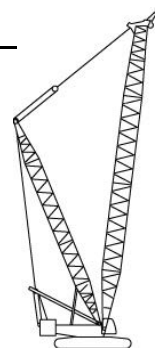


Liftcrane Boom Capacities

Boom No. 58 HL with 98.4 ft Mast No. 59A
332,000 lb Crane Counterweight
120,000 lb Carbody Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Static Machine List
No Travel - 360 Degree Rating - Two Swing Drives



Manitowoc

**16000
SERIES 3
With Mast**



LIFTING CAPACITIES: Lifting capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Standard upper boom point capacity for liftcrane service with single part whip line is 30,000 lb or 60,000 lb with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate on a firm uniformly supporting surface with machine list not to exceed degrees noted. Refer to boom rigging **No. A14546**, Wire Rope Specification chart **No. 8745-A**, Counterweight Arrangement chart **No. 8682-A** and Wind Conditions chart **No. 8688-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.



OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation at barge deck to center of vertical hoist line or load block.



BOOM ANGLE: Boom angle in degrees ($^{\circ}$) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



BOOM POINT ELEVATION: Boom point elevation is vertical distance from barge deck to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with two swing drives, 34 ft crawlers, 60 in. treads, 32 ft live mast, 98.4 ft mast, 12 part boom hoist reeving, boom support straps, 332,000 lb crane counterweight, two 30,000 lb and four 15,000 lb carbody counterweights.

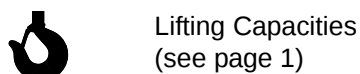
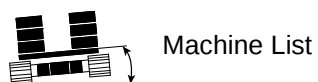
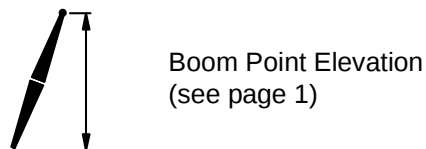
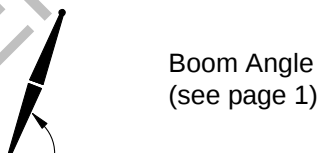
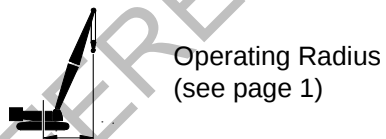
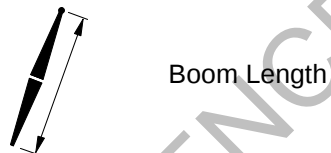
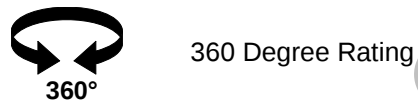
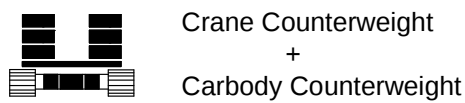
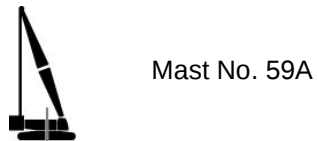
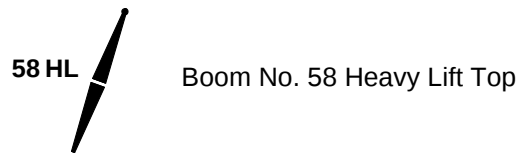
Maximum Boom Lengths Lifted Unassisted

List	Over End of Blocked Crawlers	Over Side of Crawlers
	Boom Length	Boom Length
0 Degree	315.0 ft	295.3 ft
1 Degree	295.3 ft	295.3 ft
2 Degree	295.3 ft	295.3 ft
3 Degree	295.3 ft	295.3 ft
Load block, hook and weight ball on barge deck until combined weights are within rated capacity of chart.		

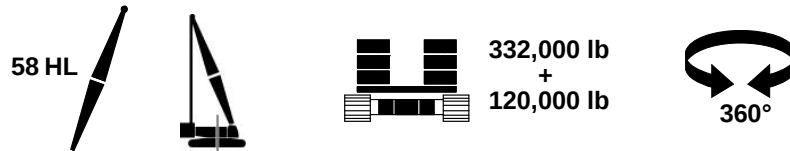
Boom Catwalk Deduct

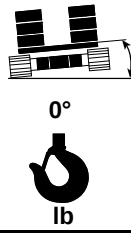
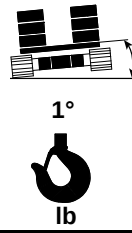
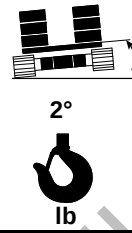
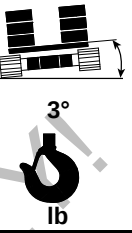
Deduct 700 lb from capacities when boom catwalks are attached.

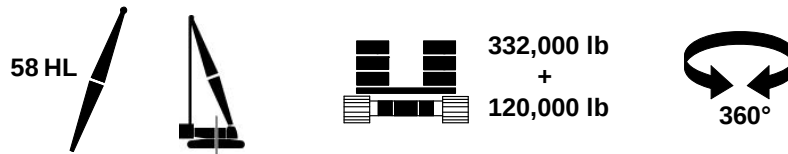
Explanation of Symbols



16000 S-3

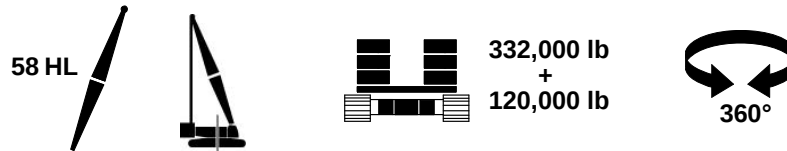


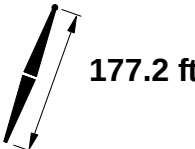
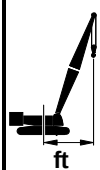
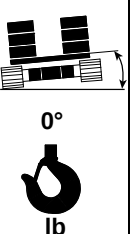
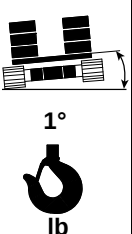
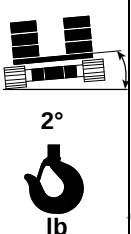
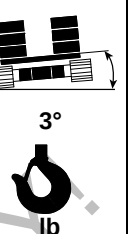
 137.8 ft							
 ft	 °	 ft	 lb	 lb	 lb	 lb	 ft
26	82.8	145.0	738,600 *				26
28	82.0	144.7	687,300 *	624,800 *			28
30	81.1	144.3	642,400 *	588,300 *			30
32	80.3	144.0	602,700 *	551,100 *	487,400 *		32
34	79.5	143.5	565,700 *	517,200 *	475,100	381,300 *	34
36	78.6	143.1	530,300 *	487,100 *	439,800	381,300 *	36
38	77.7	142.6	497,600 *	452,100	409,100	372,500	38
40	76.9	142.1	464,600	420,000	382,100	349,600	40
45	74.7	140.7	388,100	355,500	327,200	302,300	45
50	72.5	139.1	331,900	307,100	285,100	265,400	50
55	70.3	137.2	288,900	269,400	251,800	235,800	55
60	68.1	135.2	254,900	239,100	224,700	211,600	60
65	65.8	132.9	227,400	214,400	202,400	191,400	65
70	63.5	130.3	204,600	193,700	183,600	174,200	70
75	61.1	127.5	185,400	176,200	167,600	159,500	75
80	58.6	124.4	169,100	161,200	153,800	146,800	80
85	56.1	121.0	154,900	148,100	141,700	135,600	85
90	53.5	117.3	142,600	136,700	131,100	125,700	90
95	50.8	113.2	131,800	126,600	121,700	117,000	95
100	48.0	108.7	122,200	117,600	113,300	109,100	100
105	45.1	103.7	113,600	109,600	105,800	102,000	105
110	42.0	98.1	105,900	102,400	99,000	95,700	110
115	38.7	91.9	98,900	95,800	92,800	89,800	115
120	35.1	84.8	92,500	89,800	87,100	84,600	120
125	31.1	76.6	86,700	84,300	82,000	79,700	125
130	26.5	66.9	81,400	79,300	77,300	75,300	130
135	21.0	54.6	76,400	74,700	72,900	71,200	135



28	83.0	164.6	686,200 *				28
30	82.3	164.3	641,300 *				30
32	81.5	164.0	601,600 *	544,100 *			32
34	80.8	163.6	565,000 *	511,000 *	456,500 *		34
36	80.0	163.2	529,600 *	481,400 *	428,900		36
38	79.3	162.8	498,100 *	446,600	399,500	360,100	38
40	78.6	162.4	465,200	415,100	373,500	338,400	40
45	76.7	161.1	388,500	351,800	320,500	293,500	45
50	74.8	159.7	332,100	304,100	279,700	258,200	50
55	72.9	158.2	288,900	266,800	247,200	229,800	55
60	71.0	156.4	254,800	236,900	220,900	206,400	60
65	69.0	154.4	227,200	212,400	199,000	186,800	65
70	67.0	152.3	204,300	191,900	180,600	170,100	70
75	65.0	149.9	185,000	174,500	164,800	155,800	75
80	63.0	147.3	168,600	159,600	151,200	143,400	80
85	60.9	144.5	154,500	146,600	139,300	132,400	85
90	58.7	141.4	142,100	135,300	128,800	122,800	90
95	56.6	138.1	131,300	125,200	119,500	114,100	95
100	54.3	134.4	121,600	116,300	111,200	106,400	100
105	52.0	130.5	113,000	108,300	103,800	99,500	105
110	49.6	126.2	105,300	101,100	97,000	93,200	110
115	47.1	121.5	98,300	94,500	90,900	87,400	115
120	44.5	116.4	91,900	88,600	85,300	82,200	120
125	41.8	110.8	86,100	83,100	80,200	77,300	125
130	38.9	104.6	80,800	78,100	75,500	72,900	130
135	35.8	97.7	75,900	73,500	71,100	68,800	135
140	32.4	90.0	71,400	69,200	67,100	65,000	140
145	28.7	81.0	67,200	65,200	63,400	61,500	145
150	24.4	70.3	63,200	61,500	59,900	58,300	150
155	19.2	56.9	59,500	58,100	56,700	55,300	155

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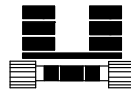
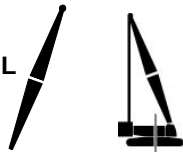


							
							
ft	°	ft	lb	lb	lb	lb	ft
32	82.5	183.9	600,200 *				32
34	81.8	183.6	564,000 *	501,000 *			34
36	81.2	183.3	528,500 *	475,400 *			36
38	80.5	182.9	497,000 *	440,800	389,800		38
40	79.9	182.5	465,300	409,900	364,900		40
45	78.2	181.4	388,400	347,800	313,700	284,700	45
50	76.5	180.2	331,900	300,800	274,100	251,000	50
55	74.9	178.8	288,600	264,000	242,500	223,600	55
60	73.2	177.2	254,400	234,400	216,800	201,100	60
65	71.5	175.5	226,600	210,200	195,400	182,100	65
70	69.7	173.6	203,700	189,900	177,300	165,900	70
75	68.0	171.6	184,400	172,600	161,900	152,000	75
80	66.2	169.3	167,900	157,800	148,500	139,800	80
85	64.4	166.9	153,800	144,900	136,800	129,200	85
90	62.6	164.3	141,400	133,600	126,400	119,700	90
95	60.7	161.4	130,500	123,700	117,300	111,300	95
100	58.8	158.4	120,800	114,800	109,100	103,700	100
105	56.9	155.1	112,200	106,800	101,700	96,800	105
110	54.9	151.5	104,500	99,600	95,000	90,600	110
115	52.9	147.7	97,500	93,100	88,900	85,000	115
120	50.8	143.6	91,100	87,200	83,400	79,800	120
125	48.6	139.2	85,300	81,700	78,300	75,000	125
130	46.4	134.4	80,000	76,700	73,600	70,600	130
135	44.1	129.2	75,100	72,100	69,300	66,600	135
140	41.6	123.6	70,500	67,900	65,300	62,800	140
145	39.1	117.4	66,400	63,900	61,600	59,300	145
150	36.3	110.6	62,500	60,300	58,100	56,100	150
155	33.4	103.1	58,800	56,800	54,900	53,000	155
160	30.2	94.7	55,400	53,600	51,900	50,200	160
165	26.7	85.0	52,200	50,600	49,000	47,500	165
170	22.6	73.4	49,200	47,800	46,400	45,000	170
175	17.6	58.8	46,300	45,100	43,900	42,700	175

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58 HL



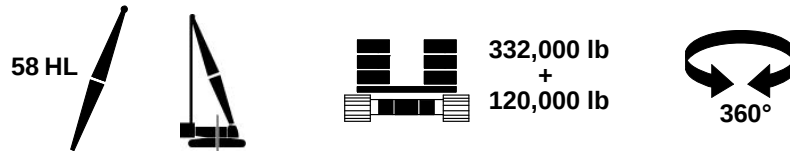
332,000 lb
+
120,000 lb



360°

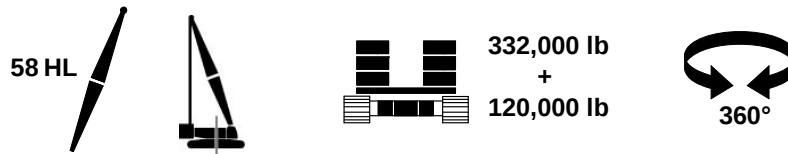
ft	°	ft	lb	lb	lb	lb	ft
34	82.6	203.5	562,700 *				34
36	82.1	203.2	527,300 *				36
38	81.5	202.9	495,800 *	434,900			38
40	80.9	202.5	465,200	404,600	354,300 *		40
45	79.4	201.6	388,100	343,500	306,900		45
50	77.9	200.5	331,400	297,200	268,400	243,800	50
55	76.4	199.2	288,000	261,000	237,700	217,500	55
60	74.9	197.8	253,600	231,700	212,600	195,700	60
65	73.4	196.3	225,800	207,700	191,700	177,300	65
70	71.8	194.6	202,800	187,600	173,900	161,600	70
75	70.3	192.8	183,500	170,500	158,700	148,100	75
80	68.7	190.8	167,000	155,800	145,600	136,200	80
85	67.1	188.7	152,800	143,000	134,000	125,800	85
90	65.5	186.4	140,400	131,800	123,900	116,500	90
95	63.9	183.9	129,500	121,900	114,800	108,300	95
100	62.3	181.2	119,800	113,000	106,700	100,800	100
105	60.6	178.4	111,100	105,100	99,400	94,100	105
110	58.9	175.3	103,400	97,900	92,800	88,000	110
115	57.2	172.1	96,400	91,500	86,800	82,400	115
120	55.4	168.6	90,000	85,500	81,300	77,300	120
125	53.6	164.9	84,200	80,100	76,300	72,600	125
130	51.7	160.9	78,800	75,200	71,600	68,300	130
135	49.8	156.6	73,900	70,600	67,400	64,300	135
140	47.8	152.1	69,400	66,300	63,400	60,500	140
145	45.8	147.2	65,200	62,400	59,700	57,100	145
150	43.7	142.0	61,300	58,800	56,300	53,800	150
155	41.5	136.3	57,700	55,300	53,000	50,800	155
160	39.2	130.2	54,300	52,100	50,000	48,000	160
165	36.8	123.5	51,100	49,100	47,200	45,300	165
170	34.2	116.2	48,200	46,300	44,600	42,800	170
175	31.4	108.1	45,300	43,700	42,000	40,500	175
180	28.4	99.0	42,700	41,200	39,700	38,200	180
185	25.0	88.6	40,200	38,800	37,500	36,100	185
190	21.1	76.2	37,700	36,500	35,300	34,200	190
195	16.3	60.4	35,400	34,400	33,300	32,300	195

16000 S-3



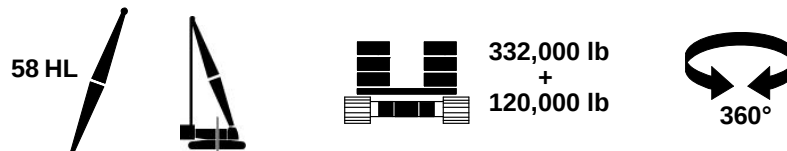
 216.5 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
36	82.8	223.1	526,900 *				36
38	82.3	222.8	495,400 *				38
40	81.7	222.5	465,800	396,700 *			40
45	80.4	221.6	388,400	340,100	301,000		45
50	79.0	220.6	331,600	294,500	263,700		50
55	77.7	219.5	288,100	258,700	233,800	212,400	55
60	76.3	218.2	253,700	229,900	209,300	191,400	60
65	74.9	216.9	225,900	206,100	188,800	173,600	65
70	73.6	215.4	202,800	186,200	171,500	158,300	70
75	72.2	213.7	183,500	169,300	156,600	145,100	75
80	70.8	211.9	166,900	154,700	143,600	133,600	80
85	69.3	210.0	152,700	142,000	132,300	123,400	85
90	67.9	208.0	140,300	130,900	122,300	114,400	90
95	66.5	205.8	129,300	121,000	113,300	106,300	95
100	65.0	203.4	119,600	112,200	105,300	99,000	100
105	63.5	200.9	111,000	104,300	98,100	92,400	105
110	62.0	198.2	103,200	97,200	91,600	86,400	110
115	60.5	195.3	96,200	90,800	85,700	80,900	115
120	58.9	192.3	89,800	84,900	80,200	75,900	120
125	57.4	189.1	84,000	79,500	75,300	71,200	125
130	55.8	185.6	78,700	74,600	70,700	67,000	130
135	54.1	182.0	73,800	70,000	66,400	63,000	135
140	52.5	178.1	69,200	65,800	62,500	59,300	140
145	50.7	174.0	65,100	61,900	58,800	55,900	145
150	49.0	169.6	61,200	58,200	55,400	52,700	150
155	47.2	165.0	57,500	54,800	52,200	49,700	155
160	45.3	160.0	54,200	51,700	49,200	46,900	160
165	43.4	154.7	51,000	48,700	46,400	44,300	165
170	41.4	149.1	48,000	45,900	43,800	41,800	170
175	39.3	143.0	45,200	43,200	41,300	39,400	175
180	37.1	136.4	42,600	40,700	39,000	37,200	180
185	34.8	129.2	40,100	38,400	36,700	35,100	185
190	32.3	121.4	37,700	36,200	34,600	33,200	190
195	29.7	112.7	35,500	34,000	32,600	31,300	195
200	26.8	103.0	33,300	32,000	30,700	29,500	200
205	23.6	91.9	31,300	30,100	28,900	27,800	205
210	19.8	78.6	29,300	28,300	27,200	26,200	210
215	15.2	61.7	27,400	26,500	25,600	24,700	215

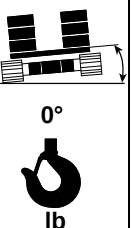
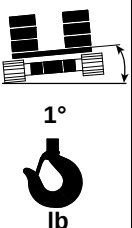
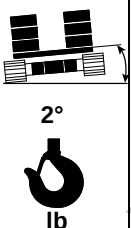
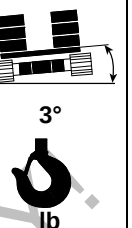
16000 S-3



 236.2 ft							
ft	°	ft	lb	lb	lb	lb	ft
38	82.9	242.7	493,900*				38
40	82.4	242.4	465,300				40
45	81.2	241.6	387,800	335,700			45
50	80.0	240.7	330,900	290,800	258,100		50
55	78.7	239.7	287,200	255,500	229,000		55
60	77.5	238.5	252,800	227,000	205,000	186,100	60
65	76.2	237.3	224,800	203,500	185,000	168,800	65
70	75.0	235.9	201,700	183,700	168,000	154,000	70
75	73.7	234.4	182,300	166,900	153,300	141,200	75
80	72.4	232.8	165,700	152,500	140,600	129,900	80
85	71.1	231.1	151,500	139,900	129,400	119,900	85
90	69.8	229.2	139,000	128,800	119,500	111,100	90
95	68.5	227.2	128,100	119,000	110,700	103,100	95
100	67.2	225.1	118,300	110,300	102,800	96,000	100
105	65.9	222.8	109,700	102,400	95,700	89,500	105
110	64.5	220.4	101,900	95,300	89,300	83,600	110
115	63.2	217.9	94,800	88,900	83,400	78,200	115
120	61.8	215.2	88,500	83,100	78,000	73,300	120
125	60.4	212.3	82,600	77,700	73,100	68,700	125
130	59.0	209.3	77,300	72,800	68,500	64,500	130
135	57.5	206.0	72,400	68,200	64,300	60,600	135
140	56.1	202.7	67,900	64,000	60,400	57,000	140
145	54.6	199.1	63,700	60,100	56,800	53,600	145
150	53.1	195.3	59,800	56,500	53,400	50,400	150
155	51.5	191.3	56,200	53,100	50,200	47,500	155
160	49.9	187.1	52,800	50,000	47,300	44,700	160
165	48.3	182.6	49,600	47,000	44,500	42,100	165
170	46.6	177.9	46,600	44,200	41,900	39,600	170
175	44.9	172.8	43,800	41,600	39,400	37,300	175
180	43.1	167.5	41,200	39,100	37,100	35,100	180
185	41.3	161.8	38,700	36,800	34,900	33,000	185
190	39.4	155.7	36,300	34,500	32,800	31,100	190
195	37.4	149.2	34,100	32,400	30,800	29,200	195
200	35.3	142.2	32,000	30,400	28,900	27,400	200
205	33.1	134.5	30,000	28,500	27,100	25,700	205
210	30.7	126.2	28,100	26,700	25,400	24,100	210
215	28.2	117.0	26,200	25,000	23,700	22,500	215
220	25.4	106.7	24,400	23,300	22,200	21,100	220
225	22.3	94.9	22,800	21,700	20,700	19,700	225
230	18.7	80.8	21,100	20,200	19,200	18,300	230

16000 S-3

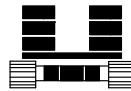
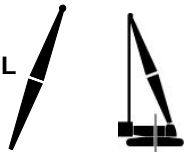


 255.9 ft							
 ft	 °	 ft	 0° lb	 1° lb	 2° lb	 3° lb	 ft
40	83.0	262.3	452,300 *				40
45	81.9	261.6	387,600	289,700 *			45
50	80.7	260.7	330,500	287,600	217,200 *		50
55	79.6	259.8	286,700	252,700	217,200 *		55
60	78.5	258.7	252,200	224,500	201,200		60
65	77.3	257.6	224,200	201,200	181,600		65
70	76.1	256.3	201,000	181,700	164,900	150,200	70
75	75.0	255.0	181,500	165,000	150,500	137,700	75
80	73.8	253.5	164,900	150,600	138,000	126,700	80
85	72.6	251.9	150,600	138,100	127,000	117,000	85
90	71.5	250.2	138,100	127,100	117,200	108,300	90
95	70.3	248.4	127,200	117,400	108,500	100,500	95
100	69.1	246.4	117,400	108,700	100,800	93,500	100
105	67.9	244.4	108,700	100,900	93,700	87,100	105
110	66.6	242.2	100,900	93,900	87,300	81,300	110
115	65.4	239.9	93,900	87,500	81,500	76,000	115
120	64.2	237.4	87,500	81,600	76,200	71,100	120
125	62.9	234.8	81,700	76,300	71,300	66,700	125
130	61.6	232.1	76,300	71,400	66,800	62,500	130
135	60.3	229.2	71,400	66,900	62,600	58,700	135
140	59.0	226.2	66,900	62,700	58,800	55,100	140
145	57.7	223.0	62,700	58,800	55,200	51,700	145
150	56.3	219.7	58,800	55,200	51,800	48,600	150
155	55.0	216.1	55,200	51,800	48,700	45,700	155
160	53.6	212.4	51,800	48,700	45,800	43,000	160
165	52.2	208.5	48,600	45,700	43,000	40,400	165
170	50.7	204.4	45,600	43,000	40,400	37,900	170
175	49.2	200.1	42,800	40,300	37,900	35,600	175
180	47.7	195.5	40,200	37,900	35,600	33,500	180
185	46.2	190.7	37,700	35,500	33,400	31,400	185
190	44.6	185.6	35,400	33,300	31,400	29,500	190
195	42.9	180.3	33,200	31,200	29,400	27,600	195
200	41.2	174.5	31,000	29,300	27,500	25,800	200
205	39.5	168.5	29,000	27,400	25,700	24,100	205
210	37.6	162.0	27,100	25,600	24,000	22,500	210
215	35.7	155.1	25,300	23,800	22,400	21,000	215
220	33.7	147.6	23,600	22,200	20,900	19,500	220
225	31.6	139.6	21,900	20,600	19,400	18,100	225
230	29.3	130.8	20,300	19,100	18,000	16,800	230
235	26.9	121.0	18,800	17,700	16,600	15,500	235
240	24.2	110.2	17,300	16,300	15,300	14,300	240
245	21.2	97.7	15,900 *	14,900	14,000	13,100	245
250	17.7	82.8	14,100 *	13,600 *	12,800	12,000	250

16000 S-3



58 HL



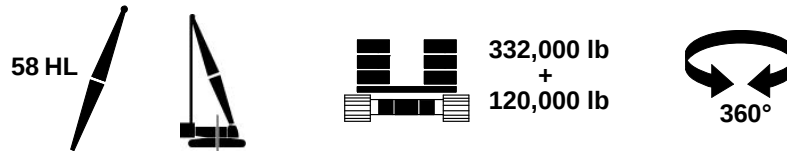
332,000 lb
+
120,000 lb

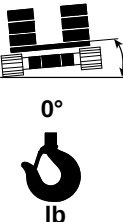
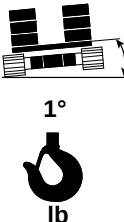
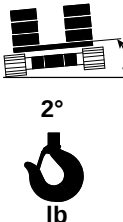
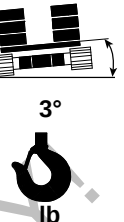


360°

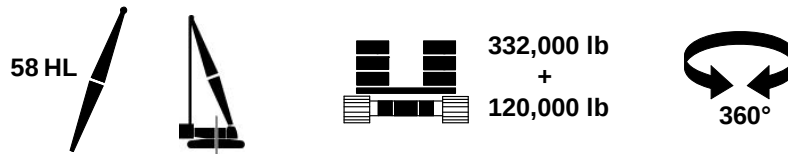
ft	°	ft	lb	lb	lb	lb	lb	ft
45	82.5	281.5	386,900					45
50	81.4	280.7	329,600	242,800 *				50
55	80.3	279.8	285,800	242,800 *	180,400 *			55
60	79.3	278.9	251,100	221,600	180,400 *			60
65	78.2	277.8	223,000	198,500	177,800			65
70	77.2	276.6	199,800	179,100	161,400	140,600 *		70
75	76.1	275.4	180,300	162,600	147,200	133,800		75
80	75.0	274.0	163,600	148,300	134,900	123,000		80
85	73.9	272.5	149,300	135,900	124,100	113,500		85
90	72.8	271.0	136,800	125,000	114,500	105,000		90
95	71.7	269.3	125,800	115,300	105,900	97,400		95
100	70.6	267.5	116,000	106,600	98,200	90,500		100
105	69.5	265.6	107,300	98,900	91,200	84,200		105
110	68.4	263.6	99,500	91,900	84,900	78,500		110
115	67.3	261.5	92,400	85,500	79,200	73,300		115
120	66.1	259.3	86,000	79,700	73,900	68,500		120
125	65.0	256.9	80,200	74,400	69,100	64,100		125
130	63.8	254.4	74,800	69,500	64,600	60,000		130
135	62.7	251.8	69,900	65,000	60,500	56,200		135
140	61.5	249.1	65,300	60,800	56,600	52,700		140
145	60.3	246.2	61,100	57,000	53,100	49,400		145
150	59.1	243.2	57,200	53,400	49,700	46,300		150
155	57.8	240.0	53,600	50,000	46,600	43,400		155
160	56.6	236.7	50,200	46,900	43,700	40,700		160
165	55.3	233.2	47,100	43,900	41,000	38,100		165
170	54.0	229.6	44,100	41,200	38,400	35,700		170
175	52.7	225.7	41,300	38,500	35,900	33,400		175
180	51.4	221.7	38,700	36,100	33,600	31,300		180
185	50.0	217.5	36,200	33,800	31,500	29,200		185
190	48.6	213.1	33,800	31,600	29,400	27,300		190
195	47.2	208.4	31,600	29,500	27,400	25,500		195
200	45.8	203.6	29,500	27,500	25,600	23,700		200
205	44.3	198.4	27,500	25,600	23,800	22,100		205
210	42.7	193.0	25,600	23,800	22,100	20,500		210
215	41.2	187.3	23,800	22,100	20,500	18,900		215
220	39.5	181.2	22,000	20,500	19,000	17,500		220
225	37.8	174.8	20,400	18,900	17,500	16,100		225
230	36.1	168.0	18,800	17,400	16,100	14,800		230
235	34.2	160.7	17,300	16,000	14,700	13,500		235
240	32.3	152.8	15,700 *	14,600	13,400	12,300		240
245	30.2	144.3	13,900 *	13,000 *	12,100 *	11,100		245
250	28.1	135.0	12,300 *	11,400 *	10,600 *	9,800 *		250
255	25.7	124.8	10,700 *	9,900 *	9,200 *	8,500 *		255
260	23.1	113.4	9,100 *	8,400 *	7,800 *	7,100 *		260
265	20.2	100.2	7,600 *	7,000 *				265

16000 S-3



 295.3 ft							
 ft	 °	 ft	 0° lb	 1° lb	 2° lb	 3° lb	 ft
45	83.0	301.4	327,200 *				45
50	82.0	300.6	327,200 *	202,300 *			50
55	81.0	299.8	285,300	202,300 *	148,800 *		55
60	80.0	298.9	250,600	202,300 *	148,800 *		60
65	79.0	297.9	222,400	196,400	148,800 *		65
70	78.0	296.8	199,200	177,200	148,800 *	114,600 *	70
75	77.0	295.7	179,600	160,800	144,600	114,600 *	75
80	76.0	294.4	163,000	146,700	132,500	114,600 *	80
85	75.0	293.0	148,600	134,300	121,900	110,800	85
90	74.0	291.6	136,100	123,500	112,400	102,500	90
95	73.0	290.0	125,000	113,900	103,900	95,000	95
100	72.0	288.4	115,300	105,300	96,300	88,300	100
105	71.0	286.6	106,600	97,600	89,500	82,100	105
110	69.9	284.8	98,700	90,600	83,200	76,500	110
115	68.9	282.8	91,700	84,300	77,600	71,400	115
120	67.8	280.8	85,200	78,500	72,300	66,700	120
125	66.8	278.6	79,400	73,200	67,600	62,300	125
130	65.7	276.3	74,000	68,400	63,100	58,300	130
135	64.6	273.9	69,100	63,900	59,000	54,500	135
140	63.5	271.4	64,600	59,700	55,200	51,000	140
145	62.4	268.8	60,400	55,900	51,700	47,800	145
150	61.3	266.0	56,500	52,300	48,400	44,800	150
155	60.2	263.1	52,800	49,000	45,300	41,900	155
160	59.1	260.1	49,400	45,800	42,400	39,200	160
165	57.9	257.0	46,300	42,900	39,700	36,700	165
170	56.8	253.7	43,300	40,100	37,100	34,300	170
175	55.6	250.2	40,500	37,500	34,700	32,100	175
180	54.4	246.6	37,900	35,100	32,500	29,900	180
185	53.2	242.9	35,400	32,800	30,300	27,900	185
190	52.0	238.9	33,000	30,600	28,200	26,000	190
195	50.7	234.8	30,800	28,500	26,300	24,200	195
200	49.4	230.5	28,700	26,500	24,500	22,400	200
205	48.1	226.0	26,700	24,700	22,700	20,800	205
210	46.8	221.3	24,800	22,900	21,000	19,200	210
215	45.4	216.4	23,000	21,200	19,400	17,700	215
220	44.0	211.2	21,300	19,600	17,900	16,300	220
225	42.6	205.8	19,600	18,000	16,400	14,900	225
230	41.1	200.0	18,100	16,500	15,000	13,600	230
235	39.6	194.0	16,500 *	15,100	13,700	12,300	235
240	38.0	187.6	14,700 *	13,500 *	12,300 *	11,100	240
245	36.4	180.8	13,000 *	11,900 *	10,800 *	9,800 *	245
250	34.7	173.6	11,400 *	10,300 *	9,300 *	8,300 *	250
255	32.9	165.9	9,800 *	8,800 *	7,900 *	7,000 *	255
260	31.0	157.7	8,300 *	7,400 *			260

16000 S-3



ft	°	ft	lb
50	82.5	320.5	279,800 *
55	81.6	319.8	279,800 *
60	80.6	318.9	249,400
65	79.7	318.0	221,200
70	78.8	317.0	197,900
75	77.9	315.9	178,200
80	76.9	314.7	161,500
85	76.0	313.4	147,100
90	75.0	312.1	134,500
95	74.1	310.6	123,500
100	73.1	309.1	113,700
105	72.2	307.5	104,900
110	71.2	305.7	97,100
115	70.3	303.9	90,000
120	69.3	302.0	83,600
125	68.3	300.0	77,700
130	67.3	297.9	72,300
135	66.3	295.7	67,400
140	65.3	293.4	62,800
145	64.3	290.9	58,600
150	63.3	288.4	54,700
155	62.3	285.8	51,100
160	61.2	283.0	47,700
165	60.2	280.1	44,500
170	59.1	277.1	41,500
175	58.0	273.9	38,700
180	56.9	270.7	36,100
185	55.8	267.3	33,600
190	54.7	263.7	31,300
195	53.6	260.0	29,000
200	52.4	256.1	26,900
205	51.3	252.1	24,900
210	50.1	247.9	23,000
215	48.9	243.5	21,200
220	47.7	239.0	19,500
225	46.4	234.2	17,800 *
230	45.1	229.2	15,900 *
235	43.8	224.0	14,000 *
240	42.4	218.5	12,300 *
245	41.1	212.8	10,600 *
250	39.6	206.7	9,000 *
255	38.2	200.4	7,400 *