



Liftcrane Boom Capacities

69,000 lb Crane Counterweight
31,700 lb Carbody Counterweight
Rating Over End of Blocked Crawlers
Extended Position Crawlers
NO TRAVEL - LIMITED SWING

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

Upper Boom Point	
Deduct (lb)	420

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



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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.
 - Swing is limited to the angle shown on Fig. 1 (Working Areas).

Maximum Boom Lengths Lifted Unassisted	
Over End of Blocked Crawlers	
200 ft. (a)	
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, 69,000 lb crane counterweight and 31,700 lb carbody counterweight.

Hoist Reeving for Main Boom Loads

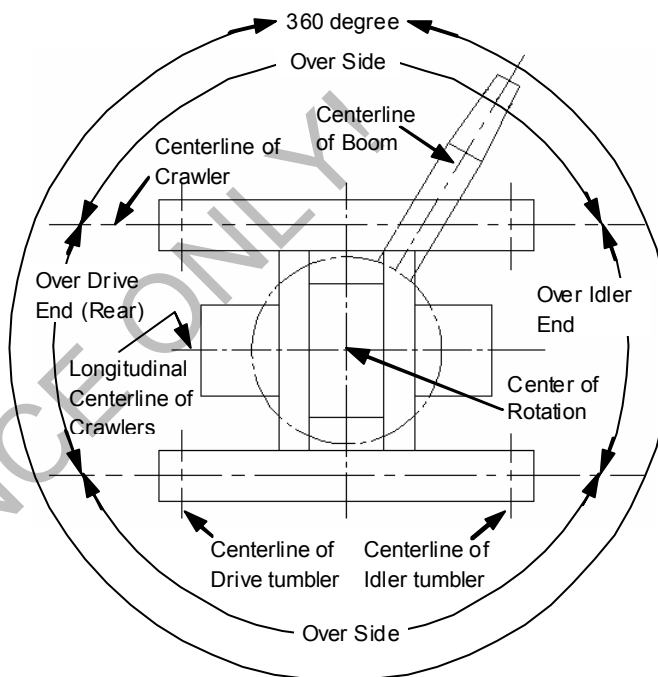
No. of Parts of Line	1	2	3	4
Maximum Loads (lb)	25,200	50,400	75,600	100,800

No. of Parts of Line	5	6	7	8
Maximum Loads (lb)	126,000	151,200	176,400	220,000

Hoist Reeving for Upper Boom Point Loads

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

Fig. 1 Working Areas



- These lines determine the limiting position of any load for operation within working areas indicated.
- Rated loads with Over End Blocked Crawlers only apply to the area of Over Idler End and Over Drive End, shown in Fig. 1.
- Lifting is approved only in those areas for which rated loads are shown on rating chart.

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



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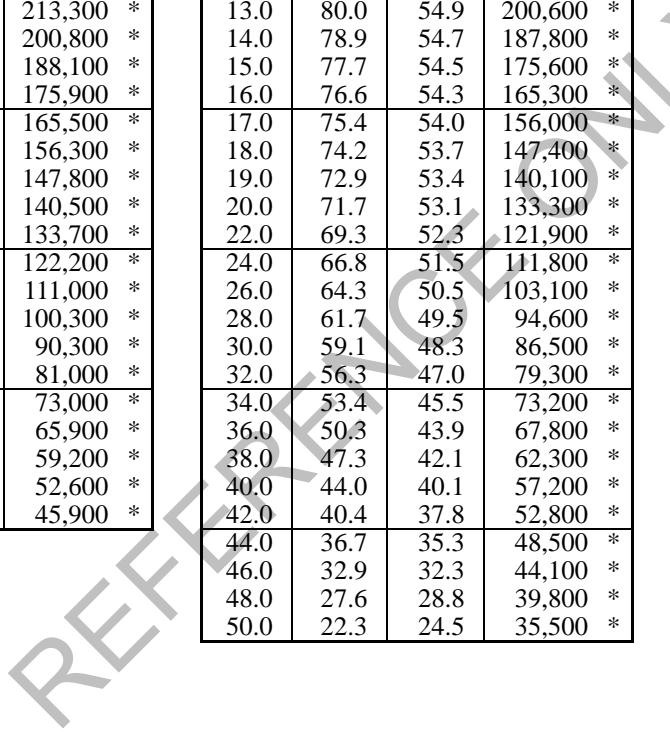


11000-1

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
40 ft Boom			
11.0	80.5	45.1	220,000 *
12.0	79.0	44.9	213,300 *
13.0	77.5	44.7	200,800 *
14.0	76.0	44.4	188,100 *
15.0	74.6	44.2	175,900 *
16.0	73.1	43.8	165,500 *
17.0	71.6	43.5	156,300 *
18.0	70.1	43.1	147,800 *
19.0	68.5	42.7	140,500 *
20.0	66.9	42.3	133,700 *
22.0	63.7	41.3	122,200 *
24.0	60.4	40.2	111,000 *
26.0	57.0	39.0	100,300 *
28.0	53.4	37.5	90,300 *
30.0	49.8	35.9	81,000 *
32.0	45.8	34.0	73,000 *
34.0	41.2	31.8	65,900 *
36.0	36.2	29.3	59,200 *
38.0	31.1	26.2	52,600 *
40.0	25.4	22.4	45,900 *

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
50 ft Boom			
12.0	81.2	55.1	213,200 *
13.0	80.0	54.9	200,600 *
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	133,300 *
22.0	69.3	52.3	121,900 *
24.0	66.8	51.5	111,800 *
26.0	64.3	50.5	103,100 *
28.0	61.7	49.5	94,600 *
30.0	59.1	48.3	86,500 *
32.0	56.3	47.0	79,300 *
34.0	53.4	45.5	73,200 *
36.0	50.3	43.9	67,800 *
38.0	47.3	42.1	62,300 *
40.0	44.0	40.1	57,200 *
42.0	40.4	37.8	52,800 *
44.0	36.7	35.3	48,500 *
46.0	32.9	32.3	44,100 *
48.0	27.6	28.8	39,800 *
50.0	22.3	24.5	35,500 *

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
60 ft Boom			
13.0	81.7	65.1	200,400 *
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	133,100 *
22.0	72.9	62.9	121,500 *
24.0	70.9	62.2	111,400 *
26.0	68.8	61.5	102,700 *
28.0	66.7	60.6	94,700 *
30.0	64.6	59.7	87,100
32.0	62.5	58.7	80,000
34.0	60.3	57.5	73,900
36.0	58.0	56.3	68,600
38.0	55.7	55.0	63,300
40.0	53.4	53.5	58,600
42.0	50.9	51.9	55,300
44.0	48.3	50.2	51,900
46.0	45.8	48.3	48,600
48.0	42.8	46.2	45,800
50.0	39.9	43.9	43,100 *
55.0	31.2	36.8	35,900 *
60.0	20.7	26.3	28,600 *



Manitowoc Cranes

Manitowoc, Wisconsin 54220 U.S.A.



Meets
ASME B30.5
Requirements

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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	133,100 *
22.0	75.4	73.4	121,500 *
24.0	73.7	72.8	111,500 *
26.0	72.0	72.1	102,900 *
28.0	70.3	71.4	94,900 *
30.0	68.5	70.6	87,200
32.0	66.7	69.8	80,300
34.0	64.9	68.9	74,400
36.0	63.0	67.9	69,100
38.0	61.2	66.8	63,800
40.0	59.3	65.6	59,100
42.0	57.3	64.3	55,600
44.0	55.3	63.0	52,200
46.0	53.3	61.5	48,800
48.0	51.2	59.9	46,500
50.0	49.0	58.2	44,100
55.0	43.2	53.3	39,000 *
60.0	36.9	47.3	34,500 *
65.0	29.2	39.4	29,700 *

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	132,800 *
22.0	77.3	83.7	121,300 *
24.0	75.8	83.2	110,600 *
26.0	74.3	82.6	100,800 *
28.0	72.8	82.0	92,900 *
30.0	71.2	81.3	85,600
32.0	69.7	80.6	79,600
34.0	68.2	79.8	74,000
36.0	66.6	79.0	68,700
38.0	65.1	78.0	63,500
40.0	63.5	77.1	58,800
42.0	61.8	76.0	55,400
44.0	60.2	74.9	52,000
46.0	58.5	73.7	48,600
48.0	56.8	72.4	46,200
50.0	55.1	71.0	43,800
55.0	50.5	67.1	38,500
60.0	45.7	62.6	34,400
65.0	40.4	57.1	31,000 *
70.0	34.3	50.4	28,100 *
75.0	26.9	41.9	24,500 *

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	101,500 *
26.0	76.1	93.0	92,300 *
28.0	74.8	92.4	85,000 *
30.0	73.5	91.9	78,300 *
32.0	72.1	91.2	72,900 *
34.0	70.8	90.5	67,800 *
36.0	69.4	89.8	63,300
38.0	68.0	89.0	58,600
40.0	66.6	88.1	54,400
42.0	65.2	87.2	51,300
44.0	63.8	86.2	48,100
46.0	62.4	85.2	45,000
48.0	60.9	84.1	42,700
50.0	59.4	82.9	40,400
55.0	55.7	79.7	38,300
60.0	51.7	76.0	34,100
65.0	47.4	71.6	30,800
70.0	42.9	66.6	28,000
75.0	37.9	60.6	25,600 *
80.0	32.2	53.4	23,300 *
85.0	25.7	44.2	20,600 *



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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	99,200 *
26.0	77.5	103.3	90,000 *
28.0	76.3	102.8	83,000 *
30.0	75.1	102.3	76,600 *
32.0	74.0	101.7	71,300 *
34.0	72.8	101.1	66,600 *
36.0	71.6	100.4	62,400
38.0	70.3	99.7	58,200
40.0	69.1	99.0	54,300
42.0	67.9	98.1	51,100
44.0	66.6	97.3	47,800
46.0	65.4	96.4	44,700
48.0	64.1	95.4	42,500
50.0	62.8	94.4	40,200
55.0	59.5	91.6	38,100
60.0	56.1	88.4	33,900
65.0	52.5	84.7	30,400
70.0	48.8	80.6	27,600
75.0	44.8	75.8	25,300
80.0	40.5	70.3	23,300 *
85.0	36.0	63.9	21,400 *
90.0	30.5	56.2	19,600 *
95.0	24.0	46.4	17,300 *

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	82,300 *
30.0	76.5	112.6	75,700 *
32.0	75.4	112.1	70,500 *
34.0	74.3	111.5	66,000 *
36.0	73.2	110.9	62,000
38.0	72.2	110.3	58,000
40.0	71.1	109.6	54,300
42.0	70.0	108.9	51,100
44.0	68.9	108.1	47,800
46.0	67.8	107.3	44,700
48.0	66.6	106.5	42,500
50.0	65.4	105.5	40,200
55.0	62.5	103.1	38,100
60.0	59.5	100.3	33,900
65.0	56.5	97.1	30,400
70.0	53.2	93.5	27,600
75.0	49.9	89.5	25,200
80.0	46.4	85.0	23,100
85.0	42.6	79.8	21,400
90.0	38.6	73.9	19,900
95.0	34.1	67.0	18,500 *
100.0	29.1	58.8	17,000 *
105.0	23.2	48.5	14,800 *

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	80,600 *
30.0	77.7	122.9	74,400 *
32.0	76.7	122.4	69,000 *
34.0	75.7	121.9	64,700 *
36.0	74.7	121.4	61,000 *
38.0	73.7	120.8	57,200 *
40.0	72.7	120.2	53,700 *
42.0	71.7	119.5	50,500
44.0	70.7	118.8	47,400
46.0	69.7	118.1	44,300
48.0	68.6	117.3	42,200
50.0	67.6	116.5	39,900
55.0	65.0	114.2	37,800
60.0	62.3	111.7	33,500
65.0	59.6	108.9	30,100
70.0	56.8	105.8	27,400
75.0	53.8	102.3	25,000
80.0	50.8	98.4	22,900
85.0	47.7	94.0	21,000
90.0	44.3	89.1	19,500
95.0	40.7	83.6	18,100
100.0	36.9	77.3	16,800 *
110.0	27.8	61.3	14,500 *
115.0	22.2	50.4	12,600 *

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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	73,000 *
32.0	77.7	132.7	67,700 *
34.0	76.9	132.2	63,600 *
36.0	75.9	131.7	59,800 *
38.0	75.0	131.2	56,100 *
40.0	74.1	130.6	52,700 *
42.0	73.2	130.0	49,800
44.0	72.2	129.4	47,000
46.0	71.3	128.7	44,100
48.0	70.4	128.0	41,900
50.0	69.4	127.3	39,800
55.0	67.1	125.2	37,600
60.0	64.6	122.9	33,300
65.0	62.2	120.4	29,900
70.0	59.6	117.6	27,100
75.0	57.0	114.5	24,700
80.0	54.3	111.0	22,600
85.0	51.6	107.2	20,800
90.0	48.7	103.0	19,300
95.0	45.6	98.3	17,800
100.0	42.4	93.0	16,600
110.0	35.4	80.5	14,600 *
120.0	26.6	63.7	12,500 *
125.0	21.3	52.3	10,800 *

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
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	61,500 *
36.0	76.9	142.0	58,200 *
38.0	76.1	141.5	54,800 *
40.0	75.2	141.0	51,800 *
42.0	74.4	140.4	49,100
44.0	73.5	139.9	46,500
46.0	72.7	139.2	43,900
48.0	71.8	138.6	41,600
50.0	71.0	137.9	39,400
55.0	68.8	136.0	37,200
60.0	66.6	134.0	33,000
65.0	64.3	131.6	29,500
70.0	62.0	129.1	26,700
75.0	59.7	126.2	24,300
80.0	57.3	123.1	22,200
85.0	54.8	119.7	20,300
90.0	52.2	116.0	18,800
95.0	49.5	111.9	17,500
100.0	46.8	107.3	16,300
110.0	40.8	96.8	14,200
120.0	34.0	83.6	12,500 *
130.0	25.7	66.0	10,600 *
135.0	20.5	54.1	9,100 *

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	48,100 *
42.0	75.5	150.8	45,800 *
44.0	74.7	150.3	43,400 *
46.0	73.9	149.7	41,100 *
48.0	73.1	149.1	39,100
50.0	72.3	148.5	37,200
55.0	70.3	146.7	35,000
60.0	68.2	144.8	32,800
65.0	66.2	142.7	29,500
70.0	64.0	140.3	26,700
75.0	61.9	137.7	24,200
80.0	59.6	134.9	22,000
85.0	57.4	131.8	20,300
90.0	55.2	128.4	18,800
95.0	52.8	124.8	17,400
100.0	50.3	120.7	16,100
110.0	45.1	111.5	13,900
120.0	39.3	100.4	12,300
130.0	32.8	86.6	10,900 *
140.0	24.3	68.2	9,000 *



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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	39,900 *
48.0	74.1	159.5	37,700
50.0	73.4	158.9	35,500
55.0	71.5	157.3	33,300
60.0	69.6	155.5	31,100
65.0	67.7	153.6	29,500
70.0	65.8	151.4	26,700
75.0	63.8	149.0	24,100
80.0	61.8	146.4	22,200
85.0	59.7	143.6	20,300
90.0	57.6	140.5	18,800
95.0	55.4	137.1	17,400
100.0	53.2	133.5	16,100
110.0	48.6	125.3	14,100
120.0	43.6	115.6	12,300
130.0	38.1	103.9	10,900 *
140.0	31.6	89.5	9,400 *
150.0	23.7	70.4	7,600 *

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
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	33,400 *
60.0	70.9	166.2	31,400 *
65.0	69.1	164.3	29,200
70.0	67.3	162.3	26,500
75.0	65.4	160.1	24,100
80.0	63.5	157.7	22,000
85.0	61.6	155.1	20,100
90.0	59.7	152.2	18,600
95.0	57.8	149.2	17,200
100.0	55.8	145.8	15,900
110.0	51.5	138.4	13,700
120.0	47.0	129.7	12,000
130.0	42.2	119.5	10,700
140.0	36.8	107.3	9,500 *
150.0	30.5	92.2	8,100 *
160.0	23.2	72.5	6,500 *

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	29,300 *
65.0	70.3	175.0	27,300 *
70.0	68.6	173.1	25,400
75.0	66.9	171.0	23,600
80.0	65.2	168.8	21,800
85.0	63.4	166.4	19,900
90.0	61.6	163.7	18,400
95.0	59.8	160.9	17,000
100.0	57.9	157.8	15,700
110.0	54.0	151.0	13,500
120.0	49.9	143.1	11,800
130.0	45.6	134.0	10,300 *
140.0	40.9	123.3	9,100 *
150.0	35.7	110.5	7,700 *
160.0	29.7	94.9	6,200 *
165.0	26.5	85.5	5,400 *

Manitowoc Cranes

Manitowoc, Wisconsin 54220 U.S.A.



Liftcrane Boom Capacities

69,000 lb Crane Counterweight
 31,700 lb Carbody Counterweight
 Rating Over End of Blocked Crawlers
 Extended Position Crawlers
 NO TRAVEL - LIMITED SWING

Meets
 ASME B30.5
 Requirements

11000-1

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	22,700 *
75.0	68.2	181.9	21,100 *
80.0	66.5	179.8	19,700 *
85.0	64.9	177.5	18,300 *
90.0	63.2	175.0	17,100 *
95.0	61.5	172.4	16,000 *
100.0	59.7	169.5	14,800 *
110.0	56.2	163.2	12,800 *
120.0	52.5	156.0	11,100 *
130.0	48.5	147.7	9,400 *
140.0	44.3	138.1	8,000 *
150.0	39.7	126.9	6,700 *
160.0	34.8	113.7	5,300 *
165.0	32.1	106.1	4,600 *

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	13,600 *
100.0	61.4	181.0	12,600 *
110.0	58.1	175.2	10,800 *
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 *