

Liftcrane Boom Capacities

34 000 kg Crane Counterweight
Extended Position Crawlers
360 Degree Rating

12000E SERIES 2

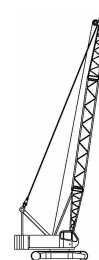
LIFTING CAPACITIES:

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. Lifting capacities for various boom lengths and operating radii are for freely suspended loads and are calculated to comply with DIN 15018/3 and EN 13000. 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 values detailed on chart No. 14S7767R01-DUPEN (Liftcrane Detachable Upper Point Capacities).
10. 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.
11. 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.
12. Consult jib chart for liftcrane jib capacities.



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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 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.
- The total load that can be lifted over a jib is limited by the rated jib loads.
- 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)	11 000	22 000	33 000	44 000	55 000

No. of Parts of Line	6	7	8	9	10
Maximum Loads (kg)	66 000	77 000	88 000	99 000	110 000

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

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.	

- Front and rear load hoist drum wire rope: 26 mm, U3xSeS(48) O/O, Minimum breaking strength: 61 300 kg.
Front Drum: 265 m, Rear Drum: 235 m.
- 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	81,6	17,2	110 000 *
4,0	80,1	17,2	98 600 *
5,0	76,2	16,9	77 700 *
6,0	72,3	16,6	62 200 *
7,0	68,3	16,3	53 300 *
8,0	64,1	15,8	44 500
9,0	59,8	15,2	37 600
10,0	55,3	14,6	32 500
12,0	45,4	12,9	25 500
14,0	33,2	10,3	20 800
14,4	30,0	9,6	20 100
18,3 m Boom			
4,1	81,4	20,2	95 300 *
5,0	78,5	20,1	77 700 *
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	65,3	18,7	37 500
10,0	61,7	18,2	32 400
12,0	54,3	16,9	25 300
14,0	46,0	15,2	20 700
16,0	36,3	12,8	17 400
17,1	30,0	11,1	16 000
21,3 m Boom			
4,6	81,4	23,2	86 000 *
5,0	80,2	23,2	77 700 *
6,0	77,5	23,0	62 200 *
7,0	74,7	22,7	53 200 *
8,0	71,9	22,4	44 400
9,0	69,0	22,0	37 400
10,0	66,1	21,6	32 300
12,0	60,0	20,5	25 200
14,0	53,5	19,2	20 600
16,0	46,4	17,5	17 300
18,0	38,4	15,2	14 800
19,7	30,0	12,7	13 200

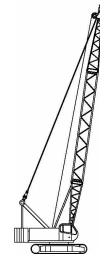
Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
24,4 m Boom			
5,0	81,4	26,3	77 000 *
6,0	79,1	26,1	62 200 *
7,0	76,6	25,9	53 100 *
8,0	74,2	25,6	44 200
9,0	71,7	25,3	37 300
10,0	69,2	24,9	32 200
12,0	64,1	24,0	25 100
14,0	58,7	22,9	20 400
16,0	53,0	21,5	17 100
18,0	46,8	19,8	14 700
20,0	39,8	17,6	12 800
22,0	31,7	14,8	11 300
22,4	30,0	14,1	11 100
27,4 m Boom			
5,5	81,4	29,3	66 000 *
6,0	80,3	29,2	60 700 *
7,0	78,2	29,0	51 200 *
8,0	76,0	28,8	44 200
9,0	73,8	28,5	37 300
10,0	71,6	28,1	32 200
12,0	67,2	27,4	25 100
14,0	62,5	26,4	20 400
16,0	57,7	25,2	17 100
18,0	52,5	23,8	14 600
20,0	47,0	22,1	12 700
22,0	40,9	20,0	11 200
24,0	34,0	17,3	10 000
25,0	30,0	15,7	9 500
30,5 m Boom			
5,9	81,4	32,3	58 900 *
6,0	81,3	32,3	58 200 *
7,0	79,4	32,1	49 400 *
8,0	77,4	31,9	42 700 *
9,0	75,5	31,6	37 200
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	16 900
18,0	56,8	27,6	14 500
20,0	52,2	26,1	12 600
22,0	47,2	24,4	11 100
24,0	41,8	22,3	9 800
26,0	35,7	19,8	8 800
27,6	30,0	17,3	8 100

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
33,5 m Boom			
6,4	81,4	35,3	52 400 *
7,0	80,3	35,2	47 600 *
8,0	78,6	35,0	41 400 *
9,0	76,8	34,8	36 500 *
10,0	75,1	34,5	32 000
12,0	71,5	33,9	24 900
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	12 500
22,0	51,9	28,4	11 000
24,0	47,4	26,7	9 800
26,0	42,5	24,7	8 700
28,0	37,1	22,2	7 900
30,0	30,9	19,2	7 200
30,3	30,0	18,7	7 100
36,6 m Boom			
6,8	81,4	38,3	47 100 *
7,0	81,1	38,3	46 000 *
8,0	79,6	38,1	40 100 *
9,0	78,0	37,9	35 500 *
10,0	76,3	37,7	31 700 *
12,0	73,1	37,1	24 800
14,0	69,8	36,4	20 100
16,0	66,4	35,6	16 700
18,0	62,9	34,6	14 300
20,0	59,3	33,5	12 400
22,0	55,6	32,2	10 800
24,0	51,7	30,7	9 600
26,0	47,5	29,0	8 600
28,0	43,1	27,0	7 700
30,0	38,2	24,6	7 000
32,0	32,8	21,8	6 400
32,9	30,0	20,3	6 100



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39,6 m Boom			
7,3	81,4	41,3	42 700 *
8,0	80,4	41,2	38 900 *
9,0	78,9	41,0	34 500 *
10,0	77,4	40,8	30 900 *
12,0	74,4	40,3	24 700
14,0	71,4	39,7	20 000
16,0	68,3	38,9	16 700
18,0	65,2	38,0	14 200
20,0	61,9	37,0	12 300
22,0	58,6	35,9	10 800
24,0	55,1	34,5	9 500
26,0	51,5	33,0	8 500
28,0	47,6	31,3	7 600
30,0	43,6	29,3	6 900
32,0	39,2	27,0	6 300
34,0	34,3	24,3	5 700
35,6	30,0	21,7	5 300
42,7 m Boom			
7,8	81,4	44,3	38 900 *
8,0	81,1	44,3	37 700 *
9,0	79,7	44,1	33 500 *
10,0	78,3	43,9	30 100 *
12,0	75,6	43,5	24 600
14,0	72,8	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	12 200
22,0	61,0	39,4	10 600
24,0	57,9	38,2	9 400
26,0	54,7	36,9	8 400
28,0	51,3	35,3	7 500
30,0	47,7	33,6	6 800
32,0	44,0	31,6	6 100
34,0	39,9	29,4	5 600
36,0	35,5	26,8	5 100
38,0	30,5	23,6	4 700
38,2	30,0	23,3	4 600

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
45,7 m Boom			
8,2	81,4	47,4	35 600 *
9,0	80,4	47,2	32 400 *
10,0	79,1	47,0	29 100 *
12,0	76,6	46,6	24 000 *
14,0	74,0	46,1	19 800
16,0	71,3	45,4	16 400
18,0	68,7	44,7	13 900
20,0	65,9	43,8	12 000
22,0	63,1	42,9	10 500
24,0	60,3	41,8	9 200
26,0	57,3	40,5	8 200
28,0	54,3	39,2	7 300
30,0	51,1	37,6	6 600
32,0	47,8	35,9	5 900
34,0	44,3	33,9	5 400
36,0	40,6	31,7	4 900
38,0	36,5	29,2	4 500
40,0	32,0	26,2	4 100
40,8	30,0	24,9	4 000
48,8 m Boom			
8,7	81,4	50,4	32 900 *
9,0	81,0	50,3	31 700 *
10,0	79,8	50,1	28 500 *
12,0	77,4	49,7	23 600 *
14,0	75,0	49,2	19 700
16,0	72,5	48,6	16 400
18,0	70,0	47,9	13 900
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	59,6	44,1	8 200
28,0	56,8	42,9	7 300
30,0	54,0	41,5	6 500
32,0	51,0	39,9	5 900
34,0	47,9	38,2	5 300
36,0	44,6	36,3	4 800
38,0	41,2	34,1	4 400
40,0	37,4	31,6	4 000
42,0	33,3	28,8	3 700
43,5	30,0	26,3	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	30 400 *
10,0	80,4	53,2	27 700 *
12,0	78,2	52,9	23 000 *
14,0	75,9	52,4	19 400 *
16,0	73,6	51,8	16 300
18,0	71,3	51,2	13 800
20,0	68,9	50,4	11 900
22,0	66,5	49,6	10 300
24,0	64,1	48,7	9 100
26,0	61,6	47,6	8 000
28,0	59,0	46,5	7 200
30,0	56,4	45,2	6 400
32,0	53,7	43,8	5 800
34,0	50,9	42,2	5 200
36,0	48,0	40,5	4 700
38,0	44,9	38,6	4 300
40,0	41,7	36,4	3 900
42,0	38,2	34,0	3 500
44,0	34,4	31,3	3 200
46,0	30,2	28,1	2 900
46,1	30,0	27,9	2 900
54,9 m Boom			
9,6	81,4	56,4	28 100 *
10,0	81,0	56,3	27 000 *
12,0	78,8	56,0	22 400 *
14,0	76,7	55,5	18 900 *
16,0	74,5	55,0	16 100
18,0	72,3	54,4	13 600
20,0	70,1	53,7	11 700
22,0	67,9	52,9	10 200
24,0	65,6	52,1	8 900
26,0	63,3	51,1	7 900
28,0	60,9	50,0	7 000
30,0	58,5	48,8	6 300
32,0	56,0	47,5	5 600
34,0	53,4	46,1	5 000
36,0	50,8	44,5	4 600
38,0	48,0	42,8	4 100
40,0	45,1	40,9	3 700
42,0	42,1	38,8	3 300
44,0	38,9	36,4	3 000
46,0	35,4	33,7	2 700
48,0	31,5	30,7	2 400
48,8	30,0	29,3	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	26 100 *
12,0	79,4	59,1	21 700 *
14,0	77,4	58,7	18 400 *
16,0	75,4	58,2	15 800 *
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	64,8	54,5	7 700
28,0	62,6	53,5	6 900
30,0	60,3	52,4	6 100
32,0	58,0	51,2	5 500
34,0	55,7	49,9	4 900
36,0	53,2	48,4	4 400
38,0	50,7	46,8	4 000
40,0	48,1	45,1	3 500
42,0	45,3	43,2	3 200
44,0	42,5	41,1	2 800
46,0	39,4	38,8	2 500
48,0	36,2	36,2	2 200
50,0	32,7	33,2	2 000
51,4	30,0	30,9	1 800
61,0 m Boom			
10,5	81,4	62,4	22 000 *
12,0	80,0	62,2	21 400 *
14,0	78,0	61,8	18 200 *
16,0	76,1	61,3	15 600 *
18,0	74,2	60,8	13 500
20,0	72,2	60,2	11 600
22,0	70,2	59,5	10 100
24,0	68,2	58,7	8 800
26,0	66,2	57,8	7 700
28,0	64,1	56,9	6 900
30,0	62,0	55,9	6 100
32,0	59,8	54,7	5 500
34,0	57,6	53,5	4 900
36,0	55,3	52,2	4 400
38,0	53,0	50,7	3 900

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
61,0 m Boom			
40,0	50,6	49,1	3 500
42,0	48,1	47,4	3 100
44,0	45,5	45,5	2 800
46,0	42,8	43,4	2 500
48,0	40,0	41,1	2 200
50,0	36,9	38,6	1 900
52,0	33,6	35,7	1 700
54,0	30,1	32,5	1 500
64,0 m Boom			
10,9	81,4	65,5	22 000 *
12,0	80,4	65,3	20 800 *
14,0	78,6	64,9	17 600 *
16,0	76,8	64,5	15 200 *
18,0	74,9	63,9	13 200 *
20,0	73,1	63,4	11 400
22,0	71,2	62,7	9 900
24,0	69,3	62,0	8 600
26,0	67,4	61,2	7 600
28,0	65,4	60,3	6 700
30,0	63,4	59,3	6 000
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	3 800
40,0	52,8	53,0	3 300
42,0	50,5	51,4	2 900
44,0	48,2	49,7	2 600
46,0	45,7	47,8	2 300
48,0	43,1	45,8	2 000
50,0	40,4	43,5	1 700
52,0	37,6	41,0	1 500

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
67,1 m Boom			
11,4	81,4	68,5	19 100 *
12,0	80,9	68,4	18 400 *
14,0	79,1	68,0	16 500 *
16,0	77,4	67,6	14 800 *
18,0	75,6	67,1	12 800 *
20,0	73,9	66,5	11 300
22,0	72,1	65,9	9 800
24,0	70,3	65,2	8 500
26,0	68,4	64,5	7 500
28,0	66,6	63,6	6 600
30,0	64,7	62,7	5 800
32,0	62,8	61,7	5 200
34,0	60,9	60,6	4 600
36,0	58,9	59,5	4 100
38,0	56,8	58,2	3 600
40,0	54,8	56,8	3 200
42,0	52,7	55,3	2 800
44,0	50,5	53,7	2 400
46,0	48,2	52,0	2 100
48,0	45,9	50,1	1 800
50,0	43,4	48,1	1 600
70,1 m Boom			
11,9	81,4	71,5	15 000 *
12,0	81,3	71,5	14 900 *
14,0	79,6	71,1	13 100 *
16,0	78,0	70,7	11 700 *
18,0	76,3	70,2	10 400 *
20,0	74,6	69,7	9 300 *
22,0	72,9	69,1	8 300 *
24,0	71,2	68,5	7 500 *
26,0	69,4	67,7	6 700 *
28,0	67,7	66,9	6 000 *
30,0	65,9	66,1	5 300 *
32,0	64,1	65,1	4 700 *
34,0	62,2	64,1	4 200 *
36,0	60,4	63,0	3 700 *
38,0	58,5	61,8	3 200 *
40,0	56,5	60,5	2 700 *
42,0	54,5	59,1	2 300 *
44,0	52,5	57,6	1 900 *
46,0	50,4	56,0	1 600 *