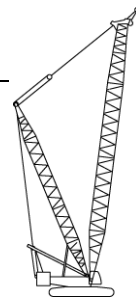




Liftcrane Boom Capacities

Boom No. 58 HL with 98.4 ft Mast No. 59A
332,000 lb Crane Counterweight
120,000 lb Carbody Counterweight
360 Degree Rating



16000 SERIES 3 With Mast



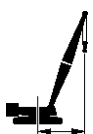
LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

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 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 in a level position on a firm uniformly supporting surface with mast up. 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, 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. 8746-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.

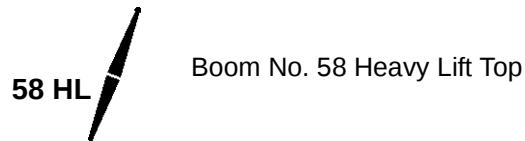
MACHINE EQUIPMENT: Machine equipped with 34 ft crawlers, 60 in. treads, 32 ft live mast, 98.4 ft mast, 12 part boom hoist reeving, boom support straps, 332,000 lb crane counterweight, two 30,000 lb and four 15,000 lb carbody counterweights.

Maximum Boom Length Lifted Unassisted	
Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
315.0 ft	295.3 ft
Load block, hook and weight ball on ground at start.	

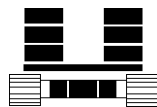
Boom Catwalks Deduct

Deduct 700 lb from capacities when boom catwalks are attached.

Explanation of Symbols



Mast No. 59A



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)



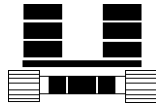
Boom Length

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ANSI B30.5



58 HL



332,000 lb
+
120,000 lb



360°

ft	o	ft	lb
137.8 ft			
26	82.8	145.0	738,600 *
28	82.0	144.7	687,300 *
30	81.1	144.3	642,400 *
32	80.3	143.9	602,700 *
34	79.5	143.5	565,700 *
36	78.6	143.1	530,300 *
38	77.7	142.6	497,600 *
40	76.9	142.1	464,600
45	74.7	140.7	388,100
50	72.5	139.1	331,900
55	70.3	137.2	288,900
60	68.1	135.2	254,900
65	65.8	132.9	227,400
70	63.5	130.3	204,600
75	61.1	127.5	185,400
80	58.6	124.4	169,100
85	56.1	121.0	154,900
90	53.5	117.3	142,600
95	50.8	113.2	131,800
100	48.0	108.7	122,200
105	45.1	103.7	113,600
110	42.0	98.1	105,900
115	38.7	91.8	98,900
120	35.1	84.8	92,500
125	31.1	76.6	86,700
130	26.5	66.9	81,400
135	21.0	54.6	76,400

ft	o	ft	lb
157.5 ft			
28	83.0	164.6	686,200 *
30	82.3	164.3	641,300 *
32	81.5	164.0	601,600 *
34	80.8	163.6	565,000 *
36	80.0	163.2	529,600 *
38	79.3	162.8	498,100 *
40	78.6	162.4	465,200
45	76.7	161.1	388,500
50	74.8	159.7	332,100
55	72.9	158.2	288,900
60	71.0	156.4	254,800
65	69.0	154.4	227,200
70	67.0	152.3	204,300
75	65.0	149.9	185,000
80	63.0	147.3	168,600
85	60.9	144.5	154,500
90	58.7	141.4	142,100
95	56.6	138.1	131,300
100	54.3	134.4	121,600
105	52.0	130.5	113,000
110	49.6	126.2	105,300
115	47.1	121.5	98,300
120	44.5	116.4	91,900
125	41.8	110.8	86,100
130	38.9	104.6	80,800
135	35.8	97.7	75,900
140	32.4	89.9	71,400
145	28.7	81.0	67,200
150	24.4	70.3	63,200
155	19.2	56.9	59,500

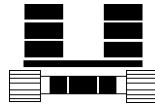
ft	o	ft	lb
177.2 ft			
32	82.5	183.9	600,200 *
34	81.8	183.6	564,000 *
36	81.2	183.2	528,500 *
38	80.5	182.9	497,000 *
40	79.9	182.5	465,300
45	78.2	181.4	388,400
50	76.5	180.2	331,900
55	74.9	178.8	288,600
60	73.2	177.2	254,400
65	71.5	175.5	226,600
70	69.7	173.6	203,700
75	68.0	171.6	184,400
80	66.2	169.3	167,900
85	64.4	166.9	153,800
90	62.6	164.3	141,400
95	60.7	161.4	130,500
100	58.8	158.4	120,800
105	56.9	155.1	112,200
110	54.9	151.5	104,500
115	52.9	147.7	97,500
120	50.8	143.6	91,100
125	48.6	139.2	85,300
130	46.4	134.4	80,000
135	44.1	129.2	75,100
140	41.6	123.6	70,500
145	39.1	117.4	66,400
150	36.3	110.6	62,500
155	33.4	103.1	58,800
160	30.2	94.7	55,400
165	26.7	84.9	52,200
170	22.6	73.4	49,200
175	17.6	58.8	46,300

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58 HL



332,000 lb
+
120,000 lb



360°

ft	o	ft	lb
196.9 ft			
34	82.6	203.5	562,700 *
36	82.1	203.2	527,300 *
38	81.5	202.9	495,800 *
40	80.9	202.5	465,200
45	79.4	201.6	388,100
50	77.9	200.4	331,400
55	76.4	199.2	288,000
60	74.9	197.8	253,600
65	73.4	196.3	225,800
70	71.8	194.6	202,800
75	70.3	192.8	183,500
80	68.7	190.8	167,000
85	67.1	188.7	152,800
90	65.5	186.4	140,400
95	63.9	183.9	129,500
100	62.3	181.2	119,800
105	60.6	178.4	111,100
110	58.9	175.3	103,400
115	57.2	172.1	96,400
120	55.4	168.6	90,000
125	53.6	164.9	84,200
130	51.7	160.9	78,800
135	49.8	156.6	73,900
140	47.8	152.1	69,400
145	45.8	147.2	65,200
150	43.7	142.0	61,300
155	41.5	136.3	57,700
160	39.2	130.2	54,300
165	36.8	123.5	51,100
170	34.2	116.2	48,200
175	31.4	108.1	45,300
180	28.4	99.0	42,700
185	25.0	88.6	40,200
190	21.1	76.2	37,700
195	16.3	60.4	35,400

ft	o	ft	lb
216.5 ft			
36	82.8	223.1	526,900 *
38	82.3	222.8	495,400 *
40	81.7	222.5	465,800
45	80.4	221.6	388,400
50	79.0	220.6	331,600
55	77.7	219.5	288,100
60	76.3	218.2	253,700
65	74.9	216.9	225,900
70	73.6	215.4	202,800
75	72.2	213.7	183,500
80	70.8	211.9	166,900
85	69.3	210.0	152,700
90	67.9	208.0	140,300
95	66.5	205.8	129,300
100	65.0	203.4	119,600
105	63.5	200.9	111,000
110	62.0	198.2	103,200
115	60.5	195.3	96,200
120	58.9	192.3	89,800
125	57.4	189.1	84,000
130	55.8	185.6	78,700
135	54.1	182.0	73,800
140	52.5	178.1	69,200
145	50.7	174.0	65,100
150	49.0	169.6	61,200
155	47.2	165.0	57,500
160	45.3	160.0	54,200
165	43.4	154.7	51,000
170	41.4	149.1	48,000
175	39.3	142.9	45,200
180	37.1	136.4	42,600
185	34.8	129.2	40,100
190	32.3	121.4	37,700
195	29.7	112.7	35,500
200	26.8	103.0	33,300
205	23.6	91.8	31,300
210	19.8	78.6	29,300
215	15.2	61.7	27,400

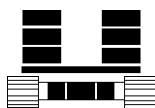
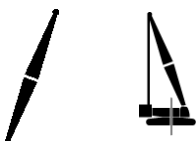
ft	o	ft	lb
236.2 ft			
38	82.9	242.7	493,900 *
40	82.4	242.4	465,300
45	81.2	241.6	387,800
50	80.0	240.7	330,900
55	78.7	239.7	287,200
60	77.5	238.5	252,800
65	76.2	237.3	224,800
70	75.0	235.9	201,700
75	73.7	234.4	182,300
80	72.4	232.8	165,700
85	71.1	231.1	151,500
90	69.8	229.2	139,000
95	68.5	227.2	128,100
100	67.2	225.1	118,300
105	65.9	222.8	109,700
110	64.5	220.4	101,900
115	63.2	217.9	94,800
120	61.8	215.1	88,500
125	60.4	212.3	82,600
130	59.0	209.2	77,300
135	57.5	206.0	72,400
140	56.1	202.7	67,900
145	54.6	199.1	63,700
150	53.1	195.3	59,800
155	51.5	191.3	56,200
160	49.9	187.1	52,800
165	48.3	182.6	49,600
170	46.6	177.9	46,600
175	44.9	172.8	43,800
180	43.1	167.5	41,200
185	41.3	161.8	38,700
190	39.4	155.7	36,300
195	37.4	149.2	34,100
200	35.3	142.1	32,000
205	33.1	134.5	30,000
210	30.7	126.2	28,100
215	28.2	117.0	26,200
220	25.4	106.7	24,400
225	22.3	94.9	22,800
230	18.7	80.8	21,100

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58 HL



332,000 lb
+
120,000 lb



ft	o	ft	lb
255.9 ft			
40	83.0	262.3	452,300 *
45	81.9	261.6	387,600
50	80.7	260.7	330,500
55	79.6	259.8	286,700
60	78.5	258.7	252,200
65	77.3	257.6	224,200
70	76.1	256.3	201,000
75	75.0	254.9	181,500
80	73.8	253.5	164,900
85	72.6	251.9	150,600
90	71.5	250.2	138,100
95	70.3	248.4	127,200
100	69.1	246.4	117,400
105	67.9	244.4	108,700
110	66.6	242.2	100,900
115	65.4	239.9	93,900
120	64.2	237.4	87,500
125	62.9	234.8	81,700
130	61.6	232.1	76,300
135	60.3	229.2	71,400
140	59.0	226.2	66,900
145	57.7	223.0	62,700
150	56.3	219.7	58,800
155	55.0	216.1	55,200
160	53.6	212.4	51,800
165	52.2	208.5	48,600
170	50.7	204.4	45,600
175	49.2	200.1	42,800
180	47.7	195.5	40,200
185	46.2	190.7	37,700
190	44.6	185.6	35,400
195	42.9	180.2	33,200
200	41.2	174.5	31,000
205	39.5	168.5	29,000
210	37.6	162.0	27,100
215	35.7	155.1	25,300
220	33.7	147.6	23,600
225	31.6	139.6	21,900
230	29.3	130.8	20,300
235	26.9	121.0	18,800
240	24.2	110.2	17,300
245	21.2	97.7	15,900 *
250	17.7	82.8	14,100 *

ft	o	ft	lb
275.6 ft			
45	82.5	281.5	386,900
50	81.4	280.7	329,600
55	80.3	279.8	285,800
60	79.3	278.9	251,100
65	78.2	277.8	223,000
70	77.2	276.6	199,800
75	76.1	275.4	180,300
80	75.0	274.0	163,600
85	73.9	272.5	149,300
90	72.8	271.0	136,800
95	71.7	269.3	125,800
100	70.6	267.5	116,000
105	69.5	265.6	107,300
110	68.4	263.6	99,500
115	67.3	261.5	92,400
120	66.1	259.2	86,000
125	65.0	256.9	80,200
130	63.8	254.4	74,800
135	62.7	251.8	69,900
140	61.5	249.1	65,300
145	60.3	246.2	61,100
150	59.1	243.2	57,200
155	57.8	240.0	53,600
160	56.6	236.7	50,200
165	55.3	233.2	47,100
170	54.0	229.6	44,100
175	52.7	225.7	41,300
180	51.4	221.7	38,700
185	50.0	217.5	36,200
190	48.6	213.1	33,800
195	47.2	208.4	31,600
200	45.8	203.6	29,500
205	44.3	198.4	27,500
210	42.7	193.0	25,600
215	41.2	187.3	23,800
220	39.5	181.2	22,000
225	37.8	174.8	20,400
230	36.1	168.0	18,800
235	34.2	160.6	17,300
240	32.3	152.8	15,700 *
245	30.2	144.3	13,900 *
250	28.1	135.0	12,300 *
255	25.7	124.8	10,700 *
260	23.1	113.4	9,100 *
265	20.2	100.2	7,600 *

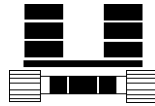
ft	o	ft	lb
295.3 ft			
45	83.0	301.4	327,200 *
50	82.0	300.6	327,200 *
55	81.0	299.8	285,300
60	80.0	298.9	250,600
65	79.0	297.9	222,400
70	78.0	296.8	199,200
75	77.0	295.7	179,600
80	76.0	294.4	163,000
85	75.0	293.0	148,600
90	74.0	291.6	136,100
95	73.0	290.0	125,000
100	72.0	288.4	115,300
105	71.0	286.6	106,600
110	69.9	284.8	98,700
115	68.9	282.8	91,700
120	67.8	280.8	85,200
125	66.8	278.6	79,400
130	65.7	276.3	74,000
135	64.6	273.9	69,100
140	63.5	271.4	64,600
145	62.4	268.8	60,400
150	61.3	266.0	56,500
155	60.2	263.1	52,800
160	59.1	260.1	49,400
165	57.9	257.0	46,300
170	56.8	253.7	43,300
175	55.6	250.2	40,500
180	54.4	246.6	37,900
185	53.2	242.9	35,400
190	52.0	238.9	33,000
195	50.7	234.8	30,800
200	49.4	230.5	28,700
205	48.1	226.0	26,700
210	46.8	221.3	24,800
215	45.4	216.4	23,000
220	44.0	211.2	21,300
225	42.6	205.8	19,600
230	41.1	200.0	18,100
235	39.6	194.0	16,500 *
240	38.0	187.6	14,700 *
245	36.4	180.8	13,000 *
250	34.7	173.6	11,400 *
255	32.9	165.9	9,800 *
260	31.0	157.7	8,300 *

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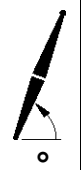
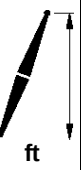
58 HL



332,000 lb
+
120,000 lb



360°

   			
 315.0 ft			
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 *