



# Liftcrane Boom Capacities

**26,630 lb Crane Counterweight**  
**Extended Position Crawlers**  
**360 Degree Rating**

**Meets  
 ASME B30.5  
 Requirements**



## 10000 SERIES 1

### LIFTING CAPACITIES:

1. Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, and multiple machine lifts).
2. Capacities do not exceed 75% of minimum tipping loads. Capacities based on factors other than machine stability such as structural competence are shown by asterisk \* in the charts.
3. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine capacity.
4. Do not attempt to lift where no radius on load chart is listed as crane may tip or collapse.
5. Weight of hooks, hook blocks, slings and other lifting devices beneath boom point sheaves are part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
6. Load radius is horizontal distance from axis of rotation to center of gravity of the freely suspended load. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of radius. In all cases, operating radius shall govern capacity.
7. Least stable position is over the side.
8. Boom point elevation is vertical distance from ground level to centerline of boom point shaft.
9. Upper boom point capacity for liftcrane service with single part line is 24,000 lbs. In all cases, upper boom point capacities cannot exceed those listed for Liftcrane Boom capacity reduced by 420 lbs.

10. When lifting over boom point with jib or upper boom point, rated loads for the boom must be reduced as shown below.

Jib length	Upper Boom Point	30 ft	40 ft	50 ft	60 ft
Deduct (lb)	420	Not applicable			

11. Lifting capacities listed apply only to the machine as originally manufactured and designed. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
12. Machine travel with load (pick and carry).
  - A. Travel with crane upperworks in-line with crawlers. Grade in any direction must not exceed 1 percent (0.5 degrees).
  - B. Travel surface must be firm, level and uniformly supporting. Capacity charts are based on static conditions; therefore judgment must be used to allow for dynamic effects of traveling with load. Carry load as close to ground as possible. Stabilize load with taglines. Travel slowly and smoothly to avoid shock loading boom, jib and rigging.
13. Jib installation is prohibited.



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### OPERATING CONDITION:

1. The machine must be reeved and set-up as stated in the Operator Manual. If this manual is missing, obtain replacement.

- Boom backstops are required for all boom lengths.
- Gantry must be fully raised position for all operation.
- Crawlers must be fully extended and be locked in position.
- The crane must be leveled to within 1% on a firm supporting surface.
- Refer to operator manual for operating guidelines.

<b>Maximum Boom Lengths Lifted Unassisted</b>
Over End of Crawlers
160 ft
Load block, hook and weight ball on ground at start.

3. Machine equipped with 20 ft 8 in. crawlers, 36 in. treads, 12 parts of boom hoist reeving and 26,630 lb crane counterweight.

### Hoist Reeving for Main Boom Loads

No. of Parts of Line	1	2	3	4
Maximum Loads (lb)	25,000	50,000	75,000	100,000

No. of Parts of Line	5	6	7	8
Maximum Loads (lb)	125,000	150,000	175,000	200,000

### Hoist Reeving for Upper Boom Point Loads

No. of Parts of Line	1
Maximum Loads (lb)	24,000

2. See Operator Manual Section 6 for Wire Rope Specifications.

**Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.**



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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>40 ft Boom</b>			
10.0	81.9	45.3	200,000 *
11.0	80.5	45.1	200,000 *
12.0	79.0	44.9	184,520
13.0	77.5	44.7	152,550
14.0	76.1	44.4	130,070
15.0	74.6	44.2	113,090
16.0	73.1	43.8	100,080
17.0	71.5	43.5	89,720
18.0	70.0	43.1	81,120
19.0	68.5	42.7	74,070
20.0	66.9	42.3	68,120
22.0	63.7	41.3	58,640
24.0	60.5	40.2	51,360
26.0	57.1	39.0	45,630
28.0	53.5	37.5	41,000
30.0	49.8	35.9	37,250
32.0	45.9	34.0	33,950
34.0	41.7	31.8	31,300
36.0	37.0	29.3	29,100
38.0	31.8	26.2	27,110
40.0	25.7	22.4	25,350
<b>50 ft Boom</b>			
12.0	81.2	55.1	184,520
13.0	80.1	54.9	152,550
14.0	78.9	54.7	129,850
15.0	77.7	54.5	113,090
16.0	76.5	54.3	99,860
17.0	75.4	54.0	89,500
18.0	74.2	53.7	81,120
19.0	73.0	53.4	73,850
20.0	71.7	53.1	67,900
22.0	69.3	52.3	58,420
24.0	66.8	51.5	51,140
26.0	64.3	50.5	45,410
28.0	61.7	49.5	40,780
30.0	59.0	48.3	37,030
32.0	56.3	47.0	33,730
34.0	53.5	45.5	31,080
36.0	50.5	43.9	28,650
38.0	47.4	42.1	26,670
40.0	44.2	40.1	24,910
45.0	35.0	33.9	21,160
50.0	22.8	24.5	18,510

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>60 ft Boom</b>			
13.0	81.7	65.1	152,550
14.0	80.8	64.9	129,850
15.0	79.8	64.7	112,870
16.0	78.8	64.5	99,860
17.0	77.8	64.3	89,280
18.0	76.9	64.1	80,900
19.0	75.9	63.8	73,630
20.0	74.9	63.5	67,680
22.0	72.9	62.9	58,200
24.0	70.9	62.2	50,920
26.0	68.8	61.5	45,190
28.0	66.8	60.6	40,340
30.0	64.6	59.7	36,590
32.0	62.5	58.7	33,500
34.0	60.3	57.5	30,640
36.0	58.1	56.3	28,430
38.0	55.8	55.0	26,230
40.0	53.4	53.5	24,470
45.0	47.1	49.3	20,940
50.0	40.1	43.9	18,070
55.0	31.8	36.8	15,870
60.0	20.7	26.3	14,320
<b>70 ft Boom</b>			
15.0	81.3	74.9	112,870
16.0	80.4	74.7	99,860
17.0	79.6	74.5	89,280
18.0	78.8	74.3	80,900
19.0	77.9	74.1	73,630
20.0	77.1	73.9	67,680
22.0	75.4	73.4	58,200
24.0	73.7	72.8	50,700
26.0	72.0	72.1	44,970
28.0	70.2	71.4	40,340
30.0	68.5	70.6	36,590
32.0	66.7	69.8	33,280
34.0	64.9	68.9	30,640
36.0	63.1	67.9	28,210
38.0	61.2	66.8	26,230
40.0	59.3	65.6	24,470
45.0	54.4	62.3	20,720
50.0	49.1	58.2	17,850
55.0	43.4	53.3	15,650
60.0	37.0	47.3	13,880
65.0	29.4	39.4	12,560

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>80 ft Boom</b>			
16.0	81.6	84.8	99,640
17.0	80.9	84.7	89,060
18.0	80.2	84.5	80,680
19.0	79.5	84.3	73,410
20.0	78.7	84.1	67,460
22.0	77.3	83.7	57,980
24.0	75.8	83.2	50,480
26.0	74.3	82.6	44,750
28.0	72.8	82.0	40,120
30.0	71.3	81.3	36,370
32.0	69.8	80.6	33,060
34.0	68.2	79.8	30,200
36.0	66.7	79.0	27,990
38.0	65.1	78.0	25,790
40.0	63.5	77.1	24,020
45.0	59.4	74.3	20,500
50.0	55.1	71.0	17,630
55.0	50.6	67.1	15,430
60.0	45.7	62.6	13,660
65.0	40.4	57.1	12,120
70.0	34.5	50.4	11,020
75.0	27.4	41.9	9,920



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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>90 ft Boom</b>			
17.0	81.9	94.8	89,060
18.0	81.3	94.7	80,460
19.0	80.6	94.5	73,410
20.0	80.0	94.3	67,460
22.0	78.7	93.9	57,760
24.0	77.4	93.5	50,480
26.0	76.1	93.0	44,750
28.0	74.8	92.4	39,900
30.0	73.4	91.9	36,150
32.0	72.1	91.2	32,840
34.0	70.8	90.5	30,200
36.0	69.4	89.8	27,770
38.0	68.0	89.0	25,790
40.0	66.6	88.1	24,020
45.0	63.1	85.7	20,280
50.0	59.5	82.9	17,410
55.0	55.7	79.7	15,210
60.0	51.7	76.0	13,440
65.0	47.5	71.6	11,900
70.0	43.0	66.6	10,800
75.0	38.0	60.6	9,700
80.0	32.4	53.4	8,810
85.0	25.8	44.2	7,930
<b>100 ft Boom</b>			
19.0	81.6	104.6	73,190
20.0	81.0	104.5	67,230
22.0	79.8	104.1	57,530
24.0	78.7	103.7	50,260
26.0	77.5	103.3	44,310
28.0	76.3	102.8	39,680
30.0	75.1	102.3	35,930
32.0	73.9	101.7	32,620
34.0	72.7	101.1	29,980
36.0	71.5	100.4	27,550
38.0	70.3	99.7	25,350
40.0	69.1	99.0	23,580
45.0	66.0	96.8	19,840
50.0	62.8	94.4	17,190
55.0	59.5	91.6	14,990

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>100 ft Boom</b>			
60.0	56.1	88.4	13,000
65.0	52.6	84.7	11,680
70.0	48.8	80.6	10,360
75.0	44.9	75.8	9,250
80.0	40.6	70.3	8,370
85.0	36.0	63.9	7,710
90.0	30.7	56.2	7,050
95.0	24.4	46.4	6,390
<b>110 ft Boom</b>			
20.0	81.8	114.6	67,230
22.0	80.8	114.3	57,530
24.0	79.7	113.9	50,260
26.0	78.7	113.5	44,530
28.0	77.6	113.1	39,680
30.0	76.5	112.6	35,930
32.0	75.4	112.1	32,620
34.0	74.4	111.5	29,980
36.0	73.3	110.9	27,550
38.0	72.2	110.3	25,350
40.0	71.1	109.6	23,580
45.0	68.3	107.7	19,840
50.0	65.5	105.5	17,190
55.0	62.6	103.1	14,770
60.0	59.6	100.3	13,000
65.0	56.5	97.1	11,460
70.0	53.3	93.5	10,360
75.0	49.9	89.5	9,250
80.0	46.4	85.0	8,370
85.0	42.7	79.8	7,490
90.0	38.6	73.9	6,830
95.0	34.2	67.0	6,390
100.0	29.2	58.8	5,730
105.0	23.2	48.5	5,290
<b>120 ft Boom</b>			
22.0	81.6	124.4	57,310
24.0	80.6	124.1	50,040
26.0	79.6	123.7	44,310
28.0	78.6	123.3	39,460
30.0	77.7	122.9	35,710
32.0	76.7	122.4	32,400
34.0	75.7	121.9	29,540
36.0	74.7	121.4	27,330
38.0	73.7	120.8	25,130
40.0	72.7	120.2	23,360

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>120 ft Boom</b>			
45.0	70.2	118.4	19,620
50.0	67.6	116.5	16,750
55.0	65.0	114.2	14,550
60.0	62.3	111.7	12,780
65.0	59.6	108.9	11,240
70.0	56.8	105.8	9,920
75.0	53.9	102.3	9,030
80.0	50.8	98.4	7,930
85.0	47.7	94.0	7,270
90.0	44.3	89.1	6,610
95.0	40.8	83.6	5,950
100.0	36.9	77.3	5,510
105.0	32.7	70.0	4,850
110.0	27.9	61.3	4,400
115.0	22.2	50.4	4,180
<b>130 ft Boom</b>			
24.0	81.3	134.2	50,040
26.0	80.4	133.9	44,090
28.0	79.5	133.5	39,460
30.0	78.6	133.1	35,710
32.0	77.7	132.7	32,400
34.0	76.8	132.2	29,540
36.0	75.9	131.7	27,110
38.0	75.0	131.2	25,130
40.0	74.1	130.6	23,360
45.0	71.8	129.0	19,620
50.0	69.4	127.3	16,750
55.0	67.1	125.2	14,550
60.0	64.6	122.9	12,780
65.0	62.2	120.4	11,240
70.0	59.6	117.6	9,920
75.0	57.0	114.5	8,810
80.0	54.4	111.0	7,930
85.0	51.6	107.2	7,050
90.0	48.7	103.0	6,390
95.0	45.7	98.3	5,730
100.0	42.5	93.0	5,290
105.0	39.1	87.2	4,850
110.0	35.4	80.5	4,180
115.0	31.4	72.8	3,740
120.0	26.8	63.7	3,520
125.0	21.3	52.3	3,080



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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>140 ft Boom</b>			
24.0	81.9	144.3	49,820
26.0	81.1	144.0	43,870
28.0	80.3	143.7	39,240
30.0	79.4	143.3	35,270
32.0	78.6	142.9	32,180
34.0	77.8	142.5	29,320
36.0	76.9	142.0	26,890
38.0	76.1	141.5	24,910
40.0	75.2	141.0	22,920
45.0	73.1	139.6	19,400
50.0	71.0	137.9	16,530
55.0	68.8	136.0	14,100
60.0	66.6	134.0	12,340
65.0	64.3	131.6	10,800
70.0	62.0	129.1	9,700
75.0	59.7	126.2	8,590
80.0	57.2	123.1	7,710
85.0	54.8	119.7	6,830
90.0	52.2	116.0	6,170
95.0	49.6	111.9	5,510
100.0	46.8	107.3	4,850
105.0	43.9	102.3	4,400
110.0	40.9	96.8	3,960
115.0	37.6	90.6	3,520
120.0	34.1	83.6	3,080

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>150 ft Boom</b>			
26.0	81.7	154.1	43,870
28.0	80.9	153.8	39,020
30.0	80.2	153.5	35,270
32.0	79.4	153.1	31,960
34.0	78.6	152.7	29,100
36.0	77.8	152.3	26,670
38.0	77.0	151.8	24,690
40.0	76.3	151.3	22,920
45.0	74.3	150.0	19,170
50.0	72.3	148.5	16,310
55.0	70.3	146.7	14,100
60.0	68.2	144.8	12,120
65.0	66.1	142.7	10,800
70.0	64.0	140.3	9,470
75.0	61.9	137.7	8,370
80.0	59.7	134.9	7,490
85.0	57.4	131.8	6,610
90.0	55.1	128.4	5,950
95.0	52.8	124.8	5,290
100.0	50.3	120.7	4,620
105.0	47.8	116.4	4,180
110.0	45.1	111.5	3,740
115.0	42.3	106.3	3,300

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>160 ft Boom</b>			
28.0	81.5	163.9	39,020
30.0	80.8	163.6	35,270
32.0	80.1	163.3	31,960
34.0	79.3	162.9	29,100
36.0	78.6	162.5	26,670
38.0	77.9	162.1	24,690
40.0	77.1	161.6	22,920
45.0	75.3	160.4	19,170
50.0	73.4	158.9	16,310
55.0	71.5	157.3	13,880
60.0	69.6	155.5	12,120
65.0	67.7	153.6	10,580
70.0	65.8	151.4	9,470
75.0	63.8	149.0	8,370
80.0	61.8	146.4	7,270
85.0	59.7	143.6	6,610
90.0	57.6	140.5	5,730
95.0	55.4	137.1	5,070
100.0	53.2	133.5	4,620
105.0	51.0	129.6	3,960
110.0	48.6	125.3	3,520
115.0	46.2	120.7	3,080