

Liftcrane Boom Capacities

Boom No. 76
57 610 kg Crane Counterweight
0 kg Carbody Counterweight
360 Degree Rating

14000 SERIES 1



LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and are calculated to comply with EN 13000, ISO 4305 and include factors based on a 4,0 degree tipping angle. Capacities based on structural competence are denoted by an asterisk (*). Capacities indicated by (b) require 4 540 kg minimum weight.

Upper boom point capacity for liftcrane service with single part whip line is 14 290 kg or 27 220 kg with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 9 070 kg, or 18 140 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

71,0 m boom length requires only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point.

Weight of upper boom point, jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with gantry up. Refer to boom rigging **No. A16106**, and Wire Rope Specification chart **No. 8789-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.



WIND CONDITIONS: Machine may operate with full working load in wind speeds up to the maximum wind speed value provided crane operator judgment is used to allow for wind effect on lifted load and other considerations noted on capacity chart are followed. Wind speed to be measured at boom point elevation. Refer to Wind Conditions Chart **No. 8790-A** for effect of wind on

lifted load, additional maximum wind speeds when lifting percentage of full working load, and instructions for parking when wind speed exceeds maximum operating wind speed.

MACHINE TRAVEL: Machine to travel on a firm, level [up to 1 percent (0,5 degrees) grade] and uniformly supporting surface. *Travel with 100 percent of rated load prohibited.* Travel restricted to 90 percent of rated capacity with speed not to exceed 0,4 m/s. Boom must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8788-A**.

MAX PERMISSIBLE SLEWING SPEED: Slew operation with working load shall not exceed 0,4 m/s as measured at the operating radius. The amount of time to brake or start slewing a working load shall not be less than 2,5 seconds.



OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.

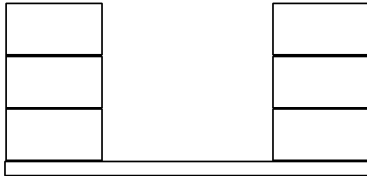


BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 8 280 mm crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 8 230 mm live mast, 20 part boom hoist reeving, boom support straps, 57 610 kg crane counterweight, and 0 kg carbody counterweight.



57 610 kg Crane Counterweight
6 Side Boxes - No Center Box

Deduct From Capacities When Jib Is Attached

Jib Length	Jib No. 134
9,1 m	1 770 kg
12,2 m	2 130 kg
15,2 m	2 540 kg
18,3 m	2 990 kg
21,3 m	3 450 kg
24,4 m	3 950 kg

Maximum Boom and Jib Lengths Lifted Unassisted

Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134
(a) 71,0 m	—	62,0 m	—
(a) 68,0 m	—	59,0 m	—
65,0 m	—	56,0 m	(b) 15,2 m
62,0 m	(b) 15,2 m	56,0 m	12,2 m
62,0 m	12,2 m	53,0 m	(c) 24,4 m
59,0 m	(c) 24,4 m	53,0 m	21,3 m
59,0 m	21,3 m	50,0 m	24,4 m
56,0 m	24,4 m		

Load block, hook and weight ball on ground at start.

(a) Upper boom point must be removed.

When boom catwalks are attached, (b) machine must be equipped with lowerworks jacking cylinders and (c) raising reserve is less than 10% tip weight.

Consult jib chart for jib capacities.

Upper boom point cannot be used when jib is attached.

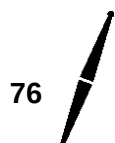
Upper Boom Point Deduct

Deduct 500 kg from capacities when upper boom point is attached.

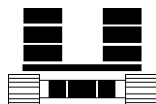
Boom Catwalks Deduct

Deduct 300 kg from capacities when boom catwalks are attached.

Explanation of Symbols



Boom No. 76



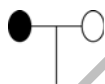
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



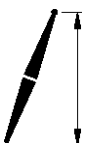
Maximum Wind Speed
(see page 1)



Operating Radius
(see page 1)



Boom Angle
(see page 1)

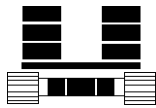


Boom Point Elevation
(see page 1)



Lifting Capacities
(see page 1)

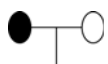
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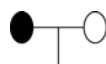


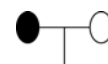
57 610 kg
+
0 kg



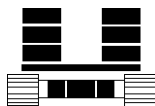
360°

 20,0 m  16 m/s			
m	°	m	kg
4,3	83,2	22,2	186 200 *b
5,0	81,1	22,1	161 000 *b
6,0	78,1	21,9	134 600 b
7,0	75,2	21,6	109 800
8,0	72,2	21,3	92 600
9,0	69,1	20,9	79 800
10,0	65,9	20,4	69 700
11,0	62,7	19,9	60 200
12,0	59,4	19,3	53 000
13,0	55,9	18,6	47 100
14,0	52,3	17,8	42 300
15,0	48,4	16,9	38 300
16,0	44,4	15,9	34 800
18,0	35,0	13,3	29 300

 23,0 m  16 m/s			
m	°	m	kg
4,9	82,6	25,1	164 600 *b
5,0	82,3	25,1	161 000 *b
6,0	79,7	24,9	128 500 b
7,0	77,2	24,7	105 700
8,0	74,6	24,4	89 500
9,0	71,9	24,1	77 400
10,0	69,3	23,7	68 000
11,0	66,6	23,3	60 300
12,0	63,8	22,8	53 000
13,0	60,9	22,2	47 200
14,0	58,0	21,6	42 400
15,0	54,9	20,9	38 300
16,0	51,7	20,1	34 900
18,0	44,9	18,2	29 400
20,0	37,0	15,7	25 200
22,0	27,1	12,3	21 800

 26,0 m  13 m/s			
m	°	m	kg
5,2	82,7	28,1	147 700
6,0	80,9	28,0	123 000
7,0	78,7	27,8	101 700
8,0	76,4	27,5	86 600
9,0	74,1	27,2	75 100
10,0	71,8	26,9	66 100
11,0	69,4	26,5	59 000
12,0	67,0	26,1	52 900
13,0	64,6	25,6	47 100
14,0	62,1	25,1	42 400
15,0	59,5	24,5	38 300
16,0	56,9	23,8	34 900
18,0	51,3	22,3	29 400
20,0	45,3	20,4	25 200
22,0	38,5	18,1	21 800
24,0	30,4	15,0	19 100

76



57 610 kg
+
0 kg



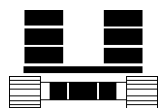
360°

29,0 m 13 m/s			
m	°	m	kg
5,5	82,9	31,1	131 200
6,0	81,9	31,0	117 900
7,0	79,9	30,9	98 200
8,0	77,8	30,6	83 900
9,0	75,8	30,4	73 000
10,0	73,7	30,1	64 500
11,0	71,6	29,7	57 600
12,0	69,5	29,4	51 900
13,0	67,4	28,9	47 100
14,0	65,2	28,5	42 400
15,0	63,0	28,0	38 400
16,0	60,7	27,4	34 900
18,0	56,0	26,1	29 400
20,0	51,0	24,5	25 200
22,0	45,6	22,7	21 900
24,0	39,6	20,4	19 100
26,0	32,7	17,5	16 900
28,0	23,9	13,6	14 900

32,0 m 11 m/s			
m	°	m	kg
5,8	83,0	34,1	117 800
6,0	82,6	34,1	113 200
7,0	80,8	33,9	94 700
8,0	79,0	33,7	81 200
9,0	77,2	33,5	70 900
10,0	75,3	33,2	62 700
11,0	73,4	32,9	56 100
12,0	71,5	32,6	50 700
13,0	69,6	32,2	46 100
14,0	67,7	31,8	42 200
15,0	65,7	31,3	38 300
16,0	63,7	30,8	34 800
18,0	59,6	29,7	29 300
20,0	55,3	28,4	25 100
22,0	50,7	26,8	21 800
24,0	45,9	24,9	19 100
26,0	40,5	22,7	16 800
28,0	34,4	20,0	14 900
30,0	27,2	16,4	13 200
32,0	17,1	11,2	11 800

35,0 m 11 m/s			
m	°	m	kg
6,7	82,1	37,0	96 000
7,0	81,6	37,0	91 700
8,0	80,0	36,8	78 800
9,0	78,3	36,6	68 900
10,0	76,6	36,3	61 100
11,0	74,9	36,0	54 800
12,0	73,2	35,7	49 500
13,0	71,5	35,4	45 100
14,0	69,7	35,0	41 300
15,0	67,9	34,6	38 000
16,0	66,1	34,2	34 900
18,0	62,5	33,2	29 300
20,0	58,7	32,0	25 100
22,0	54,7	30,6	21 700
24,0	50,5	29,0	19 000
26,0	46,1	27,2	16 800
28,0	41,2	25,0	14 900
30,0	35,8	22,4	13 200
32,0	29,6	19,1	11 800
34,0	21,7	14,7	10 600

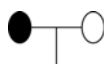
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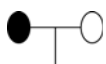


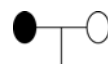
57 610 kg
+
0 kg



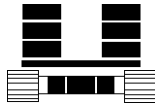
360°

 38,0 m  11 m/s			
m	°	m	kg
6,7	82,7	40,0	92 700
7,0	82,3	40,0	88 700
8,0	80,8	39,8	76 400
9,0	79,2	39,6	67 100
10,0	77,7	39,4	59 600
11,0	76,1	39,2	53 500
12,0	74,6	38,9	48 500
13,0	73,0	38,6	44 100
14,0	71,4	38,2	40 500
15,0	69,8	37,8	37 300
16,0	68,1	37,4	34 500
18,0	64,8	36,5	29 300
20,0	61,4	35,5	25 000
22,0	57,9	34,2	21 700
24,0	54,2	32,8	19 000
26,0	50,3	31,2	16 700
28,0	46,2	29,4	14 800
30,0	41,8	27,2	13 200
32,0	36,9	24,7	11 800
34,0	31,4	21,7	10 600
36,0	24,8	17,8	9 500

 41,0 m  11 m/s			
m	°	m	kg
7,3	82,4	43,0	81 600
8,0	81,4	42,9	74 200
9,0	80,0	42,7	65 300
10,0	78,6	42,5	58 100
11,0	77,2	42,2	52 200
12,0	75,7	42,0	47 300
13,0	74,3	41,7	43 200
14,0	72,8	41,4	39 600
15,0	71,3	41,0	36 500
16,0	69,8	40,7	33 800
18,0	66,8	39,8	29 100
20,0	63,7	38,9	24 900
22,0	60,5	37,8	21 600
24,0	57,2	36,5	18 900
26,0	53,8	35,1	16 600
28,0	50,2	33,5	14 700
30,0	46,4	31,6	13 100
32,0	42,3	29,5	11 700
34,0	37,9	27,1	10 500
36,0	32,9	24,1	9 400
38,0	27,2	20,6	8 400

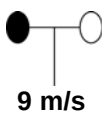
 44,0 m  9 m/s			
m	°	m	kg
7,3	82,9	46,0	79 100
8,0	82,0	45,9	72 000
9,0	80,7	45,7	63 400
10,0	79,4	45,5	56 600
11,0	78,1	45,3	50 900
12,0	76,7	45,1	46 200
13,0	75,4	44,8	42 200
14,0	74,0	44,5	38 700
15,0	72,6	44,2	35 700
16,0	71,3	43,9	33 000
18,0	68,5	43,1	28 600
20,0	65,6	42,2	24 800
22,0	62,7	41,2	21 400
24,0	59,7	40,1	18 700
26,0	56,6	38,8	16 500
28,0	53,4	37,3	14 500
30,0	50,0	35,7	12 900
32,0	46,5	33,9	11 500
34,0	42,7	31,8	10 300
36,0	38,7	29,4	9 200
38,0	34,2	26,6	8 300
40,0	29,1	23,2	7 400
42,0	23,0	19,0	6 600

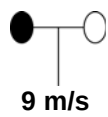
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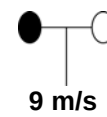


57 610 kg
+
0 kg

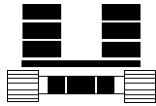


 47,0 m  9 m/s			
m	°	m	kg
7,9	82,6	49,0	70 600
8,0	82,5	48,9	69 900
9,0	81,3	48,8	61 800
10,0	80,1	48,6	55 200
11,0	78,8	48,4	49 700
12,0	77,6	48,2	45 200
13,0	76,3	47,9	41 200
14,0	75,1	47,7	37 900
15,0	73,8	47,4	34 900
16,0	72,5	47,0	32 300
18,0	69,9	46,3	28 000
20,0	67,3	45,5	24 500
22,0	64,6	44,6	21 300
24,0	61,8	43,5	18 600
26,0	59,0	42,4	16 300
28,0	56,1	41,1	14 400
30,0	53,1	39,6	12 800
32,0	49,9	38,0	11 400
34,0	46,6	36,1	10 200
36,0	43,1	34,0	9 100
38,0	39,3	31,7	8 100
40,0	35,2	29,0	7 300
42,0	30,7	25,8	6 500
44,0	25,3	21,9	5 800

 50,0 m  9 m/s			
m	°	m	kg
8,5	82,4	51,9	63 600
9,0	81,8	51,8	60 200
10,0	80,7	51,7	53 800
11,0	79,5	51,5	48 600
12,0	78,3	51,3	44 200
13,0	77,2	51,0	40 400
14,0	76,0	50,8	37 100
15,0	74,8	50,5	34 200
16,0	73,6	50,2	31 700
18,0	71,2	49,5	27 500
20,0	68,7	48,8	24 100
22,0	66,2	47,9	21 200
24,0	63,7	46,9	18 500
26,0	61,1	45,9	16 200
28,0	58,4	44,7	14 300
30,0	55,6	43,3	12 700
32,0	52,8	41,8	11 300
34,0	49,8	40,2	10 100
36,0	46,7	38,4	9 000
38,0	43,4	36,3	8 000
40,0	39,9	34,0	7 200
42,0	36,1	31,4	6 400
44,0	32,0	28,3	5 700
46,0	27,2	24,7	5 100
48,0	21,5	20,1	4 500

 53,0 m  9 m/s			
m	°	m	kg
8,5	82,8	54,9	61 900
9,0	82,3	54,9	58 600
10,0	81,2	54,7	52 500
11,0	80,1	54,5	47 400
12,0	79,0	54,3	43 100
13,0	77,9	54,1	39 500
14,0	76,8	53,9	36 300
15,0	75,7	53,6	33 500
16,0	74,5	53,3	31 000
18,0	72,3	52,7	26 900
20,0	70,0	52,0	23 500
22,0	67,7	51,2	20 800
24,0	65,3	50,3	18 300
26,0	62,9	49,3	16 100
28,0	60,4	48,2	14 200
30,0	57,9	46,9	12 600
32,0	55,2	45,6	11 200
34,0	52,5	44,1	9 900
36,0	49,7	42,4	8 800
38,0	46,8	40,6	7 900
40,0	43,7	38,6	7 100
42,0	40,4	36,3	6 300
44,0	36,9	33,7	5 600
46,0	33,1	30,8	4 900
48,0	28,8	27,4	4 400
50,0	23,8	23,2	3 800

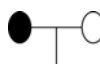
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57 610 kg
+
0 kg



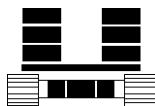
360°

 56,0 m  9 m/s			
m	°	m	kg
9,1	82,6	57,9	56 100
10,0	81,7	57,7	51 200
11,0	80,6	57,6	46 300
12,0	79,6	57,4	42 100
13,0	78,6	57,2	38 600
14,0	77,5	57,0	35 400
15,0	76,5	56,7	32 700
16,0	75,4	56,5	30 300
18,0	73,3	55,9	26 300
20,0	71,1	55,2	23 000
22,0	68,9	54,4	20 200
24,0	66,7	53,6	18 000
26,0	64,4	52,7	15 900
28,0	62,1	51,6	14 000
30,0	59,8	50,5	12 400
32,0	57,4	49,2	10 900
34,0	54,9	47,8	9 700
36,0	52,3	46,3	8 600
38,0	49,6	44,7	7 700
40,0	46,9	42,8	6 800
42,0	44,0	40,8	6 100
44,0	40,9	38,6	5 400
46,0	37,6	36,1	4 700
48,0	34,1	33,2	4 100
50,0	30,1	29,9	3 600
52,0	25,6	26,0	3 100
54,0	20,2	21,2	2 700

 59,0 m  9 m/s			
m	°	m	kg
9,1	82,9	60,9	54 700
10,0	82,1	60,8	49 900
11,0	81,1	60,6	45 200
12,0	80,1	60,4	41 200
13,0	79,1	60,2	37 700
14,0	78,2	60,0	34 700
15,0	77,2	59,8	32 000
16,0	76,2	59,5	29 700
18,0	74,1	59,0	25 700
20,0	72,1	58,4	22 400
22,0	70,0	57,7	19 800
24,0	68,0	56,9	17 500
26,0	65,8	56,0	15 600
28,0	63,7	55,0	13 800
30,0	61,5	53,9	12 200
32,0	59,2	52,8	10 800
34,0	56,9	51,5	9 600
36,0	54,5	50,1	8 500
38,0	52,1	48,6	7 500
40,0	49,6	46,9	6 600
42,0	46,9	45,1	5 900
44,0	44,2	43,1	5 200
46,0	41,3	40,8	4 600
48,0	38,2	38,4	4 000
50,0	34,9	35,6	3 500
52,0	31,3	32,5	2 900
54,0	27,2	28,8	2 500
56,0	22,5	24,4	2 100

 62,0 m  9 m/s			
m	°	m	kg
9,8	82,7	63,8	50 000
10,0	82,5	63,8	48 800
11,0	81,6	63,7	44 100
12,0	80,6	63,5	40 200
13,0	79,7	63,3	36 900
14,0	78,7	63,1	33 900
15,0	77,8	62,9	31 300
16,0	76,8	62,7	29 000
18,0	74,9	62,1	25 200
20,0	73,0	61,5	22 000
22,0	71,1	60,8	19 300
24,0	69,1	60,1	17 000
26,0	67,1	59,3	15 100
28,0	65,0	58,3	13 400
30,0	63,0	57,3	12 000
32,0	60,9	56,2	10 700
34,0	58,7	55,1	9 400
36,0	56,5	53,8	8 400
38,0	54,2	52,3	7 400
40,0	51,9	50,8	6 600
42,0	49,5	49,1	5 800
44,0	47,0	47,3	5 100
46,0	44,4	45,3	4 400
48,0	41,7	43,1	3 900
50,0	38,8	40,7	3 300
52,0	35,6	38,0	2 900
54,0	32,3	35,0	2 400
56,0	28,6	31,5	1 900

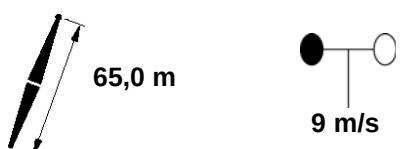
76

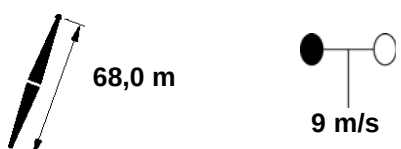


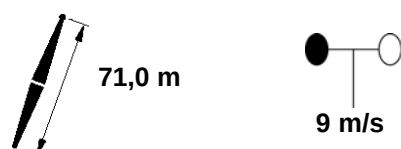
57 610 kg
+
0 kg



360°

			
m	°	m	kg
10,4	82,5	66,8	45 800
11,0	82,0	66,7	43 100
12,0	81,1	66,5	39 300
13,0	80,2	66,4	36 000
14,0	79,3	66,2	33 200
15,0	78,4	65,9	30 600
16,0	77,5	65,7	28 400
18,0	75,6	65,2	24 600
20,0	73,8	64,7	21 300
22,0	72,0	64,0	18 700
24,0	70,1	63,3	16 400
26,0	68,2	62,5	14 500
28,0	66,3	61,7	12 900
30,0	64,3	60,7	11 500
32,0	62,3	59,7	10 300
34,0	60,3	58,6	9 300
36,0	58,3	57,3	8 200
38,0	56,1	56,0	7 200
40,0	54,0	54,6	6 400
42,0	51,7	53,0	5 600
44,0	49,4	51,4	4 900
46,0	47,1	49,5	4 300
48,0	44,6	47,6	3 700
50,0	42,0	45,4	3 200
52,0	39,2	43,0	2 700
54,0	36,3	40,4	2 200

			
m	°	m	kg
10,4	82,9	69,8	44 600
11,0	82,3	69,7	42 000
12,0	81,5	69,6	38 300
13,0	80,6	69,4	35 100
14,0	79,7	69,2	32 300
15,0	78,9	69,0	29 800
16,0	78,0	68,8	27 700
18,0	76,3	68,3	23 900
20,0	74,5	67,8	20 700
22,0	72,8	67,2	18 000
24,0	71,0	66,5	15 800
26,0	69,2	65,8	13 900
28,0	67,4	64,9	12 400
30,0	65,5	64,0	11 000
32,0	63,7	63,1	9 800
34,0	61,8	62,0	8 800
36,0	59,8	60,9	7 900
38,0	57,8	59,6	6 900
40,0	55,8	58,3	6 100
42,0	53,7	56,8	5 300
44,0	51,6	55,3	4 600
46,0	49,4	53,6	3 900
48,0	47,1	51,8	3 400
50,0	44,7	49,8	2 800
52,0	42,3	47,7	2 400

			
m	°	m	kg
11,0	82,7	72,8	41 400
12,0	81,8	72,6	37 700
13,0	81,0	72,4	34 600
14,0	80,2	72,3	31 900
15,0	79,4	72,1	29 500
16,0	78,5	71,9	27 300
18,0	76,9	71,4	23 400
20,0	75,2	70,9	20 200
22,0	73,5	70,3	17 600
24,0	71,8	69,7	15 500
26,0	70,1	69,0	13 700
28,0	68,4	68,2	12 100
30,0	66,6	67,3	10 800
32,0	64,9	66,4	9 700
34,0	63,1	65,4	8 700
36,0	61,2	64,3	7 700
38,0	59,4	63,2	6 900
40,0	57,4	61,9	6 200
42,0	55,5	60,5	5 400
44,0	53,5	59,1	4 700
46,0	51,5	57,5	4 100
48,0	49,3	55,8	3 500
50,0	47,2	54,0	3 000
52,0	44,9	52,1	2 500
54,0	42,5	49,9	2 000