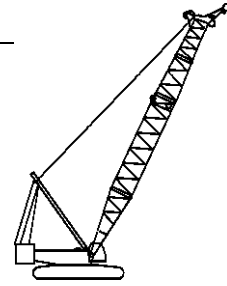




Liftcrane Boom Capacities

Boom No. 58 HL
296,000 lb Crane Counterweight
60,000 lb Carbody Counterweight
360 Degree Rating



16000 SERIES 2



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 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. 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, 296,000 lb crane counterweight and two 30,000 lb carbody counterweights.

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)
275.6 ft	—	255.9 ft	—
255.9 ft	—	236.2 ft	—
236.2 ft	—	216.5 ft	—
216.5 ft	90.0 ft	196.9 ft	80.0 ft
196.9 ft	130.0 ft	177.2 ft	130.0 ft
177.2 ft	140.0 ft	157.5 ft	140.0 ft
Load block, hook and weight ball on ground at start.			

Consult chart No. 8956-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)



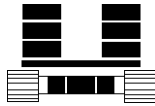
Boom Length

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58 HL



296,000 lb
+
60,000 lb



360°

ft	o	ft	lb
98.4 ft			
21	82.9	106.0	862,300 *
22	82.3	105.8	825,200 *
24	81.1	105.4	759,500 *
26	79.9	105.0	703,200 *
28	78.7	104.6	653,300 *
30	77.5	104.1	593,600
32	76.3	103.5	529,900
34	75.1	102.9	478,000
36	73.9	102.3	434,800
38	72.7	101.6	398,400
40	71.4	100.8	367,200
45	68.3	98.8	306,000
50	65.1	96.4	261,000
55	61.7	93.6	226,500
60	58.3	90.5	199,200
65	54.7	86.9	177,100
70	50.9	82.8	158,800
75	46.9	78.1	143,400
80	42.6	72.6	130,200
85	37.9	66.2	118,800
90	32.6	58.5	108,800
95	26.2	48.8	99,900
100	17.6	34.8	91,900

ft	o	ft	lb
118.1 ft			
24	82.6	125.4	758,300 *
26	81.6	125.1	702,000 *
28	80.6	124.7	652,600 *
30	79.6	124.3	595,000
32	78.7	123.8	531,100
34	77.7	123.3	479,000
36	76.7	122.8	435,700
38	75.6	122.2	399,100
40	74.6	121.6	367,900
45	72.1	120.0	306,500
50	69.5	118.0	261,300
55	66.8	115.8	226,800
60	64.1	113.4	199,400
65	61.3	110.6	177,300
70	58.5	107.5	158,900
75	55.5	104.0	143,500
80	52.5	100.1	130,400
85	49.3	95.7	119,000
90	45.9	90.9	109,100
95	42.3	85.4	100,300
100	38.4	79.1	92,500
105	34.1	71.7	85,500
110	29.2	63.0	79,200
115	23.3	52.0	73,500
120	15.2	36.0	68,100

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	596,300
32	80.3	143.9	532,200
34	79.5	143.5	480,000
36	78.6	143.1	436,600
38	77.7	142.6	400,000
40	76.9	142.1	368,600
45	74.7	140.7	307,100
50	72.5	139.1	261,900
55	70.3	137.2	227,200
60	68.1	135.2	199,800
65	65.8	132.9	177,700
70	63.5	130.3	159,300
75	61.1	127.5	143,900
80	58.6	124.4	130,700
85	56.1	121.0	119,300
90	53.5	117.3	109,400
95	50.8	113.2	100,700
100	48.0	108.7	92,900
105	45.1	103.7	86,000
110	42.0	98.1	79,800
115	38.7	91.8	74,100
120	35.1	84.8	69,000
125	31.1	76.6	64,300
130	26.5	66.9	60,000
135	21.0	54.6	55,900

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58 HL   296,000 lb
+
60,000 lb  360°

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	532,700
34	80.8	163.6	480,300
36	80.0	163.2	436,700
38	79.3	162.8	400,000
40	78.6	162.4	368,500
45	76.7	161.1	306,800
50	74.8	159.7	261,400
55	72.9	158.2	226,700
60	71.0	156.4	199,200
65	69.0	154.4	177,000
70	67.0	152.3	158,600
75	65.0	149.9	143,100
80	63.0	147.3	129,900
85	60.9	144.5	118,500
90	58.7	141.4	108,600
95	56.6	138.1	99,900
100	54.3	134.4	92,100
105	52.0	130.5	85,200
110	49.6	126.2	79,000
115	47.1	121.5	73,400
120	44.5	116.4	68,200
125	41.8	110.8	63,600
130	38.9	104.6	59,300
135	35.8	97.7	55,300
140	32.4	89.9	51,700
145	28.7	81.0	48,300
150	24.4	70.3	45,100
155	19.2	56.9	42,100

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	437,000
38	80.5	182.9	400,100
40	79.9	182.5	368,600
45	78.2	181.4	306,700
50	76.5	180.2	261,300
55	74.9	178.8	226,400
60	73.2	177.2	198,900
65	71.5	175.5	176,600
70	69.7	173.6	158,200
75	68.0	171.6	142,700
80	66.2	169.3	129,500
85	64.4	166.9	118,100
90	62.6	164.3	108,200
95	60.7	161.4	99,400
100	58.8	158.4	91,700
105	56.9	155.1	84,700
110	54.9	151.5	78,500
115	52.9	147.7	72,900
120	50.8	143.6	67,800
125	48.6	139.2	63,100
130	46.4	134.4	58,900
135	44.1	129.2	54,900
140	41.6	123.6	51,300
145	39.1	117.4	48,000
150	36.3	110.6	44,800
155	33.4	103.1	41,900
160	30.2	94.7	39,200
165	26.7	84.9	36,600
170	22.6	73.4	34,200
175	17.6	58.8	31,800

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	399,900
40	80.9	202.5	368,200
45	79.4	201.6	306,200
50	77.9	200.4	260,600
55	76.4	199.2	225,600
60	74.9	197.8	198,000
65	73.4	196.3	175,700
70	71.8	194.6	157,200
75	70.3	192.8	141,700
80	68.7	190.8	128,400
85	67.1	188.7	117,000
90	65.5	186.4	107,000
95	63.9	183.9	98,200
100	62.3	181.2	90,500
105	60.6	178.4	83,500
110	58.9	175.3	77,300
115	57.2	172.1	71,700
120	55.4	168.6	66,600
125	53.6	164.9	61,900
130	51.7	160.9	57,600
135	49.8	156.6	53,700
140	47.8	152.1	50,100
145	45.8	147.2	46,700
150	43.7	142.0	43,600
155	41.5	136.3	40,700
160	39.2	130.2	38,000
165	36.8	123.5	35,500
170	34.2	116.2	33,100
175	31.4	108.1	30,800
180	28.4	99.0	28,700
185	25.0	88.6	26,700
190	21.1	76.2	24,700
195	16.3	60.4	22,900

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58 HL   296,000 lb
+
60,000 lb  360°

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	305,700
50	79.0	220.6	260,000
55	77.7	219.5	225,100
60	76.3	218.2	197,400
65	74.9	216.9	175,000
70	73.6	215.4	156,500
75	72.2	213.7	140,900
80	70.8	211.9	127,600
85	69.3	210.0	116,200
90	67.9	208.0	106,200
95	66.5	205.8	97,400
100	65.0	203.4	89,600
105	63.5	200.9	82,700
110	62.0	198.2	76,500
115	60.5	195.3	70,800
120	58.9	192.3	65,700
125	57.4	189.1	61,100
130	55.8	185.6	56,800
135	54.1	182.0	52,900
140	52.5	178.1	49,200
145	50.7	174.0	45,900
150	49.0	169.6	42,800
155	47.2	165.0	39,900
160	45.3	160.0	37,200
165	43.4	154.7	34,600
170	41.4	149.1	32,300
175	39.3	142.9	30,000
180	37.1	136.4	27,900
185	34.8	129.2	25,900
190	32.3	121.4	24,000
195	29.7	112.7	22,200
200	26.8	103.0	20,500
205	23.6	91.8	18,900
210	19.8	78.6	17,300
215	15.2	61.7	15,800

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	259,200
55	78.7	239.7	224,100
60	77.5	238.5	196,400
65	76.2	237.3	173,900
70	75.0	235.9	155,300
75	73.7	234.4	139,700
80	72.4	232.8	126,400
85	71.1	231.1	114,900
90	69.8	229.2	104,900
95	68.5	227.2	96,100
100	67.2	225.1	88,300
105	65.9	222.8	81,300
110	64.5	220.4	75,100
115	63.2	217.9	69,400
120	61.8	215.1	64,300
125	60.4	212.3	59,600
130	59.0	209.2	55,400
135	57.5	206.0	51,400
140	56.1	202.7	47,800
145	54.6	199.1	44,500
150	53.1	195.3	41,300
155	51.5	191.3	38,400
160	49.9	187.1	35,700
165	48.3	182.6	33,200
170	46.6	177.9	30,800
175	44.9	172.8	28,600
180	43.1	167.5	26,500
185	41.3	161.8	24,500
190	39.4	155.7	22,600
195	37.4	149.2	20,800
200	35.3	142.1	19,200
205	33.1	134.5	17,600
210	30.7	126.2	16,000
215	28.2	117.0	14,600
220	25.4	106.7	13,100
225	22.3	94.9	11,800
230	18.7	80.8	10,500

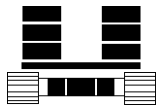
ft	o	ft	lb
255.9 ft			
40	83.0	262.3	302,900 *
45	81.9	261.6	288,700 *
50	80.7	260.7	258,500
55	79.6	259.8	223,300
60	78.5	258.7	195,500
65	77.3	257.6	173,000
70	76.1	256.3	154,300
75	75.0	254.9	138,700
80	73.8	253.5	125,300
85	72.6	251.9	113,800
90	71.5	250.2	103,800
95	70.3	248.4	95,000
100	69.1	246.4	87,100
105	67.9	244.4	80,200
110	66.6	242.2	73,900
115	65.4	239.9	68,200
120	64.2	237.4	63,100
125	62.9	234.8	58,400
130	61.6	232.1	54,100
135	60.3	229.2	50,200
140	59.0	226.2	46,600
145	57.7	223.0	43,200
150	56.3	219.7	40,100
155	55.0	216.1	37,200
160	53.6	212.4	34,500
165	52.2	208.5	31,900
170	50.7	204.4	29,600
175	49.2	200.1	27,300
180	47.7	195.5	25,200
185	46.2	190.7	23,300
190	44.6	185.6	21,400
195	42.9	180.2	19,600
200	41.2	174.5	17,900
205	39.5	168.5	16,300
210	37.6	162.0	14,800
215	35.7	155.1	13,400
220	33.7	147.6	12,000
225	31.6	139.6	10,600
230	29.3	130.7	9,400
235	26.9	121.0	8,200
240	24.2	110.2	7,000

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ANSI B30.5



58 HL



296,000 lb
+
60,000 lb



360°

 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	222,300
60	79.3	278.9	194,400
65	78.2	277.8	171,800
70	77.2	276.6	153,100
75	76.1	275.4	137,400
80	75.0	274.0	124,000
85	73.9	272.5	112,500
90	72.8	271.0	102,400
95	71.7	269.3	93,500
100	70.6	267.5	85,700
105	69.5	265.6	78,700
110	68.4	263.6	72,400
115	67.3	261.5	66,800
120	66.1	259.2	61,600
125	65.0	256.9	56,900
130	63.8	254.4	52,600
135	62.7	251.8	48,700
140	61.5	249.1	45,000
145	60.3	246.2	41,700
150	59.1	243.2	38,500
155	57.8	240.0	35,600
160	56.6	236.7	32,900
165	55.3	233.2	30,400
170	54.0	229.6	28,000
175	52.7	225.7	25,800
180	51.4	221.7	23,700
185	50.0	217.5	21,700
190	48.6	213.1	19,800
195	47.2	208.4	18,000
200	45.8	203.6	16,400
205	44.3	198.4	14,800
210	42.7	193.0	13,200
215	41.2	187.3	11,800
220	39.5	181.2	10,400
225	37.8	174.8	9,100
230	36.1	168.0	7,800