



Liftcrane Detachable Upper Point 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.



Liftcrane Detachable Upper Point Capacities

34 000 kg Crane Counterweight
Extended Position Crawlers
360 Degree Rating

12000E SERIES 2

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)	11 000	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

2. The total load that can be lifted over a jib is limited by the rated jib loads.

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, U3xSeS(48) O/O, Minimum breaking strength: 61 300 kg.
Front Drum: 265 m, Rear Drum: 235 m.
4. Boom hoist wire rope: 155 m, 20 mm, 6 x 31, WS, IWRC O/O, Minimum breaking strength: 33 400 kg.



Liftcrane Detachable Upper Point Capacities

34 000 kg Crane Counterweight
Extended Position Crawlers
360 Degree Rating

12000E SERIES 2

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
15,2 m Boom			
4,8	80,6	16,5	22 000 *
5,0	79,9	16,4	22 000 *
6,0	76,4	16,2	22 000 *
7,0	72,8	15,8	22 000 *
8,0	69,2	15,4	22 000 *
9,0	65,4	14,9	22 000 *
10,0	61,5	14,3	22 000 *
12,0	53,1	12,9	22 000 *
14,0	43,5	10,9	20 400
16,0	31,4	7,9	15 700
18,3 m Boom			
5,3	80,6	19,5	22 000 *
6,0	78,6	19,3	22 000 *
7,0	75,6	19,0	22 000 *
8,0	72,5	18,7	22 000 *
9,0	69,4	18,3	22 000 *
10,0	66,3	17,8	22 000 *
12,0	59,6	16,7	22 000 *
14,0	52,5	15,2	20 300
16,0	44,4	13,2	17 000
18,0	34,8	10,6	13 700
18,7	30,8	9,3	12 500
21,3 m Boom			
5,8	80,6	22,5	22 000 *
6,0	80,1	22,4	22 000 *
7,0	77,5	22,2	22 000 *
8,0	74,9	21,9	22 000 *
9,0	72,3	21,6	22 000 *
10,0	69,6	21,2	22 000 *
12,0	64,1	20,2	22 000 *
14,0	58,3	19,0	20 200
16,0	52,0	17,5	16 900
18,0	45,1	15,6	14 400
20,0	37,1	13,1	11 900
21,3	30,9	10,9	10 200

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
24,4 m Boom			
6,2	80,8	25,5	22 000 *
7,0	79,0	25,3	22 000 *
8,0	76,8	25,1	22 000 *
9,0	74,5	24,8	22 000 *
10,0	72,1	24,4	22 000 *
12,0	67,4	23,6	22 000 *
14,0	62,4	22,6	20 000
16,0	57,2	21,3	16 700
18,0	51,6	19,8	14 300
20,0	45,6	17,9	12 400
22,0	38,7	15,5	10 900
24,0	30,5	12,3	9 400
27,4 m Boom			
6,7	80,8	28,5	22 000 *
7,0	80,2	28,5	22 000 *
8,0	78,2	28,2	22 000 *
9,0	76,1	28,0	22 000 *
10,0	74,1	27,7	22 000 *
12,0	69,9	26,9	22 000 *
14,0	65,6	26,0	20 000
16,0	61,1	25,0	16 700
18,0	56,4	23,6	14 200
20,0	51,4	22,1	12 300
22,0	45,9	20,2	10 800
24,0	39,9	17,9	9 600
26,0	33,0	15,0	8 400
26,6	30,6	13,9	8 000
30,5 m Boom			
7,2	80,8	31,5	22 000 *
8,0	79,3	31,4	22 000 *
9,0	77,5	31,1	22 000 *
10,0	75,6	30,9	22 000 *
12,0	71,9	30,2	22 000 *
14,0	68,0	29,4	19 900
16,0	64,1	28,4	16 500
18,0	60,0	27,3	14 100
20,0	55,7	26,0	12 200
22,0	51,1	24,4	10 700
24,0	46,2	22,5	9 400
26,0	40,9	20,3	8 400
28,0	34,8	17,5	7 400
29,2	30,7	15,5	6 800

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
33,5 m Boom			
7,6	80,9	34,5	22 000 *
8,0	80,3	34,5	22 000 *
9,0	78,6	34,3	22 000 *
10,0	76,9	34,0	22 000 *
12,0	73,5	33,4	22 000 *
14,0	70,1	32,7	19 800
16,0	66,5	31,8	16 500
18,0	62,9	30,8	14 000
20,0	59,1	29,6	12 100
22,0	55,1	28,3	10 600
24,0	50,9	26,7	9 400
26,0	46,5	24,8	8 300
28,0	41,7	22,6	7 500
30,0	36,3	20,0	6 800
31,9	30,4	17,0	6 100
36,6 m Boom			
8,1	80,9	37,6	22 000 *
9,0	79,5	37,4	22 000 *
10,0	78,0	37,2	22 000 *
12,0	74,9	36,6	22 000 *
14,0	71,7	36,0	19 700 *
16,0	68,5	35,2	16 300
18,0	65,2	34,3	13 900
20,0	61,8	33,2	12 000
22,0	58,3	32,0	10 400
24,0	54,6	30,6	9 200
26,0	50,8	29,0	8 200
28,0	46,7	27,1	7 300
30,0	42,3	25,0	6 600
32,0	37,5	22,5	6 000
34,0	32,0	19,4	5 400
34,5	30,5	18,5	5 200



Liftcrane Detachable Upper Point Capacities

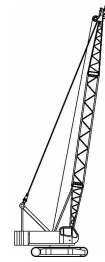
34 000 kg Crane Counterweight
Extended Position Crawlers
360 Degree Rating

12000E SERIES 2

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

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
45,7 m Boom			
9,4	81,1	46,6	22 000 *
10,0	80,3	46,5	22 000 *
12,0	77,9	46,1	22 000 *
14,0	75,4	45,6	19 400 *
16,0	72,8	44,9	16 000
18,0	70,3	44,2	13 500
20,0	67,6	43,4	11 600
22,0	65,0	42,5	10 100
24,0	62,3	41,4	8 800
26,0	59,4	40,3	7 800
28,0	56,6	39,0	6 900
30,0	53,6	37,5	6 200
32,0	50,4	35,9	5 500
34,0	47,2	34,0	5 000
36,0	43,7	32,0	4 500
38,0	40,0	29,7	4 100
40,0	35,9	27,0	3 700
42,0	31,4	23,8	3 300
42,4	30,4	23,1	3 200
48,8 m Boom			
9,9	81,0	49,6	22 000 *
10,0	80,9	49,6	22 000 *
12,0	78,6	49,2	22 000 *
14,0	76,3	48,7	19 300 *
16,0	73,9	48,1	16 000
18,0	71,5	47,5	13 500
20,0	69,1	46,7	11 600
22,0	66,6	45,9	10 100
24,0	64,1	44,9	8 800
26,0	61,5	43,8	7 800
28,0	58,8	42,6	6 900
30,0	56,1	41,3	6 100
32,0	53,3	39,8	5 500
34,0	50,3	38,2	4 900
36,0	47,3	36,4	4 400
38,0	44,0	34,3	4 000
40,0	40,6	32,0	3 600
42,0	36,8	29,4	3 300
44,0	32,7	26,4	3 000
45,1	30,3	24,6	2 800

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
51,8 m Boom			
10,4	81,0	52,6	22 000 *
12,0	79,3	52,3	22 000 *
14,0	77,1	51,9	19 000 *
16,0	74,9	51,3	15 900 *
18,0	72,6	50,7	13 400
20,0	70,3	50,0	11 500
22,0	68,0	49,2	9 900
24,0	65,7	48,3	8 700
26,0	63,3	47,3	7 600
28,0	60,8	46,2	6 800
30,0	58,3	45,0	6 000
32,0	55,7	43,6	5 400
34,0	53,0	42,1	4 800
36,0	50,3	40,5	4 300
38,0	47,4	38,7	3 900
40,0	44,3	36,6	3 500
42,0	41,1	34,4	3 100
44,0	37,6	31,9	2 800
46,0	33,9	29,0	2 500
47,7	30,3	26,2	2 200
54,9 m Boom			
10,8	81,1	55,6	22 000 *
12,0	79,9	55,4	22 000 *
14,0	77,8	55,0	18 500 *
16,0	75,7	54,5	15 700 *
18,0	73,6	53,9	13 200
20,0	71,4	53,2	11 300
22,0	69,3	52,5	9 800
24,0	67,1	51,6	8 500
26,0	64,8	50,7	7 500
28,0	62,5	49,7	6 600
30,0	60,2	48,5	5 900
32,0	57,8	47,3	5 200
34,0	55,4	45,9	4 600
36,0	52,8	44,4	4 200
38,0	50,2	42,8	3 700
40,0	47,5	41,0	3 300
42,0	44,6	39,0	2 900
44,0	41,6	36,7	2 600
46,0	38,3	34,3	2 300
48,0	34,9	31,5	2 000
50,0	31,0	28,3	1 700
50,4	30,2	27,6	1 600



Liftcrane Detachable Upper Point Capacities

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

12000E SERIES 2

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
57,9 m Boom			
11,3	81,1	58,7	22 000 *
12,0	80,4	58,5	21 300 *
14,0	78,4	58,1	18 000 *
16,0	76,4	57,6	15 400 *
18,0	74,4	57,1	13 100
20,0	72,4	56,5	11 200
22,0	70,4	55,7	9 600
24,0	68,3	55,0	8 400
26,0	66,2	54,1	7 300
28,0	64,1	53,1	6 500
30,0	61,9	52,0	5 700
32,0	59,7	50,9	5 100
34,0	57,4	49,6	4 500
36,0	55,0	48,2	4 000
38,0	52,6	46,7	3 600
40,0	50,1	45,1	3 100
42,0	47,5	43,3	2 800
44,0	44,8	41,3	2 400
46,0	42,0	39,1	2 100
48,0	39,0	36,7	1 800
50,0	35,7	34,0	1 600
61,0 m Boom			
11,7	81,1	61,7	21 100 *
12,0	80,9	61,6	21 000 *
14,0	79,0	61,2	17 800 *
16,0	77,1	60,8	15 200 *
18,0	75,2	60,3	13 100
20,0	73,3	59,7	11 200
22,0	71,4	59,0	9 700
24,0	69,4	58,2	8 400
26,0	67,4	57,4	7 300
28,0	65,4	56,5	6 500
30,0	63,4	55,5	5 700
32,0	61,3	54,4	5 100
34,0	59,2	53,2	4 500
36,0	57,0	51,9	4 000
38,0	54,8	50,5	3 500
40,0	52,5	49,0	3 100
42,0	50,1	47,4	2 700
44,0	47,6	45,6	2 400
46,0	45,0	43,6	2 100
48,0	42,4	41,4	1 800
50,0	39,5	39,1	1 500

Load Radius (m)	Boom Angle (deg)	Boom Point Elev. (m)	360° Rated Load (kg)
64,0 m Boom			
12,2	81,1	64,7	20 000 *
14,0	79,5	64,3	17 200 *
16,0	77,7	63,9	14 800 *
18,0	75,9	63,4	12 800 *
20,0	74,1	62,8	11 000 *
22,0	72,3	62,2	9 500
24,0	70,4	61,5	8 200
26,0	68,6	60,7	7 200
28,0	66,7	59,9	6 300
30,0	64,7	58,9	5 600
32,0	62,8	57,9	4 900
34,0	60,8	56,8	4 300
36,0	58,7	55,6	3 800
38,0	56,6	54,3	3 400
40,0	54,5	52,9	2 900
42,0	52,3	51,3	2 500
44,0	50,0	49,7	2 200
46,0	47,7	47,9	1 900
48,0	45,2	45,9	1 600
67,1 m Boom			
12,6	81,2	67,7	17 400 *
14,0	80,0	67,5	16 100 *
16,0	78,3	67,0	14 400 *
18,0	76,6	66,6	12 400 *
20,0	74,8	66,0	10 900 *
22,0	73,1	65,4	9 400
24,0	71,3	64,7	8 100
26,0	69,6	64,0	7 100
28,0	67,8	63,2	6 200
30,0	65,9	62,3	5 400
32,0	64,1	61,3	4 800
34,0	62,2	60,3	4 200
36,0	60,3	59,1	3 700
38,0	58,3	57,9	3 200
40,0	56,3	56,6	2 800
42,0	54,3	55,2	2 400
44,0	52,2	53,6	2 000
46,0	50,0	52,0	1 700