



Liftcrane Boom Capacities

See Chart for Crane Counterweight
Extended Position Crawlers
360 Degree Rating

12000

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 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. In all cases, upper boom point capacities cannot exceed those listed for Liftcrane Boom capacity reduced by 850 lb.
10. When lifting over boom point with upper point, rated loads for the boom must be reduced as shown below.

Upper Boom Point	
Deduct (lb)	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 and rigging.

Hoist Reeving for Upper Boom Point

No. of Parts of Line	1	2
Maximum Loads (lb)	25,000	50,000



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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.

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

4. Machine equipped with 22 ft. 2 in. crawlers, 36 in. treads, 10 parts of boom hoist reeving, 75,000 lbs. crane counterweight.

Hoist Reeving for Main Boom Loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (lb)	25,000	50,000	75,000	100,000	125,000

No. of Parts of Line	6	7	8	9	10
Maximum Loads (lb)	150,000	175,000	200,000	225,000	240,000

Maximum Boom Lengths Lifted Unassisted		
Over End of Crawlers		
Counterweight (lb)	Boom Length	
	With Upper Point	Without Upper Point
0	120 ft	130 ft
22,000	150 ft	160 ft
44,100	170 ft	180 ft
59,500	190 ft	200 ft
Load block, hook and weight ball on ground at start.		

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 (lbs)				Load Radius (ft)
			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
50 Ft. Boom							
12.0	81.4	56.5	164,300	182,100	196,500	212,300	12.0
13.0	80.2	56.3	133,100	168,100	184,200	196,700	13.0
14.0	79.0	56.1	116,300	155,400	172,300	183,900	14.0
15.0	77.9	55.9	101,400	141,400	161,000	171,900	15.0
16.0	76.7	55.7	86,400	122,300	151,000	161,700	16.0
17.0	75.5	55.4	76,300	108,800	141,100	152,600	17.0
18.0	74.3	55.1	69,000	98,700	130,700	143,900	18.0
19.0	73.1	54.8	62,400	89,500	118,500	136,600	19.0
20.0	71.9	54.5	56,400	81,100	107,400	128,600	20.0
22.0	69.5	53.7	48,400	69,800	92,800	111,100	22.0
24.0	67.0	52.9	41,800	60,600	80,800	96,800	24.0
26.0	64.4	51.9	36,700	53,300	71,200	85,400	26.0
28.0	61.8	50.9	32,900	47,900	64,200	77,000	28.0
30.0	59.2	49.7	29,500	43,200	57,900	69,500	30.0
32.0	56.4	48.4	26,800	39,400	52,900	63,600	32.0
34.0	53.6	46.9	24,600	36,300	48,800	58,800	34.0
36.0	50.7	45.3	22,700	33,700	45,400	54,700	36.0
38.0	47.6	43.5	20,900	31,100	42,000	50,600	38.0
40.0	44.3	41.5	19,200	28,700	38,900	46,900	40.0
45.0	35.2	35.3	16,000	24,200	33,200	40,300	45.0

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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)				Load Radius (ft)
			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
60 Ft. Boom							
13.5	81.4	66.4	121,300	160,900	177,500	189,400	13.5
14.0	80.9	66.3	113,900	154,700	171,600	183,200	14.0
15.0	79.9	66.1	99,900	141,200	160,700	171,700	15.0
16.0	78.9	65.9	86,000	122,200	150,600	161,500	16.0
17.0	78.0	65.7	76,300	108,700	140,800	152,300	17.0
18.0	77.0	65.5	69,000	98,500	130,700	143,500	18.0
19.0	76.0	65.2	62,300	89,300	118,500	136,200	19.0
20.0	75.0	64.9	56,200	80,800	107,400	128,200	20.0
22.0	73.0	64.3	48,300	69,600	92,600	110,800	22.0
24.0	71.0	63.7	41,800	60,400	80,600	96,600	24.0
26.0	69.0	62.9	36,500	53,100	71,000	85,100	26.0
28.0	66.9	62.0	32,700	47,700	63,900	76,800	28.0
30.0	64.8	61.1	29,300	42,900	57,600	69,300	30.0
32.0	62.6	60.1	26,400	39,000	52,700	63,200	32.0
34.0	60.4	59.0	24,200	35,900	48,600	58,400	34.0
36.0	58.2	57.7	22,400	33,200	45,100	54,400	36.0
38.0	55.9	56.4	20,600	30,600	41,600	50,300	38.0
40.0	53.5	54.9	18,900	28,300	38,500	46,700	40.0
45.0	47.2	50.7	15,800	24,100	32,900	40,000	45.0
50.0	40.2	45.3	13,500	20,900	28,600	34,900	50.0
55.0	31.9	38.2	11,600	18,000	24,900	30,600	55.0



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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)				Load Radius (ft)
			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
70 Ft. Boom							
15.0	81.4	76.3	96,300	137,100	160,700	171,600	15.0
16.0	80.5	76.1	84,800	120,800	150,300	161,000	16.0
17.0	79.7	75.9	76,300	108,700	140,700	151,900	17.0
18.0	78.9	75.7	69,000	98,500	130,700	143,000	18.0
19.0	78.0	75.5	62,300	89,300	118,500	135,800	19.0
20.0	77.2	75.3	56,200	80,800	107,400	128,000	20.0
22.0	75.5	74.8	48,200	69,600	92,600	110,600	22.0
24.0	73.8	74.2	41,600	60,300	80,500	96,400	24.0
26.0	72.1	73.5	36,300	52,900	70,800	85,100	26.0
28.0	70.3	72.8	32,500	47,500	63,700	76,700	28.0
30.0	68.6	72.1	29,100	42,700	57,400	69,100	30.0
32.0	66.8	71.2	26,400	38,900	52,400	63,200	32.0
34.0	65.0	70.3	24,200	35,800	48,400	58,400	34.0
36.0	63.2	69.3	22,300	33,100	44,900	54,300	36.0
38.0	61.3	68.2	20,400	30,500	41,400	50,200	38.0
40.0	59.4	67.0	18,700	28,100	38,300	46,500	40.0
45.0	54.5	63.7	15,500	23,900	32,700	39,600	45.0
50.0	49.2	59.6	13,300	20,500	28,400	34,500	50.0
55.0	43.5	54.8	11,500	17,800	24,900	30,400	55.0
60.0	37.1	48.7	9,700	15,600	22,000	26,800	60.0

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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)				Load Radius (ft)
			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
80 Ft. Boom							
16.5	81.4	86.2	79,100	113,100	145,900	156,000	16.5
17.0	81.0	86.1	75,500	108,100	140,600	151,600	17.0
18.0	80.3	85.9	68,500	98,100	130,000	143,000	18.0
19.0	79.6	85.7	62,000	88,900	118,100	135,700	19.0
20.0	78.8	85.5	56,000	80,600	107,200	127,700	20.0
22.0	77.4	85.1	47,900	69,300	92,400	110,400	22.0
24.0	75.9	84.6	41,300	60,100	80,300	96,100	24.0
26.0	74.4	84.0	36,100	52,700	70,600	84,700	26.0
28.0	72.9	83.4	32,100	47,300	63,500	76,200	28.0
30.0	71.4	82.7	28,600	42,500	57,200	68,700	30.0
32.0	69.9	82.0	25,900	38,600	52,100	62,700	32.0
34.0	68.3	81.2	23,700	35,400	48,000	57,900	34.0
36.0	66.8	80.4	21,900	32,800	44,500	53,800	36.0
38.0	65.2	79.5	20,000	30,200	41,100	49,700	38.0
40.0	63.6	78.5	18,300	27,800	38,000	46,100	40.0
45.0	59.5	75.7	15,300	23,500	32,300	39,300	45.0
50.0	55.2	72.4	12,900	20,200	28,000	34,300	50.0
55.0	50.7	68.5	11,000	17,500	24,500	30,100	55.0
60.0	45.8	64.0	9,400	15,300	21,800	26,700	60.0
65.0	40.5	58.5	8,300	13,600	19,400	23,900	65.0
70.0	34.6	51.9	7,200	12,100	17,400	21,800	70.0



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			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
90 Ft. Boom							
18.0	81.4	96.1	67,300	96,700	128,200	143,400	18.0
19.0	80.7	95.9	61,400	88,000	116,900	135,300	19.0
20.0	80.1	95.7	56,200	80,600	107,200	127,400	20.0
22.0	78.8	95.3	48,000	69,300	92,400	110,400	22.0
24.0	77.5	94.9	41,300	60,100	80,300	96,300	24.0
26.0	76.2	94.4	36,100	52,700	70,600	84,700	26.0
28.0	74.8	93.9	32,300	47,300	63,500	76,300	28.0
30.0	73.5	93.3	28,800	42,500	57,200	68,800	30.0
32.0	72.2	92.6	26,000	38,600	52,100	62,800	32.0
34.0	70.8	91.9	23,700	35,400	48,000	57,900	34.0
36.0	69.5	91.2	21,900	32,800	44,500	53,800	36.0
38.0	68.1	90.4	20,000	30,200	41,100	49,700	38.0
40.0	66.7	89.5	18,300	27,800	38,000	46,100	40.0
45.0	63.2	87.1	15,300	23,500	32,300	39,300	45.0
50.0	59.5	84.3	12,800	20,100	28,000	34,100	50.0
55.0	55.8	81.1	10,900	17,400	24,400	29,900	55.0
60.0	51.8	77.4	9,400	15,300	21,600	26,600	60.0
65.0	47.6	73.0	8,100	13,400	19,200	23,900	65.0
70.0	43.0	68.0	7,200	12,000	17,300	21,600	70.0
75.0	38.1	62.0	6,300	10,800	15,700	19,600	75.0
80.0	32.5	54.8	5,500	9,700	14,300	17,800	80.0

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			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
100 Ft. Boom							
19.5	81.4	106.0	58,200	83,700	111,200	131,700	19.5
20.0	81.1	105.9	56,000	80,600	107,200	127,100	20.0
22.0	79.9	105.5	47,900	69,200	92,300	110,200	22.0
24.0	78.8	105.1	41,300	59,800	80,000	96,100	24.0
26.0	77.6	104.7	35,900	52,400	70,400	84,700	26.0
28.0	76.4	104.2	32,000	47,100	63,300	76,200	28.0
30.0	75.2	103.7	28,600	42,200	56,900	68,600	30.0
32.0	74.0	103.1	25,800	38,300	51,800	62,600	32.0
34.0	72.8	102.5	23,500	35,200	47,700	57,700	34.0
36.0	71.6	101.8	21,600	32,600	44,300	53,600	36.0
38.0	70.4	101.1	19,800	30,000	40,900	49,500	38.0
40.0	69.2	100.4	18,100	27,600	37,800	45,800	40.0
45.0	66.1	98.3	14,900	23,300	32,100	39,100	45.0
50.0	62.9	95.8	12,500	19,800	27,800	33,900	50.0
55.0	59.6	93.0	10,700	17,200	24,200	29,700	55.0
60.0	56.2	89.8	9,200	15,000	21,300	26,300	60.0
65.0	52.6	86.2	7,800	13,200	19,000	23,500	65.0
70.0	48.9	82.0	6,800	11,800	17,100	21,200	70.0
75.0	45.0	77.2	6,000	10,500	15,400	19,300	75.0
80.0	40.7	71.8	5,200	9,400	14,000	17,600	80.0
85.0	36.0	65.3	4,400	8,600	12,800	16,100	85.0
90.0	30.8	57.6	3,900	7,700	11,600	14,700	90.0



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			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
110 Ft. Boom							
20.9	81.4	115.9	50,700	73,400	97,800	117,200	20.9
22.0	80.8	115.7	47,100	68,300	91,200	109,400	22.0
24.0	79.8	115.3	40,900	59,600	79,800	95,800	24.0
26.0	78.7	114.9	35,600	52,200	70,100	84,300	26.0
28.0	77.7	114.5	31,700	46,700	62,900	75,800	28.0
30.0	76.6	114.0	28,200	41,800	56,500	68,200	30.0
32.0	75.5	113.5	25,500	38,100	51,600	62,300	32.0
34.0	74.4	112.9	23,300	34,900	47,500	57,400	34.0
36.0	73.3	112.3	21,300	32,300	44,000	53,300	36.0
38.0	72.3	111.7	19,400	29,600	40,500	49,100	38.0
40.0	71.2	111.0	17,600	27,200	37,400	45,400	40.0
45.0	68.4	109.1	14,600	22,800	31,700	38,700	45.0
50.0	65.5	107.0	12,300	19,400	27,300	33,500	50.0
55.0	62.6	104.5	10,400	16,700	23,800	29,300	55.0
60.0	59.6	101.7	8,700	14,600	20,900	25,900	60.0
65.0	56.5	98.5	7,400	12,700	18,500	23,200	65.0
70.0	53.3	94.9	6,300	11,300	16,600	20,800	70.0
75.0	50.0	90.9	5,400	10,100	15,000	18,800	75.0
80.0	46.5	86.4	4,600	9,000	13,500	17,200	80.0
85.0	42.7	81.2	4,000	8,200	12,400	15,700	85.0
90.0	38.7	75.3	3,400	7,300	11,300	14,500	90.0
95.0	34.3	68.4		6,600	10,300	13,400	95.0

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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)				Load Radius (ft)
			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
120 Ft. Boom							
22.4	81.4	125.7	45,200	65,500	87,600	105,200	22.4
24.0	80.6	125.5	41,000	59,600	79,800	95,800	24.0
26.0	79.7	125.1	35,700	52,200	70,100	84,300	26.0
28.0	78.7	124.7	31,800	46,800	63,100	75,800	28.0
30.0	77.7	124.3	28,400	42,000	56,700	68,200	30.0
32.0	76.7	123.8	25,600	38,100	51,600	62,300	32.0
34.0	75.8	123.3	23,300	34,900	47,500	57,500	34.0
36.0	74.8	122.8	21,400	32,300	44,000	53,400	36.0
38.0	73.8	122.2	19,500	29,600	40,500	49,300	38.0
40.0	72.8	121.6	17,800	27,200	37,400	45,600	40.0
45.0	70.3	119.9	14,700	22,800	31,700	38,700	45.0
50.0	67.7	117.9	12,300	19,500	27,300	33,500	50.0
55.0	65.1	115.7	10,400	16,800	23,800	29,300	55.0
60.0	62.4	113.1	8,700	14,600	20,900	25,900	60.0
65.0	59.7	110.3	7,400	12,700	18,500	23,200	65.0
70.0	56.8	107.2	6,300	11,300	16,600	20,800	70.0
75.0	53.9	103.7	5,400	10,100	15,000	18,800	75.0
80.0	50.9	99.8	4,600	9,000	13,500	17,200	80.0
85.0	47.7	95.4	4,000	7,900	12,400	15,700	85.0
90.0	44.4	90.5		7,300	11,300	14,500	90.0
95.0	40.8	85.0		6,600	10,300	13,300	95.0
100.0	37.0	78.7		6,000	9,400	12,300	100.0
105.0	32.8	71.4		5,500	8,800	11,400	105.0



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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)				Load Radius (ft)
			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
130 Ft. Boom							
23.9	81.4	135.6	40,000	59,000	79,000	95,000	23.9
24.0	81.4	135.6	40,000	59,000	79,000	95,000	24.0
26.0	80.5	135.3	35,600	52,200	70,100	84,200	26.0
28.0	79.6	134.9	31,700	46,700	62,900	75,800	28.0
30.0	78.7	134.5	28,200	41,800	56,500	68,200	30.0
32.0	77.8	134.1	25,300	37,900	51,600	62,100	32.0
34.0	76.9	133.6	23,100	34,700	47,500	57,300	34.0
36.0	76.0	133.1	21,200	32,000	44,000	53,200	36.0
38.0	75.1	132.6	19,300	29,300	40,500	49,100	38.0
40.0	74.1	132.0	17,600	27,000	37,300	45,400	40.0
45.0	71.8	130.5	14,400	22,600	31,500	38,500	45.0
50.0	69.5	128.7	12,100	19,300	27,100	33,400	50.0
55.0	67.1	126.6	10,100	16,600	23,600	29,200	55.0
60.0	64.7	124.4	8,500	14,400	20,700	25,700	60.0
65.0	62.2	121.8	7,200	12,500	18,300	23,000	65.0
70.0	59.7	119.0	6,100	11,100	16,400	20,600	70.0
75.0	57.1	115.9	5,200	9,900	14,700	18,600	75.0
80.0	54.4	112.4	4,400	8,700	13,300	17,000	80.0
85.0	51.6	108.6	3,500	7,700	12,100	15,500	85.0
90.0	48.8	104.4		7,000	11,000	14,100	90.0
95.0	45.7	99.7		6,400	10,000	13,000	95.0
100.0	42.5	94.5		5,700	9,200	12,000	100.0
105.0	39.1	88.6		5,000	8,500	11,200	105.0
110.0	35.5	81.9		4,500	7,900	10,400	110.0
115.0	31.4	74.2		3,700	7,000	9,400	115.0



Liftcrane Boom Capacities

See Chart for Crane Counterweight
Extended Position Crawlers
360 Degree Rating

Meets
ASME B30.5
Requirements

12000

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)				Load Radius (ft)
			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
140 Ft. Boom							
25.4	81.4	145.5		52,900	71,200	85,700	25.4
26.0	81.2	145.4		51,800	69,600	83,800	26.0
28.0	80.3	145.1		46,500	62,700	75,600	28.0
30.0	79.5	144.7		41,600	56,300	68,000	30.0
32.0	78.7	144.3		37,700	51,200	61,900	32.0
34.0	77.8	143.9		34,500	47,000	57,000	34.0
36.0	77.0	143.4		31,800	43,500	52,900	36.0
38.0	76.1	142.9		29,100	40,000	48,800	38.0
40.0	75.3	142.4		26,700	36,900	45,200	40.0
45.0	73.2	141.0		22,400	31,200	38,300	45.0
50.0	71.0	139.3		19,100	26,900	33,000	50.0
55.0	68.8	137.4		16,400	23,300	28,800	55.0
60.0	66.6	135.4		14,200	20,400	25,400	60.0
65.0	64.4	133.0		12,300	18,100	22,600	65.0
70.0	62.1	130.5		10,900	16,200	20,300	70.0
75.0	59.7	127.7		9,600	14,500	18,300	75.0
80.0	57.3	124.5		8,500	13,100	16,600	80.0
85.0	54.8	121.1		7,500	11,700	15,200	85.0
90.0	52.3	117.4		6,700	10,700	13,900	90.0
95.0	49.6	113.3		5,900	9,800	12,800	95.0
100.0	46.9	108.8		5,200	8,900	11,800	100.0
105.0	44.0	103.8		4,600	8,100	10,800	105.0
110.0	40.9	98.2		4,100	7,400	10,100	110.0
115.0	37.7	92.0		3,600	6,900	9,300	115.0
120.0	34.1	85.0			6,300	8,600	120.0
125.0	30.3	77.0			5,500	8,100	125.0



Liftcrane Boom Capacities

See Chart for Crane Counterweight
Extended Position Crawlers
360 Degree Rating

Meets
ASME B30.5
Requirements



12000

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)				Load Radius (ft)
			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
150 Ft. Boom							
26.9	81.4	155.4		48,700	65,600	79,100	26.9
28.0	81.0	155.2		46,000	62,100	74,900	28.0
30.0	80.2	154.9		41,400	56,100	67,700	30.0
32.0	79.4	154.5		37,500	51,000	61,700	32.0
34.0	78.7	154.1		34,300	46,800	56,800	34.0
36.0	77.9	153.7		31,600	43,300	52,600	36.0
38.0	77.1	153.2		28,900	39,800	48,400	38.0
40.0	76.3	152.7		26,500	36,700	44,700	40.0
45.0	74.3	151.4		22,100	31,000	38,000	45.0
50.0	72.3	149.9		18,700	26,500	32,800	50.0
55.0	70.3	148.1		16,000	22,900	28,500	55.0
60.0	68.3	146.2		13,700	20,000	25,000	60.0
65.0	66.2	144.1		11,900	17,700	22,300	65.0
70.0	64.1	141.7		10,500	15,700	20,100	70.0
75.0	61.9	139.1		9,200	14,100	18,100	75.0
80.0	59.7	136.3		8,100	12,700	16,300	80.0
85.0	57.5	133.2		7,100	11,500	14,800	85.0
90.0	55.2	129.8		6,200	10,300	13,500	90.0
95.0	52.8	126.2		5,500	9,300	12,300	95.0
100.0	50.4	122.2		4,800	8,500	11,300	100.0
105.0	47.8	117.8		4,100	7,700	10,300	105.0
110.0	45.2	113.0		3,500	7,000	9,600	110.0
115.0	42.4	107.7			6,300	9,000	115.0
120.0	39.5	101.8			5,600	8,300	120.0
125.0	36.3	95.3			5,000	7,600	125.0
130.0	32.9	88.0			4,400	7,000	130.0



Liftcrane Boom Capacities

See Chart for Crane Counterweight
Extended Position Crawlers
360 Degree Rating

Meets
ASME B30.5
Requirements

12000

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)				Load Radius (ft)
			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
160 Ft. Boom							
28.4	81.4	165.3		44,500	60,400	72,800	28.4
30.0	80.8	165.0		41,400	56,100	67,700	30.0
32.0	80.1	164.7		37,500	51,000	61,700	32.0
34.0	79.4	164.3		34,300	46,800	56,800	34.0
36.0	78.6	163.9		31,600	43,300	52,700	36.0
38.0	77.9	163.5		28,900	39,800	48,600	38.0
40.0	77.2	163.0		26,500	36,700	44,900	40.0
45.0	75.3	161.8		22,100	31,000	38,100	45.0
50.0	73.5	160.3		18,700	26,700	32,800	50.0
55.0	71.6	158.7		16,000	23,100	28,600	55.0
60.0	69.7	157.0		13,700	20,200	25,200	60.0
65.0	67.8	155.0		12,100	17,700	22,300	65.0
70.0	65.8	152.8		10,500	15,700	20,100	70.0
75.0	63.8	150.4		9,200	14,100	18,100	75.0
80.0	61.8	147.8		8,100	12,700	16,300	80.0
85.0	59.7	145.0		7,100	11,500	14,800	85.0
90.0	57.6	141.9		6,200	10,300	13,500	90.0
95.0	55.5	138.6		5,500	9,300	12,300	95.0
100.0	53.3	134.9		4,800	8,500	11,400	100.0
105.0	51.0	131.0		4,100	7,700	10,500	105.0
110.0	48.6	126.7		3,500	7,000	9,700	110.0
115.0	46.2	122.1			6,300	8,800	115.0
120.0	43.7	117.0			5,600	8,100	120.0
125.0	41.0	111.5			5,000	7,600	125.0
130.0	38.1	105.3			4,500	7,000	130.0
135.0	35.1	98.5			4,000	6,500	135.0
140.0	31.8	90.9			3,500	5,900	140.0



Liftcrane Boom Capacities

See Chart for Crane Counterweight
Extended Position Crawlers
360 Degree Rating

Meets
ASME B30.5
Requirements



12000

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)				Load Radius (ft)
			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
170 Ft. Boom							
29.9	81.4	175.2			55,700	67,300	29.9
30.0	81.4	175.2			55,500	67,100	30.0
32.0	80.7	174.8			50,600	61,300	32.0
34.0	80.0	174.5			46,600	56,600	34.0
36.0	79.3	174.1			43,100	52,400	36.0
38.0	78.6	173.7			39,600	48,200	38.0
40.0	77.9	173.3			36,500	44,500	40.0
45.0	76.2	172.1			30,800	37,600	45.0
50.0	74.5	170.8			26,300	32,500	50.0
55.0	72.7	169.3			22,700	28,300	55.0
60.0	70.9	167.6			19,800	24,800	60.0
65.0	69.1	165.7			17,400	21,900	65.0
70.0	67.3	163.7			15,500	19,600	70.0
75.0	65.5	161.5			13,900	17,600	75.0
80.0	63.6	159.1			12,400	15,900	80.0
85.0	61.7	156.5			11,100	14,400	85.0
90.0	59.8	153.6			10,000	13,200	90.0
95.0	57.8	150.6			9,000	12,000	95.0
100.0	55.8	147.3			8,100	10,900	100.0
105.0	53.7	143.7			7,400	10,100	105.0
110.0	51.6	139.8			6,400	9,200	110.0
115.0	49.4	135.6			5,700	8,500	115.0
120.0	47.1	131.1			5,100	7,900	120.0
125.0	44.7	126.2			4,500	7,200	125.0
130.0	42.3	120.9			4,000	6,700	130.0
135.0	39.7	115.1			3,500	6,100	135.0
140.0	37.0	108.7				5,500	140.0
145.0	34.0	101.6				5,000	145.0
150.0	30.9	93.6				4,600	150.0



Liftcrane Boom Capacities

See Chart for Crane Counterweight
Extended Position Crawlers
360 Degree Rating

Meets
ASME B30.5
Requirements

12000

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)				Load Radius (ft)
			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
180 Ft. Boom							
31.4	81.4	185.1			51,300	61,900	31.4
32.0	81.2	185.0			50,200	60,700	32.0
34.0	80.6	184.6			46,400	56,300	34.0
36.0	79.9	184.3			42,900	52,200	36.0
38.0	79.3	183.9			39,400	48,000	38.0
40.0	78.6	183.5			36,200	44,300	40.0
45.0	77.0	182.4			30,400	37,400	45.0
50.0	75.4	181.1			26,000	32,100	50.0
55.0	73.7	179.7			22,500	27,900	55.0
60.0	72.0	178.2			19,600	24,500	60.0
65.0	70.3	176.4			17,200	21,700	65.0
70.0	68.6	174.5			15,300	19,400	70.0
75.0	66.9	172.5			13,600	17,400	75.0
80.0	65.2	170.2			12,000	15,700	80.0
85.0	63.4	167.8			10,800	14,200	85.0
90.0	61.6	165.1			9,600	13,000	90.0
95.0	59.8	162.3			8,700	11,800	95.0
100.0	57.9	159.2			7,800	10,700	100.0
105.0	56.0	155.9			6,800	9,900	105.0
110.0	54.1	152.4			6,100	9,000	110.0
115.0	52.1	148.6			5,400	8,200	115.0
120.0	50.0	144.5			4,800	7,500	120.0
125.0	47.9	140.1			4,100	7,000	125.0
130.0	45.7	135.4			3,600	6,300	130.0
135.0	43.4	130.3				5,700	135.0
140.0	41.0	124.7				5,200	140.0
145.0	38.5	118.6				4,700	145.0
150.0	35.9	112.0				4,200	150.0
155.0	33.0	104.6				3,900	155.0
160.0	30.0	96.3				3,500	160.0



Liftcrane Boom Capacities

See Chart for Crane Counterweight
Extended Position Crawlers
360 Degree Rating

Meets
ASME B30.5
Requirements



12000

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)				Load Radius (ft)
			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
190 Ft. Boom							
32.9	81.4	194.9				54,500	32.9
34.0	81.1	194.8				52,900	34.0
36.0	80.5	194.4				49,900	36.0
38.0	79.8	194.1				47,000	38.0
40.0	79.2	193.7				44,100	40.0
45.0	77.7	192.7				37,200	45.0
50.0	76.1	191.5				31,900	50.0
55.0	74.6	190.1				27,600	55.0
60.0	73.0	188.7				24,100	60.0
65.0	71.4	187.0				21,400	65.0
70.0	69.8	185.2				19,100	70.0
75.0	68.2	183.3				17,000	75.0
80.0	66.6	181.2				15,200	80.0
85.0	64.9	178.9				13,700	85.0
90.0	63.2	176.4				12,500	90.0
95.0	61.5	173.8				11,300	95.0
100.0	59.8	171.0				10,300	100.0
105.0	58.0	167.9				9,400	105.0
110.0	56.2	164.6				8,600	110.0
115.0	54.4	161.1				7,900	115.0
120.0	52.5	157.4				7,100	120.0
125.0	50.6	153.4				6,300	125.0
130.0	48.6	149.1				5,800	130.0
135.0	46.5	144.5				5,200	135.0
140.0	44.4	139.5				4,600	140.0
145.0	42.2	134.1				4,100	145.0
150.0	39.9	128.3				3,800	150.0

Manitowoc Cranes

Manitowoc, Wisconsin 54220 U.S.A.



Liftcrane Boom Capacities

See Chart for Crane Counterweight
Extended Position Crawlers
360 Degree Rating

Meets
ASME B30.5
Requirements

12000

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)				Load Radius (ft)
			Crane Counterweight (lbs)				
			0	22,000	44,100	59,500	
200 Ft. Boom							
34.4	81.4	204.8				46,700	34.4
36.0	80.9	204.6				46,300	36.0
38.0	80.4	204.2				45,500	38.0
40.0	79.8	203.9				44,100	40.0
45.0	78.3	202.9				37,200	45.0
50.0	76.8	201.8				31,900	50.0
55.0	75.4	200.5				27,700	55.0
60.0	73.9	199.1				24,300	60.0
65.0	72.4	197.6				21,500	65.0
70.0	70.9	195.9				19,200	70.0
75.0	69.3	194.0				17,200	75.0
80.0	67.8	192.1				15,400	80.0
85.0	66.2	189.9				13,900	85.0
90.0	64.7	187.6				12,600	90.0
95.0	63.1	185.1				11,400	95.0
100.0	61.4	182.5				10,400	100.0
105.0	59.8	179.6				9,400	105.0
110.0	58.1	176.6				8,600	110.0
115.0	56.4	173.3				7,900	115.0
120.0	54.7	169.9				7,200	120.0
125.0	52.9	166.2				6,500	125.0
130.0	51.1	162.2				5,800	130.0
135.0	49.2	158.0				5,300	135.0
140.0	47.3	153.5				4,800	140.0
145.0	45.3	148.7				4,300	145.0
150.0	43.2	143.5				3,800	150.0