



# Liftcrane Boom Capacities

**26,630 LB. Crane Counterweight**  
**Crawler Retracted**  
**Travel with Load Not Permitted**  
**360 Degree Rating**

Meets  
**ANSI B30.5**  
Requirements



## 10000 SERIES 1

### LIFTING CAPACITIES:

- 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).
- 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.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine capacity.
- Do not attempt to lift where no radius on load chart is listed as crane may tip or collapse.
- 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.
- 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.
- Least stable position is over the side.
- Boom point elevation is vertical distance from ground level to centerline of boom point shaft.
- Auxiliary sheave (upper boom point) capacity for liftcrane service with single part line is 24,000 lbs. In all cases, auxiliary sheave (upper boom point) capacities cannot exceed those listed for Liftcrane Boom capacity reduced by 420 lbs.
- When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be reduced as shown below.

Jib length	Aux.	30 ft.	40 ft.	50 ft.	60 ft.
Deduct (lbs)	420	Not applicable			

- 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.
- Travel with load (pick and carry) is not permitted.
- Jib installation is prohibited.

### OPERATING CONDITION:

- The machine must be reeved and set-up as stated in the Operators 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 operators manual for operating guidelines.

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

- For Serial Numbers 10001001 thru 10001037:** Front and rear load hoist drum wire rope: 1.00 inch, 6 x 25, FI, IWRC, C/O, Minimum breaking strength: 103,400 lbs. Front Drum: 771 feet, Rear Drum: 525 feet.

**For all other Serial Numbers:** Front and rear load hoist drum wire rope: 26 mm, 6 x 29, FI, IWRC, C/O, Minimum breaking strength: 120,000 lbs. Front Drum: 771 feet, Rear Drum: 525 feet
- Boom hoist wire rope: 492 feet, 5/8 inch, 6 x 31, WS, IWRC O/O, Minimum breaking strength: 47,200 lbs.
- Machine equipped with 20 ft. 8 in. crawlers, 36 in. treads, 12 parts of boom hoist reeving, 26,630 lbs. crane counterweight.

#### Hoist Reeving for Main Boom Loads

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

**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 (lbs)
<b>40 Ft. Boom</b>			
24.0	60.5	40.2	34,830
26.0	57.1	39.0	31,300
28.0	53.5	37.5	28,430
30.0	49.8	35.9	26,010
32.0	45.9	34.0	24,030
34.0	41.7	31.8	22,040
36.0	37.0	29.3	20,500
38.0	31.8	26.2	19,180
40.0	25.7	22.4	18,070
<b>50 Ft. Boom</b>			
20.0	71.7	53.1	44,310
22.0	69.3	52.3	38,800
24.0	66.8	51.5	34,610
26.0	64.3	50.5	31,080
28.0	61.7	49.5	27,990
30.0	59.0	48.3	25,570
32.0	56.3	47.0	23,580
34.0	53.5	45.5	21,820
36.0	50.5	43.9	20,280
38.0	47.4	42.1	18,730
40.0	44.2	40.1	17,630
45.0	35.0	33.9	15,210
50.0	22.8	24.5	13,220
<b>60 Ft. Boom</b>			
17.0	77.8	64.3	55,330
18.0	76.9	64.1	50,920
19.0	75.9	63.8	47,170
20.0	74.9	63.5	43,870
22.0	72.9	62.9	38,580
24.0	70.9	62.2	34,170
26.0	68.8	61.5	30,640
28.0	66.8	60.6	27,770
30.0	64.6	59.7	25,350
32.0	62.5	58.7	23,140
34.0	60.3	57.5	21,380
36.0	58.1	56.3	19,840
38.0	55.8	55.0	18,510
40.0	53.4	53.5	17,190
45.0	47.1	49.3	14,770
50.0	40.1	43.9	12,780
55.0	31.8	36.8	11,240
60.0	20.7	26.3	10,140

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)
<b>70 Ft. Boom</b>			
15.0	81.3	74.9	66,790
16.0	80.4	74.7	60,620
17.0	79.6	74.5	55,330
18.0	78.8	74.3	50,920
19.0	77.9	74.1	47,170
20.0	77.1	73.9	43,870
22.0	75.4	73.4	38,360
24.0	73.7	72.8	34,170
26.0	72.0	72.1	30,640
28.0	70.2	71.4	27,550
30.0	68.5	70.6	25,130
32.0	66.7	69.8	23,140
34.0	64.9	68.9	21,380
36.0	63.1	67.9	19,620
38.0	61.2	66.8	18,290
40.0	59.3	65.6	17,190
45.0	54.4	62.3	14,550
50.0	49.1	58.2	12,560
55.0	43.4	53.3	11,020
60.0	37.0	47.3	9,700
65.0	29.4	39.4	8,810
<b>80 Ft. Boom</b>			
16.0	81.6	84.8	60,180
17.0	80.9	84.7	55,110
18.0	80.2	84.5	50,700
19.0	79.5	84.3	46,950
20.0	78.7	84.1	43,650
22.0	77.3	83.7	38,130
24.0	75.8	83.2	33,730
26.0	74.3	82.6	30,200
28.0	72.8	82.0	27,330
30.0	71.3	81.3	24,910
32.0	69.8	80.6	22,700
34.0	68.2	79.8	20,940
36.0	66.7	79.0	19,400
38.0	65.1	78.0	18,070
40.0	63.5	77.1	16,750
45.0	59.4	74.3	14,320
50.0	55.1	71.0	12,340
55.0	50.6	67.1	10,580
60.0	45.7	62.6	9,470
65.0	40.4	57.1	8,370
70.0	34.5	50.4	7,490
75.0	27.4	41.9	6,830

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)
<b>90 Ft. Boom</b>			
17.0	81.9	94.8	54,890
18.0	81.3	94.7	50,480
19.0	80.6	94.5	46,730
20.0	80.0	94.3	43,430
22.0	78.7	93.9	37,910
24.0	77.4	93.5	33,730
26.0	76.1	93.0	30,200
28.0	74.8	92.4	27,110
30.0	73.4	91.9	24,690
32.0	72.1	91.2	22,700
34.0	70.8	90.5	20,720
36.0	69.4	89.8	19,180
38.0	68.0	89.0	17,850
40.0	66.6	88.1	16,530
45.0	63.1	85.7	14,100
50.0	59.5	82.9	12,120
55.0	55.7	79.7	10,580
60.0	51.7	76.0	9,250
65.0	47.5	71.6	8,150
70.0	43.0	66.6	7,270
75.0	38.0	60.6	6,390
80.0	32.4	53.4	5,950
85.0	25.8	44.2	5,290



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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)
<b>100 Ft. Boom</b>			
19.0	81.6	104.6	46,510
20.0	81.0	104.5	43,210
22.0	79.8	104.1	37,690
24.0	78.7	103.7	33,280
26.0	77.5	103.3	29,760
28.0	76.3	102.8	26,890
30.0	75.1	102.3	24,470
32.0	73.9	101.7	22,260
34.0	72.7	101.1	20,500
36.0	71.5	100.4	18,950
38.0	70.3	99.7	17,410
40.0	69.1	99.0	16,310
45.0	66.0	96.8	13,660
50.0	62.8	94.4	11,680
55.0	59.5	91.6	10,140
60.0	56.1	88.4	8,810
65.0	52.6	84.7	7,710
70.0	48.8	80.6	6,830
75.0	44.9	75.8	6,170
80.0	40.6	70.3	5,510
85.0	36.0	63.9	4,850
90.0	30.7	56.2	4,400
95.0	24.4	46.4	3,960
<b>110 Ft. Boom</b>			
20.0	81.8	114.6	43,210
22.0	80.8	114.3	37,690
24.0	79.7	113.9	33,280
26.0	78.7	113.5	29,760
28.0	77.6	113.1	26,890
30.0	76.5	112.6	24,470
32.0	75.4	112.1	22,260
34.0	74.4	111.5	20,500
36.0	73.3	110.9	18,950
38.0	72.2	110.3	17,410
40.0	71.1	109.6	16,310
45.0	68.3	107.7	13,660
50.0	65.5	105.5	11,680
55.0	62.6	103.1	10,140
60.0	59.6	100.3	8,810

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)
<b>110 Ft. Boom</b>			
65.0	56.5	97.1	7,710
70.0	53.3	93.5	6,830
75.0	49.9	89.5	6,170
80.0	46.4	85.0	5,510
85.0	42.7	79.8	4,850
90.0	38.6	73.9	4,400
95.0	34.2	67.0	3,960
100.0	29.2	58.8	3,520
105.0	23.2	48.5	3,080
<b>120 Ft. Boom</b>			
22.0	81.6	124.4	37,470
24.0	80.6	124.1	33,060
26.0	79.6	123.7	29,540
28.0	78.6	123.3	26,670
30.0	77.7	122.9	24,030
32.0	76.7	122.4	22,040
34.0	75.7	121.9	20,280
36.0	74.7	121.4	18,510
38.0	73.7	120.8	17,190
40.0	72.7	120.2	15,870
45.0	70.2	118.4	13,440
50.0	67.6	116.5	11,460
55.0	65.0	114.2	9,920
60.0	62.3	111.7	8,590
65.0	59.6	108.9	7,490
70.0	56.8	105.8	6,610
75.0	53.9	102.3	5,730
80.0	50.8	98.4	5,070
85.0	47.7	94.0	4,400
90.0	44.3	89.1	3,960
95.0	40.8	83.6	3,520
100.0	36.9	77.3	3,080
<b>130 Ft. Boom</b>			
24.0	81.3	134.2	33,060
26.0	80.4	133.9	29,540
28.0	79.5	133.5	26,450
30.0	78.6	133.1	24,030
32.0	77.7	132.7	22,040
34.0	76.8	132.2	20,060
36.0	75.9	131.7	18,510
38.0	75.0	131.2	17,190
40.0	74.1	130.6	15,870
45.0	71.8	129.0	13,220

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)
<b>130 Ft. Boom</b>			
50.0	69.4	127.3	11,240
55.0	67.1	125.2	9,700
60.0	64.6	122.9	8,370
65.0	62.2	120.4	7,270
70.0	59.6	117.6	6,390
75.0	57.0	114.5	5,730
80.0	54.4	111.0	5,070
85.0	51.6	107.2	4,400
90.0	48.7	103.0	3,740
95.0	45.7	98.3	3,300
<b>140 Ft. Boom</b>			
24.0	81.9	144.3	32,620
26.0	81.1	144.0	29,100
28.0	80.3	143.7	26,230
30.0	79.4	143.3	23,800
32.0	78.6	142.9	21,600
34.0	77.8	142.5	19,840
36.0	76.9	142.0	18,290
38.0	76.1	141.5	16,750
40.0	75.2	141.0	15,650
45.0	73.1	139.6	13,000
50.0	71.0	137.9	11,020
55.0	68.8	136.0	9,470
60.0	66.6	134.0	8,150
65.0	64.3	131.6	7,050
70.0	62.0	129.1	6,170
75.0	59.7	126.2	5,290
80.0	57.2	123.1	4,620
85.0	54.8	119.7	3,960
90.0	52.2	116.0	3,300