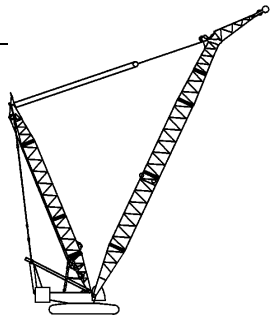
Liftcrane Boom
Extended Upper Point Capacities

Boom No. 58 HL with 98.4 ft Mast No. 59A and 23.0 ft Extended Upper Boom Point
332,000 lb Crane Counterweight
120,000 lb Carbody Counterweight
360 Degree Rating



16000 SERIES 3

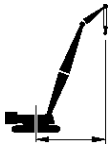
LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point (upper sheave) capacity for liftcrane service with single part whip line is 30,000 lb. In all cases, upper boom point capacities cannot exceed those listed for extended upper boom point (lower sheave) capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath upper boom point sheaves, is considered part of extended upper boom point 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.

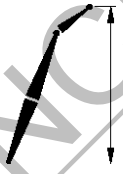
OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with mast up. Refer to boom rigging **No. A14546**, Wire Rope Specification chart **No. 8674-C**, Counterweight Arrangement chart **No. 8682-A** and Wind Conditions chart **No. 8688-A.** Crane operator 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-D**.



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 (°) 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.



EXTENDED UPPER BOOM POINT ELEVATION: Extended upper boom point elevation is vertical distance from ground level to centerline of extended upper boom point (lower sheave) shaft.

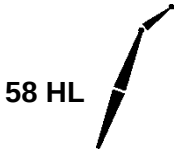
MACHINE EQUIPMENT: Machine equipped with 34 ft crawlers, 60 in. treads, 32 ft live mast, 98.4 ft mast, 12 part boom hoist reeving, boom support straps, 332,000 lb crane counterweight, two 30,000 lb and four 15,000 lb carbody counterweight

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

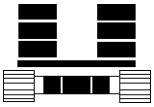
Boom Catwalks Deduct
Deduct 600 lb from capacities when boom catwalks are attached.

Lower boom point must be removed when extended upper boom point is attached.

Explanation of Symbols

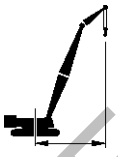


Boom No. 58 Heavy Lift Top with 23.0 ft Extended Upper Boom Point



Crane Counterweight
+
Carbody Counterweight

360 Degree Rating



Operating Radius
(see page 1)

Boom Angle
(see page 1)

Extended Upper
Boom Point Elevation
(see page 1)

Lifting Capacities
(see page 1)

Boom Length

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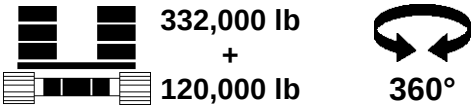
16000 S-3

ANSI B30.5

58 HL



332,000 lb
+
120,000 lb

360°

ft	°	ft	lb
315.0 ft			
60	83.0	341.4	179,800 *
65	82.1	340.6	179,800 *
70	81.2	339.6	179,800 *
75	80.4	338.6	179,800 *
80	79.5	337.5	170,700
85	78.6	336.3	155,800
90	77.8	335.0	142,800
95	76.9	333.7	131,400
100	76.0	332.3	121,200
105	75.1	330.8	112,200
110	74.2	329.2	104,100
115	73.3	327.5	96,800
120	72.4	325.7	90,100
125	71.5	323.9	84,100
130	70.6	321.9	78,500
135	69.7	319.9	73,400
140	68.8	317.7	68,700
145	67.8	315.5	64,400
150	66.9	313.2	60,300
155	65.9	310.7	56,600
160	65.0	308.2	53,000
165	64.0	305.6	49,800
170	63.1	302.8	46,700
175	62.1	300.0	43,800
180	61.1	297.0	41,100
185	60.1	293.9	38,500
190	59.1	290.7	36,100
195	58.1	287.3	33,800
200	57.0	283.8	31,600
205	56.0	280.2	29,500
210	54.9	276.5	27,600
215	53.8	272.6	25,700
220	52.7	268.5	23,900
225	51.6	264.3	22,200
230	50.5	259.9	20,600
235	49.3	255.3	19,000
240	48.2	250.6	17,500
245	47.0	245.6	16,000 *
250	45.8	240.4	14,300 *
255	44.5	235.0	12,700 *
260	43.2	229.4	11,100 *
265	41.9	223.4	9,600 *
270	40.5	217.2	8,100 *