



Liftcrane Boom Capacities

69,000 lb Crane Counterweight
31,700 lb Carbody 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. 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	2,500	3,700	5,100	6,700

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.

Manitowoc Cranes

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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.

2. The total load that can be lifted over a jib is limited by the rated jib loads.

Maximum Boom and Jib Lengths Lifted Unassisted			
Over End of Blocked Crawlers		Over End of Crawlers	
Boom Length	Jib Length	Boom Length	Jib Length
200 ft (a)	—	200 ft (a)	—
190 ft	60 ft	190 ft	—
180 ft	60 ft	170 ft	60 ft

Load block, hook and weight ball on ground at start.
 (a) Upper boom point cannot be attached on 200 ft boom.
 Jibs can only be mounted on 80 ft to 190 ft booms.

3. See Operator Manual Section 6 for Wire Rope Specifications.
4. Machine equipped with 20 ft 7 in crawlers, 36 in treads, 12 parts of boom hoist reeving, 69,000 lb crane counterweight and 31,700 lb carbody counterweight.

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

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	200,000 *
13.0	80.0	54.9	200,000 *
14.0	78.9	54.7	187,800 *
15.0	77.7	54.5	175,600 *
16.0	76.6	54.3	165,300 *
17.0	75.4	54.0	156,000 *
18.0	74.2	53.7	147,400 *
19.0	72.9	53.4	140,100 *
20.0	71.7	53.1	132,400
22.0	69.3	52.3	115,300
24.0	66.8	51.5	101,000
26.0	64.3	50.5	89,400
28.0	61.7	49.5	80,700
30.0	59.1	48.3	73,000
32.0	56.3	47.0	67,000
34.0	53.4	45.5	62,000
36.0	50.3	43.9	57,800
38.0	47.3	42.1	53,600
40.0	44.0	40.1	49,800
42.0	40.4	37.8	47,000
44.0	36.7	35.3	44,300
46.0	32.9	32.3	41,500
48.0	27.6	28.8	38,300
50.0	22.3	24.5	35,100

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
60 ft Boom			
13.0	81.7	65.1	200,000 *
14.0	80.7	64.9	187,400 *
15.0	79.8	64.7	175,200 *
16.0	78.8	64.5	164,800 *
17.0	77.8	64.3	155,500 *
18.0	76.8	64.1	146,900 *
19.0	75.9	63.8	139,800 *
20.0	74.9	63.5	132,200
22.0	72.9	62.9	115,100
24.0	70.9	62.2	100,800
26.0	68.8	61.5	89,100
28.0	66.7	60.6	80,500
30.0	64.6	59.7	72,800
32.0	62.5	58.7	66,600
34.0	60.3	57.5	61,600
36.0	58.0	56.3	57,300
38.0	55.7	55.0	53,100
40.0	53.4	53.5	49,300
42.0	50.9	51.9	46,600
44.0	48.3	50.2	43,800
46.0	45.8	48.3	41,100
48.0	42.8	46.2	39,200
50.0	39.9	43.9	37,200
55.0	31.2	36.8	32,900
60.0	20.7	26.3	28,600 *

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
70 ft Boom			
15.0	81.3	74.9	151,000 *
16.0	80.4	74.7	151,000 *
17.0	79.6	74.5	149,400 *
18.0	78.7	74.3	146,700 *
19.0	77.9	74.1	139,800 *
20.0	77.1	73.9	132,200
22.0	75.4	73.4	115,400
24.0	73.7	72.8	101,300
26.0	72.0	72.1	89,600
28.0	70.3	71.4	80,800
30.0	68.5	70.6	73,000
32.0	66.7	69.8	67,000
34.0	64.9	68.9	62,000
36.0	63.0	67.9	57,800
38.0	61.2	66.8	53,600
40.0	59.3	65.6	49,800
42.0	57.3	64.3	46,900
44.0	55.3	63.0	44,100
46.0	53.3	61.5	41,300
48.0	51.2	59.9	39,400
50.0	49.0	58.2	37,400
55.0	43.2	53.3	33,200
60.0	36.9	47.3	29,600
65.0	29.2	39.4	26,800

FOR RENT

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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
80 ft Boom			
16.0	81.6	84.8	151,000 *
17.0	80.9	84.7	149,300 *
18.0	80.2	84.5	146,500 *
19.0	79.5	84.3	139,400 *
20.0	78.8	84.1	131,800
22.0	77.3	83.7	115,100
24.0	75.8	83.2	101,000
26.0	74.3	82.6	89,200
28.0	72.8	82.0	80,500
30.0	71.2	81.3	72,800
32.0	69.7	80.6	66,600
34.0	68.2	79.8	61,600
36.0	66.6	79.0	57,300
38.0	65.1	78.0	53,100
40.0	63.5	77.1	49,300
42.0	61.8	76.0	46,600
44.0	60.2	74.9	43,800
46.0	58.5	73.7	41,100
48.0	56.8	72.4	39,100
50.0	55.1	71.0	37,100
55.0	50.5	67.1	32,700
60.0	45.7	62.6	29,200
65.0	40.4	57.1	26,300
70.0	34.3	50.4	24,100
75.0	26.9	41.9	22,100

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
90 ft Boom			
17.0	81.9	94.8	125,800 *
18.0	81.3	94.7	125,800 *
19.0	80.7	94.5	125,800 *
20.0	80.0	94.3	124,000 *
22.0	78.7	93.9	112,500 *
24.0	77.4	93.5	100,800
26.0	76.1	93.0	89,100
28.0	74.8	92.4	80,500
30.0	73.5	91.9	72,800
32.0	72.1	91.2	66,600
34.0	70.8	90.5	61,600
36.0	69.4	89.8	57,300
38.0	68.0	89.0	53,100
40.0	66.6	88.1	49,300
42.0	65.2	87.2	46,500
44.0	63.8	86.2	43,700
46.0	62.4	85.2	40,900
48.0	60.9	84.1	38,900
50.0	59.4	82.9	36,900
55.0	55.7	79.7	32,500
60.0	51.7	76.0	29,000
65.0	47.4	71.6	26,100
70.0	42.9	66.6	23,800
75.0	37.9	60.6	21,800
80.0	32.2	53.4	20,100
85.0	25.7	44.2	18,600

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
100 ft Boom			
19.0	81.6	104.6	125,600 *
20.0	81.0	104.5	123,600 *
22.0	79.9	104.1	112,200 *
24.0	78.7	103.7	100,600
26.0	77.5	103.3	88,900
28.0	76.3	102.8	80,200
30.0	75.1	102.3	72,400
32.0	74.0	101.7	66,300
34.0	72.8	101.1	61,300
36.0	71.6	100.4	57,000
38.0	70.3	99.7	52,700
40.0	69.1	99.0	48,900
42.0	67.9	98.1	46,200
44.0	66.6	97.3	43,400
46.0	65.4	96.4	40,700
48.0	64.1	95.4	38,700
50.0	62.8	94.4	36,600
55.0	59.5	91.6	32,300
60.0	56.1	88.4	28,700
65.0	52.5	84.7	25,900
70.0	48.8	80.6	23,500
75.0	44.8	75.8	21,400
80.0	40.5	70.3	19,600
85.0	36.0	63.9	18,100
90.0	30.5	56.2	16,900
95.0	24.0	46.4	15,800



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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	100,800 *
22.0	80.8	114.3	100,800 *
24.0	79.7	113.9	96,500 *
26.0	78.6	113.5	88,500 *
28.0	77.6	113.1	80,200
30.0	76.5	112.6	72,400
32.0	75.4	112.1	66,300
34.0	74.3	111.5	61,300
36.0	73.2	110.9	57,000
38.0	72.2	110.3	52,700
40.0	71.1	109.6	48,900
42.0	70.0	108.9	46,200
44.0	68.9	108.1	43,400
46.0	67.8	107.3	40,700
48.0	66.6	106.5	38,700
50.0	65.4	105.5	36,600
55.0	62.5	103.1	32,300
60.0	59.5	100.3	28,700
65.0	56.5	97.1	25,900
70.0	53.2	93.5	23,500
75.0	49.9	89.5	21,400
80.0	46.4	85.0	19,600
85.0	42.6	79.8	18,100
90.0	38.6	73.9	16,800
95.0	34.1	67.0	15,600
100.0	29.1	58.8	14,600
105.0	23.2	48.5	13,770

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
120 ft Boom			
22.0	81.6	124.4	98,700 *
24.0	80.6	124.1	94,200 *
26.0	79.6	123.7	88,000 *
28.0	78.6	123.3	79,900
30.0	77.7	122.9	72,200
32.0	76.7	122.4	66,100
34.0	75.7	121.9	61,100
36.0	74.7	121.4	56,800
38.0	73.7	120.8	52,500
40.0	72.7	120.2	48,700
42.0	71.7	119.5	45,800
44.0	70.7	118.8	43,000
46.0	69.7	118.1	40,200
48.0	68.6	117.3	38,300
50.0	67.6	116.5	36,300
55.0	65.0	114.2	32,000
60.0	62.3	111.7	28,300
65.0	59.6	108.9	25,400
70.0	56.8	105.8	23,200
75.0	53.8	102.3	21,200
80.0	50.8	98.4	19,400
85.0	47.7	94.0	17,700
90.0	44.3	89.1	16,500
95.0	40.7	83.6	15,300
100.0	36.9	77.3	14,200
110.0	27.8	61.3	12,600
115.0	22.2	50.4	11,840

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
130 ft Boom			
24.0	81.3	134.2	85,100 *
26.0	80.4	133.9	83,900 *
28.0	79.5	133.5	78,200 *
30.0	78.6	133.1	71,900
32.0	77.7	132.7	65,900
34.0	76.9	132.2	60,900
36.0	75.9	131.7	56,600
38.0	75.0	131.2	52,300
40.0	74.1	130.6	48,400
42.0	73.2	130.0	45,600
44.0	72.2	129.4	42,800
46.0	71.3	128.7	40,000
48.0	70.4	128.0	38,000
50.0	69.4	127.3	36,000
55.0	67.1	125.2	31,600
60.0	64.6	122.9	28,100
65.0	62.2	120.4	25,200
70.0	59.6	117.6	22,900
75.0	57.0	114.5	20,900
80.0	54.3	111.0	19,000
85.0	51.6	107.2	17,500
90.0	48.7	103.0	16,100
95.0	45.6	98.3	15,000
100.0	42.4	93.0	14,000
110.0	35.4	80.5	12,100
120.0	26.6	63.7	10,800
125.0	21.3	52.3	10,230

FOR SALE

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140 ft Boom			
24.0	81.9	144.3	72,900 *
26.0	81.1	144.0	71,800 *
28.0	80.3	143.7	70,800 *
30.0	79.4	143.3	69,000 *
32.0	78.6	142.9	64,700 *
34.0	77.8	142.5	60,500
36.0	76.9	142.0	56,200
38.0	76.1	141.5	52,000
40.0	75.2	141.0	48,200
42.0	74.4	140.4	45,400
44.0	73.5	139.9	42,600
46.0	72.7	139.2	39,800
48.0	71.8	138.6	37,800
50.0	71.0	137.9	35,800
55.0	68.8	136.0	31,400
60.0	66.6	134.0	27,800
65.0	64.3	131.6	25,000
70.0	62.0	129.1	22,600
75.0	59.7	126.2	20,500
80.0	57.3	123.1	18,700
85.0	54.8	119.7	17,200
90.0	52.2	116.0	15,900
95.0	49.5	111.9	14,600
100.0	46.8	107.3	13,600
110.0	40.8	96.8	11,900
120.0	34.0	83.6	10,300
130.0	25.7	66.0	9,200
135.0	20.5	54.1	8,830

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
150 ft Boom			
26.0	81.7	154.1	62,200 *
28.0	80.9	153.8	61,300 *
30.0	80.1	153.5	60,400 *
32.0	79.4	153.1	59,400 *
34.0	78.6	152.7	57,200 *
36.0	77.8	152.3	54,100 *
38.0	77.0	151.8	51,000 *
40.0	76.3	151.3	48,000
42.0	75.5	150.8	45,200
44.0	74.7	150.3	42,400
46.0	73.9	149.7	39,600
48.0	73.1	149.1	37,500
50.0	72.3	148.5	35,500
55.0	70.3	146.7	31,200
60.0	68.2	144.8	27,600
65.0	66.2	142.7	24,800
70.0	64.0	140.3	22,400
75.0	61.9	137.7	20,300
80.0	59.6	134.9	18,500
85.0	57.4	131.8	17,000
90.0	55.2	128.4	15,700
95.0	52.8	124.8	14,400
100.0	50.3	120.7	13,400
110.0	45.1	111.5	11,700
120.0	39.3	100.4	10,300
130.0	32.8	86.6	8,900
140.0	24.3	68.2	8,000

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
160 ft Boom			
28.0	81.5	163.9	50,200 *
30.0	80.8	163.6	50,100 *
32.0	80.1	163.3	49,700 *
34.0	79.4	162.9	49,200 *
36.0	78.6	162.5	48,500 *
38.0	77.9	162.1	47,800 *
40.0	77.2	161.6	46,600 *
42.0	76.4	161.1	44,300 *
44.0	75.6	160.6	42,100 *
46.0	74.9	160.1	39,800
48.0	74.1	159.5	37,800
50.0	73.4	158.9	35,800
55.0	71.5	157.3	31,400
60.0	69.6	155.5	27,800
65.0	67.7	153.6	25,000
70.0	65.8	151.4	22,600
75.0	63.8	149.0	20,500
80.0	61.8	146.4	18,700
85.0	59.7	143.6	17,000
90.0	57.6	140.5	15,700
95.0	55.4	137.1	14,500
100.0	53.2	133.5	13,500
110.0	48.6	125.3	11,700
120.0	43.6	115.6	10,100
130.0	38.1	103.9	8,900
140.0	31.6	89.5	7,900
150.0	23.7	70.4	7,100



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170 ft Boom			
30.0	81.3	173.7	44,500 *
32.0	80.7	173.4	43,900 *
34.0	80.0	173.1	43,200 *
36.0	79.3	172.7	42,500 *
38.0	78.6	172.3	41,900 *
40.0	77.9	171.9	41,200 *
42.0	77.2	171.4	40,600 *
44.0	76.5	170.9	40,000 *
46.0	75.8	170.4	39,300 *
48.0	75.1	169.9	37,400 *
50.0	74.4	169.4	35,400 *
55.0	72.6	167.9	31,200
60.0	70.9	166.2	27,600
65.0	69.1	164.3	24,600
70.0	67.3	162.3	22,300
75.0	65.4	160.1	20,300
80.0	63.5	157.7	18,500
85.0	61.6	155.1	16,800
90.0	59.7	152.2	15,400
95.0	57.8	149.2	14,300
100.0	55.8	145.8	13,300
110.0	51.5	138.4	11,500
120.0	47.0	129.7	9,800
130.0	42.2	119.5	8,700
140.0	36.8	107.3	7,700
150.0	30.5	92.2	6,800
160.0	23.2	72.5	5,900

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
180 ft Boom			
30.0	81.8	183.9	39,300 *
32.0	81.2	183.6	38,800 *
34.0	80.5	183.2	38,200 *
36.0	79.9	182.9	37,600 *
38.0	79.2	182.5	37,000 *
40.0	78.6	182.1	36,400 *
42.0	77.9	181.7	35,800 *
44.0	77.2	181.2	35,100 *
46.0	76.6	180.7	34,500 *
48.0	75.9	180.2	33,900 *
50.0	75.3	179.7	33,300 *
55.0	73.7	178.3	30,800 *
60.0	72.0	176.7	27,400
65.0	70.3	175.0	24,400
70.0	68.6	173.1	21,900
75.0	66.9	171.0	19,900
80.0	65.2	168.8	18,100
85.0	63.4	166.4	16,600
90.0	61.6	163.7	15,200
95.0	59.8	160.9	14,000
100.0	57.9	157.8	12,900
110.0	54.0	151.0	11,100
120.0	49.9	143.1	9,600
130.0	45.6	134.0	8,500
140.0	40.9	123.3	7,400
150.0	35.7	110.5	6,500
160.0	29.7	94.9	5,600
165.0	26.5	85.5	5,100

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
190 ft Boom			
32.0	81.6	193.7	34,400 *
34.0	81.0	193.4	33,800 *
36.0	80.4	193.0	33,300 *
38.0	79.8	192.7	32,700 *
40.0	79.2	192.3	32,200 *
42.0	78.6	191.9	31,700 *
44.0	78.0	191.5	31,100 *
46.0	77.4	191.0	30,600 *
48.0	76.7	190.6	30,100 *
50.0	76.1	190.1	29,600 *
55.0	74.5	188.7	28,100 *
60.0	73.0	187.2	26,200 *
65.0	71.4	185.6	24,000 *
70.0	69.8	183.8	21,800
75.0	68.2	181.9	19,900
80.0	66.5	179.8	18,000
85.0	64.9	177.5	16,400
90.0	63.2	175.0	15,000
95.0	61.5	172.4	13,900
100.0	59.7	169.5	12,900
110.0	56.2	163.2	11,000
120.0	52.5	156.0	9,400
130.0	48.5	147.7	8,200
140.0	44.3	138.1	7,200
150.0	39.7	126.9	6,300
160.0	34.8	113.7	5,300
165.0	32.1	106.1	4,650

FOR PREVIEW

Manitowoc Cranes

Manitowoc, Wisconsin 54220 U.S.A.



Liftcrane Boom Capacities

69,000 lb Crane Counterweight
 31,700 lb Carbody Counterweight
 Extended Position Crawlers
 360 Degree Rating

Meets
 ASME B30.5
 Requirements

10000A-1

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
200 ft Boom			
34.0	81.5	203.5	30,300 *
36.0	80.9	203.2	29,700 *
38.0	80.3	202.8	29,200 *
40.0	79.7	202.5	28,700 *
42.0	79.1	202.1	28,200 *
44.0	78.6	201.7	27,700 *
46.0	78.0	201.3	27,300 *
48.0	77.4	200.8	26,800 *
50.0	76.8	200.4	26,300 *
55.0	75.3	199.1	24,900 *
60.0	73.8	197.7	23,200 *
65.0	72.4	196.2	21,500 *
70.0	70.9	194.5	20,000 *
75.0	69.3	192.6	18,500 *
80.0	67.8	190.6	17,100 *
85.0	66.2	188.5	15,900 *
90.0	64.6	186.2	14,700
95.0	63.0	183.7	13,500
100.0	61.4	181.0	12,400
110.0	58.1	175.2	10,600
120.0	54.6	168.5	9,200
130.0	51.1	160.8	7,800
140.0	47.2	152.1	6,500
150.0	43.1	142.1	5,200 *
155.0	41.0	136.5	4,650 *

For Reference Only