

Liftcrane Boom Capacities

**69,000 lb Crane Counterweight
Extended Position Crawlers
360 Degree Rating**

Meets
ASME B30.5
Requirements



11000-1

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 derate 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 lb. In all cases, upper boom point capacities cannot exceed those listed for Liftcrane Boom capacity reduced by 420 lb.
10. 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.
11. 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 and rigging.



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OPERATING CONDITION:

- 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.

Maximum Boom Lengths Lifted Unassisted	
Over End of Blocked Crawlers	Over End of Crawlers
Boom Length	Boom Length
200 ft (a)	190 ft
Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be attached on 200 ft boom.	

- See Operator Manual Section 6 for Wire Rope Specifications.
- Machine equipped with 20 ft 7 in crawlers, 36 in treads, 12 parts of boom hoist reeving and 69,000 lb crane counterweight.

Hoist Reeving for Main Boom Loads

No. of Parts of Line	1	2	3
Maximum Loads (lb)	25,200	50,400	75,600

No. of Parts of Line	4	5	6
Maximum Loads (lb)	100,800	126,000	151,200

Hoist Reeving for Upper Boom Point Loads

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

Assembling the Counterweight
69,000 lb counterweight (No. 1 - No. 5)
Without carbody weight

No. 4	No. 5
No. 2	No. 3
No. 1	

Counterweights

**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)
80 ft Boom			
42.0	61.8	76.0	40,000
44.0	60.2	74.9	37,600
46.0	58.5	73.7	35,200
48.0	56.8	72.4	33,400
50.0	55.1	71.0	31,700
55.0	50.5	67.1	27,900
60.0	45.7	62.6	24,900
65.0	40.4	57.1	22,500
70.0	34.3	50.4	20,400
75.0	26.9	41.9	18,700
90 ft Boom			
40.0	66.6	88.1	42,200
42.0	65.2	87.2	39,800
44.0	63.8	86.2	37,300
46.0	62.4	85.2	34,900
48.0	60.9	84.1	33,300
50.0	59.4	82.9	31,600
55.0	55.7	79.7	27,900
60.0	51.7	76.0	24,800
65.0	47.4	71.6	22,300
70.0	42.9	66.6	20,200
75.0	37.9	60.6	18,500
80.0	32.2	53.4	17,000
85.0	25.7	44.2	15,700
100 ft Boom			
36.0	71.6	100.4	48,900
38.0	70.3	99.7	45,300
40.0	69.1	99.0	42,000
42.0	67.9	98.1	39,500
44.0	66.6	97.3	37,100
46.0	65.4	96.4	34,700
48.0	64.1	95.4	33,000
50.0	62.8	94.4	31,200
55.0	59.5	91.6	27,500
60.0	56.1	88.4	24,400
65.0	52.5	84.7	21,900
70.0	48.8	80.6	19,900
75.0	44.8	75.8	18,200
80.0	40.5	70.3	16,600
85.0	36.0	63.9	15,200
90.0	30.5	56.2	14,200
95.0	24.0	46.4	13,300

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
110 ft Boom			
34.0	74.3	111.5	52,600
36.0	73.2	110.9	48,900
38.0	72.2	110.3	45,300
40.0	71.1	109.6	42,000
42.0	70.0	108.9	39,500
44.0	68.9	108.1	37,100
46.0	67.8	107.3	34,700
48.0	66.6	106.5	33,000
50.0	65.4	105.5	31,200
55.0	62.5	103.1	27,500
60.0	59.5	100.3	24,400
65.0	56.5	97.1	21,900
70.0	53.2	93.5	19,900
75.0	49.9	89.5	18,200
80.0	46.4	85.0	16,600
85.0	42.6	79.8	15,200
90.0	38.6	73.9	14,100
95.0	34.1	67.0	13,100
100.0	29.1	58.8	12,300
105.0	23.2	48.5	11,500
120 ft Boom			
32.0	76.7	122.4	56,600
34.0	75.7	121.9	52,400
36.0	74.7	121.4	48,700
38.0	73.7	120.8	45,000
40.0	72.7	120.2	41,700
42.0	71.7	119.5	39,300
44.0	70.7	118.8	36,900
46.0	69.7	118.1	34,500
48.0	68.6	117.3	32,800
50.0	67.6	116.5	31,000
55.0	65.0	114.2	27,200
60.0	62.3	111.7	24,200
65.0	59.6	108.9	21,600
70.0	56.8	105.8	19,600
75.0	53.8	102.3	17,800
80.0	50.8	98.4	16,400
85.0	47.7	94.0	15,000
90.0	44.3	89.1	13,800
95.0	40.7	83.6	12,800
100.0	36.9	77.3	11,900
110.0	27.8	61.3	10,400
115.0	22.2	50.4	9,800

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
130 ft Boom			
30.0	78.6	133.1	59,900
32.0	77.7	132.7	56,000
34.0	76.9	132.2	52,200
36.0	75.9	131.7	48,500
38.0	75.0	131.2	44,800
40.0	74.1	130.6	41,500
42.0	73.2	130.0	39,100
44.0	72.2	129.4	36,700
46.0	71.3	128.7	34,300
48.0	70.4	128.0	32,500
50.0	69.4	127.3	30,800
55.0	67.1	125.2	27,000
60.0	64.6	122.9	23,900
65.0	62.2	120.4	21,400
70.0	59.6	117.6	19,300
75.0	57.0	114.5	17,500
80.0	54.3	111.0	15,900
85.0	51.6	107.2	14,600
90.0	48.7	103.0	13,600
95.0	45.6	98.3	12,500
100.0	42.4	93.0	11,600
110.0	35.4	80.5	10,100
120.0	26.6	63.7	8,800
125.0	21.3	52.3	8,300



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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
140 ft Boom			
26.0	81.1	144.0	65,400
28.0	80.3	143.7	61,800
30.0	79.4	143.3	58,200
32.0	78.6	142.9	54,500
34.0	77.8	142.5	51,100
36.0	76.9	142.0	47,700
38.0	76.1	141.5	44,400
40.0	75.2	141.0	41,300
42.0	74.4	140.4	38,800
44.0	73.5	139.9	36,300
46.0	72.7	139.2	33,800
48.0	71.8	138.6	32,200
50.0	71.0	137.9	30,500
55.0	68.8	136.0	26,700
60.0	66.6	134.0	23,500
65.0	64.3	131.6	21,200
70.0	62.0	129.1	19,100
75.0	59.7	126.2	17,300
80.0	57.3	123.1	15,700
85.0	54.8	119.7	14,400
90.0	52.2	116.0	13,200
95.0	49.5	111.9	12,200
100.0	46.8	107.3	11,400
110.0	40.8	96.8	9,900
120.0	34.0	83.6	8,600
130.0	25.7	66.0	7,600
135.0	20.5	54.1	7,000

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
150 ft Boom			
26.0	81.7	154.1	56,500
28.0	80.9	153.8	54,000
30.0	80.1	153.5	51,700
32.0	79.4	153.1	49,700
34.0	78.6	152.7	47,600
36.0	77.8	152.3	45,500
38.0	77.0	151.8	43,300
40.0	76.3	151.3	41,100
42.0	75.5	150.8	38,700
44.0	74.7	150.3	36,200
46.0	73.9	149.7	33,800
48.0	73.1	149.1	32,100
50.0	72.3	148.5	30,300
55.0	70.3	146.7	26,600
60.0	68.2	144.8	23,500
65.0	66.2	142.7	21,000
70.0	64.0	140.3	18,900
75.0	61.9	137.7	17,100
80.0	59.6	134.9	15,500
85.0	57.4	131.8	14,100
90.0	55.2	128.4	13,100
95.0	52.8	124.8	12,100
100.0	50.3	120.7	11,100
110.0	45.1	111.5	9,600
120.0	39.3	100.4	8,400
130.0	32.8	86.6	7,300
140.0	24.3	68.2	6,500

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
160 ft Boom			
28.0	81.5	163.9	42,200
30.0	80.8	163.6	40,600
32.0	80.1	163.3	39,000
34.0	79.4	162.9	37,500
36.0	78.6	162.5	36,200
38.0	77.9	162.1	34,800
40.0	77.2	161.6	33,600
42.0	76.4	161.1	32,600
44.0	75.6	160.6	31,600
46.0	74.9	160.1	30,600
48.0	74.1	159.5	29,700
50.0	73.4	158.9	28,800
55.0	71.5	157.3	26,300
60.0	69.6	155.5	23,500
65.0	67.7	153.6	21,000

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
160 ft Boom			
70.0	65.8	151.4	18,900
75.0	63.8	149.0	17,100
80.0	61.8	146.4	15,500
85.0	59.7	143.6	14,100
90.0	57.6	140.5	13,100
95.0	55.4	137.1	12,100
100.0	53.2	133.5	11,100
110.0	48.6	125.3	9,600
120.0	43.6	115.6	8,300
130.0	38.1	103.9	7,100
140.0	31.6	89.5	6,300
150.0	23.7	70.4	5,500
170 ft Boom			
30.0	81.3	173.7	36,200
32.0	80.7	173.4	34,700
34.0	80.0	173.1	33,400
36.0	79.3	172.7	32,200
38.0	78.6	172.3	31,000
40.0	77.9	171.9	29,900
42.0	77.2	171.4	28,900
44.0	76.5	170.9	28,000
46.0	75.8	170.4	27,000
48.0	75.1	169.9	26,200
50.0	74.4	169.4	25,400
55.0	72.6	167.9	23,600
60.0	70.9	166.2	22,000
65.0	69.1	164.3	20,600
70.0	67.3	162.3	18,700
75.0	65.4	160.1	17,000
80.0	63.5	157.7	15,500
85.0	61.6	155.1	14,100
90.0	59.7	152.2	13,000
95.0	57.8	149.2	11,900
100.0	55.8	145.8	10,900
110.0	51.5	138.4	9,400
120.0	47.0	129.7	8,100
130.0	42.2	119.5	6,900
140.0	36.8	107.3	6,000
150.0	30.5	92.2	5,200
160.0	23.2	72.5	4,400



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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
180 ft Boom			
30.0	81.8	183.9	31,600
32.0	81.2	183.6	30,300
34.0	80.5	183.2	29,100
36.0	79.9	182.9	28,000
38.0	79.2	182.5	26,900
40.0	78.6	182.1	25,900
42.0	77.9	181.7	25,000
44.0	77.2	181.2	24,200
46.0	76.6	180.7	23,300
48.0	75.9	180.2	22,600
50.0	75.3	179.7	22,000
55.0	73.7	178.3	20,400
60.0	72.0	176.7	18,900
65.0	70.3	175.0	17,700
70.0	68.6	173.1	16,600
75.0	66.9	171.0	15,600
80.0	65.2	168.8	14,700
85.0	63.4	166.4	13,700
90.0	61.6	163.7	12,700
95.0	59.8	160.9	11,700
100.0	57.9	157.8	10,700
110.0	54.0	151.0	9,000
120.0	49.9	143.1	7,900
130.0	45.6	134.0	6,700
140.0	40.9	123.3	5,700
150.0	35.7	110.5	4,900
160.0	29.7	94.9	4,200
165.0	26.5	85.5	3,800

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
190 ft Boom			
32.0	81.6	193.7	26,700
34.0	81.0	193.4	25,600
36.0	80.4	193.0	24,600
38.0	79.8	192.7	23,600
40.0	79.2	192.3	22,600
42.0	78.6	191.9	21,900
44.0	78.0	191.5	21,200
46.0	77.4	191.0	20,400
48.0	76.7	190.6	19,800
50.0	76.1	190.1	19,100
55.0	74.5	188.7	17,600
60.0	73.0	187.2	16,300
65.0	71.4	185.6	15,100
70.0	69.8	183.8	14,200
75.0	68.2	181.9	13,400
80.0	66.5	179.8	12,500
85.0	64.9	177.5	11,700
90.0	63.2	175.0	11,000
95.0	61.5	172.4	10,300
100.0	59.7	169.5	9,700
110.0	56.2	163.2	8,700
120.0	52.5	156.0	7,600
130.0	48.5	147.7	6,500
140.0	44.3	138.1	5,500
150.0	39.7	126.9	4,600
160.0	34.8	113.7	4,000
165.0	32.1	106.1	3,600

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
200 ft Boom			
34.0	81.5	203.5	20,000
36.0	80.9	203.2	19,300
38.0	80.3	202.8	18,500
40.0	79.7	202.5	17,800
42.0	79.1	202.1	17,200
44.0	78.6	201.7	16,600
46.0	78.0	201.3	16,000
48.0	77.4	200.8	15,500
50.0	76.8	200.4	15,000
55.0	75.3	199.1	13,800
60.0	73.8	197.7	12,800
65.0	72.4	196.2	12,000
70.0	70.9	194.5	11,100
75.0	69.3	192.6	10,400
80.0	67.8	190.6	9,700
85.0	66.2	188.5	9,000
90.0	64.6	186.2	8,500
95.0	63.0	183.7	8,000
100.0	61.4	181.0	7,500
110.0	58.1	175.2	6,700
120.0	54.6	168.5	5,800
130.0	51.1	160.8	5,100
140.0	47.2	152.1	4,400
150.0	43.1	142.1	3,800
155.0	41.0	136.5	3,400