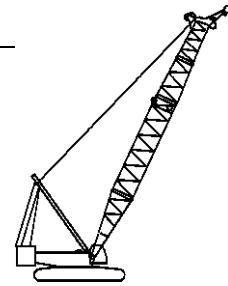




Liftcrane Boom Capacities

Boom No. 58 HL
332,000 lb Crane Counterweight
120,000 lb Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing



16000 SERIES 3

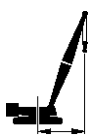


LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load over end of machine with crawlers blocked. Capacities based on structural competence are denoted by an asterisk (*).

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 jib, load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib 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 in a level position on a firm uniformly supporting surface. Drive and idler tumbler must be properly blocked so that centerline of tumbler becomes tipping fulcrum. Swing is limited to that sector shown on Operating Range Diagram **No. 8707-A**. Refer to boom rigging **No. A10415**, Wire Rope Specification chart **No. 8674-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 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 ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 34 ft crawlers, 60 in. treads, 32 ft live mast, 26 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 and Jib Lengths Lifted Unassisted

Over End of Blocked Crawlers	
Boom Length	Jib No. 133(A)
(a)(b) 315.0 ft	—
295.3 ft	—
275.6 ft	—
255.9 ft	—
236.2 ft	80.0 ft
216.5 ft	130.0 ft
196.9 ft	140.0 ft

Load block, hook and weight ball on ground at start.
 (a) Upper boom point cannot be attached on 315.0 ft boom.
 (b) When equipped with boom catwalks, boom butt mounted auxiliary drum must be removed for 315.0 ft boom.

Upper boom point cannot be used when jib is attached.

Explanation of Symbols

Third Line Deduct

Deduct 500 lb from boom capacities when boom is equipped for three line operation.

Boom Catwalks Deduct

Deduct 700 lb from capacities when boom catwalks are attached.

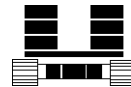
Deduct From Capacities When Jib Is Attached

Jib Length	Jib No. 133(A)
70.0 ft	38,100 lb
80.0 ft	45,900 lb
90.0 ft	53,600 lb
100.0 ft	58,100 lb
110.0 ft	65,200 lb
120.0 ft	74,000 lb
130.0 ft	82,700 lb
140.0 ft	92,300 lb
Weight of jib and 8,000 lb suspended beneath jib point have been included in deduct.	

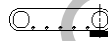
58 HL



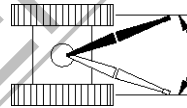
Boom No. 58 Heavy Lift Top



Crane Counterweight
+
Carbody Counterweight



Rating Over End of
Blocked Crawlers



Limited Swing Area



Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



Lifting Capacities
(see page 1)



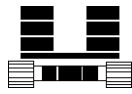
Boom Length

16000 S-3

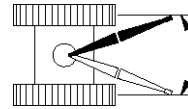
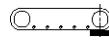
ANSI B30.5



58 HL



332,000 lb
+
120,000 lb



ft	o	ft	lb
98.4 ft			
21	82.9	106.0	881,900 *
22	82.3	105.8	845,400 *
24	81.1	105.4	778,200 *
26	79.9	105.0	720,500 *
28	78.7	104.6	670,500 *
30	77.5	104.1	625,700 *
32	76.3	103.5	581,700 *
34	75.1	102.9	543,200 *
36	73.9	102.3	509,200 *
38	72.7	101.6	479,100 *
40	71.4	100.8	452,100 *
45	68.3	98.8	395,600 *
50	65.1	96.4	350,800 *
55	61.7	93.6	311,300 *
60	58.3	90.5	275,200 *
65	54.7	86.9	244,400 *
70	50.9	82.8	219,100 *
75	46.9	78.1	198,000 *
80	42.6	72.6	180,100 *
85	37.9	66.2	164,800 *
90	32.6	58.5	151,400 *
95	26.2	48.8	139,600 *
100	17.6	34.8	129,000 *

ft	o	ft	lb
118.1 ft			
24	82.6	125.4	775,000 *
26	81.6	125.1	719,300 *
28	80.6	124.7	669,300 *
30	79.6	124.3	625,000 *
32	78.7	123.8	581,000 *
34	77.7	123.3	542,500 *
36	76.7	122.8	508,500 *
38	75.6	122.2	478,400 *
40	74.6	121.6	451,400 *
45	72.1	120.0	394,900 *
50	69.5	118.0	347,000 *
55	66.8	115.8	307,800 *
60	64.1	113.4	275,600 *
65	61.3	110.6	244,800 *
70	58.5	107.5	219,500 *
75	55.5	104.0	198,400 *
80	52.5	100.1	180,500 *
85	49.3	95.7	165,100 *
90	45.9	90.9	151,800 *
95	42.3	85.4	140,100 *
100	38.4	79.1	129,800 *
105	34.1	71.7	120,500 *
110	29.2	63.0	112,200 *
115	23.3	52.0	104,700 *
120	15.2	36.0	97,700 *

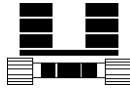
ft	o	ft	lb
137.8 ft			
26	82.8	145.0	625,700 *
28	82.0	144.7	619,400 *
30	81.1	144.3	614,000 *
32	80.3	143.9	580,800 *
34	79.5	143.5	542,300 *
36	78.6	143.1	508,300 *
38	77.7	142.6	478,200 *
40	76.9	142.1	451,200 *
45	74.7	140.7	392,200 *
50	72.5	139.1	343,900 *
55	70.3	137.2	305,100 *
60	68.1	135.2	273,400 *
65	65.8	132.9	245,300 *
70	63.5	130.3	220,000 *
75	61.1	127.5	198,800 *
80	58.6	124.4	181,000 *
85	56.1	121.0	165,600 *
90	53.5	117.3	152,300 *
95	50.8	113.2	140,600 *
100	48.0	108.7	130,300 *
105	45.1	103.7	121,100 *
110	42.0	98.1	112,900 *
115	38.7	91.8	105,400 *
120	35.1	84.8	98,700 *
125	31.1	76.6	92,500 *
130	26.5	66.9	86,900 *
135	21.0	54.6	81,600 *

16000 S-3

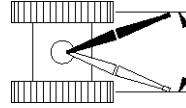
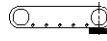
ANSI B30.5



58 HL



332,000 lb
+
120,000 lb



ft	o	ft	lb
157.5 ft			
28	83.0	164.6	597,000 *
30	82.3	164.3	592,900 *
32	81.5	164.0	579,600 *
34	80.8	163.6	541,100 *
36	80.0	163.2	507,100 *
38	79.3	162.8	476,900 *
40	78.6	162.4	449,700 *
45	76.7	161.1	388,000 *
50	74.8	159.7	339,900 *
55	72.9	158.2	301,400 *
60	71.0	156.4	269,900 *
65	69.0	154.4	243,600 *
70	67.0	152.3	219,400
75	65.0	149.9	198,200
80	63.0	147.3	180,300
85	60.9	144.5	164,900
90	58.7	141.4	151,600
95	56.6	138.1	139,900
100	54.3	134.4	129,600
105	52.0	130.5	120,400
110	49.6	126.2	112,100
115	47.1	121.5	104,700
120	44.5	116.4	98,000
125	41.8	110.8	91,900
130	38.9	104.6	86,300
135	35.8	97.7	81,100
140	32.4	89.9	76,400
145	28.7	81.0	71,900
150	24.4	70.3	67,800
155	19.2	56.9	64,000

ft	o	ft	lb
177.2 ft			
32	82.5	183.9	483,000 *
34	81.8	183.6	467,100 *
36	81.2	183.2	451,800 *
38	80.5	182.9	437,300 *
40	79.9	182.5	423,300 *
45	78.2	181.4	384,700 *
50	76.5	180.2	336,900 *
55	74.9	178.8	298,700 *
60	73.2	177.2	267,300 *
65	71.5	175.5	241,200 *
70	69.7	173.6	219,000 *
75	68.0	171.6	197,900
80	66.2	169.3	180,000
85	64.4	166.9	164,600
90	62.6	164.3	151,200
95	60.7	161.4	139,500
100	58.8	158.4	129,200
105	56.9	155.1	120,000
110	54.9	151.5	111,700
115	52.9	147.7	104,300
120	50.8	143.6	97,600
125	48.6	139.2	91,500
130	46.4	134.4	85,900
135	44.1	129.2	80,800
140	41.6	123.6	76,000
145	39.1	117.4	71,700
150	36.3	110.6	67,600
155	33.4	103.1	63,800
160	30.2	94.7	60,300
165	26.7	84.9	57,000
170	22.6	73.4	53,400 *
175	17.6	58.8	49,500 *

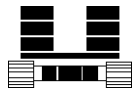
ft	o	ft	lb
196.9 ft			
34	82.6	203.5	435,600 *
36	82.1	203.2	422,500 *
38	81.5	202.9	409,700 *
40	80.9	202.5	397,400 *
45	79.4	201.6	367,100 *
50	77.9	200.4	333,400 *
55	76.4	199.2	295,300 *
60	74.9	197.8	264,100 *
65	73.4	196.3	238,000 *
70	71.8	194.6	216,000 *
75	70.3	192.8	197,000
80	68.7	190.8	179,000
85	67.1	188.7	163,600
90	65.5	186.4	150,200
95	63.9	183.9	138,400
100	62.3	181.2	128,100
105	60.6	178.4	118,900
110	58.9	175.3	110,600
115	57.2	172.1	103,200
120	55.4	168.6	96,500
125	53.6	164.9	90,300
130	51.7	160.9	84,700
135	49.8	156.6	79,600
140	47.8	152.1	74,900
145	45.8	147.2	70,500
150	43.7	142.0	66,500
155	41.5	136.3	62,700
160	39.2	130.2	59,200
165	36.8	123.5	55,900
170	34.2	116.2	52,700 *
175	31.4	108.1	49,300 *
180	28.4	99.0	46,100 *
185	25.0	88.6	42,900 *
190	21.1	76.2	39,800 *
195	16.3	60.4	36,700 *

16000 S-3

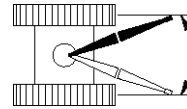
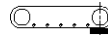
ANSI B30.5



58 HL



332,000 lb
+
120,000 lb



ft	o	ft	lb
216.5 ft			
36	82.8	223.1	368,600 *
38	82.3	222.8	358,600 *
40	81.7	222.5	348,900 *
45	80.4	221.6	325,900 *
50	79.0	220.6	304,800 *
55	77.7	219.5	285,300 *
60	76.3	218.2	261,500 *
65	74.9	216.9	235,600 *
70	73.6	215.4	213,600 *
75	72.2	213.7	194,800 *
80	70.8	211.9	178,300 *
85	69.3	210.0	162,800 *
90	67.9	208.0	149,400 *
95	66.5	205.8	137,700 *
100	65.0	203.4	127,300 *
105	63.5	200.9	118,100 *
110	62.0	198.2	109,800 *
115	60.5	195.3	102,400 *
120	58.9	192.3	95,600 *
125	57.4	189.1	89,500 *
130	55.8	185.6	83,900 *
135	54.1	182.0	78,800 *
140	52.5	178.1	74,100 *
145	50.7	174.0	69,700 *
150	49.0	169.6	65,600 *
155	47.2	165.0	61,900 *
160	45.3	160.0	58,400 *
165	43.4	154.7	55,100 *
170	41.4	149.1	51,800 *
175	39.3	142.9	48,500 *
180	37.1	136.4	45,400 *
185	34.8	129.2	42,500 *
190	32.3	121.4	39,600 *
195	29.7	112.7	36,900 *
200	26.8	103.0	34,300 *
205	23.6	91.8	31,700 *
210	19.8	78.6	29,100 *
215	15.2	61.7	26,500 *

ft	o	ft	lb
236.2 ft			
38	82.9	242.7	330,500 *
40	82.4	242.4	321,300 *
45	81.2	241.6	299,500 *
50	80.0	240.7	279,400 *
55	78.7	239.7	260,800 *
60	77.5	238.5	243,600 *
65	76.2	237.3	227,800 *
70	75.0	235.9	210,700 *
75	73.7	234.4	191,900 *
80	72.4	232.8	175,600 *
85	71.1	231.1	161,300 *
90	69.8	229.2	148,200 *
95	68.5	227.2	136,400 *
100	67.2	225.1	126,000 *
105	65.9	222.8	116,800 *
110	64.5	220.4	108,500 *
115	63.2	217.9	101,100 *
120	61.8	215.1	94,300 *
125	60.4	212.3	88,200 *
130	59.0	209.2	82,600 *
135	57.5	206.0	77,400 *
140	56.1	202.7	72,700 *
145	54.6	199.1	68,300 *
150	53.1	195.3	64,300 *
155	51.5	191.3	60,500 *
160	49.9	187.1	56,700 *
165	48.3	182.6	53,100 *
170	46.6	177.9	49,700 *
175	44.9	172.8	46,600 *
180	43.1	167.5	43,500 *
185	41.3	161.8	40,700 *
190	39.4	155.7	37,900 *
195	37.4	149.2	35,300 *
200	35.3	142.1	32,800 *
205	33.1	134.5	30,400 *
210	30.7	126.2	28,100 *
215	28.2	117.0	25,800 *
220	25.4	106.7	23,700 *
225	22.3	94.9	21,500 *
230	18.7	80.8	19,400 *

ft	o	ft	lb
255.9 ft			
40	83.0	262.3	302,900 *
45	81.9	261.6	288,700 *
50	80.7	260.7	275,100 *
55	79.6	259.8	262,200 *
60	78.5	258.7	250,000 *
65	77.3	257.6	230,800 *
70	76.1	256.3	208,800 *
75	75.0	254.9	190,000 *
80	73.8	253.5	173,700 *
85	72.6	251.9	159,400 *
90	71.5	250.2	146,800 *
95	70.3	248.4	135,400 *
100	69.1	246.4	124,900 *
105	67.9	244.4	115,700 *
110	66.6	242.2	107,400 *
115	65.4	239.9	99,900 *
120	64.2	237.4	93,100 *
125	62.9	234.8	87,000 *
130	61.6	232.1	81,400 *
135	60.3	229.2	76,200 *
140	59.0	226.2	71,500 *
145	57.7	223.0	67,000 *
150	56.3	219.7	62,700 *
155	55.0	216.1	58,700 *
160	53.6	212.4	54,900 *
165	52.2	208.5	51,300 *
170	50.7	204.4	48,000 *
175	49.2	200.1	44,800 *
180	47.7	195.5	41,800 *
185	46.2	190.7	39,000 *
190	44.6	185.6	36,300 *
195	42.9	180.2	33,700 *
200	41.2	174.5	31,300 *
205	39.5	168.5	28,900 *
210	37.6	162.0	26,700 *
215	35.7	155.1	24,500 *
220	33.7	147.6	22,400 *
225	31.6	139.6	20,400 *
230	29.3	130.7	18,500 *
235	26.9	121.0	16,600 *
240	24.2	110.2	14,700 *
245	21.2	97.7	12,900 *
250	17.7	82.8	11,100 *

16000 S-3

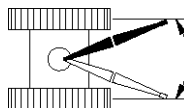
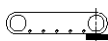
ANSI B30.5



58 HL



332,000 lb
+
120,000 lb



ft	o	ft	lb
275.6 ft			
45	82.5	281.5	252,000 *
50	81.4	280.7	245,700 *
55	80.3	279.8	239,800 *
60	79.3	278.9	229,600 *
65	78.2	277.8	218,700 *
70	77.2	276.6	205,700 *
75	76.1	275.4	187,200 *
80	75.0	274.0	170,900 *
85	73.9	272.5	156,600 *
90	72.8	271.0	144,000 *
95	71.7	269.3	132,800 *
100	70.6	267.5	122,800 *
105	69.5	265.6	113,800 *
110	68.4	263.6	105,600 *
115	67.3	261.5	98,100 *
120	66.1	259.2	91,300 *
125	65.0	256.9	85,100 *
130	63.8	254.4	79,300 *
135	62.7	251.8	74,000 *
140	61.5	249.1	69,100 *
145	60.3	246.2	64,500 *
150	59.1	243.2	60,200 *
155	57.8	240.0	56,200 *
160	56.6	236.7	52,500 *
165	55.3	233.2	48,900 *
170	54.0	229.6	45,600 *
175	52.7	225.7	42,500 *
180	51.4	221.7	39,500 *
185	50.0	217.5	36,700 *
190	48.6	213.1	34,100 *
195	47.2	208.4	31,500 *
200	45.8	203.6	29,100 *
205	44.3	198.4	26,800 *
210	42.7	193.0	24,600 *
215	41.2	187.3	22,500 *
220	39.5	181.2	20,500 *
225	37.8	174.8	18,500 *
230	36.1	168.0	16,700 *
235	34.2	160.6	14,900 *
240	32.3	152.8	13,100 *
245	30.2	144.3	11,400 *
250	28.1	135.0	9,800 *
255	25.7	124.8	8,100 *

ft	o	ft	lb
295.3 ft			
45	83.0	301.4	211,600 *
50	82.0	300.6	206,200 *
55	81.0	299.8	201,100 *
60	80.0	298.9	196,300 *
65	79.0	297.9	191,900 *
70	78.0	296.8	187,300 *
75	77.0	295.7	182,800 *
80	76.0	294.4	169,100 *
85	75.0	293.0	154,900 *
90	74.0	291.6	142,300 *
95	73.0	290.0	131,100 *
100	72.0	288.4	121,100 *
105	71.0	286.6	112,000 *
110	69.9	284.8	103,900 *
115	68.9	282.8	96,400 *
120	67.8	280.8	89,600 *
125	66.8	278.6	83,400 *
130	65.7	276.3	77,600 *
135	64.6	273.9	72,300 *
140	63.5	271.4	67,400 *
145	62.4	268.8	62,800 *
150	61.3	266.0	58,500 *
155	60.2	263.1	54,500 *
160	59.1	260.1	50,800 *
165	57.9	257.0	47,300 *
170	56.8	253.7	44,000 *
175	55.6	250.2	40,900 *
180	54.4	246.6	37,900 *
185	53.2	242.9	35,100 *
190	52.0	238.9	32,500 *
195	50.7	234.8	30,000 *
200	49.4	230.5	27,600 *
205	48.1	226.0	25,300 *
210	46.8	221.3	23,100 *
215	45.4	216.4	21,000 *
220	44.0	211.2	19,100 *
225	42.6	205.8	17,100 *
230	41.1	200.0	15,300 *
235	39.6	194.0	13,500 *
240	38.0	187.6	11,800 *
245	36.4	180.8	10,200 *
250	34.7	173.6	8,600 *
255	32.9	165.9	7,100 *

ft	o	ft	lb
315.0 ft			
50	82.5	320.5	178,400 *
55	81.6	319.8	173,800 *
60	80.6	318.9	169,500 *
65	79.7	318.0	165,500 *
70	78.8	317.0	161,600 *
75	77.9	315.9	157,600 *
80	76.9	314.7	153,800 *
85	76.0	313.4	150,200 *
90	75.0	312.1	139,700 *
95	74.1	310.6	128,500 *
100	73.1	309.1	118,500 *
105	72.2	307.5	109,500 *
110	71.2	305.7	101,300 *
115	70.3	303.9	93,900 *
120	69.3	302.0	87,100 *
125	68.3	300.0	80,900 *
130	67.3	297.9	75,100 *
135	66.3	295.7	69,800 *
140	65.3	293.4	64,900 *
145	64.3	290.9	60,300 *
150	63.3	288.4	56,100 *
155	62.3	285.7	52,100 *
160	61.2	283.0	48,400 *
165	60.2	280.1	44,900 *
170	59.1	277.1	41,600 *
175	58.0	273.9	38,500 *
180	56.9	270.7	35,500 *
185	55.8	267.3	32,800 *
190	54.7	263.7	30,100 *
195	53.6	260.0	27,600 *
200	52.4	256.1	25,300 *
205	51.3	252.1	23,000 *
210	50.1	247.9	20,800 *
215	48.9	243.5	18,800 *
220	47.7	239.0	16,800 *
225	46.4	234.2	14,900 *
230	45.1	229.2	13,100 *
235	43.8	224.0	11,400 *
240	42.4	218.5	9,700 *
245	41.1	212.8	8,100 *