



Liftcrane Boom Capacities

34 600 kg Crane Counterweight
6 500 kg Carbody Counterweight
Extended Position Crawlers
360 Degree Rating

**Meets
ASME B30.5
Requirements**

12000-1

LIFTING CAPACITIES:

- 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).
- 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.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine capacity.
- Do not attempt to lift where no radius on load chart is listed as crane may tip or collapse.
- 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.
- 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.
- Least stable position is over the side.
- Boom point elevation is vertical distance from ground level to centerline of boom point shaft.
- In all cases, upper boom point capacities cannot exceed those listed for Liftcrane Boom capacity reduced by 400 kg.

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

Jib length (m)	Upper Boom Point	9,1 m	12,2 m	15,2 m	18,3 m	21,3 m
Deduct (kg)	400	1 100	1 500	2 000	2 400	2 900

- 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.
- Machine travel with load (pick and carry).
 - Travel with crane upperworks in-line with crawlers. Grade in any direction must not exceed 1 percent (0.5 degrees).
 - 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.
- To lift the maximum capacity of 102 000 kg (9-part line) and 110 000 kg (10-part line), the Upper Boom Point must be used.

Hoist Reeving for Upper Boom Point

No. of Parts of Line	1	2
Maximum Loads (kg)	11 300	22 600

Manitowoc Cranes

Manitowoc, Wisconsin 54220 U.S.A.



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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.
- The total load that can be lifted over a jib is limited by the rated jib loads.
- See Operator Manual Section 6 for Wire Rope Specifications.
- Machine equipped with 6 770 mm crawlers, 900 mm treads, 10 parts of boom hoist reeving, 34 600 kg crane counterweight and 6 500 kg carbody counterweight.

Hoist Reeving for Main Boom Loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kg)	11 300	22 600	34 000	45 300	56 700

No. of Parts of Line	6	7	8	9	10
Maximum Loads (kg)	68 000	79 300	90 700	102 000	110 000

Maximum Boom and Jib Lengths Lifted Unassisted	
Over End of Crawlers	
Boom Length	Jib Length
70,1 m (a)	—
61,0 m	21,3 m
Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be attached on 70,1 m boom. Jibs can only be mounted on 27,4 m to 61,0 m booms.	

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



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Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
15,2 m Boom			
3,6	81,4	17,2	110 000 *
4,0	80,0	17,2	99 000 *
4,5	78,1	17,1	88 200 *
5,0	76,2	16,9	77 700 *
5,5	74,2	16,8	67 800 *
6,0	72,2	16,6	62 200 *
7,0	68,2	16,3	53 300 *
8,0	64,0	15,8	44 600
9,0	59,8	15,2	37 600
10,0	55,2	14,6	32 500
12,0	45,3	12,9	25 500
13,7	35,2	10,8	21 300
18,3 m Boom			
4,1	81,4	20,2	95 200 *
4,5	80,1	20,2	87 600 *
5,0	78,5	20,1	77 700 *
5,5	76,9	20,0	67 800 *
6,0	75,3	19,8	62 200 *
7,0	72,0	19,5	53 200 *
8,0	68,7	19,1	44 400
9,0	65,2	18,7	37 500
10,0	61,7	18,2	32 400
12,0	54,2	16,9	25 300
14,0	45,8	15,2	20 600
16,0	36,0	12,8	17 400
16,7	31,9	11,7	16 300
21,3 m Boom			
4,5	81,4	23,3	86 100 *
5,0	80,1	23,2	77 700 *
5,5	78,8	23,1	67 800 *
6,0	77,4	23,0	62 200 *
7,0	74,6	22,7	53 200 *
8,0	71,8	22,4	44 400
9,0	69,0	22,0	37 400
10,0	66,0	21,6	32 300
12,0	59,9	20,5	25 200
14,0	53,5	19,2	20 500
16,0	46,3	17,5	17 300
18,0	38,3	15,2	14 800
18,2	37,1	15,0	14 500

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
24,4 m Boom			
5,0	81,4	26,3	77 500 *
5,5	80,2	26,2	67 800 *
6,0	79,0	26,1	62 200 *
7,0	76,6	25,9	53 100 *
8,0	74,2	25,6	44 200
9,0	71,7	25,3	37 300
10,0	69,2	24,9	32 100
12,0	64,1	24,0	25 100
14,0	58,6	22,9	20 400
16,0	52,9	21,5	17 100
18,0	46,7	19,8	14 600
20,0	39,7	17,6	12 800
21,3	34,6	15,9	11 700
27,4 m Boom			
5,4	81,4	29,3	68 000 *
5,5	81,3	29,3	67 800 *
6,0	80,2	29,2	61 900 *
7,0	78,1	29,0	53 100 *
8,0	76,0	28,8	44 200
9,0	73,8	28,5	37 300
10,0	71,6	28,1	32 100
12,0	67,1	27,4	25 000
14,0	62,5	26,4	20 300
16,0	57,6	25,2	17 100
18,0	52,5	23,8	14 600
20,0	47,0	22,1	12 700
22,0	40,8	20,0	11 200
24,0	33,9	17,3	10 000
24,3	32,5	16,8	9 700
30,5 m Boom			
5,9	81,4	32,3	62 300 *
6,0	81,2	32,3	61 900 *
7,0	79,3	32,1	53 000 *
8,0	77,4	31,9	44 200
9,0	75,4	31,6	37 200
10,0	73,5	31,4	32 000
12,0	69,5	30,7	24 900
14,0	65,5	29,8	20 200
16,0	61,2	28,8	16 900
18,0	56,8	27,6	14 500

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
30,5 m Boom			
20,0	52,1	26,1	12 500
22,0	47,2	24,4	11 000
24,0	41,7	22,3	9 700
26,0	35,6	19,8	8 800
27,4	30,8	17,6	8 100
33,5 m Boom			
6,3	81,4	35,3	58 300 *
7,0	80,3	35,2	52 900 *
8,0	78,5	35,0	44 100
9,0	76,8	34,8	37 100
10,0	75,0	34,5	31 900
12,0	71,5	33,9	24 800
14,0	67,8	33,1	20 100
16,0	64,0	32,2	16 800
18,0	60,1	31,2	14 300
20,0	56,1	29,9	12 400
22,0	51,8	28,4	10 900
24,0	47,3	26,7	9 700
26,0	42,4	24,7	8 600
28,0	37,0	22,2	7 800
28,9	34,3	20,9	7 400
36,6 m Boom			
6,8	81,4	38,3	54 800 *
7,0	81,1	38,3	53 200 *
8,0	79,5	38,1	44 100
9,0	77,9	37,9	37 100
10,0	76,3	37,7	31 900
12,0	73,1	37,1	24 800
14,0	69,8	36,4	20 100
16,0	66,4	35,6	16 800
18,0	62,9	34,6	14 300
20,0	59,3	33,5	12 400
22,0	55,5	32,2	10 900
24,0	51,6	30,7	9 600
26,0	47,5	29,0	8 600
28,0	43,0	27,0	7 700
30,0	38,1	24,6	7 000
32,0	32,8	21,8	6 300



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Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
39,6 m Boom			
7,2	81,4	41,4	45 300 *
8,0	80,3	41,2	44 000
9,0	78,9	41,0	37 000
10,0	77,4	40,8	31 800
12,0	74,4	40,3	24 700
14,0	71,3	39,7	20 000
16,0	68,3	38,9	16 700
18,0	65,1	38,0	14 200
20,0	61,8	37,0	12 300
22,0	58,5	35,9	10 800
24,0	55,0	34,5	9 500
26,0	51,4	33,0	8 500
28,0	47,6	31,3	7 600
30,0	43,5	29,3	6 800
32,0	39,1	27,0	6 200
34,0	34,2	24,3	5 700
35,0	31,4	22,7	5 400
42,7 m Boom			
7,7	81,4	44,4	45 300 *
8,0	81,0	44,3	43 900
9,0	79,6	44,1	36 900
10,0	78,3	43,9	31 700
12,0	75,5	43,5	24 600
14,0	72,7	42,9	19 900
16,0	69,9	42,2	16 600
18,0	67,0	41,4	14 100
20,0	64,1	40,5	12 100
22,0	61,0	39,4	10 600
24,0	57,9	38,2	9 300
26,0	54,6	36,9	8 300
28,0	51,2	35,3	7 400
30,0	47,7	33,6	6 700
32,0	44,0	31,6	6 000
34,0	39,9	29,4	5 500
36,0	35,4	26,8	5 000
38,0	30,5	23,6	4 600
38,1	30,3	23,5	4 600

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
45,7 m Boom			
8,1	81,4	47,4	42 000
9,0	80,3	47,2	36 800
10,0	79,1	47,0	31 600
12,0	76,5	46,6	24 400
14,0	73,9	46,1	19 700
16,0	71,3	45,4	16 400
18,0	68,6	44,7	13 900
20,0	65,9	43,8	12 000
22,0	63,1	42,9	10 500
24,0	60,2	41,8	9 200
26,0	57,3	40,5	8 100
28,0	54,3	39,2	7 300
30,0	51,1	37,6	6 500
32,0	47,8	35,9	5 900
34,0	44,3	33,9	5 300
36,0	40,5	31,7	4 800
38,0	36,5	29,2	4 500
39,6	32,9	26,9	4 100
48,8 m Boom			
8,6	81,4	50,4	34 000 *
9,0	80,9	50,3	34 000 *
10,0	79,8	50,1	31 600
12,0	77,4	49,7	24 500
14,0	74,9	49,2	19 800
16,0	72,5	48,6	16 400
18,0	70,0	47,9	14 000
20,0	67,5	47,2	12 000
22,0	64,9	46,3	10 500
24,0	62,3	45,3	9 200
26,0	59,5	44,1	8 200
28,0	56,8	42,9	7 300
30,0	53,9	41,5	6 500
32,0	51,0	39,9	5 900
34,0	47,8	38,2	5 300
36,0	44,6	36,3	4 800
38,0	41,1	34,1	4 400
40,0	37,3	31,6	4 000
42,6	31,8	27,8	3 500

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
51,8 m Boom			
9,1	81,4	53,4	34 000 *
10,0	80,4	53,2	31 500
12,0	78,1	52,9	24 300
14,0	75,8	52,4	19 600
16,0	73,6	51,8	16 300
18,0	71,2	51,2	13 800
20,0	68,8	50,4	11 800
22,0	66,5	49,6	10 300
24,0	64,0	48,7	9 100
26,0	61,5	47,6	8 000
28,0	59,0	46,5	7 100
30,0	56,4	45,2	6 400
32,0	53,7	43,8	5 700
34,0	50,9	42,2	5 100
36,0	47,9	40,5	4 700
38,0	44,8	38,6	4 200
40,0	41,6	36,4	3 900
44,0	34,3	31,3	3 100
45,7	30,9	28,6	2 900
54,9 m Boom			
9,5	81,4	56,4	33 200
10,0	80,9	56,3	31 400
12,0	78,8	56,0	24 200
14,0	76,7	55,5	19 500
16,0	74,5	55,0	16 100
18,0	72,3	54,4	13 600
20,0	70,0	53,7	11 700
22,0	67,8	52,9	10 100
24,0	65,6	52,1	8 800
26,0	63,2	51,1	7 900
28,0	60,9	50,0	7 000
30,0	58,4	48,8	6 200
32,0	56,0	47,5	5 500
34,0	53,4	46,1	5 000
36,0	50,7	44,5	4 500
38,0	48,0	42,8	4 100
40,0	45,1	40,9	3 600
44,0	38,8	36,4	3 000
48,0	31,5	30,7	2 400
48,7	30,0	29,5	2 300



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Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
57,9 m Boom			
10,0	81,4	59,4	30 000 *
12,0	79,3	59,1	24 100
14,0	77,4	58,7	19 400
16,0	75,3	58,2	16 000
18,0	73,3	57,6	13 500
20,0	71,2	56,9	11 600
22,0	69,1	56,2	10 000
24,0	67,0	55,4	8 800
26,0	64,7	54,5	7 700
28,0	62,5	53,5	6 800
30,0	60,3	52,4	6 100
32,0	58,0	51,2	5 400
34,0	55,6	49,9	4 800
36,0	53,2	48,4	4 300
38,0	50,7	46,8	4 000
40,0	48,0	45,1	3 500
44,0	42,4	41,1	2 800
48,0	36,1	36,2	2 200
50,2	32,1	32,9	1 900
61,0 m Boom			
10,4	81,4	62,4	22 600 *
12,0	79,9	62,2	22 600 *
14,0	78,0	61,8	19 400
16,0	76,1	61,3	16 000
18,0	74,1	60,8	13 600
20,0	72,2	60,2	11 600
22,0	70,2	59,5	10 000
24,0	68,1	58,7	8 800
26,0	66,1	57,8	7 700
28,0	64,1	56,9	6 800
30,0	61,9	55,9	6 100
32,0	59,8	54,7	5 400
34,0	57,5	53,5	4 900
36,0	55,3	52,2	4 400
38,0	53,0	50,7	4 000
40,0	50,6	49,1	3 500
44,0	45,5	45,5	2 800
48,0	39,9	41,1	2 100
52,0	33,6	35,7	1 700
53,3	31,3	33,7	1 500

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
64,0 m Boom			
10,9	81,4	65,5	22 600 *
12,0	80,4	65,3	22 600 *
14,0	78,6	64,9	19 300
16,0	76,8	64,5	15 900
18,0	74,9	63,9	13 400
20,0	73,0	63,4	11 500
22,0	71,1	62,7	9 900
24,0	69,2	62,0	8 700
26,0	67,3	61,2	7 600
28,0	65,4	60,3	6 700
30,0	63,3	59,3	5 900
32,0	61,4	58,3	5 300
34,0	59,3	57,1	4 700
36,0	57,2	55,9	4 200
38,0	55,0	54,5	3 700
40,0	52,7	53,0	3 300
44,0	48,1	49,7	2 600
48,0	43,1	45,8	1 900
51,8	37,8	41,3	1 500
67,1 m Boom			
11,3	81,4	68,5	21 800 *
12,0	80,8	68,4	21 300 *
14,0	79,1	68,0	19 100
16,0	77,4	67,6	15 800
18,0	75,6	67,1	13 300
20,0	73,8	66,5	11 300
22,0	72,0	65,9	9 800
24,0	70,2	65,2	8 400
26,0	68,4	64,5	7 500
28,0	66,5	63,6	6 600
30,0	64,6	62,7	5 800
32,0	62,8	61,7	5 100
34,0	60,8	60,6	4 600
36,0	58,8	59,5	4 100
38,0	56,8	58,2	3 600
40,0	54,8	56,8	3 100
44,0	50,4	53,7	2 300
48,0	45,8	50,1	1 800
50,2	43,0	47,9	1 500

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
70,1 m Boom			
11,8	81,4	71,5	19 500 *
12,0	81,2	71,5	19 400 *
14,0	79,6	71,1	17 900 *
16,0	77,9	70,7	15 600
18,0	76,2	70,2	13 100
20,0	74,5	69,7	11 200
22,0	72,8	69,1	9 600
24,0	71,1	68,5	8 300
26,0	69,4	67,7	7 300
28,0	67,6	66,9	6 400
30,0	65,8	66,1	5 700
32,0	64,1	65,1	5 000
34,0	62,2	64,1	4 400
36,0	60,3	63,0	3 900
38,0	58,4	61,8	3 300
40,0	56,5	60,5	3 000
44,0	52,5	57,6	2 200
48,0	48,2	54,3	1 600
48,7	47,4	53,7	1 500