



Liftcrane Boom Capacities

**34 000 kg Crane Counterweight
Extended Position Crawlers
360 Degree Rating**

**Meets
ANSI B30.5
Requirements**



12000 SERIES 2

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, auxiliary sheave (upper boom point) capacities cannot exceed those listed for Liftcrane Boom capacity reduced by 400 kg.
10. When lifting over boom point with jib or auxiliary sheave (upper point), rated loads for the boom must be reduced as shown below.
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. Consult jib chart for liftcrane jib capacities.

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

Hoist Reeving for Auxiliary Sheave (Upper Boom Point)

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



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OPERATING CONDITION:

1. The machine must be reeved and set-up as stated in the Operators 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 operators manual for operating guidelines.
5. Machine equipped with 6,756 m crawlers, 914 mm treads, 10 parts of boom hoist reeving, 34 000 kg crane counterweight.

Hoist Reeving for Main Boom Loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kg)	11 300	22 600	33 900	45 200	56 500

No. of Parts of Line	6	7	8	9	10
Maximum Loads (kg)	67 800	79 100	90 400	101 700	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) Auxiliary sheave (upper 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.

3. Front and rear load hoist drum wire rope: 26 mm, 6 x 29, FL, IWRC C/O, Minimum breaking strength: 54 400 kg.
Front Drum: 260 m, Rear Drum: 230 m.
4. Boom hoist wire rope: 155 m, 20 mm, 6 x 31, WS, IWRC O/O, Minimum breaking strength: 33 400 kg.



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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	80,1	17,2	99 100 *
4,5	78,1	17,1	88 400 *
5,0	76,2	16,9	77 600 *
5,5	74,3	16,8	68 000 *
6,0	72,3	16,6	62 000 *
7,0	68,3	16,3	53 600 *
8,0	64,1	15,8	44 500
9,0	59,8	15,2	37 900
10,0	55,3	14,6	32 800
12,0	45,4	12,9	25 600
13,7	35,2	10,8	21 400
18,3 m Boom			
4,1	81,4	20,2	95 300 *
4,5	80,1	20,2	87 600 *
5,0	78,5	20,1	77 600 *
5,5	76,9	20,0	67 900 *
6,0	75,3	19,8	61 900 *
7,0	72,0	19,5	53 600 *
8,0	68,7	19,1	44 300
9,0	65,3	18,7	37 700
10,0	61,7	18,2	32 200
12,0	54,3	16,9	25 600
14,0	46,0	15,2	20 500
16,0	36,3	12,8	17 000
16,8	31,9	12,1	16 400
21,3 m Boom			
4,5	81,4	23,3	86 200 *
5,0	80,2	23,2	77 600 *
5,5	78,8	23,1	67 900 *
6,0	77,5	23,0	61 900 *
7,0	74,7	22,7	53 600 *
8,0	71,9	22,4	44 300
9,0	69,0	22,0	37 700
10,0	66,1	21,6	32 200
12,0	60,0	20,5	25 300
14,0	53,5	19,2	20 500
16,0	46,4	17,5	17 000
18,0	38,4	15,2	15 200
18,3	37,1	14,9	14 600

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
24,4 m Boom			
5,0	81,4	26,3	77 600 *
5,5	80,3	26,2	68 000 *
6,0	79,1	26,1	62 000 *
7,0	76,6	25,9	53 600 *
8,0	74,2	25,6	44 300
9,0	71,7	25,3	36 900
10,0	69,2	24,9	32 200
12,0	64,1	24,0	25 300
14,0	58,7	22,9	20 500
16,0	53,0	21,5	17 000
18,0	46,8	19,8	14 400
20,0	39,8	17,6	12 900
21,3	34,6	15,8	11 800
27,4 m Boom			
5,4	81,4	29,3	68 000 *
5,5	80,8	29,3	67 900 *
6,0	79,7	29,2	61 900 *
7,0	78,2	29,0	53 600 *
8,0	76,0	28,8	44 300
9,0	73,8	28,5	36 900
10,0	71,6	28,1	32 200
12,0	67,2	27,4	24 600
14,0	62,5	26,4	20 500
16,0	57,7	25,2	17 000
18,0	52,5	23,8	14 400
20,0	47,0	22,1	12 900
22,0	41,8	20,3	11 500
24,0	35,0	17,7	10 300
24,4	32,5	17,1	9 800
30,5 m Boom			
5,9	81,4	32,3	62 400 *
6,0	81,3	32,3	61 900 *
7,0	79,4	32,1	53 100 *
8,0	77,4	31,9	44 200
9,0	75,5	31,6	37 300
10,0	73,5	31,4	32 100
12,0	69,6	30,7	24 900
14,0	65,5	29,8	20 300
16,0	61,3	28,8	17 000
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	52,2	26,1	12 500
22,0	47,9	24,6	11 000
24,0	42,5	22,6	9 800
26,0	36,6	20,1	8 800
27,4	30,8	18,0	8 200
33,5 m Boom			
6,3	81,4	35,3	58 300 *
7,0	80,3	35,2	53 000 *
8,0	78,6	35,0	44 100
9,0	76,8	34,8	37 200
10,0	75,1	34,5	32 000
12,0	71,5	33,9	24 800
14,0	67,8	33,1	20 200
16,0	64,1	32,2	16 900
18,0	60,2	31,2	14 400
20,0	56,2	29,9	12 400
22,0	52,5	28,6	11 000
24,0	48,0	26,9	9 700
26,0	43,2	24,9	8 600
28,0	37,9	22,6	7 900
29,0	34,3	21,3	7 500
36,6 m Boom			
6,8	81,4	38,3	54 900 *
7,0	81,1	38,3	53 300 *
8,0	79,6	38,1	44 100
9,0	78,0	37,9	37 100
10,0	76,3	37,7	32 000
12,0	73,1	37,1	24 800
14,0	69,8	36,4	20 200
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	56,1	32,4	10 900
24,0	52,2	30,9	9 600
26,0	48,1	29,2	8 600
28,0	43,7	27,3	7 800
30,0	38,9	25,0	7 100
32,0	33,5	22,2	6 400



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39,6 m Boom			
7,2	81,4	41,3	45 400 *
8,0	80,4	41,2	44 000 *
9,0	78,9	41,0	37 100
10,0	77,4	40,8	31 900
12,0	74,4	40,3	24 700
14,0	71,4	39,7	20 100
16,0	68,3	38,9	16 800
18,0	65,2	38,0	14 200
20,0	61,9	37,0	12 300
22,0	59,0	36,0	10 800
24,0	55,6	34,7	9 500
26,0	51,9	33,2	8 600
28,0	48,2	31,5	7 700
30,0	44,1	29,6	6 900
32,0	39,8	27,3	6 300
34,0	34,9	24,7	5 800
35,1	31,4	23,1	5 500
42,7 m Boom			
7,7	81,4	44,4	45 300 *
8,0	81,1	44,3	43 900
9,0	79,7	44,1	36 900
10,0	78,3	43,9	31 800
12,0	75,6	43,5	24 600
14,0	72,8	42,9	20 000
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	61,4	39,5	10 600
24,0	58,3	38,4	9 400
26,0	55,1	37,0	8 300
28,0	51,7	35,5	7 500
30,0	48,2	33,8	6 700
32,0	44,5	31,9	6 100
34,0	40,5	29,7	5 500
36,0	36,1	27,1	5 100
38,0	31,2	24,1	4 700
38,1	30,3	23,9	4 700

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
45,7 m Boom			
8,1	81,4	47,4	42 100
9,0	80,4	47,2	36 800
10,0	79,1	47,0	31 700
12,0	76,6	46,6	24 400
14,0	74,0	46,1	19 800
16,0	71,3	45,4	16 500
18,0	68,7	44,7	13 900
20,0	65,9	43,8	12 000
22,0	63,5	43,0	10 500
24,0	60,7	41,9	9 200
26,0	57,7	40,7	8 200
28,0	54,7	39,4	7 400
30,0	51,6	37,8	6 600
32,0	48,3	36,1	6 000
34,0	44,8	34,2	5 400
36,0	41,1	32,0	4 900
38,0	37,1	29,5	4 500
39,6	32,9	27,2	4 200
48,8 m Boom			
8,6	81,4	50,4	34 000 *
9,0	81,0	50,3	34 000 *
10,0	79,8	50,1	31 700
12,0	77,4	49,7	24 500
14,0	75,0	49,2	19 900
16,0	72,5	48,6	16 500
18,0	70,0	47,9	14 000
20,0	67,5	47,2	12 000
22,0	65,3	46,4	10 500
24,0	62,7	45,4	9 200
26,0	60,0	44,3	8 200
28,0	57,2	43,0	7 400
30,0	54,4	41,7	6 600
32,0	51,4	40,1	6 000
34,0	48,3	38,4	5 400
36,0	45,1	36,5	4 900
38,0	41,6	34,4	4 400
40,0	37,9	32,0	4 100
42,0	33,9	29,2	3 700
42,7	31,8	28,1	3 600

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	31 600
12,0	78,2	52,9	24 300
14,0	75,9	52,4	19 700
16,0	73,6	51,8	16 400
18,0	71,3	51,2	13 800
20,0	68,9	50,4	11 800
22,0	66,8	49,7	10 400
24,0	64,4	48,8	9 100
26,0	61,9	47,8	8 100
28,0	59,4	46,6	7 200
30,0	56,8	45,4	6 400
32,0	54,1	44,0	5 800
34,0	51,3	42,4	5 200
36,0	48,4	40,7	4 700
38,0	45,3	38,8	4 300
40,0	42,1	36,7	3 900
42,0	38,6	34,3	3 500
44,0	34,9	31,6	3 200
45,7	30,9	29,0	3 000
54,9 m Boom			
9,5	81,4	56,4	33 300
10,0	81,0	56,3	31 500
12,0	78,8	56,0	24 200
14,0	76,7	55,5	19 600
16,0	74,5	55,0	16 200
18,0	72,3	54,4	13 700
20,0	70,1	53,7	11 700
22,0	68,2	53,0	10 200
24,0	65,9	52,2	8 900
26,0	63,6	51,2	8 000
28,0	61,2	50,2	7 000
30,0	58,8	49,0	6 300
32,0	56,3	47,7	5 600
34,0	53,8	46,3	5 000
36,0	51,1	44,7	4 600
38,0	48,4	43,0	4 100
40,0	45,5	41,1	3 700
42,0	42,5	39,1	3 400
44,0	39,3	36,7	3 000
46,0	35,8	34,1	2 700
48,0	32,1	31,1	2 500
48,8	30,0	29,8	2 400



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57,9 m Boom			
10,0	81,4	59,4	30 000 *
12,0	79,4	59,1	24 100
14,0	77,4	58,7	19 500
16,0	75,4	58,2	16 100
18,0	73,3	57,6	13 500
20,0	71,2	56,9	11 600
22,0	69,4	56,3	10 000
24,0	67,3	55,5	8 800
26,0	65,1	54,6	7 700
28,0	62,9	53,6	6 900
30,0	60,6	52,5	6 100
32,0	58,3	51,3	5 500
34,0	56,0	50,0	4 900
36,0	53,5	48,6	4 400
38,0	51,0	47,0	4 000
40,0	48,4	45,3	3 500
42,0	45,7	43,5	3 200
44,0	42,9	41,4	2 800
46,0	39,8	39,1	2 500
48,0	36,6	36,5	2 300
50,0	33,1	33,6	2 000
50,3	32,1	33,2	2 000
61,0 m Boom			
10,4	81,4	62,4	22 600 *
12,0	80,0	62,2	22 600 *
14,0	78,0	61,8	19 500
16,0	76,1	61,3	16 100
18,0	74,2	60,8	13 600
20,0	72,2	60,2	11 600
22,0	70,5	59,6	10 100
24,0	68,5	58,8	8 800
26,0	66,4	58,0	7 700
28,0	64,3	57,0	6 900
30,0	62,2	56,0	6 100
32,0	60,1	54,9	5 500
34,0	57,9	53,7	5 000
36,0	55,6	52,4	4 400
38,0	53,3	50,9	4 000
40,0	50,9	49,4	3 500
42,0	48,4	47,6	3 200
44,0	45,9	45,8	2 800
46,0	43,2	43,7	2 500
48,0	40,3	41,5	2 200
50,0	37,3	38,9	1 900
52,0	34,1	36,1	1 700
53,3	31,3	34,1	1 600

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	19 400
16,0	76,8	64,5	16 000
18,0	74,9	63,9	13 400
20,0	73,1	63,4	11 500
22,0	71,4	62,8	10 000
24,0	69,5	62,1	8 700
26,0	67,6	61,3	7 600
28,0	65,7	60,4	6 800
30,0	63,7	59,4	6 000
32,0	61,6	58,4	5 400
34,0	59,6	57,3	4 800
36,0	57,5	56,0	4 200
38,0	55,3	54,7	3 800
40,0	53,1	53,2	3 400
42,0	50,8	51,7	3 000
44,0	48,5	49,9	2 600
46,0	46,0	48,1	2 300
48,0	43,5	46,0	2 000
50,0	40,8	43,8	1 700
51,8	37,8	41,6	1 600
67,1 m Boom			
11,4	81,4	68,5	21 900 *
12,0	80,9	68,4	21 300 *
14,0	79,1	68,0	19 200
16,0	77,4	67,6	15 900
18,0	75,6	67,1	13 300
20,0	74,1	66,6	11 300
22,0	72,3	66,0	9 800
24,0	70,5	65,3	8 500
26,0	68,7	64,6	7 500
28,0	66,8	63,7	6 700
30,0	65,0	62,8	5 900
32,0	63,0	61,8	5 200
34,0	61,1	60,8	4 600
36,0	59,1	59,6	4 100
38,0	57,1	58,4	3 600
40,0	55,0	57,0	3 200
42,0	52,9	55,5	2 800
44,0	50,7	54,0	2 400
46,0	48,5	52,2	2 100
48,0	46,2	50,4	1 900
50,0	43,7	48,4	1 600
50,3	43,0	48,1	1 600

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	81,3	71,5	19 500 *
14,0	79,6	71,1	17 900 *
16,0	78,0	70,7	15 700
18,0	76,3	70,2	13 200
20,0	74,8	69,8	11 200
22,0	73,1	69,2	9 600
24,0	71,4	68,5	8 400
26,0	69,6	67,8	7 300
28,0	67,9	67,0	6 500
30,0	66,1	66,2	5 700
32,0	64,3	65,3	5 100
34,0	62,5	64,2	4 500
36,0	60,6	63,1	3 900
38,0	58,7	62,0	3 400
40,0	56,8	60,7	3 000
42,0	54,8	59,3	2 600
44,0	52,8	57,8	2 200
46,0	50,7	56,3	1 900
48,0	48,5	54,5	1 700
48,8	47,4	53,8	1 600