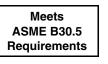
Manitowoc Cranes

Manitowoc, Wisconsin 54220 U.S.A.

## Liftcrane Boom Capacities

26,630 lb Crane Counterweight Extended Position Crawlers 360 Degree Rating



below.



#### 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 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).
- 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 lbs. In all cases, upper boom point capacities cannot exceed those listed for Liftcrane Boom capacity reduced by 420 lbs.

## 10. When lifting over boom point with jib or upper boom point, rated loads for the boom must be reduced as shown

**10000 SERIES 1** 

Jib length	Upper Boom Point	30 ft	40 ft	50 ft	60 ft
Deduct (lb)	420		Not app	plicable	

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).

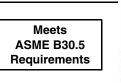
B. Travel surface must be firm, level and uniformly supporting. Capacity charts are based on static conditions; therefore judgment must be used to allow for dynamic effects of traveling with load. Carry load as close to ground as possible. Stabilize load with taglines. Travel slowly and smoothly to avoid shock loading boom, jib and rigging.

13. Jib installation is prohibited.

Manitowoc, Wisconsin 54220 U.S.A.

## Liftcrane Boom Capacities

26,630 lb Crane Counterweight Extended Position Crawlers 360 Degree Rating





## 10000 SERIES 1

#### **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.

#### Maximum Boom Lengths Lifted Unassisted

Over End of Crawlers

160 ft

Load block, hook and weight ball on ground at start.

2. See Operator Manual Section 6 for Wire Rope Specifications.

 Machine equipped with 20 ft 8 in. crawlers, 36 in. treads, 12 parts of boom hoist reeving and 26,630 lb crane counterweight.

#### Hoist Reeving for Main Boom Loads

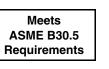
No. of Parts of Line	1	2	• 3	4
Maximum Loads (lb)	25,000	50,000	75,000	100,000

No. of Parts		
of Line 5 6	7	8
Maximum Loads (lb) 125,000 150,000 1	175,000	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.

# Liftcrane Boom Capacities 26,630 lb Crane Counterweight Extended Position Crawlers 360 Degree Rating





## **10000 SERIES 1**

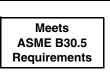
Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
	40 f	t Boo	m
10.0	81.9	45.3	200,000 *
11.0	80.5	45.1	200,000 *
12.0	79.0	44.9	184,520
13.0	77.5	44.7	152,550
14.0	76.1	44.4	130,070
15.0	74.6	44.2	113,090
16.0	73.1	43.8	100,080
17.0	71.5	43.5	89,720
18.0	70.0	43.1	81,120
19.0	68.5	42.7	74,070
20.0	66.9	42.3	68,120
22.0	63.7	41.3	58,640
24.0	60.5	40.2	51,360
26.0	57.1	39.0	45,630
28.0	53.5	37.5	41,000
30.0	49.8	35.9	37,250
32.0	45.9	34.0	33,950
34.0	41.7 37.0	31.8 29.3	31,300
36.0 38.0	31.8	29.3 26.2	29,100 27,110
40.0	25.7	20.2 22.4	25,350
40.0		t Boo	
12.0	81.2	55.1	184,520
12.0	80.1	55.1 54.9	152,550
13.0	78.9	54.9 54.7	129,850
14.0	77.7	54.5	113,090
16.0	76.5	54.3	99,860
17.0	75.4	54.0	89,500
18.0	74.2	53.7	81,120
19.0	73.0	53.4	73,850
20.0	71.7	53.1	67,900
22.0	69.3	52.3	58,420
24.0	66.8	51.5	51,140
26.0	64.3	50.5	45,410
28.0	61.7	49.5	40,780
30.0	59.0	48.3	37,030
32.0	56.3	47.0	33,730
34.0	53.5	45.5	31,080
36.0	50.5	43.9	28,650
38.0	47.4	42.1	26,670
40.0	44.2	40.1	24,910
45.0	35.0	33.9	21,160
50.0	22.8	24.5	18,510

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)		
	60 f	t Boo	m		
13.0	81.7	65.1	152,550		
14.0	80.8	64.9	129,850		
15.0	79.8	64.7	112,870		
16.0	78.8	64.5	99,860		
17.0	77.8	64.3	89,280		
18.0	76.9	64.1	80,900		
19.0	75.9	63.8	73,630		
20.0	74.9	63.5	67,680		
22.0	72.9	62.9	58,200		
24.0	70.9	62.2	50,920		
26.0	68.8	61.5	45,190		
28.0	66.8	60.6	40,340		
30.0	64.6	59.7	36,590		
32.0	62.5	58.7	33,500		
34.0	60.3	57.5	30,640		
36.0	58.1	56.3	28,430		
38.0	55.8	55.0	26,230		
40.0	53.4	53.5	24,470		
45.0	47.1	49.3	20,940		
50.0	40.1	43.9	18,070		
55.0	31.8	36.8	15,870		
60.0	20.7	26.3	14,320		
70 ft Boom					
15.0	81.3	74.9	112,870		
16.0	80.4	74.7	99,860		
17.0	79.6	74.5	89,280		
18.0	78.8	74.3	80,900		
19.0	77.9	74.1	73,630		
20.0	77.1	73.9	67,680		
22.0	75.4	73.4	58,200		
24.0	73.7	72.8	50,700		
26.0	72.0	72.1	44,970		
28.0	70.2	71.4	40,340		
30.0	68.5	70.6	36,590		
32.0	66.7	69.8	33,280		
34.0	64.9	68.9	30,640		
36.0	63.1	67.9	28,210		
38.0	61.2	66.8	26,230		
40.0	59.3	65.6	24,470		
45.0	54.4	62.3	20,720		
50.0	49.1	58.2	17,850		
55.0	43.4	53.3	15,650		
60.0	37.0	47.3	13,880		
65.0	29.4	39.4	12,560		

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
	80 f	t Boo	m
16.0	81.6	84.8	99,640
17.0	80.9	84.7	89,060
18.0	80.2	84.5	80,680
19.0	79.5	84.3	73,410
20.0	78.7	84.1	67,460
22.0	77.3	83.7	57,980
24.0	75.8	83.2	50,480
26.0	74.3	82.6	44,750
28.0	72.8	82.0	40,120
30.0	71.3	81.3	36,370
32.0	69.8	80.6	33,060
34.0	68.2	79.8	30,200
36.0	66.7	79.0	27,990
38.0	65.1	78.0	25,790
40.0	63.5	77.1	24,020
45.0	59.4	74.3	20,500
50.0	55.1	71.0	17,630
55.0	50.6	67.1	15,430
60.0	45.7	62.6	13,660
65.0	40.4	57.1	12,120
70.0	34.5	50.4	11,020
75.0	27.4	41.9	9,920

## **Liftcrane Boom Capacities**

26,630 lb Crane Counterweight Extended Position Crawlers 360 Degree Rating





## **10000 SERIES 1**

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)				
(-1)	90 ft Boom						
17.0	81.9	94.8	89,060				
18.0	81.3	94.7	80,460				
19.0	80.6	94.5	73,410				
20.0	80.0	94.3	67,460				
22.0	78.7	93.9	57,760				
24.0	77.4	93.5	50,480				
26.0	76.1	93.0	44,750				
28.0	74.8	92.4	39,900				
30.0	73.4	91.9	36,150				
32.0	72.1	91.2	32,840				
34.0	70.8	90.5	30,200				
36.0	69.4	89.8	27,770				
38.0	68.0	89.0	25,790				
40.0	66.6	88.1	24,020				
45.0	63.1	85.7	20,280				
50.0	59.5	82.9	17,410				
55.0	55.7	79.7	15,210				
60.0	51.7	76.0	13,440				
65.0 70.0	47.5	71.6	11,900				
70.0	43.0 38.0	66.6 60.6	10,800 9,700				
80.0	38.0 32.4	53.4	9,700 8,810				
80.0 85.0	25.8	44.2	7,930				
65.0							
10.0		ft Boc					
19.0	81.6	104.6	73,190				
20.0	81.0	104.5	67,230				
22.0 24.0	79.8 78.7	104.1 103.7	57,530				
24.0 26.0		103.7	50,260 44,310				
28.0	77.5	103.3	39,680				
28.0	76.5	102.8	39,080				
30.0	73.9	102.3	32,620				
32.0	72.7	101.7	29,980				
36.0	71.5	101.1	29,980 27,550				
38.0	70.3	99.7	25,350				
40.0	69.1	99.0	23,580				
45.0	66.0	96.8	19,840				
50.0	62.8	94.4	17,190				
55.0	59.5	91.6	14,990				

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)				
	100 ft Boom						
60.0	56.1	88.4	13,000				
65.0	52.6	84.7	11,680				
70.0	48.8	80.6	10,360				
75.0	44.9	75.8	9,250				
80.0	40.6	70.3	8,370				
85.0	36.0	63.9	7,710				
90.0	30.7	56.2	7,050				
95.0	24.4	46.4	6,390				
	110	ft Boc	om				
20.0	81.8	114.6	67,230				
22.0	80.8	114.3	57,530				
24.0	79.7	113.9	50,260				
26.0	78.7	113.5	44,530				
28.0	77.6	113.1	39,680				
30.0	76.5	112.6	35,930				
32.0	75.4	112.1	32,620				
34.0	74.4	111.5	29,980				
36.0	73.3	110.9	27,550				
38.0	72.2	110.3	25,350				
40.0	71.1	109.6	23,580				
45.0	68.3	107.7	19,840				
50.0	65.5	105.5	17,190				
55.0	62.6	103.1	14,770				
60.0	59.6	100.3	13,000				
65.0	56.5	97.1	11,460				
70.0	53.3	93.5	10,360				
75.0	49.9	89.5	9,250				
80.0	46.4	85.0	8,370				
85.0	42.7	79.8	7,490				
90.0	38.6	73.9	6,830				
95.0	34.2	67.0	6,390				
100.0	29.2	58.8	5,730				
105.0	23.2	48.5	5,290				
	120	ft Boo	om				
22.0	81.6	124.4	57,310				
24.0	80.6	124.1	50,040				
26.0	79.6	123.7	44,310				
28.0	78.6	123.3	39,460				
30.0	77.7	122.9	35,710				
32.0	76.7	122.4	32,400				
34.0	75.7	121.9	29,540				
36.0	74.7	121.4	27,330				
38.0	73.7	120.8	25,130				
40.0	72.7	120.2	23,360				

· · · · · · · · · · · · · · · · · · ·					
	-	Boom	• • • • •		
Load	Boom	Point	360°		
Radius	Angle	Elev.	Rated Load		
(ft)	(deg)	(ft)	(lb)		
	120	ft Boc	m		
45.0	70.2	118.4	19,620		
50.0	67.6	116.5	16,750		
55.0	65.0	114.2	14,550		
60.0	62.3	111.7	12,780		
65.0	59.6	108.9	11,240		
70.0	56.8	105.8	9,920		
75.0	53.9	102.3	9,030		
80.0	50.8	98.4	7,930		
85.0	47.7	94.0	7,270		
90.0	44.3	89.1	6,610		
95.0	40.8	83.6 77.3	5,950 5,510		
100.0 105.0	36.9 32.7	77.3	5,510 4,850		
105.0	27.9	61.3	4,830 4,400		
115.0	27.9	50.4	4,400 4,180		
115.0	130				
24.0	81.3	134.2	50,040		
24.0 26.0	81.3	134.2	44,090		
28.0	79.5	133.5	39,460		
30.0	78.6	133.1	35,710		
32.0	77.7	132.7	32,400		
34.0	76.8	132.2	29,540		
36.0	75.9	131.7	27,110		
38.0	75.0	131.2	25,130		
40.0	74.1	130.6	23,360		
45.0	71.8	129.0	19,620		
50.0	69.4	127.3	16,750		
55.0	67.1	125.2	14,550		
60.0	64.6	122.9	12,780		
65.0	62.2	120.4	11,240		
70.0	59.6	117.6	9,920		
75.0	57.0	114.5	8,810		
80.0	54.4	111.0	7,930		
85.0	51.6	107.2	7,050		
90.0	48.7	103.0	6,390		
95.0	45.7	98.3	5,730		
100.0	42.5	93.0 87.2	5,290 4,850		
105.0	39.1 35.4	87.2 80.5	4,850 4,180		
110.0 115.0	33.4 31.4	80.3 72.8	4,180 3,740		
120.0	26.8	63.7	3,740 3,520		
120.0	20.8	52.3	3,080		
123.0	21.5	52.5	5,000		

# Liftcrane Boom Capacities 26,630 lb Crane Counterweight Extended Position Crawlers 360 Degree Rating





## **10000 SERIES 1**

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
	140	ft Boo	om
24.0	81.9	144.3	49,820
26.0	81.1	144.0	43,870
28.0	80.3	143.7	39,240
30.0	79.4	143.3	35,270
32.0	78.6	142.9	32,180
34.0	77.8	142.5	29,320
36.0	76.9	142.0	26,890
38.0	76.1	141.5	24,910
40.0	75.2	141.0	22,920
45.0	73.1	139.6	19,400
50.0	71.0	137.9	16,530
55.0	68.8	136.0	14,100
60.0	66.6	134.0	12,340
65.0	64.3	131.6	10,800
70.0	62.0	129.1	9,700
75.0	59.7	126.2	8,590
80.0	57.2	123.1	7,710
85.0	54.8	119.7	6,830
90.0	52.2	116.0	6,170
95.0	49.6	111.9	5,510
100.0	46.8	107.3	4,850
105.0	43.9	102.3	4,400
110.0	40.9	96.8	3,960
115.0	37.6	90.6	3,520
120.0	34.1	83.6	3,080

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
	150	ft Boc	m
26.0	81.7	154.1	43,870
28.0	80.9	153.8	39,020
30.0	80.2	153.5	35,270
32.0	79.4	153.1	31,960
34.0	78.6	152.7	29,100
36.0	77.8	152.3	26,670
38.0	77.0	151.8	24,690
40.0	76.3	151.3	22,920
45.0	74.3	150.0	19,170
50.0	72.3	148.5	16,310
55.0	70.3	146.7	14,100
60.0	68.2	144.8	12,120
65.0	66.1	142.7	10,800
70.0	64.0	140.3	9,470
75.0	61.9	137.7	8,370
80.0	59.7	134.9	7,490
85.0	57.4	131.8	6,610
90.0	55.1	128.4	5,950
95.0	52.8	124.8	5,290
100.0	50.3	120.7	4,620
105.0	47.8	116.4	4,180
110.0	45.1	111.5	3,740
115.0	42.3	106.3	3,300

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
160 ft Boom			
28.0	81.5	163.9	39,020
30.0	80.8	163.6	35,270
32.0	80.1	163.3	31,960
34.0	79.3	162.9	29,100
36.0	78.6	162.5	26,670
38.0	77.9	162.1	24,690
40.0	77.1	161.6	22,920
45.0	75.3	160.4	19,170
50.0	73.4	158.9	16,310
55.0	71.5	157.3	13,880
60.0	69.6	155.5	12,120
65.0	67.7	153.6	10,580
70.0	65.8	151.4	9,470
75.0	63.8	149.0	8,370
80.0	61.8	146.4	7,270
85.0	59.7	143.6	6,610
90.0	57.6	140.5	5,730
95.0	55.4	137.1	5,070
100.0	53.2	133.5	4,620
105.0	51.0	129.6	3,960
110.0	48.6	125.3	3,520
115.0	46.2	120.7	3,080