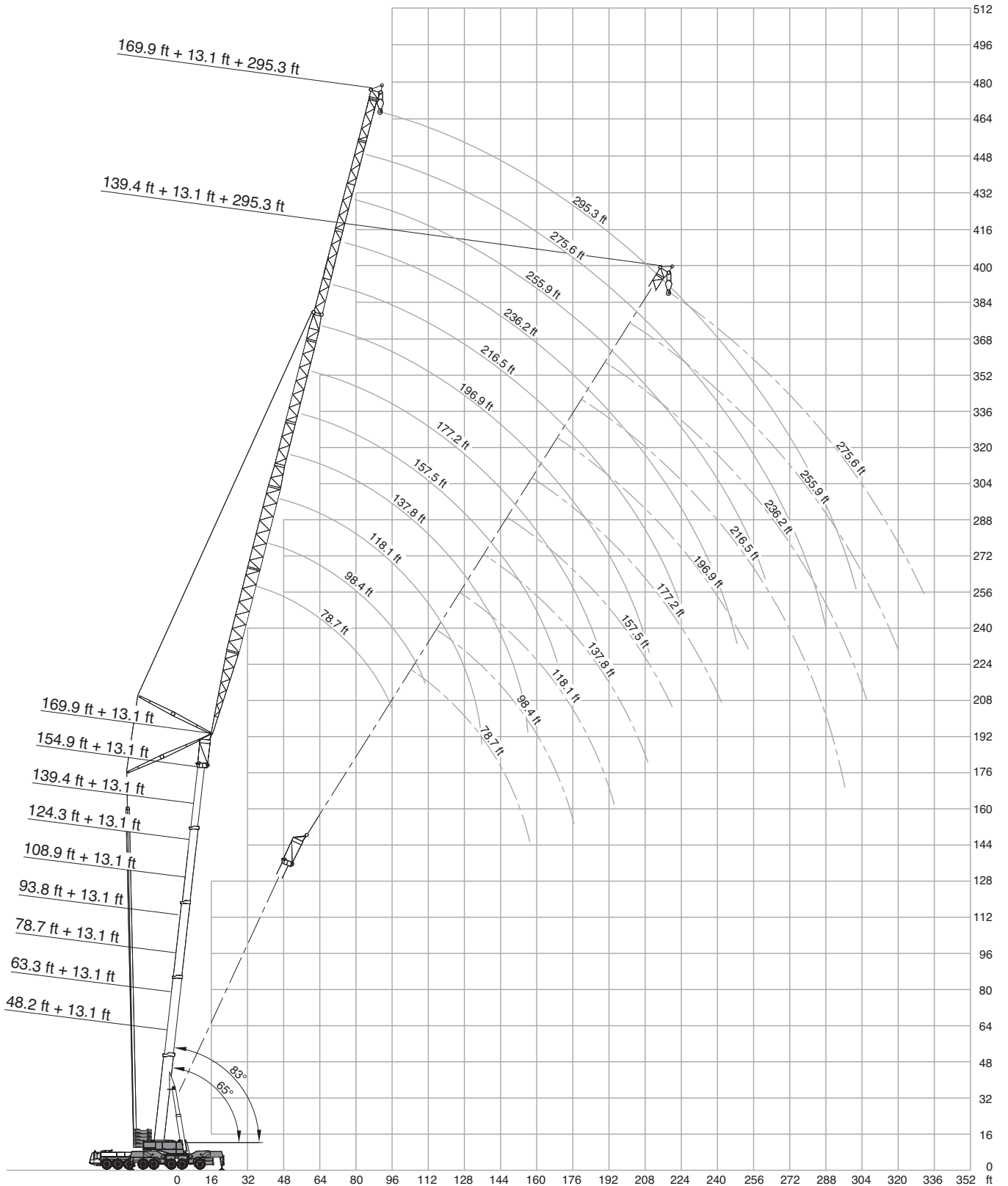
88,200 lbs
  132,300 lbs
  176,400 lbs
  220,500 lbs
  264,600 lbs
  308,700 lbs
  352,800 lbs

# Operation



360°													ASME B30.5
139.4 ft													
ft	145.7 ft			165.4 ft			185.0 ft			204.7 ft			ft
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
1,000 lbs													
56	57.4	-	-	-	-	-	-	-	-	-	-	-	56
64	53.1	-	-	45.6	-	-	-	-	-	-	-	-	64
72	49.0	-	-	42.0	-	-	37.1	-	-	32.2	-	-	72
80	45.5	-	-	38.7	-	-	34.3	-	-	29.7	-	-	80
88	42.2	33.3	-	35.7	30.7	-	31.6	-	-	27.2	-	-	88
96	39.1	31.8	-	33.0	28.9	-	29.2	24.1	-	24.9	-	-	96
104	36.4	30.4	26.3	30.8	27.5	-	27.0	22.9	-	22.9	21.4	-	104
112	33.8	29.2	26.0	28.8	25.9	24.6	25.0	21.8	-	21.1	20.0	-	112
120	31.5	28.0	25.4	26.9	24.6	23.3	23.4	20.7	-	19.6	18.9	-	120
128	29.4	26.8	24.9	25.2	23.4	22.0	21.9	19.7	19.0	18.2	17.6	16.5	128
136	27.5	25.6	24.2	23.9	22.2	21.0	20.4	18.8	18.0	16.8	16.6	15.9	136
144	25.8	24.5	23.4	22.5	21.0	19.9	19.1	17.9	17.0	15.6	15.7	15.2	144
152	24.1	23.4	22.5	21.2	20.0	18.8	17.9	17.0	16.2	14.4	14.8	14.6	152
160	22.6	22.3	21.6	20.2	19.1	17.8	16.9	16.1	15.4	13.6	13.9	13.9	160
168	21.2	21.1	20.6	19.1	18.2	16.9	15.8	15.3	14.6	12.8	13.0	13.2	168
176	19.8	20.0	19.6	18.0	17.1	16.0	14.9	14.4	13.9	12.0	12.3	12.6	176
184	18.7	18.9	18.7	16.9	16.1	15.2	14.0	13.6	13.2	11.3	11.7	11.9	184
192	17.6	17.8	17.6	15.9	15.3	14.5	13.1	13.0	12.4	10.7	11.0	11.2	192
200	16.6	16.8	16.6	14.9	14.3	13.7	12.3	12.2	11.7	10.0	10.4	10.4	200
208	15.5	15.7	15.7	13.9	13.4	13.0	11.5	11.4	11.0	9.4	9.7	9.7	208
216	14.4	14.6	14.8	13.0	12.6	12.2	10.8	10.6	10.4	8.9	9.1	9.1	216
224	13.6	13.6	-	12.1	11.8	11.6	10.1	9.8	9.8	8.3	8.5	8.3	224
232	12.7	12.6	-	11.1	10.9	10.9	9.3	9.2	9.1	7.8	8.0	7.6	232
240	11.8	11.6	-	10.2	10.1	-	8.6	8.3	8.6	7.2	7.5	7.0	240
248	11.0	10.9	-	9.3	9.4	-	7.8	7.8	8.0	6.6	6.7	6.3	248
256	10.1	10.1	-	8.6	8.7	-	7.0	7.1	-	5.7	6.2	5.4	256
264	9.3	-	-	7.6	7.8	-	6.2	6.5	-	5.1	-	4.7	264
272	8.6	-	-	6.7	7.3	-	5.5	6.0	-	-	-	-	272
280	-	-	-	5.8	-	-	4.7	-	-	-	-	-	280
288	-	-	-	4.9	-	-	-	-	-	-	-	-	288

88,200 lbs
  132,300 lbs
  176,400 lbs
  220,500 lbs
  264,600 lbs
  308,700 lbs
  352,800 lbs





360°													ASME B30.5					
48.2 ft +  13.1 ft																		
	78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft	1,000 lbs																	
48	251.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	223.9	-	-	210.8	-	-	186.7	-	-	151.5	-	-	-	-	-	-	-	-
64	197.1	-	-	194.5	-	-	182.7	-	-	151.5	-	-	119.9	-	-	-	-	-
72	174.2	167.6	-	173.3	166.3	-	171.4	-	-	151.5	-	-	119.9	-	-	108.0	-	-
80	151.1	150.2	-	155.2	149.1	-	153.5	147.1	-	147.8	-	-	119.8	-	-	108.0	-	-
88	-	135.9	131.6	140.4	134.8	-	138.8	132.8	-	137.0	-	-	117.6	-	-	108.0	-	-
96	-	-	120.1	123.2	122.7	118.8	126.3	120.8	-	124.5	119.1	-	111.9	-	-	107.3	-	-
104	-	-	-	-	112.5	108.8	115.7	110.5	106.8	113.9	108.8	-	106.3	109.6	-	105.4	-	-
112	-	-	-	-	-	100.3	109.9	101.9	98.3	104.9	100.1	-	100.6	101.2	-	103.1	99.6	-
120	-	-	-	-	-	-	75.9	94.5	91.1	96.5	92.6	89.2	94.7	93.8	-	96.8	92.1	-
128	-	-	-	-	-	-	-	87.9	84.7	84.7	86.1	82.9	88.5	87.2	83.9	89.9	85.6	-
136	-	-	-	-	-	-	-	-	79.0	69.4	80.2	77.1	82.3	81.3	78.1	83.8	79.8	-
144	-	-	-	-	-	-	-	-	-	-	75.0	72.1	75.1	76.1	73.2	78.3	74.5	71.4
152	-	-	-	-	-	-	-	-	-	-	-	67.5	63.8	71.2	68.6	73.2	69.7	66.9
160	-	-	-	-	-	-	-	-	-	-	-	-	-	66.6	64.2	65.7	65.4	62.9
168	-	-	-	-	-	-	-	-	-	-	-	-	-	61.8	60.3	56.3	61.5	59.1
176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56.7	46.8	57.8	55.4
184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.6	54.6	52.3
192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.5

	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft	1,000 lbs																	
72	92.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80	92.6	-	-	74.0	-	-	62.8	-	-	-	-	-	-	-	-	-	-	-
88	92.6	-	-	73.5	-	-	62.5	-	-	52.2	-	-	-	-	-	-	-	-
96	92.6	-	-	72.8	-	-	62.1	-	-	51.5	-	-	41.4	-	-	-	-	-
104	92.2	-	-	72.2	-	-	61.8	-	-	51.0	-	-	40.7	-	-	33.6	-	-
112	90.7	-	-	71.6	-	-	61.5	-	-	50.4	-	-	39.9	-	-	33.0	-	-
120	89.2	84.9	-	70.7	-	-	61.2	-	-	49.7	-	-	39.1	-	-	32.2	-	-
128	87.5	83.5	-	69.8	68.1	-	60.5	-	-	49.0	-	-	38.5	-	-	31.5	-	-
136	83.1	78.9	-	69.0	67.6	-	59.8	61.4	-	48.2	-	-	37.7	-	-	30.8	-	-
144	77.6	73.6	-	68.2	67.3	-	59.1	60.7	-	47.4	49.2	-	36.9	-	-	30.0	-	-
152	72.8	69.1	66.3	67.0	66.4	-	58.3	59.9	-	46.4	48.4	-	36.0	37.8	-	29.4	-	-
160	68.3	64.9	62.2	65.0	63.1	60.3	57.7	59.1	-	45.5	47.6	-	35.2	36.9	-	28.7	-	-
168	63.4	61.0	58.4	62.2	59.3	56.7	56.8	57.3	-	44.5	46.7	-	34.2	35.8	-	27.9	29.1	-
176	57.9	57.2	54.8	58.7	55.6	53.2	55.7	54.1	51.4	43.6	45.8	-	33.4	34.8	-	27.2	28.3	-
184	50.8	54.0	51.7	54.8	52.5	50.2	53.5	50.9	48.5	42.6	45.0	45.5	32.6	33.7	-	26.5	27.6	-
192	43.2	51.0	48.8	50.3	49.4	47.3	50.9	47.9	45.7	41.7	44.1	44.2	31.9	32.6	-	25.9	26.9	-
200	-	48.2	46.1	44.4	46.6	44.6	47.7	45.2	43.0	40.6	43.3	42.4	31.0	31.7	32.7	25.2	26.1	-
208	-	-	43.7	38.0	44.1	42.1	43.4	42.7	40.6	39.5	41.9	40.4	30.2	30.9	31.9	24.6	25.4	26.5
216	-	-	41.6	31.3	41.8	39.8	38.5	40.3	38.3	38.4	40.0	38.1	29.4	30.2	31.1	24.1	24.7	25.8
224	-	-	-	-	39.0	37.8	33.2	38.2	36.4	36.7	38.0	36.0	28.7	29.6	30.3	23.5	24.2	25.2
232	-	-	-	-	-	-	27.2	36.3	34.4	34.3	36.0	34.1	28.0	28.9	29.6	23.0	23.7	24.5
240	-	-	-	-	-	-	-	34.6	32.7	30.3	34.2	32.4	27.4	28.2	28.9	22.3	23.1	24.0
248	-	-	-	-	-	-	-	-	31.1	25.5	32.5	30.7	26.8	27.6	28.2	21.7	22.5	23.4
256	-	-	-	-	-	-	-	-	-	-	30.8	29.1	26.2	27.1	27.5	21.2	21.8	22.7
264	-	-	-	-	-	-	-	-	-	-	27.2	27.7	23.0	26.7	26.9	20.8	21.4	22.2
272	-	-	-	-	-	-	-	-	-	-	-	-	18.5	26.3	25.9	20.3	21.0	21.7
280	-	-	-	-	-	-	-	-	-	-	-	-	-	25.2	24.6	19.8	20.6	21.3
288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.3	17.0	20.4	20.9
296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.0	20.5	20.5
304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.1

132,300 lbs  
 176,400 lbs  
 220,500 lbs  
 264,600 lbs  
 308,700 lbs  
 352,800 lbs  
 396,800 lbs

360°													ASME B30.5									
63.3 ft +  13.1 ft																						
		78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft					
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°			
ft																				1,000 lbs		
48	239.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
56	219.9	-	-	198.9	-	-	171.9	-	-	139.6	-	-	-	-	-	-	-	-	-			
64	195.2	-	-	187.3	-	-	170.3	-	-	139.6	-	-	114.6	-	-	-	-	-	-			
72	172.4	-	-	171.2	-	-	167.4	-	-	139.6	-	-	114.6	-	-	102.1	-	-	-			
80	154.5	146.7	-	153.6	145.4	-	151.9	-	-	138.7	-	-	114.6	-	-	101.5	-	-	-			
88	-	132.6	-	138.9	131.5	-	137.2	129.6	-	132.6	-	-	113.7	-	-	101.0	-	-	-			
96	-	121.0	115.8	126.5	119.7	-	124.8	117.8	-	123.1	115.9	-	110.2	-	-	100.5	-	-	-			
104	-	-	106.3	103.9	109.7	105.0	114.3	107.9	-	112.6	105.9	-	106.1	107.2	-	99.7	-	-	-			
112	-	-	-	-	101.2	96.6	104.9	99.2	94.6	103.6	97.5	-	102.0	98.6	-	99.1	97.0	-	-			
120	-	-	-	-	-	89.7	86.1	91.9	87.5	95.9	90.1	-	96.8	91.2	-	95.7	89.7	-	-			
128	-	-	-	-	-	-	-	85.5	81.4	88.8	83.6	79.4	90.4	84.8	-	88.8	83.2	-	-			
136	-	-	-	-	-	-	-	79.9	75.9	76.7	77.9	74.0	84.2	79.0	75.1	82.8	77.5	-	-			
144	-	-	-	-	-	-	-	-	71.2	58.0	72.8	69.2	78.3	73.9	70.1	77.4	72.3	-	-			
152	-	-	-	-	-	-	-	-	-	-	68.4	64.7	70.0	69.3	65.8	72.5	67.8	64.0	-			
160	-	-	-	-	-	-	-	-	-	-	-	60.7	56.4	64.8	61.6	67.9	63.5	60.1	-			
168	-	-	-	-	-	-	-	-	-	-	-	-	-	61.0	57.8	61.0	59.7	56.5	-			
176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.5	51.4	56.1	53.0	-			
184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52.9	50.1	-			
192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.9	47.3	-			
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44.7	-			

		196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft					
		83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°			
ft																				1,000 lbs		
80	86.4	-	-	68.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
88	86.0	-	-	68.4	-	-	60.8	-	-	-	-	-	-	-	-	-	-	-	-			
96	85.6	-	-	67.8	-	-	60.5	-	-	47.8	-	-	39.2	-	-	-	-	-	-			
104	85.4	-	-	67.3	-	-	60.2	-	-	47.7	-	-	38.6	-	-	31.8	-	-	-			
112	84.6	-	-	66.5	-	-	59.9	-	-	47.4	-	-	38.1	-	-	31.3	-	-	-			
120	83.9	-	-	66.1	-	-	59.5	-	-	47.3	-	-	37.5	-	-	30.7	-	-	-			
128	83.0	80.0	-	65.7	65.7	-	59.1	-	-	47.1	-	-	36.8	-	-	30.1	-	-	-			
136	81.4	76.7	-	65.2	65.0	-	58.5	-	-	46.6	-	-	36.3	-	-	29.4	-	-	-			
144	76.7	71.6	-	64.6	64.2	-	57.8	59.6	-	45.9	-	-	35.7	-	-	28.9	-	-	-			
152	71.9	67.1	-	64.0	63.5	-	57.2	59.0	-	45.3	46.8	-	34.9	-	-	28.3	-	-	-			
160	67.4	62.9	59.4	63.1	61.1	-	56.7	58.1	-	44.6	46.1	-	34.1	35.5	-	27.6	-	-	-			
168	63.3	59.1	55.9	61.4	57.5	54.0	56.1	55.7	-	44.0	45.6	-	33.4	34.7	-	27.1	28.1	-	-			
176	59.4	55.4	52.5	58.0	54.1	50.7	55.4	52.3	-	43.3	45.1	-	32.7	34.0	-	26.5	27.4	-	-			
184	53.7	52.3	49.5	54.7	50.8	47.9	53.2	49.2	46.0	42.4	44.5	-	32.1	33.4	-	26.0	26.9	-	-			
192	47.0	49.3	46.6	51.1	47.7	45.1	50.1	46.4	43.3	41.5	43.9	42.7	31.4	32.7	-	25.4	26.3	-	-			
200	38.1	46.8	43.9	47.0	45.2	42.5	47.3	43.7	40.8	40.5	42.8	40.3	30.7	32.0	-	24.8	25.6	-	-			
208	-	44.3	41.8	41.4	42.8	40.1	44.3	41.2	38.5	39.5	41.0	38.0	30.0	31.1	32.4	24.2	25.0	-	-			
216	-	-	39.6	34.8	40.5	37.9	41.2	39.0	36.3	38.4	38.7	35.9	29.4	30.5	31.6	23.6	24.3	25.4	-			
224	-	-	-	-	38.4	36.0	36.1	36.9	34.4	37.2	36.7	34.0	28.7	29.8	30.8	23.1	23.9	24.7	-			
232	-	-	-	-	-	34.1	30.4	35.0	32.6	35.5	34.7	32.1	28.0	29.1	30.0	22.6	23.4	24.1	-			
240	-	-	-	-	-	32.5	-	33.3	30.9	32.6	32.8	30.4	27.4	28.5	29.3	22.0	22.9	23.6	-			
248	-	-	-	-	-	-	-	31.3	29.2	28.3	31.2	28.7	26.9	27.9	28.2	21.5	22.4	23.0	-			
256	-	-	-	-	-	-	-	-	-	-	29.7	27.1	26.4	27.3	26.9	20.9	22.0	22.5	-			
264	-	-	-	-	-	-	-	-	-	-	28.3	25.8	24.6	26.8	25.4	20.5	21.5	22.1	-			
272	-	-	-	-	-	-	-	-	-	-	-	24.4	21.4	26.2	24.1	20.1	21.1	21.7	-			
280	-	-	-	-	-	-	-	-	-	-	-	23.1	-	25.1	22.8	19.7	20.8	21.3	-			
288	-	-	-	-	-	-	-	-	-	-	-	-	-	23.9	21.5	18.0	20.5	20.5	-			
296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.3	19.5	-			
304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.0	18.6	-			
312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.7	-			

132,300 lbs
 176,400 lbs
 220,500 lbs
 264,600 lbs
 308,700 lbs
 352,800 lbs
 396,800 lbs

360°													ASME B30.5					
78.7 ft +  13.1 ft																		
ft	78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
	1,000 lbs																	
56	210.3	-	-	187.5	-	-	159.0	-	-	-	-	-	-	-	-	-	-	-
64	192.1	-	-	176.8	-	-	157.1	-	-	130.7	-	-	-	-	-	-	-	-
72	170.9	-	-	166.2	-	-	155.2	-	-	130.7	-	-	109.8	-	-	-	96.8	-
80	153.2	143.7	-	152.2	-	-	148.2	-	-	130.5	-	-	109.8	-	-	-	96.2	-
88	-	129.9	-	137.5	128.7	-	135.8	-	-	127.7	-	-	109.7	-	-	-	95.5	-
96	-	118.3	-	125.3	117.0	-	123.6	115.3	-	120.9	-	-	108.0	-	-	-	94.8	-
104	-	-	102.8	114.4	107.2	-	113.2	105.3	-	111.5	103.5	-	104.9	-	-	-	94.2	-
112	-	-	-	-	98.8	93.5	104.3	97.0	-	102.5	95.0	-	101.8	96.4	-	-	93.7	-
120	-	-	-	-	-	86.5	93.1	89.7	-	96.2	89.9	-	96.2	89.1	-	-	92.3	86.5
128	-	-	-	-	-	80.5	-	83.3	78.6	88.1	81.5	76.5	89.5	82.7	-	-	87.9	81.1
136	-	-	-	-	-	-	-	77.9	73.2	80.7	75.9	71.3	83.5	77.0	-	-	82.0	75.5
144	-	-	-	-	-	-	-	-	68.5	65.2	71.0	66.6	78.1	72.1	67.7	-	76.5	70.3
152	-	-	-	-	-	-	-	-	-	-	66.4	62.3	72.4	67.5	63.4	-	71.7	66.0
160	-	-	-	-	-	-	-	-	-	-	-	58.3	61.7	63.3	59.4	-	67.2	62.0
168	-	-	-	-	-	-	-	-	-	-	-	54.7	-	59.5	55.7	-	61.7	58.2
176	-	-	-	-	-	-	-	-	-	-	-	-	55.9	52.3	55.0	-	54.5	51.0
184	-	-	-	-	-	-	-	-	-	-	-	-	-	49.4	-	-	51.5	48.0
192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48.6	45.3
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42.8
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.7

ft	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
	1,000 lbs																	
80	81.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
88	81.2	-	-	63.8	-	-	57.1	-	-	-	-	-	-	-	-	-	-	-
96	80.6	-	-	63.4	-	-	56.7	-	-	46.3	-	-	-	-	-	-	-	-
104	80.1	-	-	62.9	-	-	56.5	-	-	46.1	-	-	36.2	-	-	-	-	-
112	79.6	-	-	62.4	-	-	56.2	-	-	45.8	-	-	35.9	-	-	-	30.6	-
120	79.0	-	-	61.8	-	-	55.9	-	-	45.6	-	-	35.7	-	-	-	30.1	-
128	78.5	76.7	-	61.4	-	-	55.6	-	-	45.4	-	-	35.4	-	-	-	29.5	-
136	77.9	74.1	-	61.0	-	-	55.2	-	-	45.3	-	-	35.1	-	-	-	29.0	-
144	75.7	69.7	-	60.4	60.9	-	54.9	-	-	44.8	-	-	34.6	-	-	-	28.3	-
152	71.1	65.2	-	59.9	60.3	-	54.4	52.4	-	44.2	-	-	34.1	-	-	-	27.7	-
160	66.8	61.2	-	59.5	59.0	-	54.1	52.1	-	43.7	44.0	-	33.5	-	-	-	27.2	-
168	62.7	57.6	53.5	58.4	55.9	-	53.8	51.3	-	43.2	43.7	-	32.8	34.1	-	-	26.6	-
176	58.8	54.1	50.3	57.1	52.5	-	53.4	50.2	-	42.8	43.3	-	32.3	33.6	-	-	26.1	27.2
184	55.4	50.9	47.4	54.1	49.4	45.6	52.0	47.6	-	42.2	43.0	-	31.6	33.1	-	-	25.4	26.7
192	51.0	48.0	44.7	51.0	46.4	42.9	49.5	44.9	41.1	41.5	42.6	-	31.0	32.5	-	-	24.8	26.1
200	42.1	45.4	42.3	48.2	43.9	40.5	46.8	42.3	38.7	40.6	41.9	-	30.4	31.8	-	-	24.3	25.4
208	-	43.1	40.0	43.6	41.5	38.2	44.2	39.9	36.5	39.6	39.7	36.0	29.7	31.2	-	-	23.7	24.8
216	-	40.9	37.8	37.7	39.2	36.1	41.8	37.6	34.3	38.6	37.4	33.9	29.1	30.7	31.8	-	23.2	24.3
224	-	-	36.1	-	37.3	34.2	38.4	35.7	32.4	37.7	35.4	32.1	28.6	30.0	31.0	-	22.9	23.7
232	-	-	-	-	-	32.6	34.0	33.9	30.6	36.4	33.4	30.4	28.0	29.4	29.9	-	22.4	23.3
240	-	-	-	-	-	30.8	-	32.1	29.0	34.4	31.7	28.6	27.4	28.8	28.2	-	22.0	22.8
248	-	-	-	-	-	-	-	30.5	27.4	30.6	30.0	26.9	26.9	28.2	26.6	-	21.5	22.4
256	-	-	-	-	-	-	-	-	25.8	-	28.4	25.3	26.4	27.5	25.1	-	20.9	22.0
264	-	-	-	-	-	-	-	-	24.6	-	26.9	24.0	25.8	26.5	23.8	-	20.5	21.6
272	-	-	-	-	-	-	-	-	-	-	22.7	23.5	25.3	22.5	-	-	20.2	21.2
280	-	-	-	-	-	-	-	-	-	-	21.5	-	24.0	21.2	-	-	19.9	20.8
288	-	-	-	-	-	-	-	-	-	-	-	22.8	19.9	18.9	-	-	20.5	19.1
296	-	-	-	-	-	-	-	-	-	-	-	-	18.9	-	-	-	20.2	18.0
304	-	-	-	-	-	-	-	-	-	-	-	-	17.9	-	-	-	19.5	17.1
312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.1
320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.2

132,300 lbs  
 176,400 lbs  
 220,500 lbs  
 264,600 lbs  
 308,700 lbs  
 352,800 lbs  
 396,800 lbs

# Operation

360°													ASME B30.5					
93.8 ft +  13.1 ft																		
ft	78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
1,000 lbs																		
56	183.1	-	-	162.9	-	-	140.4	-	-	-	-	-	-	-	-	-	-	-
64	170.8	-	-	155.6	-	-	137.7	-	-	115.7	-	-	-	-	-	-	-	-
72	159.2	-	-	147.9	-	-	134.8	-	-	114.9	-	-	98.1	-	-	-	-	-
80	149.7	-	-	140.1	-	-	130.9	-	-	114.0	-	-	97.8	-	-	85.9	-	-
88	-	120.9	-	132.9	-	-	125.1	-	-	112.0	-	-	97.6	-	-	85.3	-	-
96	-	111.8	-	124.4	109.5	-	119.5	103.8	-	108.1	-	-	96.7	-	-	84.5	-	-
104	-	104.7	-	114.1	101.5	-	112.1	97.4	-	104.3	-	-	95.0	-	-	83.8	-	-
112	-	-	89.4	-	95.6	88.3	103.4	91.2	-	100.2	89.0	-	92.9	-	-	83.1	-	-
120	-	-	-	-	89.8	82.1	94.7	86.1	-	94.0	83.6	-	91.0	83.6	-	82.5	-	-
128	-	-	-	-	-	76.9	-	81.5	73.5	87.4	78.6	-	87.9	79.2	-	81.8	75.5	-
136	-	-	-	-	-	72.9	-	76.3	69.2	81.5	74.4	67.9	82.7	74.8	-	80.3	71.8	-
144	-	-	-	-	-	-	-	71.4	65.6	70.7	69.4	63.9	77.4	70.5	-	75.8	68.1	-
152	-	-	-	-	-	-	-	-	62.3	-	65.1	60.1	72.4	66.2	61.4	71.0	64.3	-
160	-	-	-	-	-	-	-	-	-	-	61.0	56.4	65.4	62.0	57.7	66.5	60.5	-
168	-	-	-	-	-	-	-	-	-	-	-	53.1	-	58.2	54.1	62.5	56.9	52.4
176	-	-	-	-	-	-	-	-	-	-	49.9	-	54.7	50.8	58.7	53.4	49.2	-
184	-	-	-	-	-	-	-	-	-	-	-	-	-	47.7	-	50.2	46.4	-
192	-	-	-	-	-	-	-	-	-	-	-	-	-	45.1	-	47.5	43.8	-
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45.0	41.4	-
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.2	-
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37.2	-

ft	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
1,000 lbs																		
80	75.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
88	74.6	-	-	58.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	74.0	-	-	58.3	-	-	51.5	-	-	41.7	-	-	-	-	-	-	-	-
104	73.3	-	-	58.0	-	-	51.2	-	-	41.7	-	-	34.2	-	-	-	-	-
112	72.7	-	-	57.7	-	-	50.9	-	-	41.4	-	-	33.9	-	-	27.8	-	-
120	72.0	-	-	57.4	-	-	50.6	-	-	41.4	-	-	33.6	-	-	27.5	-	-
128	71.3	-	-	57.0	-	-	50.3	-	-	41.3	-	-	33.2	-	-	27.2	-	-
136	70.7	67.2	-	56.7	-	-	49.9	-	-	41.2	-	-	32.9	-	-	27.0	-	-
144	69.9	64.5	-	56.5	54.1	-	49.6	-	-	41.0	-	-	32.6	-	-	26.7	-	-
152	68.9	62.0	-	56.2	53.0	-	49.3	49.0	-	40.7	-	-	32.2	-	-	26.4	-	-
160	66.1	59.3	-	55.9	51.8	-	49.1	47.9	-	40.4	-	-	31.9	-	-	26.1	-	-
168	61.9	56.3	-	55.6	50.6	-	48.7	46.8	-	40.1	40.4	-	31.5	-	-	25.6	-	-
176	58.3	52.8	48.5	55.4	49.5	-	48.3	45.6	-	39.7	40.2	-	31.1	32.0	-	25.2	-	-
184	55.0	49.7	45.8	53.5	48.2	43.8	48.2	44.5	-	39.5	39.8	-	30.9	31.7	-	24.8	25.9	-
192	51.1	46.9	43.1	50.4	45.3	41.4	47.8	43.2	-	39.1	39.4	-	30.6	31.5	-	24.4	25.5	-
200	44.5	44.3	40.7	47.7	42.8	39.0	46.2	41.2	37.0	38.6	39.1	-	30.2	31.2	-	24.0	24.9	-
208	-	42.0	38.5	44.5	40.4	36.8	43.8	38.9	34.8	38.1	38.5	34.5	29.7	30.9	-	23.6	24.4	-
216	-	39.8	36.5	41.0	38.3	34.7	41.4	36.7	32.8	37.5	36.3	32.3	29.1	30.5	-	23.2	23.8	-
224	-	-	34.6	-	36.2	32.6	39.2	34.7	30.9	37.0	34.4	30.4	28.4	30.1	30.1	22.8	23.4	-
232	-	-	-	-	34.4	30.8	35.9	32.8	29.1	36.2	32.5	28.6	27.8	29.6	28.4	22.3	23.0	-
240	-	-	-	-	32.7	29.2	29.7	31.0	27.5	34.9	30.6	27.0	27.3	28.9	26.6	22.0	22.6	24.0
248	-	-	-	-	-	27.7	-	29.5	25.9	31.7	28.9	25.5	26.9	28.0	25.1	21.6	22.2	23.4
256	-	-	-	-	-	-	-	-	24.5	-	27.3	24.0	26.5	27.1	23.6	21.2	21.8	22.7
264	-	-	-	-	-	-	-	-	23.1	-	26.0	22.7	26.0	25.8	22.2	20.8	21.6	21.3
272	-	-	-	-	-	-	-	-	-	-	24.6	21.4	24.3	24.4	20.9	20.4	21.2	20.1
280	-	-	-	-	-	-	-	-	-	-	23.3	20.2	20.3	23.1	19.7	20.0	20.8	18.8
288	-	-	-	-	-	-	-	-	-	-	-	19.1	-	21.8	18.6	19.5	20.4	17.7
296	-	-	-	-	-	-	-	-	-	-	-	-	-	17.6	-	20.0	16.7	-
304	-	-	-	-	-	-	-	-	-	-	-	-	-	16.6	-	18.9	15.7	-
312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.9	14.8	-
320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.9	14.0	-
328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.2	-

132,300 lbs
 176,400 lbs
 220,500 lbs
 264,600 lbs
 308,700 lbs
 352,800 lbs
 396,800 lbs

## 360° ASME B30.5

108.9 ft + 13.1 ft

ft	78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
	1,000 lbs																	
56	165.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64	153.5	-	-	139.8	-	-	125.8	-	-	-	-	-	-	-	-	-	-	-
72	142.0	-	-	132.4	-	-	121.1	-	-	103.9	-	-	-	-	-	-	-	-
80	133.5	-	-	125.2	-	-	116.2	-	-	102.0	-	-	89.4	-	-	76.8	-	-
88	126.8	-	-	118.6	-	-	110.8	-	-	99.8	-	-	88.6	-	-	75.8	-	-
96	-	99.8	-	113.2	96.6	-	105.2	-	-	96.6	-	-	87.6	-	-	75.0	-	-
104	-	92.9	-	108.4	89.9	-	100.3	85.8	-	92.7	-	-	86.0	-	-	74.0	-	-
112	-	-	-	-	84.0	-	97.0	80.8	-	88.9	76.9	-	84.1	-	-	72.9	-	-
120	-	-	72.9	-	79.5	-	93.4	75.9	-	85.7	72.8	-	82.3	-	-	71.6	-	-
128	-	-	-	-	75.8	66.9	81.0	72.1	-	82.8	68.5	-	80.3	69.1	-	70.3	-	-
136	-	-	-	-	-	62.8	-	68.7	60.5	80.0	64.7	-	78.1	65.4	-	69.1	62.8	-
144	-	-	-	-	-	59.9	-	66.0	57.0	75.6	61.8	-	75.7	61.9	-	67.7	59.9	-
152	-	-	-	-	-	-	-	-	54.3	-	58.9	52.3	71.9	59.0	-	66.4	56.7	-
160	-	-	-	-	-	-	-	-	51.8	-	56.8	49.5	66.8	56.8	49.6	64.7	53.8	-
168	-	-	-	-	-	-	-	-	-	-	55.6	47.1	64.7	54.4	47.0	62.1	51.6	45.4
176	-	-	-	-	-	-	-	-	-	-	-	45.0	64.7	52.3	44.8	58.3	49.7	43.1
184	-	-	-	-	-	-	-	-	-	-	-	-	64.7	50.2	42.8	48.7	47.7	41.0
192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41.0	-	45.7	39.1
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.1	-	43.8	37.3
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41.8	35.8
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34.9

ft	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
	1,000 lbs																	
88	68.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	67.3	-	-	53.7	-	-	45.5	-	-	-	-	-	-	-	-	-	-	-
104	66.5	-	-	53.4	-	-	45.2	-	-	38.2	-	-	-	-	-	-	-	-
112	65.7	-	-	53.1	-	-	45.0	-	-	38.1	-	-	30.9	-	-	24.7	-	-
120	64.8	-	-	52.8	-	-	44.9	-	-	37.9	-	-	30.8	-	-	24.5	-	-
128	64.2	-	-	52.5	-	-	44.6	-	-	37.8	-	-	30.6	-	-	24.4	-	-
136	63.5	-	-	51.9	-	-	44.4	-	-	37.5	-	-	30.5	-	-	24.1	-	-
144	62.6	57.7	-	51.6	-	-	44.3	-	-	37.5	-	-	30.4	-	-	24.0	-	-
152	61.8	55.2	-	51.1	47.7	-	44.1	-	-	37.3	-	-	30.2	-	-	23.8	-	-
160	60.6	52.6	-	50.5	46.2	-	44.0	42.1	-	37.3	-	-	30.1	-	-	23.6	-	-
168	59.2	50.2	-	50.1	44.7	-	43.8	40.8	-	37.0	35.2	-	29.9	-	-	23.5	-	-
176	57.6	47.8	-	49.7	43.2	-	43.7	39.6	-	37.0	34.7	-	29.8	-	-	23.2	-	-
184	54.6	45.9	40.5	49.1	41.7	-	43.4	38.4	-	36.9	34.2	-	29.6	29.4	-	23.0	-	-
192	51.1	44.2	38.4	48.4	40.2	36.4	43.1	37.2	-	36.8	33.6	-	29.5	29.3	-	22.9	23.3	-
200	46.6	42.6	36.5	46.8	38.8	34.5	42.7	36.0	-	36.5	33.1	-	29.4	29.3	-	22.8	23.2	-
208	37.5	41.0	34.9	44.7	37.4	32.8	41.9	34.8	31.3	36.2	32.5	-	29.1	29.2	-	22.6	23.1	-
216	-	38.9	33.4	42.3	36.0	31.2	40.9	33.6	29.6	36.0	31.8	-	28.7	29.1	-	22.5	22.9	-
224	-	37.2	32.3	34.0	34.9	29.8	38.8	32.4	28.2	35.7	30.9	27.3	28.3	29.0	-	22.1	22.8	-
232	-	-	31.2	-	33.7	28.6	36.0	31.2	26.8	35.3	29.9	25.8	27.9	28.6	25.4	21.7	22.6	-
240	-	-	30.0	-	31.9	27.5	31.5	30.0	25.6	34.5	28.8	24.5	27.5	27.7	24.2	21.5	22.4	-
248	-	-	-	-	-	26.3	-	28.6	24.3	32.2	27.7	23.4	27.1	26.7	23.0	21.2	22.1	22.0
256	-	-	-	-	-	-	-	27.1	23.1	29.2	26.7	22.5	26.7	25.8	21.8	20.9	21.8	20.9
264	-	-	-	-	-	-	-	25.8	21.9	22.4	25.2	21.4	26.3	24.7	20.9	20.5	21.4	20.0
272	-	-	-	-	-	-	-	-	20.8	-	23.8	20.3	24.9	23.5	19.8	20.2	21.1	19.0
280	-	-	-	-	-	-	-	-	19.7	-	22.6	19.1	21.8	22.2	18.6	19.9	20.8	17.7
288	-	-	-	-	-	-	-	-	-	-	-	18.0	-	21.0	17.6	19.6	20.0	16.6
296	-	-	-	-	-	-	-	-	-	-	-	-	-	20.0	16.7	19.0	19.1	15.6
304	-	-	-	-	-	-	-	-	-	-	-	-	-	19.0	15.7	14.7	18.0	14.7
312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8	-	17.1	13.7
320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.8	-	16.2	12.9
328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.1

132,300 lbs
176,400 lbs
220,500 lbs
264,600 lbs
308,700 lbs
352,800 lbs
396,800 lbs

# Operation

# WIHI-SSL 30°/60°

360°													ASME B30.5		
ft	98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
1,000 lbs															
64	185.5*	-	-	182.0*	-	-	-	-	-	-	-	-	-	-	-
72	164.9*	-	-	163.2*	-	-	161.5*	-	-	-	-	-	-	-	-
80	147.8	-	-	146.0	-	-	144.3*	-	-	130.2*	-	-	117.8*	-	-
88	133.4	-	-	131.7	-	-	130.1*	-	-	123.9*	-	-	115.7*	-	-
96	121.6*	108.6	-	119.8*	-	-	118.1	-	-	117.9*	-	-	113.5*	-	-
104	111.4	99.4	-	109.7	97.4	-	107.9	-	-	109.4*	-	-	107.4*	-	-
112	-	91.5	-	101.0	89.6	-	99.2	87.6	-	100.8	-	-	99.0*	-	-
120	-	84.7	76.7	93.4	82.8	-	91.7	80.8	-	93.1	-	-	91.6	-	-
128	-	78.9	71.3	79.7	76.8	-	85.2	74.9	-	86.5	76.1	-	85.0	-	-
136	-	-	66.5	-	71.5	64.3	79.3	69.7	-	80.6	70.8	-	79.1	69.0	-
144	-	-	62.1	-	67.0	59.9	74.3	65.0	58.0	75.4	66.1	-	73.9	64.4	-
152	-	-	-	-	-	56.2	-	60.8	54.2	70.8	62.1	-	69.3	60.3	-
160	-	-	-	-	-	52.9	-	57.1	50.8	66.0	58.3	51.9	65.2	56.7	-
168	-	-	-	-	-	-	-	53.9	47.7	53.9	54.8	48.8	61.4	53.1	47.0
176	-	-	-	-	-	-	-	-	44.9	-	51.8	46.0	58.0	50.0	44.3
184	-	-	-	-	-	-	-	-	-	-	49.2	43.6	48.2	47.4	41.7
192	-	-	-	-	-	-	-	-	-	-	-	41.2	-	44.9	39.3
200	-	-	-	-	-	-	-	-	-	-	-	39.1	-	42.6	37.2
208	-	-	-	-	-	-	-	-	-	-	-	-	-	40.4	35.3
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.4

ft	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
1,000 lbs																		
88	90.3*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	88.0*	-	-	72.7*	-	-	61.5*	-	-	-	-	-	-	-	-	-	-	-
104	85.8*	-	-	70.2*	-	-	60.5*	-	-	48.2*	-	-	-	-	-	-	-	-
112	83.4*	-	-	68.0*	-	-	59.7*	-	-	47.3*	-	-	38.6*	-	-	31.9*	-	-
120	81.2*	-	-	65.6*	-	-	58.7*	-	-	46.3*	-	-	37.9*	-	-	31.2*	-	-
128	78.9*	-	-	63.4*	-	-	57.8*	-	-	45.5*	-	-	37.3*	-	-	30.5*	-	-
136	76.8*	-	-	61.7*	-	-	56.7*	-	-	44.7*	-	-	36.6*	-	-	29.9*	-	-
144	73.2*	63.7	-	60.0*	-	-	55.4*	-	-	43.9*	-	-	36.0*	-	-	29.3*	-	-
152	68.6	59.5	-	58.4*	56.0	-	54.3*	-	-	42.8*	-	-	35.2*	-	-	28.6*	-	-
160	64.4	55.8	-	56.6*	54.0	-	52.9*	44.8	-	41.7*	-	-	34.3*	-	-	28.0*	-	-
168	60.7	52.5	-	55.2*	50.7	-	51.6*	44.3	-	40.5*	35.8	-	33.2*	-	-	27.3*	-	-
176	57.2	49.4	-	54.2*	47.4	-	50.2*	43.7	-	39.4*	35.5	-	32.1*	31.8	-	26.6*	-	-
184	54.1	46.6	40.8	51.9*	44.7	-	49.1*	42.2	-	38.3*	35.2	-	31.2*	31.2	-	25.8*	25.1	-
192	50.8	44.0	38.4	49.5*	42.1	36.6	47.7*	40.3	-	37.6*	34.8	-	30.5*	30.5	-	25.0*	24.6	-
200	46.1	41.8	36.4	46.9*	39.8	34.4	45.2*	38.0	-	37.2*	34.5	-	29.7*	29.8	-	24.2*	24.0	-
208	37.0	39.6	34.4	44.5*	37.6	32.4	42.8*	35.7	30.4	36.8*	34.2	-	29.0*	29.2	-	23.3*	23.5	-
216	-	37.6	32.5	42.0*	35.6	30.5	40.5*	33.6	28.6	36.4*	33.4	28.1	28.5*	28.5	-	22.7*	23.0	-
224	-	35.8	30.9	33.5*	33.9	28.9	38.5*	31.9	26.9	36.0*	31.5	26.5	27.9*	27.9	25.7	22.3*	22.4	-
232	-	-	29.3	-	32.2	27.3	35.6*	30.2	25.4	35.4*	29.7	24.9	27.4*	27.4	24.5	21.9*	21.9	-
240	-	-	27.9	-	30.5	25.9	30.8*	28.6	23.9	34.2*	28.1	23.4	26.9*	27.0	23.0	21.4*	21.4	20.4
248	-	-	-	-	-	24.6	-	27.1	22.6	32.0*	26.6	22.1	26.4*	26.1	21.7	20.9*	20.8	19.9
256	-	-	-	-	-	-	-	25.8	21.4	29.2*	25.1	20.7	26.0*	24.9	20.5	20.5*	20.3	19.4
264	-	-	-	-	-	-	-	24.6	20.2	22.4*	23.9	19.6	25.7*	23.6	19.3	20.1*	19.7	18.3
272	-	-	-	-	-	-	-	-	19.0	-	22.7*	18.6	24.5*	22.3	18.1	19.7*	19.3	17.2
280	-	-	-	-	-	-	-	-	17.9	-	21.5*	17.5	21.7*	21.2	17.0	19.5*	18.8	16.2
288	-	-	-	-	-	-	-	-	-	-	-	16.5	-	20.2	16.1	19.1*	18.4	15.2
296	-	-	-	-	-	-	-	-	-	-	-	-	19.1	15.1	18.5*	18.0	14.3	-
304	-	-	-	-	-	-	-	-	-	-	-	-	18.2	14.2	14.6*	17.2	13.4	-
312	-	-	-	-	-	-	-	-	-	-	-	-	-	13.3	-	16.3	12.4	-
320	-	-	-	-	-	-	-	-	-	-	-	-	-	12.5	-	15.4	11.6	-
328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.9

176,400 lbs  
 220,500 lbs  
 264,600 lbs  
 308,700 lbs  
 352,800 lbs  
 396,800 lbs

# Operation

360°													ASME B30.5					
124.3 ft +  13.1 ft																		
ft	78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
	1,000 lbs																	
64	134.5	-	-	121.8	-	-	108.0	-	-	-	-	-	-	-	-	-	-	-
72	125.2	-	-	115.4	-	-	103.9	-	-	90.0	-	-	-	-	-	-	-	-
80	116.8	-	-	109.5	-	-	99.9	-	-	87.5	-	-	76.0	-	-	66.5	-	-
88	111.0	-	-	103.6	-	-	95.6	-	-	84.9	-	-	74.4	-	-	65.6	-	-
96	-	88.9	-	98.7	-	-	91.3	-	-	82.0	-	-	72.8	-	-	64.7	-	-
104	-	81.8	-	94.6	80.6	-	87.0	-	-	78.9	-	-	71.2	-	-	63.8	-	-
112	-	76.2	-	-	74.7	-	83.8	71.2	-	75.9	-	-	69.6	-	-	62.8	-	-
120	-	-	-	-	69.8	-	80.9	66.6	-	73.1	64.6	-	67.7	-	-	61.5	-	-
128	-	-	59.9	-	65.7	59.1	78.3	62.4	-	70.6	60.8	-	66.1	61.3	-	60.3	-	-
136	-	-	-	-	62.7	54.9	-	59.1	-	68.2	57.1	-	64.5	58.0	-	58.9	-	-
144	-	-	-	-	-	51.5	-	56.1	48.4	66.2	53.7	-	63.1	54.8	-	57.8	52.8	-
152	-	-	-	-	-	-	-	54.1	45.3	-	51.0	44.4	61.8	51.7	-	56.5	50.1	-
160	-	-	-	-	-	-	-	-	43.0	-	48.4	41.5	60.6	49.1	-	55.2	47.4	-
168	-	-	-	-	-	-	-	-	41.1	-	46.6	39.1	57.4	47.0	40.7	54.1	44.9	-
176	-	-	-	-	-	-	-	-	-	-	45.6	37.1	-	44.8	38.3	52.9	42.8	-
184	-	-	-	-	-	-	-	-	-	-	-	35.6	-	43.5	36.4	48.9	40.8	35.0
192	-	-	-	-	-	-	-	-	-	-	-	-	-	42.4	34.7	-	39.0	32.9
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.1	-	37.6	31.3
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.2	-	36.7	29.9
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.0	28.5
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.6

ft	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
	1,000 lbs																	
88	59.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	58.1	-	-	45.9	-	-	40.8	-	-	-	-	-	-	-	-	-	-	-
104	57.2	-	-	45.7	-	-	40.6	-	-	33.1	-	-	-	-	-	-	-	-
112	56.2	-	-	45.2	-	-	40.1	-	-	33.1	-	-	26.9	-	-	21.8	-	-
120	55.3	-	-	44.8	-	-	39.8	-	-	33.0	-	-	26.9	-	-	21.8	-	-
128	54.3	-	-	44.4	-	-	39.6	-	-	32.8	-	-	26.8	-	-	21.5	-	-
136	53.4	-	-	44.2	-	-	39.1	-	-	32.8	-	-	26.7	-	-	21.4	-	-
144	52.5	-	-	43.7	-	-	38.8	-	-	32.6	-	-	26.7	-	-	21.2	-	-
152	51.5	47.5	-	43.4	-	-	38.5	-	-	32.6	-	-	26.5	-	-	21.1	-	-
160	50.6	45.4	-	43.0	40.3	-	38.1	-	-	32.5	-	-	26.5	-	-	20.9	-	-
168	49.6	43.2	-	42.6	38.8	-	37.8	34.4	-	32.4	-	-	26.4	-	-	20.9	-	-
176	48.8	40.9	-	42.2	37.5	-	37.5	33.4	-	32.4	30.4	-	26.3	-	-	20.7	-	-
184	48.0	39.0	-	41.9	36.1	-	37.1	32.5	-	32.3	29.6	-	26.0	24.7	-	20.5	-	-
192	47.1	37.4	33.1	41.6	34.7	-	36.8	31.6	-	32.2	29.0	-	26.0	24.7	-	20.3	-	-
200	46.5	35.7	31.1	41.2	33.3	-	36.5	30.8	-	32.0	28.3	-	25.9	24.5	-	20.1	19.5	-
208	41.7	34.1	29.3	40.8	31.9	27.7	36.2	29.7	-	32.0	27.6	-	25.8	24.4	-	20.0	19.3	-
216	-	32.7	27.9	40.4	30.5	25.9	35.8	28.5	24.8	32.0	26.9	-	25.8	24.3	-	19.9	19.2	-
224	-	32.1	26.5	35.5	29.0	24.5	35.5	27.3	23.3	31.7	26.1	22.8	25.7	24.1	-	19.7	18.9	-
232	-	-	25.3	-	27.8	23.2	34.7	26.1	21.9	31.7	25.0	21.4	25.6	24.0	-	19.6	18.7	-
240	-	-	24.5	-	27.3	22.0	32.7	24.7	20.5	31.7	24.0	20.1	25.4	23.3	20.0	19.4	18.6	-
248	-	-	-	-	26.8	21.1	-	23.8	19.4	31.4	22.9	18.8	25.3	22.3	18.8	19.2	18.3	-
256	-	-	-	-	-	20.3	-	23.1	18.3	30.8	21.8	17.6	25.1	21.4	17.6	19.2	17.9	14.5
264	-	-	-	-	-	19.7	-	22.7	17.5	24.7	21.0	16.7	25.1	20.4	16.4	19.0	17.3	13.9
272	-	-	-	-	-	-	-	-	16.8	-	20.4	15.7	24.6	19.5	15.4	18.9	16.8	13.2
280	-	-	-	-	-	-	-	-	16.2	-	20.0	14.8	23.1	18.6	14.5	18.8	16.2	12.5
288	-	-	-	-	-	-	-	-	-	-	19.5	14.3	-	18.0	13.7	18.6	15.7	11.9
296	-	-	-	-	-	-	-	-	-	-	-	13.8	-	17.6	13.0	18.3	15.2	11.2
304	-	-	-	-	-	-	-	-	-	-	-	13.3	-	17.3	12.4	15.6	14.9	10.7
312	-	-	-	-	-	-	-	-	-	-	-	-	-	11.9	-	14.7	14.0	10.2
320	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5	-	14.6	14.0	9.8
328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.0	14.0	9.5
336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.2
344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9

- 132,300 lbs
- 176,400 lbs
- 220,500 lbs
- 264,600 lbs
- 308,700 lbs
- 352,800 lbs
- 396,800 lbs

# Operation

# WIHI-SSL 30°/60°

360°													ASME B30.5		
ft	98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
	1,000 lbs														
64	170.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72	160.7	-	-	157.5*	-	-	-	-	-	-	-	-	-	-	-
80	146.5*	-	-	144.8*	-	-	140.9*	-	-	129.6*	-	-	-	-	-
88	132.3	-	-	130.7	-	-	129.0*	-	-	124.0*	-	-	-	107.6*	-
96	120.4	-	-	118.7	-	-	117.1*	-	-	117.5*	-	-	-	105.6*	-
104	110.3	97.2	-	108.6	-	-	107.0	-	-	108.6*	-	-	-	103.6*	-
112	-	89.6	-	99.9	87.6	-	98.3	-	-	99.9	-	-	-	98.1*	-
120	-	82.8	-	92.6	80.8	-	90.8	79.0	-	92.3	-	-	-	90.7*	-
128	-	77.1	68.8	83.9	75.0	-	84.3	73.2	-	85.8*	74.5	-	-	84.1*	-
136	-	72.0	64.1	-	69.9	-	78.6	67.9	-	80.0	69.2	-	-	78.4*	-
144	-	-	59.9	-	65.2	57.7	73.4	63.3	-	74.7	64.6	-	-	73.2*	62.8
152	-	-	-	-	61.3	54.0	-	59.2	52.0	70.2	60.6	-	-	68.6*	58.8
160	-	-	-	-	-	50.8	-	55.6	48.8	66.1	56.8	-	-	64.5*	55.1
168	-	-	-	-	-	47.8	-	52.6	45.8	58.0	53.5	46.8	-	60.8*	51.8
176	-	-	-	-	-	-	-	49.6	43.2	-	50.5	44.0	57.3	48.8	42.3
184	-	-	-	-	-	-	-	-	40.7	-	47.9	41.7	50.6	46.1	39.8
192	-	-	-	-	-	-	-	-	-	-	45.4	39.4	-	43.6	37.5
200	-	-	-	-	-	-	-	-	-	-	-	37.4	-	41.3	35.5
208	-	-	-	-	-	-	-	-	-	-	-	35.5	-	39.3	33.6
216	-	-	-	-	-	-	-	-	-	-	-	-	-	37.4	31.9
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.2

ft	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
	1,000 lbs																	
88	85.0*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	83.2*	-	-	69.5*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
104	81.5*	-	-	67.7*	-	-	57.4*	-	-	46.6*	-	-	-	-	-	-	-	-
112	79.7*	-	-	66.0*	-	-	56.9*	-	-	45.8*	-	-	37.0*	-	-	-	-	-
120	78.0*	-	-	64.4*	-	-	56.5*	-	-	45.3*	-	-	36.5*	-	-	29.9*	-	-
128	76.3*	-	-	62.6*	-	-	56.0*	-	-	44.6*	-	-	36.2*	-	-	29.4*	-	-
136	74.5*	-	-	61.0*	-	-	55.6*	-	-	44.0*	-	-	35.6*	-	-	29.0*	-	-
144	72.4*	-	-	59.4*	-	-	54.7*	-	-	43.2*	-	-	35.3*	-	-	28.7*	-	-
152	67.8*	57.9	-	57.8*	-	-	53.4*	-	-	42.4*	-	-	34.8*	-	-	28.1*	-	-
160	63.8*	54.2	-	56.4*	49.6	-	52.3*	-	-	41.3*	-	-	34.1*	-	-	27.7*	-	-
168	60.1*	50.9	-	54.8*	48.1	-	51.1*	39.9	-	40.3*	-	-	33.1*	-	-	27.2*	-	-
176	56.7*	47.8	-	53.7*	45.9	-	49.8*	39.5	-	39.2*	33.1	-	32.1*	-	-	26.4*	-	-
184	53.7*	45.3	-	51.4*	43.3	-	48.6*	39.1	-	38.1*	33.0	-	31.2*	28.5	-	25.5*	-	-
192	50.8*	42.7	36.6	48.8*	40.8	-	47.1*	38.4	-	37.1*	32.8	-	30.2*	28.1	-	24.8*	22.2	-
200	48.3*	40.4	34.6	46.3*	38.6	-	44.5*	36.5	-	36.3*	32.7	-	29.3*	27.7	-	24.1*	21.9	-
208	41.3*	38.2	32.7	44.0*	36.4	30.7	42.0*	34.5	-	35.6*	32.4	-	28.4*	27.3	-	23.3*	21.6	-
216	-	36.3	31.0	41.6*	34.5	29.0	39.8*	32.5	26.8	34.9*	32.0	-	27.8*	26.9	-	22.5*	21.2	-
224	-	34.7	29.4	35.4*	32.6	27.4	37.8*	30.8	25.3	34.2*	30.4	24.8	27.2*	26.5	-	22.0*	20.9	-
232	-	-	27.8	-	30.9	25.8	35.6*	29.1	23.8	33.6*	28.6	23.4	26.5*	26.2	-	21.4*	20.6	-
240	-	-	26.3	-	29.4	24.3	32.9*	27.5	22.3	33.2*	27.0	21.9	26.0*	25.8	21.4	20.9*	20.4	-
248	-	-	-	-	28.0	23.0	-	26.0*	21.0	32.1*	25.6	20.6	25.5*	24.9	20.2	20.4*	20.0	16.9
256	-	-	-	-	-	21.8	-	24.7*	19.8	30.6*	24.2	19.4	25.1*	23.8	18.9	19.8*	19.6	16.8
264	-	-	-	-	-	20.7	-	23.5*	18.6	24.7*	22.9	18.2	24.9*	22.6	17.7	19.4*	19.3	16.3
272	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
280	-	-	-	-	-	-	-	-	17.5	-	21.6	17.1	24.2*	21.4	16.6	19.1*	19.0	15.7
288	-	-	-	-	-	-	-	-	16.6	-	20.6	16.1	23.0*	20.2	15.7	18.8*	18.6	14.6
288	-	-	-	-	-	-	-	-	-	-	19.5	15.2	-	19.2	14.7	18.6*	17.9	13.6
296	-	-	-	-	-	-	-	-	-	-	-	14.2	-	18.2	13.8	18.3*	17.1	12.7
304	-	-	-	-	-	-	-	-	-	-	-	13.3	-	17.3	12.9	16.3*	16.2	12.0
312	-	-	-	-	-	-	-	-	-	-	-	-	-	12.0	-	-	15.3	11.1
320	-	-	-	-	-	-	-	-	-	-	-	-	-	11.4	-	-	14.5	10.3
328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.7	9.6
336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9
344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3

176,400 lbs   220,500 lbs   264,600 lbs   308,700 lbs   352,800 lbs   396,800 lbs



360°													ASME B30.5					
139.4 ft +  13.1 ft																		
ft	78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
1,000 lbs																		
64	111.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72	103.3	-	-	93.6	-	-	84.7	-	-	-	-	-	-	-	-	-	-	-
80	96.7	-	-	88.8	-	-	80.9	-	-	71.2	-	-	63.9	-	-	-	-	-
88	91.2	-	-	84.2	-	-	77.3	-	-	68.4	-	-	62.2	-	-	55.0	-	-
96	-	-	-	80.1	-	-	74.2	-	-	65.8	-	-	60.5	-	-	53.5	-	-
104	-	67.8	-	76.9	-	-	71.1	-	-	63.5	-	-	58.8	-	-	52.2	-	-
112	-	62.8	-	-	61.5	-	68.4	-	-	61.2	-	-	57.2	-	-	50.9	-	-
120	-	-	-	-	57.1	-	66.2	54.7	-	59.1	-	-	55.8	-	-	49.5	-	-
128	-	-	-	-	53.6	-	64.0	51.2	-	57.3	48.2	-	54.3	-	-	48.3	-	-
136	-	-	46.1	-	50.5	-	-	48.1	-	55.7	45.2	-	52.9	46.2	-	47.0	-	-
144	-	-	-	-	-	41.8	-	45.5	-	54.1	42.2	-	51.9	43.6	-	45.7	-	-
152	-	-	-	-	-	39.4	-	43.4	37.4	-	39.9	-	50.7	41.1	-	44.9	39.4	-
160	-	-	-	-	-	-	-	-	35.1	-	37.9	-	49.6	38.6	-	44.1	37.2	-
168	-	-	-	-	-	-	-	-	33.4	-	36.4	31.5	49.0	36.9	-	43.3	34.9	-
176	-	-	-	-	-	-	-	-	31.8	-	35.0	29.6	-	35.3	30.9	42.4	32.9	-
184	-	-	-	-	-	-	-	-	-	-	-	28.1	-	33.9	29.2	42.1	31.5	27.7
192	-	-	-	-	-	-	-	-	-	-	-	26.7	-	32.7	27.5	-	30.1	26.1
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.3	-	28.6	24.5
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.3	-	27.8	23.1
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.3	-	27.4	21.9
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.1

ft	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
1,000 lbs																		
96	47.9	-	-	39.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
104	46.9	-	-	38.9	-	-	32.7	-	-	-	-	-	-	-	-	-	-	-
112	46.0	-	-	38.3	-	-	32.4	-	-	28.2	-	-	22.5	-	-	-	-	-
120	45.0	-	-	37.7	-	-	32.1	-	-	27.9	-	-	22.4	-	-	17.4	-	-
128	44.1	-	-	37.0	-	-	31.6	-	-	27.7	-	-	22.3	-	-	17.4	-	-
136	43.2	-	-	36.5	-	-	31.4	-	-	27.4	-	-	22.1	-	-	17.4	-	-
144	42.4	-	-	36.0	-	-	30.9	-	-	27.1	-	-	22.0	-	-	17.2	-	-
152	41.4	-	-	35.5	-	-	30.6	-	-	26.9	-	-	22.0	-	-	17.2	-	-
160	40.5	36.6	-	35.1	-	-	30.1	-	-	26.6	-	-	21.8	-	-	17.2	-	-
168	39.8	34.5	-	34.6	32.2	-	29.7	-	-	26.3	-	-	21.8	-	-	17.1	-	-
176	39.1	32.5	-	34.0	30.5	-	29.4	27.1	-	26.1	-	-	21.6	-	-	17.0	-	-
184	38.4	30.7	-	33.6	28.7	-	29.0	25.7	-	25.9	23.8	-	21.6	-	-	17.0	-	-
192	37.8	29.0	-	33.2	27.0	-	28.6	24.4	-	25.5	22.7	-	21.6	19.3	-	17.0	-	-
200	37.4	27.7	24.2	32.8	25.4	-	28.5	23.2	-	25.2	21.8	-	21.4	18.7	-	17.0	-	-
208	37.3	26.5	22.7	32.6	24.1	20.7	28.3	22.0	-	25.1	20.8	-	21.3	18.2	-	16.8	14.6	-
216	-	25.2	21.3	32.2	23.0	19.5	28.0	20.8	-	24.9	19.7	-	21.2	17.7	-	16.8	14.3	-
224	-	24.5	20.2	31.9	21.9	18.1	27.9	19.8	16.6	24.7	18.7	-	21.2	17.3	-	16.8	14.2	-
232	-	-	19.2	-	20.9	17.0	27.7	18.9	15.5	24.3	17.8	-	21.1	16.8	-	16.7	14.0	-
240	-	-	18.4	-	20.1	16.2	27.4	18.0	14.3	24.1	17.0	13.8	21.0	16.1	-	16.6	13.8	-
248	-	-	17.7	-	19.7	15.3	-	17.1	13.4	23.9	16.1	12.7	20.9	15.5	12.6	16.5	13.4	-
256	-	-	-	-	-	14.3	-	16.3	12.6	23.8	15.2	11.7	20.7	14.8	11.7	16.5	13.0	-
264	-	-	-	-	-	13.9	-	16.0	11.8	23.4	14.4	11.0	20.7	14.0	10.7	16.4	12.5	-
272	-	-	-	-	-	-	-	-	11.0	-	13.8	10.3	20.7	13.2	9.9	16.3	11.9	-
280	-	-	-	-	-	-	-	-	10.5	-	13.5	9.5	20.5	12.5	9.2	16.3	11.2	-
288	-	-	-	-	-	-	-	-	10.2	-	13.3	8.9	-	12.1	8.5	16.2	10.6	-
296	-	-	-	-	-	-	-	-	-	-	8.4	-	-	11.7	7.9	16.1	10.1	-
304	-	-	-	-	-	-	-	-	-	-	8.1	-	-	11.4	7.4	15.9	9.6	-
312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	-	9.2	-
320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7	-	9.1	-
328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	8.9	-

132,300 lbs  
 176,400 lbs  
 220,500 lbs  
 264,600 lbs  
 308,700 lbs  
 352,800 lbs  
 396,800 lbs

# Operation

# WIHI-SSL 30°/60°

360°													ASME B30.5		
	98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft	1,000 lbs														
72	154.6*	-	-	147.7*	-	-	-	-	-	-	-	-	-	-	-
80	142.6*	-	-	137.3*	-	-	129.3*	-	-	-	-	-	-	-	-
88	131.3*	-	-	127.2*	-	-	121.7*	-	-	115.4*	-	-	97.5*	-	-
96	119.5*	-	-	117.7*	-	-	114.1*	-	-	109.7*	-	-	95.2*	-	-
104	109.4	-	-	107.7*	-	-	106.1*	-	-	103.9*	-	-	92.7*	-	-
112	-	87.6	-	99.0	-	-	97.5*	-	-	98.6*	-	-	90.3*	-	-
120	-	81.1	-	91.7	79.1	-	90.1*	-	-	91.4*	-	-	87.6*	-	-
128	-	75.4	-	85.3	73.3	-	83.5	71.4	-	85.0	-	-	83.2*	-	-
136	-	70.3	61.8	-	68.1	-	77.8	66.3	-	79.2*	67.7	-	77.5*	-	-
144	-	-	57.7	-	63.7	-	72.7	61.7	-	74.1*	63.0	-	72.5*	61.3	-
152	-	-	54.2	-	59.7	52.0	-	57.7	-	69.5	59.0	-	68.0*	57.3	-
160	-	-	-	-	-	48.8	-	54.2	46.7	65.4	55.4	-	63.9*	53.6	-
168	-	-	-	-	-	45.9	-	51.0	43.9	61.0	52.2	-	60.2*	50.3	-
176	-	-	-	-	-	43.4	-	48.1	41.2	-	49.2	42.3	56.7	47.4	-
184	-	-	-	-	-	-	-	-	38.8	-	46.5	39.9	53.6	44.7	37.8
192	-	-	-	-	-	-	-	-	36.6	-	44.1	37.7	-	42.3	35.7
200	-	-	-	-	-	-	-	-	-	-	-	35.6	-	40.0	33.7
208	-	-	-	-	-	-	-	-	-	-	-	33.8	-	37.9	31.8
216	-	-	-	-	-	-	-	-	-	-	-	32.1	-	36.1	30.1
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.6

	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
ft	1,000 lbs																	
96	79.2*	-	-	64.3*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
104	77.6*	-	-	63.2*	-	-	55.8*	-	-	-	-	-	-	-	-	-	-	-
112	76.0*	-	-	61.9*	-	-	55.3*	-	-	43.6*	-	-	35.5*	-	-	-	-	-
120	74.1*	-	-	60.8*	-	-	54.8*	-	-	43.3*	-	-	35.1*	-	-	28.6*	-	-
128	72.5*	-	-	59.6*	-	-	54.3*	-	-	42.9*	-	-	34.7*	-	-	28.3*	-	-
136	70.7*	-	-	58.4*	-	-	53.9*	-	-	42.4*	-	-	34.5*	-	-	28.1*	-	-
144	69.1*	-	-	57.4*	-	-	53.4*	-	-	42.1*	-	-	34.2*	-	-	27.8*	-	-
152	67.1*	54.5	-	56.3*	-	-	52.3*	-	-	41.6*	-	-	33.9*	-	-	27.5*	-	-
160	63.1*	52.6	-	55.0*	43.0	-	51.2*	-	-	40.8*	-	-	33.3*	-	-	27.0*	-	-
168	59.3*	49.6	-	53.9*	42.4	-	50.2*	35.9	-	39.8*	-	-	32.7*	-	-	26.8*	-	-
176	56.0*	46.5	-	52.8*	41.6	-	49.1*	35.5	-	38.7*	-	-	31.9*	-	-	26.1*	-	-
184	53.0*	43.9	-	50.7*	40.8	-	48.0*	35.2	-	37.8*	30.4	-	30.9*	-	-	25.4*	-	-
192	50.2*	41.4	-	48.4*	39.6	-	46.6*	34.7	-	36.8*	30.2	-	30.0*	23.8	-	24.8*	-	-
200	47.6*	39.3	32.8	45.8*	37.4	-	44.1*	34.3	-	35.9*	30.0	-	29.2*	23.6	-	24.1*	18.2	-
208	43.3*	37.1	31.0	43.4*	35.2	29.0	41.6*	33.2	-	35.2*	29.8	-	28.4*	23.6	-	23.3*	18.0	-
216	-	35.2	29.2	41.1*	33.2	27.2	39.4*	31.4	-	34.6*	29.6	-	27.6*	23.6	-	22.5*	17.9	-
224	-	33.5	27.7	37.4*	31.6	25.7	37.4*	29.7	23.8	34.0*	28.7	-	27.1*	23.5	-	22.0*	17.9	-
232	-	-	26.3	-	30.0	24.3	35.4*	28.0	22.3	33.3*	27.6	21.9	26.5*	23.4	-	21.4*	17.8	-
240	-	-	24.9	-	28.3	23.0	33.6*	26.4	20.8	32.6*	26.1	20.5	25.8*	23.3	18.5	20.9*	17.7	-
248	-	-	23.7	-	26.9	21.6	-	24.9	19.5	31.5*	24.6	19.2	25.2*	23.1	18.1	20.4*	17.6	-
256	-	-	-	-	20.3	-	-	23.6	18.3	30.2*	23.1	17.8	24.7*	22.9	17.4	19.8*	17.4	13.4
264	-	-	-	-	19.2	-	-	22.4	17.2	25.9*	21.9	16.8	24.3*	21.6	16.3	19.3*	17.4	13.4
272	-	-	-	-	-	-	-	16.2	-	20.8	15.7	15.7	23.9*	20.3	15.3	18.9*	17.4	13.3
280	-	-	-	-	-	-	-	15.2	-	19.7	14.8	14.8	23.5*	19.2	14.4	18.6*	17.2	13.1
288	-	-	-	-	-	-	-	14.4	-	18.6	13.9	-	-	18.2	13.4	18.3*	16.8	12.4
296	-	-	-	-	-	-	-	-	-	-	12.9	-	-	17.1	12.5	18.0*	16.2	11.6
304	-	-	-	-	-	-	-	-	-	-	12.1	-	-	16.3	11.7	16.6*	15.3	10.7
312	-	-	-	-	-	-	-	-	-	-	-	-	-	10.9	-	-	14.4	9.8
320	-	-	-	-	-	-	-	-	-	-	-	-	-	10.1	-	-	13.6	9.2
328	-	-	-	-	-	-	-	-	-	-	-	-	-	9.4	-	-	12.8	8.5
336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.8
344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2

176,400 lbs
 220,500 lbs
 264,600 lbs
 308,700 lbs
 352,800 lbs
 396,800 lbs

# Operation

360°													ASME B30.5					
154.9 ft +  13.1 ft																		
ft	78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
	1,000 lbs																	
72	84.3	-	-	75.5	-	-	68.8	-	-	-	-	-	-	-	-	-	-	-
80	80.1	-	-	72.1	-	-	66.2	-	-	56.8	-	-	52.0	-	-	-	-	-
88	76.3	-	-	69.1	-	-	63.6	-	-	54.6	-	-	50.7	-	-	45.3	-	-
96	72.9	-	-	66.3	-	-	61.1	-	-	52.6	-	-	49.3	-	-	44.2	-	-
104	-	-	-	63.8	-	-	58.7	-	-	50.9	-	-	48.0	-	-	42.9	-	-
112	-	52.9	-	61.6	49.8	-	56.3	-	-	49.3	-	-	46.7	-	-	41.8	-	-
120	-	49.3	-	-	46.4	-	54.6	-	-	47.7	-	-	45.5	-	-	40.8	-	-
128	-	-	-	-	43.2	-	52.8	41.0	-	46.2	-	-	44.2	-	-	39.7	-	-
136	-	-	-	-	40.8	-	51.4	38.3	-	45.0	36.7	-	43.0	-	-	38.8	-	-
144	-	-	35.6	-	38.5	-	-	36.2	-	43.7	34.3	-	41.9	35.4	-	37.7	-	-
152	-	-	-	-	-	31.9	-	34.4	-	42.7	32.0	-	41.1	33.3	-	36.7	31.5	-
160	-	-	-	-	-	29.8	-	32.7	27.7	-	30.4	-	40.1	31.3	-	36.1	29.6	-
168	-	-	-	-	-	-	-	-	26.2	-	28.8	24.3	39.4	29.5	-	35.3	27.8	-
176	-	-	-	-	-	-	-	-	24.7	-	27.3	22.7	38.9	28.2	-	34.5	26.0	-
184	-	-	-	-	-	-	-	-	-	-	-	21.3	-	26.8	22.5	34.0	24.6	-
192	-	-	-	-	-	-	-	-	-	-	-	20.1	-	25.7	21.2	33.6	23.4	-
200	-	-	-	-	-	-	-	-	-	-	-	19.1	-	25.0	20.1	-	22.3	18.2
208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.1	-	21.4	17.1
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.1	-	20.6	16.2
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.1
232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.4
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.9

ft	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
	1,000 lbs																	
96	39.0	-	-	31.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
104	38.2	-	-	31.2	-	-	26.2	-	-	-	-	-	-	-	-	-	-	-
112	37.4	-	-	30.4	-	-	25.8	-	-	21.1	-	-	-	-	-	-	-	-
120	36.6	-	-	29.9	-	-	25.4	-	-	20.9	-	-	18.1	-	-	13.9	-	-
128	35.8	-	-	29.3	-	-	25.0	-	-	20.6	-	-	18.0	-	-	13.9	-	-
136	35.0	-	-	28.8	-	-	24.6	-	-	20.3	-	-	17.7	-	-	13.7	-	-
144	34.2	-	-	28.2	-	-	24.3	-	-	20.1	-	-	17.4	-	-	13.7	-	-
152	33.6	-	-	27.7	-	-	23.8	-	-	19.8	-	-	17.2	-	-	13.7	-	-
160	32.8	28.8	-	27.4	-	-	23.5	-	-	19.5	-	-	17.1	-	-	13.6	-	-
168	32.1	27.2	-	26.9	24.6	-	23.2	-	-	19.3	-	-	16.9	-	-	13.4	-	-
176	31.4	25.6	-	26.3	23.3	-	22.8	-	-	19.2	-	-	16.8	-	-	13.4	-	-
184	30.7	24.0	-	25.9	21.9	-	22.5	19.5	-	18.9	-	-	16.6	-	-	13.4	-	-
192	30.1	22.5	-	25.5	20.4	-	22.2	18.3	-	18.7	16.8	-	16.5	-	-	13.4	-	-
200	29.7	21.4	-	25.1	19.1	-	21.9	17.2	-	18.4	15.8	-	16.3	12.7	-	13.3	-	-
208	29.5	20.3	16.6	24.7	18.0	-	21.7	16.1	-	18.2	14.9	-	16.2	12.3	-	13.2	-	-
216	29.3	19.3	15.5	24.3	17.0	-	21.4	14.9	-	18.1	14.0	-	16.1	11.9	-	13.2	-	-
224	-	18.4	14.6	24.1	16.1	12.4	21.1	14.0	-	18.0	13.0	-	16.0	11.5	-	13.2	-	-
232	-	17.8	13.7	-	15.2	11.4	20.9	13.3	9.9	17.8	12.1	-	15.8	11.1	-	13.2	-	-
240	-	17.5	12.8	-	14.4	10.6	20.6	12.6	8.9	17.7	11.5	-	15.7	10.7	-	13.2	-	-
248	-	-	12.2	-	13.9	9.9	20.3	11.8	8.1	17.5	10.8	-	15.6	10.1	-	13.1	-	-
256	-	-	-	-	-	9.3	-	11.0	7.3	17.4	10.1	-	15.4	9.5	-	13.0	-	-
264	-	-	-	-	-	8.7	-	10.6	6.7	17.4	9.5	-	15.3	8.9	-	13.0	-	-
272	-	-	-	-	-	8.2	-	10.3	6.2	-	8.9	-	15.2	8.3	-	13.0	-	-
280	-	-	-	-	-	7.8	-	10.0	5.7	-	8.5	-	15.2	7.7	-	13.0	-	-
288	-	-	-	-	-	-	-	-	5.2	-	8.2	-	14.8	7.2	-	12.9	-	-
296	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8	-	12.8	-	-
304	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	12.8	-	-
312	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	-	-
320	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	-	-

132,300 lbs  
 176,400 lbs  
 220,500 lbs  
 264,600 lbs  
 308,700 lbs  
 352,800 lbs  
 396,800 lbs

# Operation




# WIHI-SSL 30°/60°


360°													ASME B30.5		
ft	98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
1,000 lbs															
72	126.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80	121.2	-	-	112.3*	-	-	109.0*	-	-	-	-	-	-	-	-
88	116.3	-	-	103.1*	-	-	100.9*	-	-	99.0*	-	-	-	-	-
96	111.3	-	-	98.8	-	-	92.8*	-	-	92.6*	-	-	-	85.1*	-
104	105.5	-	-	95.0	-	-	86.0*	-	-	86.1*	-	-	-	80.9*	-
112	99.1	85.8	-	91.5	-	-	81.2	-	-	80.2*	-	-	-	76.7*	-
120	-	79.3	-	88.0	76.8	-	78.4	-	-	76.1*	-	-	-	72.5*	-
128	-	73.6	-	84.0	71.6	-	76.0	69.6	-	71.8	-	-	-	68.8*	-
136	-	68.7	-	71.0	66.6	-	73.9	64.7	-	68.1	-	-	-	65.2*	-
144	-	64.3	55.7	-	62.1	-	71.7	60.2	-	66.4	61.4	-	-	61.7*	-
152	-	-	52.3	-	58.2	-	65.9	56.4	-	64.8	57.7	-	-	58.2*	52.9
160	-	-	49.1	-	54.8	46.9	-	52.8	-	63.2	54.1	-	-	56.3*	51.3
168	-	-	-	-	-	44.1	-	49.6	41.9	57.5	51.0	-	-	54.5*	49.0
176	-	-	-	-	-	41.4	-	46.7	39.4	47.5	48.1	-	-	53.3*	46.1
184	-	-	-	-	-	-	-	-	37.0	-	45.4	38.2	-	52.0*	43.5
192	-	-	-	-	-	-	-	-	34.9	-	43.0	36.0	-	47.6*	41.0
200	-	-	-	-	-	-	-	-	33.0	-	40.8	34.1	-	-	38.8
208	-	-	-	-	-	-	-	-	-	-	-	32.3	-	-	36.8
216	-	-	-	-	-	-	-	-	-	-	-	30.5	-	-	35.0
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.0
232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.6
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.3

ft	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
1,000 lbs																		
96	69.9*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
104	67.7*	-	-	59.3*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
112	65.6*	-	-	57.7*	-	-	47.6*	-	-	40.1*	-	-	-	-	-	-	-	-
120	63.4*	-	-	56.1*	-	-	47.0*	-	-	39.8*	-	-	31.7*	-	-	-	-	-
128	61.3*	-	-	54.4*	-	-	46.3*	-	-	39.6*	-	-	31.5*	-	-	25.2*	-	-
136	59.3*	-	-	52.8*	-	-	45.6*	-	-	39.3*	-	-	31.4*	-	-	25.0*	-	-
144	57.2*	-	-	51.2*	-	-	45.0*	-	-	39.0*	-	-	31.1*	-	-	24.7*	-	-
152	55.1*	-	-	49.8*	-	-	43.9*	-	-	38.8*	-	-	30.8*	-	-	24.7*	-	-
160	53.1*	44.6	-	48.3*	-	-	42.9*	-	-	38.3*	-	-	30.6*	-	-	24.4*	-	-
168	51.2*	43.6	-	46.9*	37.2	-	41.8*	-	-	37.6*	-	-	30.4*	-	-	24.1*	-	-
176	49.6*	42.7	-	45.4*	36.7	-	40.7*	31.2	-	36.9*	-	-	29.8*	-	-	23.8*	-	-
184	48.0*	41.6	-	44.0*	36.1	-	39.5*	30.7	-	36.1*	24.9	-	29.3*	-	-	23.5*	-	-
192	46.4*	40.3	-	42.7*	35.6	-	38.4*	30.3	-	35.3*	24.6	-	28.8*	-	-	23.0*	-	-
200	45.0*	38.0	-	41.4*	35.1	-	37.3*	29.8	-	34.6*	24.4	-	28.2*	19.5	-	22.6*	-	-
208	40.4*	36.0	29.4	40.0*	33.9	-	36.1*	29.3	-	33.9*	24.2	-	27.8*	19.3	-	22.2*	14.8	-
216	33.1*	34.1	27.7	38.7*	32.1	25.7	34.9	28.9	-	32.9*	24.0	-	27.4*	19.2	-	21.6*	14.8	-
224	-	32.4	26.2	37.2*	30.5	24.2	33.8	28.2	-	32.0*	23.8	-	26.7*	19.2	-	21.2*	14.8	-
232	-	30.9	24.7	-	28.9	22.8	32.9	26.9	20.8	31.0	23.5	-	26.1*	19.1	-	20.8*	14.8	-
240	-	29.4	23.4	-	27.4	21.4	32.4	25.4	19.4	29.9	23.2	18.4	25.5*	19.0	-	20.4*	14.8	-
248	-	-	22.1	-	26.0	20.2	27.7	24.0	18.2	29.2	22.8	17.6	25.0	18.8	-	19.9*	14.8	-
256	-	-	-	-	18.9	-	-	22.7	17.0	28.6	22.3	16.5	24.5	18.7	13.9	19.4	14.8	-
264	-	-	-	-	17.9	-	-	21.5	15.9	26.5	21.0	15.4	24.1	18.6	13.8	19.0	14.8	9.7
272	-	-	-	-	16.8	-	-	20.3	14.9	-	19.8	14.4	23.7*	18.4	13.5	18.6*	14.8	9.7
280	-	-	-	-	15.9	-	-	19.2	13.9	-	18.6	13.5	23.4*	18.2	12.9	18.2*	14.8	9.7
288	-	-	-	-	-	-	-	13.1	-	17.6	-	12.5	19.3*	17.3	12.1	17.9*	14.8	9.7
296	-	-	-	-	-	-	-	-	-	-	-	11.6	-	16.2	11.2	17.6*	14.7	9.7
304	-	-	-	-	-	-	-	-	-	-	-	10.8	-	15.4	10.4	17.3*	14.2	9.3
312	-	-	-	-	-	-	-	-	-	-	-	10.1	-	14.6	9.6	-	13.5	8.7
320	-	-	-	-	-	-	-	-	-	-	-	9.4	-	13.8	8.9	-	12.7	7.9
328	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	12.0	7.3
336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7
360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9

176,400 lbs  
 220,500 lbs  
 264,600 lbs  
 308,700 lbs  
 352,800 lbs  
 396,800 lbs

# Operation

360°													ASME B30.5						
 169.9 ft +  13.1 ft																			
	78.7 ft			98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft			
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	
ft	1,000 lbs																		
72	67.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80	64.5	-	-	57.2	-	-	51.7	-	-	44.8	-	-	-	-	-	-	-	-	-
88	61.6	-	-	55.1	-	-	49.9	-	-	43.3	-	-	40.6	-	-	-	-	-	-
96	59.4	-	-	53.1	-	-	48.1	-	-	41.9	-	-	39.3	-	-	-	-	34.7	-
104	-	-	-	51.5	-	-	46.5	-	-	40.5	-	-	38.1	-	-	-	-	33.6	-
112	-	-	-	50.2	-	-	44.9	-	-	39.2	-	-	37.0	-	-	-	-	32.8	-
120	-	40.4	-	-	38.7	-	43.5	-	-	38.0	-	-	35.9	-	-	-	-	31.9	-
128	-	37.8	-	-	36.1	-	42.1	33.5	-	36.8	-	-	34.8	-	-	-	-	31.0	-
136	-	-	-	-	33.8	-	40.8	31.5	-	35.9	-	-	33.9	-	-	-	-	30.3	-
144	-	-	-	-	31.8	-	-	29.4	-	34.9	27.6	-	33.1	-	-	-	-	29.6	-
152	-	-	-	-	-	-	-	27.8	-	34.1	25.8	-	32.3	26.7	-	-	-	28.7	-
160	-	-	-	-	-	24.0	-	26.3	-	-	24.0	-	31.5	25.1	-	-	28.0	23.2	-
168	-	-	-	-	-	22.5	-	25.2	20.3	-	22.7	-	31.0	23.6	-	-	27.5	21.8	-
176	-	-	-	-	-	-	-	-	18.9	-	21.4	-	30.7	22.2	-	-	27.0	20.3	-
184	-	-	-	-	-	-	-	-	17.8	-	20.5	15.9	-	21.1	-	-	26.4	19.0	-
192	-	-	-	-	-	-	-	-	-	-	-	14.8	-	20.1	15.9	-	26.0	17.9	-
200	-	-	-	-	-	-	-	-	-	-	-	13.8	-	19.3	14.8	-	-	17.0	-
208	-	-	-	-	-	-	-	-	-	-	-	13.0	-	18.7	13.9	-	-	16.1	12.0
216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1	-	15.3	11.1	-
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.5	-	14.8	10.4	-
232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	-
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.1	-

	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft			
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	
ft	1,000 lbs																		
96	30.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
104	29.4	-	-	23.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
112	28.9	-	-	23.1	-	-	18.7	-	-	14.8	-	-	-	-	-	-	-	-	-
120	28.2	-	-	22.6	-	-	18.2	-	-	14.5	-	-	11.2	-	-	-	-	-	-
128	27.6	-	-	22.2	-	-	18.0	-	-	14.2	-	-	11.0	-	-	-	-	7.9	-
136	27.0	-	-	21.7	-	-	17.5	-	-	13.9	-	-	10.9	-	-	-	-	7.8	-
144	26.3	-	-	21.2	-	-	17.2	-	-	13.7	-	-	10.8	-	-	-	-	7.7	-
152	25.7	-	-	20.9	-	-	16.9	-	-	13.4	-	-	10.5	-	-	-	-	7.7	-
160	25.2	-	-	20.4	-	-	16.5	-	-	13.2	-	-	10.4	-	-	-	-	7.7	-
168	24.6	20.4	-	20.0	-	-	16.1	-	-	13.1	-	-	10.2	-	-	-	-	7.6	-
176	24.1	19.3	-	19.5	16.2	-	15.7	-	-	12.8	-	-	10.0	-	-	-	-	7.5	-
184	23.7	18.1	-	19.3	15.3	-	15.4	12.5	-	12.6	-	-	9.9	-	-	-	-	7.5	-
192	23.3	17.0	-	19.1	14.4	-	15.2	12.0	-	12.3	-	-	9.7	-	-	-	-	7.5	-
200	22.9	16.1	-	18.9	13.6	-	14.9	11.1	-	12.2	-	-	9.5	-	-	-	-	7.3	-
208	22.7	15.2	-	18.6	12.7	-	14.7	10.5	-	12.0	-	-	9.4	-	-	-	-	7.3	-
216	22.5	14.4	10.6	18.3	11.9	-	14.6	9.8	-	11.9	-	-	9.3	-	-	-	-	7.3	-
224	-	13.6	9.8	18.3	11.3	-	14.3	9.1	-	11.8	-	-	9.3	-	-	-	-	7.3	-
232	-	12.9	9.1	-	10.6	-	14.1	8.4	-	11.7	-	-	9.2	-	-	-	-	7.2	-
240	-	12.5	8.4	-	9.9	-	13.9	7.9	-	11.7	-	-	9.1	-	-	-	-	7.1	-
248	-	-	7.7	-	9.3	-	13.8	7.4	-	11.6	-	-	9.0	-	-	-	-	7.1	-
256	-	-	7.1	-	8.8	-	-	6.8	-	11.5	-	-	8.8	-	-	-	-	7.1	-
264	-	-	6.8	-	8.5	-	-	6.3	-	11.3	-	-	8.8	-	-	-	-	6.9	-
272	-	-	-	-	-	-	-	5.9	-	-	-	-	8.8	-	-	-	-	6.8	-
280	-	-	-	-	-	-	-	5.6	-	-	-	-	8.6	-	-	-	-	6.8	-
288	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-	-	-	6.7	-
296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6	-
304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6	-

-  132,300 lbs
-  176,400 lbs
-  220,500 lbs
-  264,600 lbs
-  308,700 lbs
-  352,800 lbs
-  396,800 lbs

# Operation

# WIHI-SSL 30°/60°

360°													ASME B30.5		
ft	98.4 ft			118.1 ft			137.8 ft			157.5 ft			177.2 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
1,000 lbs															
72	-	-	-	92.5	-	-	-	-	-	-	-	-	-	-	-
80	101.9	-	-	91.5*	-	-	-	-	-	-	-	-	-	-	-
88	97.9	-	-	85.2	-	-	81.4*	-	-	-	-	-	-	-	-
96	94.2	-	-	82.0	-	-	74.9*	-	-	-	74.7*	-	-	68.6*	-
104	91.2	-	-	79.1	-	-	69.3	-	-	-	69.4*	-	-	64.8*	-
112	88.7	-	-	76.4	-	-	67.1	-	-	-	64.2*	-	-	61.3*	-
120	-	72.0	-	74.5	-	-	64.9	-	-	-	60.7*	-	-	57.6*	-
128	-	66.9	-	72.6	64.6	-	62.9	-	-	-	57.6	-	-	54.4*	-
136	-	62.9	-	71.1	60.6	-	61.5	56.2	-	-	55.9	-	-	51.6*	-
144	-	59.5	-	-	56.8	-	60.0	53.7	-	-	54.7	-	-	48.8*	-
152	-	-	47.6	-	54.1	-	58.9	51.3	-	-	53.6	48.5	-	46.6	42.4
160	-	-	44.7	-	51.8	-	-	49.1	-	-	52.6	47.1	-	45.6	41.3
168	-	-	42.2	-	49.3	40.1	-	47.0	-	-	51.6	45.6	-	44.8	40.2
176	-	-	-	-	-	38.0	-	44.8	36.7	-	50.8	44.1	-	44.0	39.0
184	-	-	-	-	-	36.3	-	42.5	34.7	-	-	42.5	-	43.3	38.0
192	-	-	-	-	-	-	-	-	32.7	-	-	40.9	34.0	42.7	37.0
200	-	-	-	-	-	-	-	-	31.1	-	-	39.1	32.1	-	36.1
208	-	-	-	-	-	-	-	-	29.8	-	-	37.3	30.5	-	35.1
216	-	-	-	-	-	-	-	-	-	-	-	-	29.2	-	34.0
224	-	-	-	-	-	-	-	-	-	-	-	-	27.8	-	32.4
232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.5
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.2

ft	196.9 ft			216.5 ft			236.2 ft			255.9 ft			275.6 ft			295.3 ft		
	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°	83°	73°	65°
1,000 lbs																		
104	59.1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
112	56.7*	-	-	49.3*	-	-	42.5*	-	-	-	-	-	-	-	-	-	-	-
120	54.4*	-	-	47.4*	-	-	41.4*	-	-	35.0*	-	-	-	-	-	-	-	-
128	52.1*	-	-	45.5*	-	-	40.3*	-	-	34.4*	-	-	28.2*	-	-	22.7*	-	-
136	49.7*	-	-	43.6*	-	-	39.1*	-	-	33.9*	-	-	27.9*	-	-	22.3*	-	-
144	47.3*	-	-	42.0*	-	-	38.0*	-	-	33.1*	-	-	27.6*	-	-	22.1*	-	-
152	44.9*	-	-	40.1*	-	-	36.9*	-	-	32.6*	-	-	27.3*	-	-	21.8*	-	-
160	42.5*	-	-	38.3*	-	-	35.4*	-	-	31.9*	-	-	27.0*	-	-	21.5*	-	-
168	40.6*	35.5	-	36.6*	-	-	33.9*	-	-	30.9*	-	-	26.6*	-	-	21.2*	-	-
176	39.0*	34.5	-	34.9*	29.4	-	32.4*	-	-	29.7*	-	-	26.1*	-	-	20.8*	-	-
184	37.7*	33.6	-	33.6*	28.6	-	30.9*	24.5	-	28.6*	-	-	25.6*	-	-	20.5*	-	-
192	36.7*	32.7	-	32.3*	27.9	-	29.5*	23.9	-	27.5*	19.3	-	25.0*	-	-	20.2*	-	-
200	36.2*	32.0	-	31.1*	27.2	-	28.2*	23.2	-	26.5*	19.1	-	24.3*	15.1	-	19.6*	-	-
208	35.8*	31.4	-	30.1*	26.5	-	27.2*	22.5	-	25.5*	18.8	-	23.6*	14.9	-	19.2*	10.4	-
216	35.3*	30.9	26.6	29.6*	25.8	-	26.3*	21.9	-	24.5*	18.5	-	23.0*	14.8	-	18.8*	10.4	-
224	-	30.2	25.1	29.3*	25.3	23.0	25.2*	21.3	-	23.6*	18.1	-	22.2*	14.6	-	18.4*	10.4	-
232	-	29.4	23.6	-	25.0	21.7	24.3*	20.8	-	22.7*	17.8	-	21.4*	14.5	-	18.0*	10.4	-
240	-	28.4	22.3	-	24.4	20.3	23.9*	20.4	17.7	21.9*	17.5	-	20.7*	14.4	-	17.6*	10.4	-
248	-	-	21.1	-	24.0	19.1	23.7*	20.0	16.8	21.2*	17.1	13.4	20.0*	14.2	-	17.2*	10.4	-
256	-	-	20.0	-	23.6	18.1	-	19.6	15.9	20.5*	16.8	13.0	19.2*	14.1	9.7	16.8*	10.4	-
264	-	-	19.0	-	22.6	17.0	-	19.3	14.8	20.2*	16.5	12.7	18.5*	13.8	9.7	16.3*	10.4	-
272	-	-	-	-	-	16.0	-	19.0	13.8	-	16.2	12.5	18.0*	13.6	9.7	15.9*	10.4	6.0
280	-	-	-	-	-	15.0	-	18.4	12.8	-	15.8	12.2	17.7*	13.5	9.5	15.5*	10.4	6.0
288	-	-	-	-	-	-	-	-	12.0	-	15.6	11.5	17.4*	13.3	9.4	15.2*	10.4	6.0
296	-	-	-	-	-	-	-	-	11.2	-	15.4	10.7	-	13.2	9.2	15.0*	10.4	6.0
304	-	-	-	-	-	-	-	-	10.5	-	15.0	9.9	-	13.1	9.1	14.8*	10.4	6.0
312	-	-	-	-	-	-	-	-	-	-	-	9.2	-	13.0	8.7	-	10.4	6.0
320	-	-	-	-	-	-	-	-	-	-	-	8.5	-	13.0	8.1	-	10.4	6.0
328	-	-	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	10.4	6.0
336	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-	10.3	5.8
344	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	9.9	5.2
352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7



# Notes to Lifting Capacity

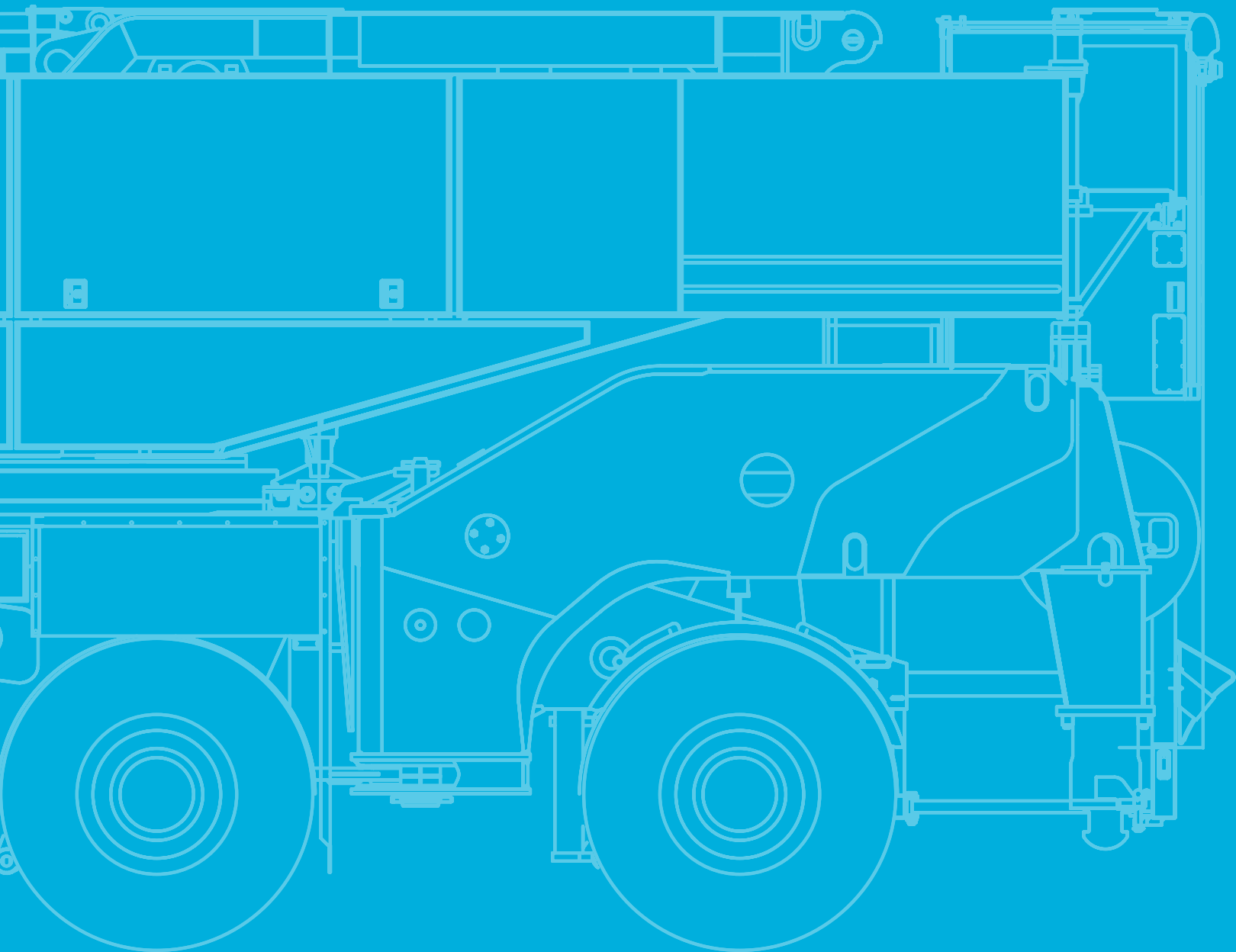
Ratings are in compliance with ASME B30.5.  
Lifting capacities do not exceed 85 % of tipping load.

Consult operation manual for further details.

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



# TECHNICAL DESCRIPTION



# Technical Description

## Basic machine

### Equipment carrier

<b>Engine 460-5</b>	Mercedes-Benz OM473; Output 460 kW (617 HP) at 1600 1/min, torque 3000 Nm at 1300 1/min; The engine complies with EU Stage V/Tier 4F. Exhaust system complete stainless steel with SCR catalyser. Fuel tank 232 gallons Diesel (no RME/biodiesel), 25 gallons Ad-Blue tank.
<b>Transmission ZF TraXon Torque</b>	Automated gearbox with integrated torque converter and hydraulic retarder, 12 forward speeds and 2 reverse; Selectable longitudinal lock included in transfer case.
<b>Axles 16 x 8 x 14</b>	8 axles, axles 1, 2, 4, 5 driven and equipped with selectable transverse lock, axles 1-4 and 6-8 steered, axle 5 liftable.
<b>Suspension</b>	Hydropneumatic suspension with axle load compensation; Hydraulically lockable; Manual or automatic levelling alternatively.
<b>Steering</b>	Dual circuit hydro semiblock steering with emergency steering pump.
<b>Brakes</b>	Pneumatic dual circuit service brake, acting on all wheels; Disc brakes; Hydraulic retarder integrated into transmission as sustained-action brake; Additional exhaust brake and constant choke valve; Spring-loaded parking brake.
<b>Tires</b>	Tires size 385/95R25 (14.00R25); Steel rims 9,5-25/1,7ET70; 170F.
<b>Cab 2880</b>	Type 9.5 ft; Adjustable driver seat with seat heating, armrests and pneumatic suspension; Steering wheel height and tilt adjustable; Co-driver's seat; Power door windows; Tinted glass; Radio-preparation; Heating engine-dependent; Aircondition.
<b>Drive lights</b>	With low beam, upper beam.
<b>Central lubrication</b>	Automatic central lubrication system for the lubricating points at the carrier.
<b>Outriggers</b>	X-4-Point design; 4 outriggers telescopic; Vertical and horizontal movement fully hydraulic; Manual or automatic levelling alternatively; 2 outrigger bases. 4 outrigger pads with transport position at outrigger beam.
<b>Outrigger quick connection</b>	Hydraulic bolt extractors and hydraulic and electric quick couplings for fast (dis-) assembly.
<b>Outrigger load indicator</b>	Displayed in LMI crane cab.
<b>Outrigger basis monitoring</b>	Individual monitoring of horizontal stroke; Deviation warning in crane cab.
<b>Cruise control</b>	Automatic speed control including automatic brake control.
<b>Electronic immobiliser system</b>	Prevents uncontrolled carrier mobilisation; Incl. 6 ignition keys.

### Equipment superstructure

<b>Engine 210-5</b>	Mercedes-Benz OM936; Output 210 kW (281 HP) at 1800 1/min, torque 1200 Nm at 1200-1600 1/min; The engine complies with EU Stage V/Tier 4F. Exhaust system complete stainless steel with SCR catalyser.
<b>Telescopic boom HA56</b>	48.2 ft -183.7 ft; ; Single cylinder telescoping system, automatic telescoping; Attachments for all equipment and extensions; 8 sheaves integrated in boom head for max. capacity of 414,200 lbs.
<b>Boom luffing</b>	2 luffing cylinders with automatic lowering brake valve.
<b>Rotary drive</b>	1 slewing gear unit with spring-loaded multi-disc brake; Different operating modes selectable.
<b>H1</b>	Hoist with spring-loaded multi-disc brake; twist prevention for rope; Resolver (hoist rotation indicator).
<b>Counterweight base frame 44,100 lbs</b>	Self rigging with semiautomatic rigging system, rigging storage on carrier front; Expandable to max. 386,800 lbs.
<b>Control system</b>	Enabling 4 simultaneous working movements; Electric pilot controls via 2 two-axis joysticks; Different control modes selectable for hydraulic circuits.
<b>Operator aids</b>	IC-1, with integrated electronic load moment indicator in accordance with EN13000; Color display; Displaying of current operating conditions, load charts, fault indicator; Signal lights indicating LMI-load; Crane data logger.
<b>Working range limiter</b>	Displaying and programmability of the work range limits by IC-1.
<b>IC-1 Plus</b>	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.
<b>IC-1 Remote</b>	IC-1 Remote, Tadano telematic system.
<b>Cab 1100</b>	Type 3.6 ft; Tilt infinitely variable 20°; Seat heating; Sliding window in door and rear; Fold-out front window; Extendable side pedestal, foldable front pedestal; Handrails; Tinted safety glass; Pull-down sun visor and light curtains; Radio-preparation; Heating engine independent; Aircondition.
<b>Double work floodlight</b>	2 out of crane cab adjustable floodlights, at front support boom base section.
<b>Central lubrication</b>	Automatic central lubrication system for the lubricating points at the superstructure.

# Technical Description

## Additional equipment

### Carrier

<b>Engine 460-3</b>	Mercedes-Benz OM473; Output 460 kW (617 HP) at 1600 1/min, torque 3000 Nm at 1300 1/min; The engine complies with ECE R96 (equivalent to former regulation EU Stufe IIIA / Tier 3); Exhaust system complete stainless steel incl. spark arrester certificate. Fuel tank 232 gallons Diesel (no RME/Biodiesel).
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### Superstructure

<b>Engine 210-3</b>	Mercedes-Benz OM936; Output 210 kW (281 HP) at 1800 1/min, torque 1200 Nm at 1200-1600 1/min; The engine complies with ECE R96 (equivalent to former regulation EU Stufe IIIA / Tier 3); Exhaust system complete stainless steel incl. spark arrester certificate.
<b>Heavy lift attachment</b>	3 additional sheaves; For total 11 sheaves at boom head; Max. capacity 553,100 lbs.
<b>SSL</b>	Sideways Superlift; Capacity increasing boom guy support.
<b>2. hoist (H2)</b>	Spring-loaded multi-disc brake; Integrated resolver (hoist rotation indicator); Incl. quick couplings, rope twist prevention and hoist monitoring.
<b>Additional counterweight 352,800 lbs</b>	16 x 22,050 lbs; For max. 396,800 lbs.

### Handling

<b>HR</b>	Hydraulic winch for reeving assistance; Only together with H2.
<b>Fall-from-height protection system boom base section</b>	Rail system as fall-from-height protection at the main boom base section.
<b>Fall-from-height protection system boom base section + SSL</b>	Rail system as fall-from-height protection at the main boom base section and SSL.
<b>Fall-from-height protection system WIHI</b>	Rail system as fall-from-height protection for the lattice parts WIHI.

### Extensions

<b>WIHI 295.3 ft</b>	Maximum length 295.3 ft (total length of components: 305.1 ft); Luffing jib, complete building set; Increments 19.7 ft; With integrated manual offset section 20° / 40°; 5-sheave und 3-sheave head; Enables configuration WIHI 78.7 ft - 295.3 ft, LF 27.6 ft - 203.4 ft and HAV 19.7 ft - 98.4 ft; H2 required.
<b>Swing-away rooster sheave</b>	1-sheave; Incl. transport storage at boom head HA56; Enables to operate a 2. hook with only 1 line as „fast hook/runner“ at main boom head HA56.

### Hook Blocks

<b>Hook block 705,600 lbs, 11-sheaves</b>	Max. capacity 553,100 lbs; 7,100 lbs; Double hook, red with white signal stripes.
<b>Hook block 551,250 lbs, 9-sheaves</b>	Max. capacity 484,800 lbs; 5,700 lbs; Double hook, red with white signal stripes.
<b>Hook block 441,000 lbs, 7-sheaves</b>	Max. capacity 390,200 lbs; 5,100 lbs; Double hook, red with white signal stripes.
<b>Hook block 352,800 lbs, 5-sheaves</b>	Max. capacity 292,000 lbs; 4,900 lbs; Double hook, red with white signal stripes.
<b>Hook block 220,500 lbs, 3-sheaves</b>	Max. capacity 189,400 lbs 4,000 lbs; Double hook, red with white signal stripes.
<b>Hook block 88,200 lbs, 1-sheave</b>	Max. capacity 82,900 lbs; 1,650 lbs; Double hook, red with white signal stripes.
<b>Hook 27,600 lb</b>	Max. capacity 27,600 lbs; 1,100 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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