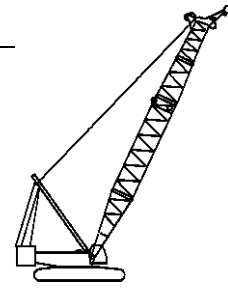




Liftcrane Boom Capacities

Boom No. 58 HL
224,000 lb Crane Counterweight
0 lb Carbody Counterweight
360 Degree Rating



16000 SERIES 1



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. 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 jib, all 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. 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, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8683-A**.



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, 224,000 lb crane counterweight and 0 lb carbody counterweight.

Maximum Boom and Jib Lengths Lifted Unassisted

Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 133(A)	Boom Length	Jib No. 133(A)
236.2 ft	—	216.5 ft	—
216.5 ft	—	196.9 ft	—
196.9 ft	—	177.2 ft	—
177.2 ft	90.0 ft	157.5 ft	90.0 ft
157.5 ft	130.0 ft	137.8 ft	130.0 ft
137.8 ft	140.0 ft		

Load block, hook and weight ball on ground at start.

Consult chart No. 8955-A for jib capacities.

Upper boom point cannot be used when jib is attached.

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.

Explanation of Symbols


Boom No. 58 Heavy Lift Top



Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



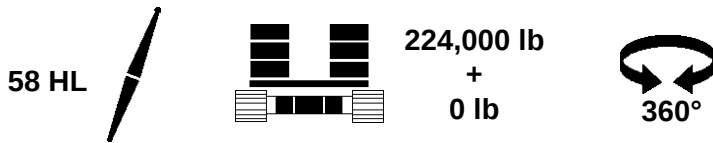
Lifting Capacities
(see page 1)



Boom Length

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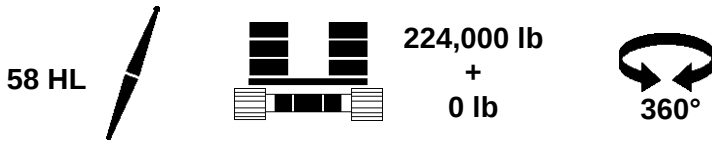
ft	o	ft	lb
98.4 ft			
21	82.9	106.0	820,200 *
22	82.3	105.8	784,900 *
24	81.1	105.4	717,500
26	79.9	105.0	607,700
28	78.7	104.6	526,000
30	77.5	104.1	462,700
32	76.3	103.5	412,400
34	75.1	102.9	371,300
36	73.9	102.3	337,200
38	72.7	101.6	308,300
40	71.4	100.8	283,700
45	68.3	98.8	235,300
50	65.1	96.4	199,700
55	61.7	93.6	172,400
60	58.3	90.5	150,800
65	54.7	86.9	133,200
70	50.9	82.8	118,700
75	46.9	78.1	106,500
80	42.6	72.6	96,000
85	37.9	66.2	87,000
90	32.6	58.5	79,000
95	26.2	48.8	71,900
100	17.6	34.8	65,500

ft	o	ft	lb
118.1 ft			
24	82.6	125.4	720,000
26	81.6	125.1	609,700
28	80.6	124.7	527,600
30	79.6	124.3	464,100
32	78.7	123.8	413,500
34	77.7	123.3	372,300
36	76.7	122.8	338,000
38	75.6	122.2	309,100
40	74.6	121.6	284,300
45	72.1	120.0	235,700
50	69.5	118.0	200,000
55	66.8	115.8	172,600
60	64.1	113.4	151,000
65	61.3	110.6	133,400
70	58.5	107.5	118,900
75	55.5	104.0	106,700
80	52.5	100.1	96,200
85	49.3	95.7	87,200
90	45.9	90.9	79,300
95	42.3	85.4	72,400
100	38.4	79.1	66,200
105	34.1	71.7	60,600
110	29.2	63.0	55,600
115	23.3	52.0	51,000
120	15.2	36.0	46,700

ft	o	ft	lb
137.8 ft			
26	82.8	145.0	611,500
28	82.0	144.7	529,100
30	81.1	144.3	465,400
32	80.3	143.9	414,700
34	79.5	143.5	373,300
36	78.6	143.1	338,900
38	77.7	142.6	309,900
40	76.9	142.1	285,100
45	74.7	140.7	236,300
50	72.5	139.1	200,500
55	70.3	137.2	173,100
60	68.1	135.2	151,400
65	65.8	132.9	133,800
70	63.5	130.3	119,200
75	61.1	127.5	107,000
80	58.6	124.4	96,600
85	56.1	121.0	87,500
90	53.5	117.3	79,700
95	50.8	113.2	72,700
100	48.0	108.7	66,600
105	45.1	103.7	61,100
110	42.0	98.1	56,100
115	38.7	91.8	51,600
120	35.1	84.8	47,600
125	31.1	76.6	43,800
130	26.5	66.9	40,300
135	21.0	54.6	37,100

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ft	o	ft	lb
157.5 ft			
28	83.0	164.6	530,100
30	82.3	164.3	466,100
32	81.5	164.0	415,100
34	80.8	163.6	373,600
36	80.0	163.2	339,100
38	79.3	162.8	309,900
40	78.6	162.4	285,000
45	76.7	161.1	236,100
50	74.8	159.7	200,100
55	72.9	158.2	172,500
60	71.0	156.4	150,800
65	69.0	154.4	133,100
70	67.0	152.3	118,500
75	65.0	149.9	106,200
80	63.0	147.3	95,800
85	60.9	144.5	86,700
90	58.7	141.4	78,900
95	56.6	138.1	71,900
100	54.3	134.4	65,800
105	52.0	130.5	60,300
110	49.6	126.2	55,300
115	47.1	121.5	50,900
120	44.5	116.4	46,800
125	41.8	110.8	43,100
130	38.9	104.6	39,700
135	35.8	97.7	36,500
140	32.4	89.9	33,600
145	28.7	81.0	30,900
150	24.4	70.3	28,300
155	19.2	56.9	25,900

ft	o	ft	lb
177.2 ft			
32	82.5	183.9	415,600
34	81.8	183.6	373,900
36	81.2	183.2	339,300
38	80.5	182.9	310,100
40	79.9	182.5	285,100
45	78.2	181.4	236,000
50	76.5	180.2	199,900
55	74.9	178.8	172,300
60	73.2	177.2	150,500
65	71.5	175.5	132,800
70	69.7	173.6	118,100
75	68.0	171.6	105,800
80	66.2	169.3	95,400
85	64.4	166.9	86,300
90	62.6	164.3	78,400
95	60.7	161.4	71,500
100	58.8	158.4	65,300
105	56.9	155.1	59,800
110	54.9	151.5	54,900
115	52.9	147.7	50,400
120	50.8	143.6	46,300
125	48.6	139.2	42,600
130	46.4	134.4	39,200
135	44.1	129.2	36,100
140	41.6	123.6	33,200
145	39.1	117.4	30,500
150	36.3	110.6	28,000
155	33.4	103.1	25,700
160	30.2	94.7	23,500
165	26.7	84.9	21,500
170	22.6	73.4	19,500
175	17.6	58.8	17,600

ft	o	ft	lb
196.9 ft			
34	82.6	203.5	373,900
36	82.1	203.2	339,100
38	81.5	202.9	309,800
40	80.9	202.5	284,700
45	79.4	201.6	235,400
50	77.9	200.4	199,200
55	76.4	199.2	171,500
60	74.9	197.8	149,600
65	73.4	196.3	131,800
70	71.8	194.6	117,100
75	70.3	192.8	104,800
80	68.7	190.8	94,300
85	67.1	188.7	85,200
90	65.5	186.4	77,300
95	63.9	183.9	70,300
100	62.3	181.2	64,100
105	60.6	178.4	58,600
110	58.9	175.3	53,700
115	57.2	172.1	49,200
120	55.4	168.6	45,100
125	53.6	164.9	41,400
130	51.7	160.9	38,000
135	49.8	156.6	34,900
140	47.8	152.1	32,000
145	45.8	147.2	29,300
150	43.7	142.0	26,800
155	41.5	136.3	24,500
160	39.2	130.2	22,400
165	36.8	123.5	20,300
170	34.2	116.2	18,400
175	31.4	108.1	16,600
180	28.4	99.0	14,900
185	25.0	88.6	13,300
190	21.1	76.2	11,700
195	16.3	60.4	10,200

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58 HL   224,000 lb
+
0 lb  360°

ft	o	ft	lb
 216.5 ft			
36	82.8	223.1	339,000
38	82.3	222.8	309,600
40	81.7	222.5	284,400
45	80.4	221.6	235,000
50	79.0	220.6	198,700
55	77.7	219.5	170,900
60	76.3	218.2	148,900
65	74.9	216.9	131,100
70	73.6	215.4	116,400
75	72.2	213.7	104,000
80	70.8	211.9	93,500
85	69.3	210.0	84,400
90	67.9	208.0	76,400
95	66.5	205.8	69,500
100	65.0	203.4	63,300
105	63.5	200.9	57,800
110	62.0	198.2	52,800
115	60.5	195.3	48,300
120	58.9	192.3	44,300
125	57.4	189.1	40,500
130	55.8	185.6	37,200
135	54.1	182.0	34,000
140	52.5	178.1	31,100
145	50.7	174.0	28,500
150	49.0	169.6	26,000
155	47.2	165.0	23,700
160	45.3	160.0	21,500
165	43.4	154.7	19,500
170	41.4	149.1	17,600
175	39.3	142.9	15,800
180	37.1	136.4	14,100
185	34.8	129.2	12,500
190	32.3	121.4	11,000
195	29.7	112.7	9,600
200	26.8	103.0	8,200

ft	o	ft	lb
 236.2 ft			
38	82.9	242.7	309,200
40	82.4	242.4	283,900
45	81.2	241.6	234,300
50	80.0	240.7	197,900
55	78.7	239.7	170,000
60	77.5	238.5	147,900
65	76.2	237.3	130,000
70	75.0	235.9	115,300
75	73.7	234.4	102,800
80	72.4	232.8	92,200
85	71.1	231.1	83,100
90	69.8	229.2	75,100
95	68.5	227.2	68,100
100	67.2	225.1	61,900
105	65.9	222.8	56,400
110	64.5	220.4	51,400
115	63.2	217.9	46,900
120	61.8	215.1	42,900
125	60.4	212.3	39,100
130	59.0	209.2	35,700
135	57.5	206.0	32,600
140	56.1	202.7	29,700
145	54.6	199.1	27,000
150	53.1	195.3	24,600
155	51.5	191.3	22,200
160	49.9	187.1	20,100
165	48.3	182.6	18,100
170	46.6	177.9	16,200
175	44.9	172.8	14,400
180	43.1	167.5	12,700
185	41.3	161.8	11,100
190	39.4	155.7	9,600
195	37.4	149.2	8,200