



Liftcrane Boom Capacities

**43,600 lb Crane Counterweight
Extended Position Crawlers
360 Degree Rating**

Meets
ASME B30.5
Requirements



10000A-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 and jib 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, jib 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.

Hoist Reeving for Main Boom Loads

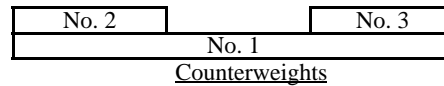
No. of Parts of Line	1	2	3	4
Maximum Loads (lb)	25,200	50,400	75,600	100,800

No. of Parts of Line	5	6	7	8
Maximum Loads (lb)	126,000	151,200	176,400	200,000

**Hoist Reeving for
Upper Boom Point Loads**

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

Assembling the Counterweight
43,600 lb counterweight (No. 1 - No. 3)
Without carbody weight



Maximum Boom Lengths Lifted Unassisted	
Over End of Blocked Crawlers	Over End of Crawlers
Boom Length	Boom Length
190 ft (a)	180 ft
Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be attached on 190 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 43,600 lb crane counterweight.

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)
50 ft Boom			
12.0	81.2	55.1	179,800
13.0	80.0	54.9	168,100
14.0	78.9	54.7	153,100
15.0	77.7	54.5	138,500
16.0	76.6	54.3	127,000
17.0	75.4	54.0	115,300
18.0	74.2	53.7	103,600
19.0	72.9	53.4	94,900
20.0	71.7	53.1	87,200
22.0	69.3	52.3	75,300
24.0	66.8	51.5	65,700
26.0	64.3	50.5	58,000
28.0	61.7	49.5	52,300
30.0	59.1	48.3	47,300
32.0	56.3	47.0	43,200
34.0	53.4	45.5	39,900
36.0	50.3	43.9	37,100
38.0	47.3	42.1	34,300
40.0	44.0	40.1	31,800
42.0	40.4	37.8	30,000
44.0	36.7	35.3	28,200
46.0	32.9	32.3	26,400
48.0	27.6	28.8	25,100
50.0	22.3	24.5	23,900

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
60 ft Boom			
13.0	81.7	65.1	156,300
14.0	80.7	64.9	142,400
15.0	79.8	64.7	129,600
16.0	78.8	64.5	119,400
17.0	77.8	64.3	110,500
18.0	76.8	64.1	102,600
19.0	75.9	63.8	94,400
20.0	74.9	63.5	86,900
22.0	72.9	62.9	75,100
24.0	70.9	62.2	65,400
26.0	68.8	61.5	57,800
28.0	66.7	60.6	52,000
30.0	64.6	59.7	46,800
32.0	62.5	58.7	42,800
34.0	60.3	57.5	39,500
36.0	58.0	56.3	36,800
38.0	55.7	55.0	34,000
40.0	53.4	53.5	31,600
42.0	50.9	51.9	29,800
44.0	48.3	50.2	27,900
46.0	45.8	48.3	26,100
48.0	42.8	46.2	24,800
50.0	39.9	43.9	23,500
55.0	31.2	36.8	20,600
60.0	20.7	26.3	18,500

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
70 ft Boom			
15.0	81.3	74.9	122,400
16.0	80.4	74.7	113,200
17.0	79.6	74.5	105,200
18.0	78.7	74.3	97,900
19.0	77.9	74.1	92,100
20.0	77.1	73.9	86,300
22.0	75.4	73.4	74,600
24.0	73.7	72.8	65,100
26.0	72.0	72.1	57,700
28.0	70.3	71.4	52,000
30.0	68.5	70.6	46,800
32.0	66.7	69.8	42,800
34.0	64.9	68.9	39,500
36.0	63.0	67.9	36,800
38.0	61.2	66.8	34,000
40.0	59.3	65.6	31,600
42.0	57.3	64.3	29,800
44.0	55.3	63.0	27,900
46.0	53.3	61.5	26,100
48.0	51.2	59.9	24,800
50.0	49.0	58.2	23,500
55.0	43.2	53.3	20,600
60.0	36.9	47.3	18,400
65.0	29.2	39.4	16,700

FOR REFERENCE



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**Meets
ASME B30.5
Requirements**

10000A-1

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
80 ft Boom			
16.0	81.6	84.8	106,900
17.0	80.9	84.7	99,900
18.0	80.2	84.5	93,300
19.0	79.5	84.3	87,800
20.0	78.8	84.1	82,700
22.0	77.3	83.7	73,100
24.0	75.8	83.2	64,800
26.0	74.3	82.6	57,700
28.0	72.8	82.0	52,000
30.0	71.2	81.3	46,800
32.0	69.7	80.6	42,800
34.0	68.2	79.8	39,500
36.0	66.6	79.0	36,800
38.0	65.1	78.0	34,000
40.0	63.5	77.1	31,600
42.0	61.8	76.0	29,800
44.0	60.2	74.9	27,900
46.0	58.5	73.7	26,100
48.0	56.8	72.4	24,800
50.0	55.1	71.0	23,500
55.0	50.5	67.1	20,600
60.0	45.7	62.6	18,300
65.0	40.4	57.1	16,300
70.0	34.3	50.4	14,900
75.0	26.9	41.9	13,600

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
90 ft Boom			
17.0	81.9	94.8	94,300
18.0	81.3	94.7	88,800
19.0	80.7	94.5	83,800
20.0	80.0	94.3	79,200
22.0	78.7	93.9	71,600
24.0	77.4	93.5	64,400
26.0	76.1	93.0	57,700
28.0	74.8	92.4	52,000
30.0	73.5	91.9	46,800
32.0	72.1	91.2	42,800
34.0	70.8	90.5	39,500
36.0	69.4	89.8	36,800
38.0	68.0	89.0	34,000
40.0	66.6	88.1	31,500
42.0	65.2	87.2	29,700
44.0	63.8	86.2	27,800
46.0	62.4	85.2	25,900
48.0	60.9	84.1	24,600
50.0	59.4	82.9	23,200
55.0	55.7	79.7	20,400
60.0	51.7	76.0	18,100
65.0	47.4	71.6	16,300
70.0	42.9	66.6	14,700
75.0	37.9	60.6	13,400
80.0	32.2	53.4	12,300
85.0	25.7	44.2	11,300

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
100 ft Boom			
19.0	81.6	104.6	80,200
20.0	81.0	104.5	76,000
22.0	79.9	104.1	68,700
24.0	78.7	103.7	62,400
26.0	77.5	103.3	57,100
28.0	76.3	102.8	51,700
30.0	75.1	102.3	46,600
32.0	74.0	101.7	42,600
34.0	72.8	101.1	39,300
36.0	71.6	100.4	36,500
38.0	70.3	99.7	33,600
40.0	69.1	99.0	31,100
42.0	67.9	98.1	29,300
44.0	66.6	97.3	27,500
46.0	65.4	96.4	25,700
48.0	64.1	95.4	24,400
50.0	62.8	94.4	23,000
55.0	59.5	91.6	20,200
60.0	56.1	88.4	17,900
65.0	52.5	84.7	15,900
70.0	48.8	80.6	14,300
75.0	44.8	75.8	13,000
80.0	40.5	70.3	11,800
85.0	36.0	63.9	10,800
90.0	30.5	56.2	10,000
95.0	24.0	46.4	9,200



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ASME B30.5
Requirements

10000A-1

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
110 ft Boom			
20.0	81.8	114.6	73,000
22.0	80.8	114.3	66,200
24.0	79.7	113.9	60,400
26.0	78.6	113.5	55,300
28.0	77.6	113.1	50,900
30.0	76.5	112.6	46,600
32.0	75.4	112.1	42,600
34.0	74.3	111.5	39,300
36.0	73.2	110.9	36,500
38.0	72.2	110.3	33,600
40.0	71.1	109.6	31,100
42.0	70.0	108.9	29,200
44.0	68.9	108.1	27,300
46.0	67.8	107.3	25,500
48.0	66.6	106.5	24,100
50.0	65.4	105.5	22,800
55.0	62.5	103.1	19,900
60.0	59.5	100.3	17,700
65.0	56.5	97.1	15,800
70.0	53.2	93.5	14,300
75.0	49.9	89.5	12,900
80.0	46.4	85.0	11,600
85.0	42.6	79.8	10,600
90.0	38.6	73.9	9,700
95.0	34.1	67.0	9,000
100.0	29.1	58.8	8,400
105.0	23.2	48.5	7,900

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
120 ft Boom			
22.0	81.6	124.4	63,400
24.0	80.6	124.1	58,100
26.0	79.6	123.7	53,200
28.0	78.6	123.3	49,300
30.0	77.7	122.9	45,600
32.0	76.7	122.4	42,100
34.0	75.7	121.9	39,100
36.0	74.7	121.4	36,200
38.0	73.7	120.8	33,400
40.0	72.7	120.2	30,900
42.0	71.7	119.5	29,000
44.0	70.7	118.8	27,100
46.0	69.7	118.1	25,300
48.0	68.6	117.3	23,900
50.0	67.6	116.5	22,600
55.0	65.0	114.2	19,700
60.0	62.3	111.7	17,400
65.0	59.6	108.9	15,400
70.0	56.8	105.8	13,800
75.0	53.8	102.3	12,500
80.0	50.8	98.4	11,400
85.0	47.7	94.0	10,400
90.0	44.3	89.1	9,500
95.0	40.7	83.6	8,800
100.0	36.9	77.3	8,100
110.0	27.8	61.3	6,900
115.0	22.2	50.4	6,400

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
130 ft Boom			
24.0	81.3	134.2	56,000
26.0	80.4	133.9	51,400
28.0	79.5	133.5	47,700
30.0	78.6	133.1	44,300
32.0	77.7	132.7	41,400
34.0	76.9	132.2	38,700
36.0	75.9	131.7	35,900
38.0	75.0	131.2	33,100
40.0	74.1	130.6	30,700
42.0	73.2	130.0	28,800
44.0	72.2	129.4	26,900
46.0	71.3	128.7	25,000
48.0	70.4	128.0	23,700
50.0	69.4	127.3	22,300
55.0	67.1	125.2	19,400
60.0	64.6	122.9	17,000
65.0	62.2	120.4	15,200
70.0	59.6	117.6	13,600
75.0	57.0	114.5	12,300
80.0	54.3	111.0	11,200
85.0	51.6	107.2	10,200
90.0	48.7	103.0	9,300
95.0	45.6	98.3	8,500
100.0	42.4	93.0	7,700
110.0	35.4	80.5	6,700
120.0	26.6	63.7	5,700
125.0	21.3	52.3	5,200

FOR SALE



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Extended Position Crawlers
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**Meets
ASME B30.5
Requirements**

10000A-1

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
140 ft Boom			
24.0	81.9	144.3	53,900
26.0	81.1	144.0	49,600
28.0	80.3	143.7	46,200
30.0	79.4	143.3	42,900
32.0	78.6	142.9	40,100
34.0	77.8	142.5	37,500
36.0	76.9	142.0	35,000
38.0	76.1	141.5	32,500
40.0	75.2	141.0	30,200
42.0	74.4	140.4	28,400
44.0	73.5	139.9	26,600
46.0	72.7	139.2	24,800
48.0	71.8	138.6	23,500
50.0	71.0	137.9	22,100
55.0	68.8	136.0	19,200
60.0	66.6	134.0	16,800
65.0	64.3	131.6	14,900
70.0	62.0	129.1	13,400
75.0	59.7	126.2	12,000
80.0	57.3	123.1	10,700
85.0	54.8	119.7	9,700
90.0	52.2	116.0	8,900
95.0	49.5	111.9	8,100
100.0	46.8	107.3	7,500
110.0	40.8	96.8	6,300
120.0	34.0	83.6	5,300
130.0	25.7	66.0	4,400
135.0	20.5	54.1	4,100

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
150 ft Boom			
26.0	81.7	154.1	48,200
28.0	80.9	153.8	44,800
30.0	80.1	153.5	41,600
32.0	79.4	153.1	39,000
34.0	78.6	152.7	36,600
36.0	77.8	152.3	34,400
38.0	77.0	151.8	32,300
40.0	76.3	151.3	30,200
42.0	75.5	150.8	28,400
44.0	74.7	150.3	26,600
46.0	73.9	149.7	24,800
48.0	73.1	149.1	23,500
50.0	72.3	148.5	22,100
55.0	70.3	146.7	19,200
60.0	68.2	144.8	16,800
65.0	66.2	142.7	14,900
70.0	64.0	140.3	13,400
75.0	61.9	137.7	12,000
80.0	59.6	134.9	10,700
85.0	57.4	131.8	9,700
90.0	55.2	128.4	8,900
95.0	52.8	124.8	8,100
100.0	50.3	120.7	7,500
110.0	45.1	111.5	6,300
120.0	39.3	100.4	5,300
130.0	32.8	86.6	4,400
140.0	24.3	68.2	3,800

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	40,400
32.0	80.1	163.3	37,800
34.0	79.4	162.9	35,600
36.0	78.6	162.5	33,600
38.0	77.9	162.1	31,500
40.0	77.2	161.6	29,600
42.0	76.4	161.1	28,000
44.0	75.6	160.6	26,400
46.0	74.9	160.1	24,800
48.0	74.1	159.5	23,500
50.0	73.4	158.9	22,100
55.0	71.5	157.3	19,200
60.0	69.6	155.5	16,800
65.0	67.7	153.6	14,900
70.0	65.8	151.4	13,400
75.0	63.8	149.0	12,000
80.0	61.8	146.4	10,700
85.0	59.7	143.6	9,700
90.0	57.6	140.5	8,900
95.0	55.4	137.1	8,000
100.0	53.2	133.5	7,300
110.0	48.6	125.3	6,100
120.0	43.6	115.6	5,100
130.0	38.1	103.9	4,000
140.0	31.6	89.5	3,300



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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
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	33,200
36.0	79.3	172.7	31,800
38.0	78.6	172.3	30,300
40.0	77.9	171.9	28,800
42.0	77.2	171.4	27,300
44.0	76.5	170.9	25,800
46.0	75.8	170.4	24,400
48.0	75.1	169.9	23,100
50.0	74.4	169.4	21,800
55.0	72.6	167.9	19,000
60.0	70.9	166.2	16,600
65.0	69.1	164.3	14,700
70.0	67.3	162.3	13,200
75.0	65.4	160.1	11,800
80.0	63.5	157.7	10,500
85.0	61.6	155.1	9,500
90.0	59.7	152.2	8,600
95.0	57.8	149.2	7,800
100.0	55.8	145.8	7,000
110.0	51.5	138.4	5,800
120.0	47.0	129.7	4,700
130.0	42.2	119.5	3,800
140.0	36.8	107.3	3,100

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	22,300
50.0	75.3	179.7	21,300
55.0	73.7	178.3	18,700
60.0	72.0	176.7	16,300
65.0	70.3	175.0	14,300
70.0	68.6	173.1	12,700
75.0	66.9	171.0	11,400
80.0	65.2	168.8	10,300
85.0	63.4	166.4	9,300
90.0	61.6	163.7	8,400
95.0	59.8	160.9	7,600
100.0	57.9	157.8	6,800
110.0	54.0	151.0	5,400
120.0	49.9	143.1	4,400
130.0	45.6	134.0	3,400

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	16,100
65.0	71.4	185.6	14,300
70.0	69.8	183.8	12,700
75.0	68.2	181.9	11,300
80.0	66.5	179.8	10,100
85.0	64.9	177.5	9,000
90.0	63.2	175.0	8,200
95.0	61.5	172.4	7,400
100.0	59.7	169.5	6,600
110.0	56.2	163.2	5,200
120.0	52.5	156.0	4,200
130.0	48.5	147.7	3,300

FOR REFERENCE