



Liftcrane Boom Capacities

24 900 kg Crane Counterweight
6 700 kg Carbody Counterweight
Crawler Crane on a Barge
0 Degree through 3 Degree Crane List
Extended Position Crawlers
360 Degree Rating

8500 SERIES 3

LIFTING CAPACITIES:

- Lifting capacities are for a crawler crane when operating on a barge. Machine to operate on a firm uniformly supporting surface with machine list not to exceed degrees noted. The user must limit 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 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 barge deck to centerline of boom point shaft.
- Upper boom point capacity for liftcrane service with single part line is 7 700 kg. In all cases, upper boom point capacities cannot exceed those listed for Liftcrane Boom capacity reduced by 200 kg.
- 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.
- Travel with load (pick and carry) is not permitted.
- Jib installation is prohibited when crane is on a barge.

OPERATING CONDITION:

- 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 in fully raised position for all operation.
 - Crawlers must be fully extended and be locked in position.
 - Crane shall be positively secured to prevent shifting.
 - Refer to operators manual for operating guidelines.

Maximum Boom Lengths Lifted Unassisted
Over End of Crawlers
61,0 m (a) 57,9 m
Load block, hook and weight ball on barge deck at start. (a) Upper boom point cannot be attached on 61,0 m boom.

- See Operator Manual Section 6 for Wire Rope Specifications.
- Machine equipped with 5 994 mm crawlers, 914 mm treads, 12 parts of boom hoist reeving, 24 900 kg crane counterweight and two 3 350 kg carbody counterweights.

Hoist Reeving for Main Boom Loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kg)	7 700	15 400	23 100	30 800	38 500

No. of Parts of Line	6	7	8	9	10
Maximum Loads (kg)	46 200	53 900	61 600	69 300	77 000

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



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12,2 m Boom							
3,1	81,7	13,8	77 100 *				3,1
3,5	79,6	13,7	76 300 *				3,5
4,0	77,2	13,6	69 500 *				4,0
4,5	74,7	13,5	61 800 *				4,5
5,0	72,3	13,3	56 300 *	56 300 *			5,0
5,5	69,8	13,1	51 200 *	51 100 *	45 300		5,5
6,0	67,2	12,9	45 400	42 700	40 100		6,0
7,0	62,0	12,4	35 900	34 200	32 400	30 900	7,0
8,0	56,5	11,8	29 300	28 300	27 100	26 000	8,0
9,0	50,6	11,0	25 100	24 200	23 300	22 500	9,0
10,0	44,1	10,1	21 700	21 100	20 400	19 900	10,0
15,2 m Boom							
3,7	81,1	16,8	75 400 *				3,7
4,0	79,8	16,7	69 500 *				4,0
4,5	77,9	16,6	61 700 *				4,5
5,0	75,9	16,5	56 200 *				5,0
5,5	74,0	16,3	51 300 *	47 800			5,5
6,0	72,0	16,2	45 300	41 900			6,0
7,0	68,0	15,8	35 800	33 700	31 500		7,0
8,0	63,8	15,3	29 400	27 900	26 400	25 400	8,0
9,0	59,5	14,8	25 000	23 800	22 700	21 800	9,0
10,0	55,0	14,1	21 600	20 700	20 000	19 200	10,0
12,0	45,1	12,4	17 000	16 500	16 000	15 500	12,0
18,3 m Boom							
4,0	81,6	19,8	69 900 *				4,0
4,5	79,9	19,7	62 000 *				4,5
5,0	78,3	19,6	56 100 *				5,0
5,5	76,7	19,5	51 100 *				5,5
6,0	75,1	19,4	45 200				6,0
7,0	71,8	19,1	35 700	33 100			7,0
8,0	68,5	18,7	29 300	27 500	25 900	23 100	8,0
9,0	65,0	18,2	24 800	23 500	22 300	21 100	9,0
10,0	61,5	17,7	21 500	20 400	19 500	18 700	10,0
12,0	54,0	16,4	16 800	16 200	15 600	15 100	12,0
14,0	45,8	14,7	13 800	13 300	13 000	12 600	14,0



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21,3 m Boom							
4,3	82,0	22,9	65 100 *				4,3
4,5	81,4	22,8	61 900 *				4,5
5,0	80,0	22,7	56 000 *				5,0
5,5	78,6	22,6	50 800 *				5,5
6,0	77,3	22,5	45 200				6,0
7,0	74,5	22,3	35 700				7,0
8,0	71,7	21,9	29 200	27 100			8,0
9,0	68,8	21,6	24 800	23 200	21 900		9,0
10,0	65,9	21,1	21 400	20 200	19 200	18 000	10,0
12,0	59,8	20,1	16 800	16 000	15 300	14 700	12,0
14,0	53,3	18,8	13 700	13 200	12 700	12 300	14,0
16,0	46,2	17,0	11 500	11 100	10 800	10 500	16,0
18,0	38,2	14,8	9 900	9 600	9 300	9 100	18,0
24,4 m Boom							
4,9	81,6	25,8	57 200 *				4,9
5,0	81,3	25,8	55 900 *				5,0
5,5	80,1	25,7	50 900 *				5,5
6,0	78,9	25,6	45 100				6,0
7,0	76,5	25,4	35 600				7,0
8,0	74,0	25,1	29 200	27 200			8,0
9,0	71,6	24,8	24 700	22 900			9,0
10,0	69,1	24,5	21 300	19 900	18 800		10,0
12,0	63,9	23,6	16 700	15 800	15 000	14 200	12,0
14,0	58,5	22,4	13 600	13 000	12 400	11 900	14,0
16,0	52,8	21,1	11 400	11 000	10 500	10 200	16,0
18,0	46,6	19,3	9 800	9 400	9 200	8 800	18,0
27,4 m Boom							
5,2	81,9	28,9	53 800 *				5,2
5,5	81,2	28,8	50 000 *				5,5
6,0	80,1	28,7	44 200				6,0
7,0	78,0	28,5	35 000				7,0
8,0	75,8	28,3	28 700				8,0
9,0	73,7	28,0	24 300	22 700			9,0
10,0	71,5	27,7	21 000	19 800	18 400		10,0
12,0	67,0	26,9	16 400	15 700	14 800		12,0
14,0	62,4	26,0	13 400	12 900	12 200	11 700	14,0
16,0	57,5	24,8	11 200	10 800	10 400	10 000	16,0
18,0	52,4	23,4	9 600	9 300	8 900	8 600	18,0
20,0	46,9	21,6	8 300	8 100	7 800	7 600	20,0
22,0	41,5	19,8	7 300	7 100	7 000	6 800	22,0



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30,5 m Boom							
5,9	81,5	31,9	46 100 *				5,9
6,0	81,1	31,8	44 600 *				6,0
7,0	79,2	31,7	35 300				7,0
8,0	77,3	31,4	29 100				8,0
9,0	75,4	31,2	24 600				9,0
10,0	73,4	30,9	21 200	19 500			10,0
12,0	69,4	30,2	16 500	15 400	14 600		12,0
14,0	65,3	29,4	13 400	12 700	12 100	11 400	14,0
16,0	61,1	28,3	11 200	10 700	10 200	9 700	16,0
18,0	56,7	27,1	9 600	9 100	8 800	8 400	18,0
20,0	52,1	25,7	8 300	7 900	7 700	7 400	20,0
22,0	47,7	24,2	7 300	7 000	6 800	6 500	22,0
24,0	42,3	22,1	6 500	6 300	6 000	5 900	24,0
33,5 m Boom							
6,1	81,8	34,9	41 900 *				6,1
7,0	80,2	34,8	35 300				7,0
8,0	78,5	34,6	29 000				8,0
9,0	76,7	34,3	24 500				9,0
10,0	74,9	34,1	21 200				10,0
12,0	71,4	33,5	16 600	15 300			12,0
14,0	67,7	32,7	13 500	12 600			14,0
16,0	64,0	31,8	11 300	10 600	10 000	9 500	16,0
18,0	60,1	30,7	9 700	9 000	8 600	8 200	18,0
20,0	56,0	29,4	8 400	7 900	7 500	7 200	20,0
22,0	52,3	28,2	7 400	6 900	6 600	6 400	22,0
24,0	47,8	26,5	6 600	6 100	5 900	5 700	24,0
26,0	43,0	24,5	5 900	5 500	5 300	5 200	26,0
28,0	37,6	22,1	5 300	5 000	4 800	4 700	28,0
36,6 m Boom							
6,8	81,5	37,9	36 500 *				6,8
7,0	81,0	37,9	34 900 *				7,0
8,0	79,4	37,7	28 900				8,0
9,0	77,8	37,5	24 300				9,0
10,0	76,2	37,2	21 000				10,0
12,0	73,0	36,7	16 400	15 200			12,0
14,0	69,7	36,0	13 200	12 500	11 600		14,0
16,0	66,3	35,2	11 100	10 400	9 800		16,0
18,0	62,8	34,2	9 500	8 900	8 400	8 000	18,0
20,0	59,2	33,1	8 200	7 700	7 300	7 000	20,0
22,0	55,9	31,9	7 200	6 800	6 500	6 200	22,0
24,0	52,0	30,5	6 300	6 000	5 800	5 600	24,0
26,0	47,9	28,8	5 700	5 400	5 200	5 000	26,0
28,0	43,5	26,8	5 100	4 800	4 700	4 500	28,0
30,0	38,7	24,5	4 600	4 400	4 300	4 100	30,0
32,0	33,3	21,7	4 200	4 300	3 900	3 800	32,0



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39,6 m Boom							
7,5	81,3	40,9	32 200 *				7,5
8,0	80,5	40,8	29 100				8,0
9,0	79,0	40,6	24 000				9,0
10,0	77,5	40,4	21 200				10,0
12,0	74,5	39,9	16 400	15 000			12,0
14,0	71,4	39,2	13 300	12 300			14,0
16,0	68,3	38,5	11 100	10 300	9 600		16,0
18,0	65,2	37,6	9 400	8 800	8 300		18,0
20,0	61,9	36,6	8 100	7 600	7 200	6 900	20,0
22,0	58,5	35,6	7 100	6 700	6 300	6 100	22,0
24,0	55,0	34,3	6 300	5 900	5 600	5 400	24,0
26,0	51,4	32,8	5 500	5 200	5 000	4 800	26,0
28,0	47,5	31,1	5 000	4 700	4 500	4 400	28,0
30,0	43,4	29,1	4 500	4 200	4 100	3 900	30,0
32,0	38,9	26,8	4 100	3 900	3 700	3 600	32,0
42,7 m Boom							
7,4	81,9	44,0	27 900 *				7,4
8,0	81,2	43,9	27 400 *				8,0
9,0	79,8	43,7	24 400				9,0
10,0	78,4	43,5	21 000				10,0
12,0	75,6	43,0	16 300				12,0
14,0	72,8	42,4	13 200				14,0
16,0	70,0	41,7	11 000	10 200	9 500		16,0
18,0	67,1	40,9	9 300	8 700	8 200		18,0
20,0	64,1	40,0	8 100	7 500	7 000	6 600	20,0
22,0	61,0	39,1	7 000	6 500	6 200	5 900	22,0
24,0	57,9	37,9	6 100	5 800	5 500	5 200	24,0
26,0	54,6	36,6	5 400	5 100	4 900	4 700	26,0
28,0	51,2	35,1	4 900	4 600	4 400	4 200	28,0
30,0	47,6	33,4	4 400	4 100	4 000	3 800	30,0
32,0	43,8	31,4	3 900	3 700	3 600	3 400	32,0
34,0	39,7	29,2	3 600	3 400	3 300	3 200	34,0
36,0	35,3	26,6	3 300	3 100	3 000	2 900	36,0



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45,7 m Boom							
7,9	81,7	47,0	23 800 *				7,9
8,0	81,6	47,0	23 800 *				8,0
9,0	79,2	46,8	23 200 *				9,0
10,0	76,6	46,6	20 900				10,0
12,0	74,0	46,2	16 200				12,0
14,0	71,4	45,6	13 100				14,0
16,0	68,7	45,0	10 900	10 100			16,0
18,0	65,9	44,2	9 200	8 600	8 000		18,0
20,0	63,1	43,4	8 000	7 400	6 900	6 100	20,0
22,0	60,3	42,5	6 900	6 500	6 100	5 700	22,0
24,0	57,3	41,5	6 100	5 700	5 400	5 100	24,0
26,0	54,2	40,2	5 400	5 100	4 700	4 600	26,0
28,0	51,1	38,9	4 800	4 500	4 300	4 100	28,0
30,0	47,7	37,4	4 300	4 000	3 900	3 700	30,0
32,0	44,2	35,7	3 900	3 600	3 500	3 400	32,0
34,0	40,4	33,7	3 500	3 300	3 100	3 100	34,0
36,0	36,3	31,6	3 200	3 000	2 900	2 800	36,0
38,0	31,8	29,1	2 900	2 700	2 600	2 500	38,0
48,8 m Boom							
8,6	81,5	50,0	19 900 *				8,6
9,0	81,1	49,9	19 700 *				9,0
10,0	79,9	49,7	19 200 *				10,0
12,0	77,5	49,3	16 200				12,0
14,0	75,0	48,8	13 100				14,0
16,0	72,6	48,2	10 900				16,0
18,0	70,1	47,5	9 200	8 500			18,0
20,0	67,5	46,7	8 000	7 300	6 900		20,0
22,0	64,9	45,9	6 900	6 400	6 000	5 300	22,0
24,0	62,3	44,9	6 000	5 600	5 300	5 000	24,0
26,0	59,6	43,8	5 400	5 000	4 700	4 400	26,0
28,0	56,8	42,6	4 700	4 400	4 200	4 000	28,0
30,0	53,9	41,2	4 200	4 000	3 800	3 600	30,0
32,0	50,9	39,7	3 800	3 600	3 400	3 200	32,0
34,0	47,8	38,0	3 400	3 200	3 100	2 900	34,0
36,0	44,5	36,0	3 100	2 900	2 800	2 700	36,0
38,0	41,0	33,9	2 800	2 700	2 500	2 400	38,0
40,0	37,2	31,5	2 600	2 400	2 300	2 200	40,0
42,0	33,1	28,7	2 300		2 100	2 000	42,0



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51,8 m Boom							
8,6	82,0	53,0	17 600 *				8,6
9,0	81,6	53,0	17 500 *				9,0
10,0	80,5	52,8	16 900 *				10,0
12,0	78,2	52,4	15 900 *				12,0
14,0	75,9	51,9	13 000				14,0
16,0	73,6	51,4	10 800				16,0
18,0	71,3	50,7	9 100	8 400			18,0
20,0	68,9	50,0	7 800	7 200	6 700		20,0
22,0	66,5	49,3	6 800	6 300	5 900		22,0
24,0	64,1	48,3	5 900	5 500	5 200	4 600	24,0
26,0	61,6	47,3	5 200	4 800	4 600	4 300	26,0
28,0	59,0	46,2	4 600	4 300	4 100	3 900	28,0
30,0	56,4	44,9	4 100	3 900	3 600	3 500	30,0
32,0	53,6	43,5	3 700	3 500	3 200	3 100	32,0
34,0	50,8	42,0	3 300	3 100	3 000	2 800	34,0
36,0	47,9	40,3	3 000	2 800	2 600	2 600	36,0
38,0	44,8	38,4	2 700	2 500	2 400	2 300	38,0
40,0	41,5	36,2	2 400	2 300	2 100	2 000	40,0
42,0	38,0	33,9	2 200	2 000	1 900	1 800	42,0
44,0	34,2	31,1	2 000	1 800	1 700	1 600	44,0
54,9 m Boom							
9,4	81,8	56,0	15 300 *				9,4
10,0	82,2	55,9	14 900 *				10,0
12,0	81,1	55,5	14 100 *				12,0
14,0	79,0	55,1	12 900 *				14,0
16,0	76,9	54,6	10 700				16,0
18,0	74,7	54,0	9 000				18,0
20,0	72,5	53,3	7 700	7 100	6 100		20,0
22,0	70,3	52,6	6 700	6 100	5 700		22,0
24,0	68,1	51,7	5 800	5 400	5 000	4 100	24,0
26,0	65,8	50,8	5 100	4 700	4 500	3 900	26,0
28,0	61,1	49,7	4 500	4 200	3 900	3 700	28,0
30,0	58,7	48,5	4 000	3 700	3 500	3 300	30,0
32,0	56,2	47,2	3 600	3 300	3 100	2 900	32,0
34,0	53,7	45,8	3 200	3 000	2 800	2 600	34,0
36,0	51,0	44,3	2 900	2 600	2 500	2 300	36,0
38,0	48,3	42,6	2 600	2 400	2 100	2 100	38,0
40,0	45,4	40,7	2 300	2 100	2 000	1 800	40,0
42,0	42,4	38,6	2 000	1 800	1 800	1 600	42,0
44,0	39,1	36,2	1 800	1 600	1 600	1 400	44,0
46,0	35,7	33,6	1 600	1 500	1 400	1 300	46,0



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