

Liftcrane Boom Capacities

Boom No. 57
67 990 kg Counterweight
360 Degree Rating

European Standards
14 m/s Maximum Wind thru 54,5 m Boom
12 m/s with 57,5 m and 60,5 m Boom
10 m/s with 63,5 m and 66,5 m Boom
Conditions include jib when attached

15000 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 5 670 kg minimum weight.

Upper boom point capacity for liftcrane service with single part whip line is 13 380 kg or 26 760 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.

Weight of 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. A07850** or **No. 81001545**, and Wire Rope Specification chart **No. 8608-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 be operated in winds stated in maximum wind speed table provided crane operator judgment is used to allow for wind effect on lifted load and other considerations noted on capacity chart are followed. Wind will have a considerable effect on load. Loads must be compensated for accordingly by reducing load ratings, reducing operating speeds, or by a combination of both. Recommend stopping operation and lowering boom and jib to no higher than 70 degree boom angle when wind exceeds conditions stated. Lower boom and jib to ground when wind is above 22 m/s.

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. 8615-A**.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle 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 8 585 mm crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, boom support straps and 67 990 kg counterweight.

Maximum Wind Speeds		
Boom Lengths	Working Wind	Lower To Ground
21,5 m - 54,5 m	14 m/s	22 m/s
57,5 m - 60,5 m	12 m/s	22 m/s
63,5 m - 66,5 m	10 m/s	22 m/s
Wind speed to be measured at boom point elevation. Jib included when attached.		

Wire Rope Guard Roller Deduct
Deduct 180 kg from boom capacities when wire rope guard timbers are replaced with rollers.



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Maximum Boom and Jib Length Raising			
Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134
66,5 m	—	60,5 m	—
63,5 m	12,2 m	57,5 m	12,2 m
60,5 m	21,3 m	54,5 m	24,4 m
57,5 m	24,4 m		
Load block, hook and weight ball on ground at start.			

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 134
9,1 m	1 360 kg
12,2 m	1 720 kg
15,2 m	2 090 kg
18,3 m	2 490 kg
21,3 m	2 950 kg
24,4 m	3 400 kg

Consult jib chart for jib capacities.

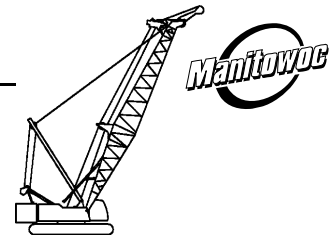
Upper boom point must be removed when jib is attached.

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.5m Boom			
4.9	82.9	23.7	204 200 *b
5.0	82.5	23.7	199 700 *b
5.5	81.2	23.6	178 200 b
6.0	79.8	23.5	158 200 b
7.0	77.1	23.3	128 800 b
8.0	74.3	23.0	108 300
9.0	71.5	22.6	93 200
10.0	68.6	22.2	81 600
11.0	65.7	21.8	72 000
12.0	62.7	21.3	63 200
13.0	59.6	20.7	56 100
14.0	56.4	20.0	50 300
15.0	53.0	19.2	45 400
16.0	49.5	18.4	41 300
18.0	41.8	16.3	34 700
20.0	32.6	13.5	29 600
24.5m Boom			
5.2	83.0	26.7	183 200 b
5.5	82.3	26.7	169 200 b
6.0	81.1	26.6	151 000 b
7.0	78.7	26.4	123 800 b
8.0	76.3	26.1	104 700
9.0	73.8	25.8	90 300
10.0	71.4	25.5	79 300
11.0	68.9	25.1	70 400
12.0	66.3	24.6	63 000
13.0	63.7	24.1	56 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.5m Boom			
14.0	61.0	23.6	50 200
15.0	58.2	23.0	45 300
16.0	55.4	22.3	41 200
18.0	49.4	20.6	34 600
20.0	42.7	18.6	29 600
22.0	34.9	15.9	25 600
24.0	25.1	12.2	22 300
27.5m Boom			
5.8	82.5	29.7	150 900 b
6.0	82.1	29.6	144 500 b
7.0	79.9	29.4	119 100 b
8.0	77.8	29.2	101 100
9.0	75.7	29.0	87 600
10.0	73.5	28.6	77 000
11.0	71.3	28.3	68 600
12.0	69.0	27.9	61 700
13.0	66.8	27.5	55 800
14.0	64.5	27.0	50 100
15.0	62.1	26.5	45 300
16.0	59.7	25.9	41 100
18.0	54.6	24.5	34 500
20.0	49.2	22.9	29 500
22.0	43.3	20.9	25 500
24.0	36.6	18.3	22 200
26.0	28.6	15.0	19 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m Boom			
6.1	82.7	32.6	135 700 b
7.0	80.9	32.5	114 900 b
8.0	79.0	32.3	98 000
9.0	77.1	32.1	85 200
10.0	75.2	31.8	75 100
11.0	73.2	31.5	67 000
12.0	71.2	31.1	60 300
13.0	69.2	30.7	54 700
14.0	67.2	30.3	50 000
15.0	65.1	29.9	45 400
16.0	63.0	29.3	41 200
18.0	58.6	28.2	34 600
20.0	54.0	26.8	29 600
22.0	49.1	25.1	25 600
24.0	43.8	23.1	22 400
26.0	37.9	20.7	19 700
28.0	31.1	17.6	17 400
30.0	22.3	13.4	15 400

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m Boom			
6.7	82.3	35.6	116 500
7.0	81.8	35.5	111 100
8.0	80.0	35.4	94 900
9.0	78.3	35.1	82 700
10.0	76.5	34.9	73 000
11.0	74.7	34.6	65 300
12.0	73.0	34.3	58 800
13.0	71.1	34.0	53 400
14.0	69.3	33.6	48 800
15.0	67.5	33.2	44 900
16.0	65.6	32.7	41 200
18.0	61.7	31.7	34 500
20.0	57.7	30.4	29 400
22.0	53.5	29.0	25 400
24.0	49.0	27.3	22 200
26.0	44.2	25.4	19 500
28.0	39.0	23.0	17 200
30.0	33.0	20.1	15 300
32.0	25.7	16.4	13 600
36.5m Boom			
6.7	82.9	38.6	112 400
7.0	82.4	38.6	107 300
8.0	80.9	38.4	92 000
9.0	79.3	38.2	80 400
10.0	77.7	38.0	71 200
11.0	76.0	37.7	63 700
12.0	74.4	37.5	57 500
13.0	72.8	37.1	52 300
14.0	71.1	36.8	47 800
15.0	69.4	36.4	44 000
16.0	67.7	36.0	40 600
18.0	64.2	35.1	34 500
20.0	60.7	34.0	29 400
22.0	57.0	32.7	25 400
24.0	53.1	31.2	22 100
26.0	49.0	29.6	19 500
28.0	44.6	27.6	17 200
30.0	39.8	25.3	15 300
32.0	34.5	22.6	13 600
34.0	28.3	19.1	12 100
36.0	20.3	14.5	10 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.5m Boom			
7.3	82.6	41.6	98 600
8.0	81.6	41.5	89 200
9.0	80.1	41.3	78 200
10.0	78.6	41.1	69 400
11.0	77.1	40.8	62 200
12.0	75.6	40.6	56 200
13.0	74.1	40.3	51 200
14.0	72.6	40.0	46 800
15.0	71.0	39.6	43 100
16.0	69.5	39.2	39 800
18.0	66.3	38.4	34 300
20.0	63.1	37.4	29 300
22.0	59.8	36.3	25 300
24.0	56.3	35.0	22 000
26.0	52.7	33.5	19 400
28.0	48.9	31.8	17 100
30.0	44.9	29.9	15 200
32.0	40.5	27.6	13 500
34.0	35.7	25.0	12 100
36.0	30.2	21.8	10 800
38.0	23.6	17.6	9 600
42.5m Boom			
7.9	82.3	44.5	87 500
8.0	82.2	44.5	86 600
9.0	80.8	44.3	76 100
10.0	79.4	44.1	67 600
11.0	78.0	43.9	60 700
12.0	76.7	43.7	54 900
13.0	75.3	43.4	50 100
14.0	73.9	43.1	45 800
15.0	72.4	42.8	42 200
16.0	71.0	42.5	39 000
18.0	68.1	41.7	33 700
20.0	65.2	40.8	29 300
22.0	62.1	39.7	25 200
24.0	59.0	38.6	22 000
26.0	55.8	37.2	19 300
28.0	52.4	35.7	17 000
30.0	48.9	34.0	15 100
32.0	45.1	32.1	13 500
34.0	41.1	29.9	12 000
36.0	36.7	27.3	10 700
38.0	31.8	24.3	9 600
40.0	26.1	20.5	8 500
42.0	18.7	15.5	7 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.5m Boom			
7.9	82.8	47.5	84 800
8.0	82.7	47.5	84 000
9.0	81.4	47.4	73 900
10.0	80.1	47.2	65 800
11.0	78.8	47.0	59 200
12.0	77.6	46.8	53 600
13.0	76.3	46.5	48 800
14.0	75.0	46.2	44 800
15.0	73.6	45.9	41 200
16.0	72.3	45.6	38 100
18.0	69.6	44.9	32 900
20.0	66.9	44.1	28 700
22.0	64.1	43.1	25 000
24.0	61.3	42.0	21 700
26.0	58.3	40.8	19 000
28.0	55.3	39.5	16 800
30.0	52.1	38.0	14 800
32.0	48.8	36.3	13 200
34.0	45.3	34.4	11 700
36.0	41.6	32.2	10 500
38.0	37.6	29.7	9 300
40.0	33.1	26.8	8 300
42.0	28.1	23.3	7 400
44.0	21.9	18.8	6 500
48.5m Boom			
8.5	82.5	50.5	76 200
9.0	81.9	50.4	72 000
10.0	80.7	50.2	64 200
11.0	79.5	50.0	57 800
12.0	78.3	49.8	52 400
13.0	77.1	49.6	47 800
14.0	75.9	49.3	43 800
15.0	74.7	49.1	40 300
16.0	73.4	48.8	37 300
18.0	71.0	48.1	32 200
20.0	68.4	47.3	28 100
22.0	65.8	46.5	24 700
24.0	63.2	45.5	21 600
26.0	60.5	44.4	18 900
28.0	57.7	43.1	16 600
30.0	54.9	41.7	14 700
32.0	51.9	40.2	13 100
34.0	48.8	38.5	11 600
36.0	45.5	36.6	10 300
38.0	42.0	34.5	9 200
40.0	38.3	32.0	8 200
42.0	34.2	29.2	7 200
44.0	29.7	25.9	6 400
46.0	24.3	21.8	5 700

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.5m Boom			
8.5	82.9	53.5	74 000
9.0	82.4	53.4	70 100
10.0	81.3	53.3	62 600
11.0	80.2	53.1	56 400
12.0	79.0	52.9	51 100
13.0	77.9	52.7	46 700
14.0	76.7	52.5	42 800
15.0	75.6	52.2	39 500
16.0	74.4	51.9	36 500
18.0	72.1	51.3	31 500
20.0	69.7	50.6	27 500
22.0	67.3	49.7	24 200
24.0	64.9	48.8	21 400
26.0	62.4	47.8	18 800
28.0	59.8	46.7	16 500
30.0	57.2	45.4	14 600
32.0	54.5	44.0	12 900
34.0	51.7	42.5	11 500
36.0	48.7	40.7	10 200
38.0	45.7	38.8	9 000
40.0	42.4	36.7	8 000
42.0	39.0	34.3	7 100
44.0	35.2	31.6	6 300
46.0	31.0	28.5	5 500
48.0	26.3	24.7	4 800
50.0	20.5	19.9	4 200
54.5m Boom			
9.1	82.7	56.5	67 000
10.0	81.8	56.3	61 000
11.0	80.7	56.2	55 000
12.0	79.6	56.0	50 000
13.0	78.6	55.8	45 600
14.0	77.5	55.5	41 900
15.0	76.4	55.3	38 600
16.0	75.3	55.0	35 700
18.0	73.1	54.4	30 900
20.0	70.9	53.8	26 900
22.0	68.7	53.0	23 700
24.0	66.4	52.1	20 900
26.0	64.0	51.2	18 600
28.0	61.7	50.1	16 300
30.0	59.2	49.0	14 400
32.0	56.7	47.7	12 700
34.0	54.1	46.2	11 300
36.0	51.5	44.7	10 000
38.0	48.7	43.0	8 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.5m Boom			
40.0	45.8	41.1	7 800
42.0	42.8	39.0	7 000
44.0	39.5	36.6	6 100
46.0	36.0	34.0	5 400
48.0	32.2	31.0	4 700
50.0	27.9	27.4	4 000
52.0	22.9	23.0	3 400
57.5m Boom			
9.8	82.5	59.4	61 000
10.0	82.2	59.4	59 500
11.0	81.2	59.2	53 600
12.0	80.2	59.0	48 800
13.0	79.2	58.8	44 600
14.0	78.2	58.6	40 900
15.0	77.1	58.4	37 700
16.0	76.1	58.1	34 900
18.0	74.0	57.6	30 100
20.0	71.9	56.9	26 200
22.0	69.8	56.2	23 000
24.0	67.7	55.4	20 400
26.0	65.5	54.5	18 100
28.0	63.3	53.5	16 000
30.0	61.0	52.4	14 100
32.0	58.7	51.2	12 500
34.0	56.3	49.9	11 000
36.0	53.8	48.5	9 700
38.0	51.3	46.9	8 600
40.0	48.7	45.2	7 600
42.0	45.9	43.3	6 700
44.0	43.1	41.2	5 800
46.0	40.0	38.9	5 100
48.0	36.8	36.3	4 400
50.0	33.2	33.4	3 800
52.0	29.3	30.0	3 200
54.0	24.8	26.0	2 600
56.0	19.4	20.9	2 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
60.5m Boom			
9.8	82.8	62.4	59 500
10.0	82.6	62.4	58 000
11.0	81.6	62.2	52 300
12.0	80.7	62.1	47 600
13.0	79.7	61.9	43 500
14.0	78.7	61.7	40 000
15.0	77.8	61.5	36 900
16.0	76.8	61.2	34 100
18.0	74.8	60.7	29 400
20.0	72.9	60.1	25 700
22.0	70.9	59.4	22 500
24.0	68.8	58.7	19 900
26.0	66.8	57.8	17 600
28.0	64.7	56.9	15 700
30.0	62.6	55.9	13 900
32.0	60.4	54.7	12 300
34.0	58.2	53.5	10 800
36.0	55.9	52.2	9 600
38.0	53.6	50.7	8 400
40.0	51.2	49.2	7 400
42.0	48.7	47.5	6 500
44.0	46.1	45.6	5 700
46.0	43.3	43.5	4 900
48.0	40.5	41.2	4 200
50.0	37.4	38.7	3 600
52.0	34.1	35.8	3 000
54.0	30.5	32.6	2 500
56.0	26.4	28.8	2 000



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63.5m Boom			
10.4	82.6	65.4	54 400
11.0	82.0	65.3	51 100
12.0	81.1	65.1	46 500
13.0	80.2	64.9	42 500
14.0	79.3	64.7	39 100
15.0	78.4	64.5	36 000
16.0	77.4	64.3	33 400
18.0	75.6	63.8	28 800
20.0	73.7	63.2	25 100
22.0	71.8	62.6	22 000
24.0	69.9	61.9	19 400
26.0	67.9	61.1	17 100
28.0	66.0	60.2	15 200
30.0	64.0	59.2	13 500
32.0	61.9	58.2	12 100
34.0	59.9	57.0	10 600
36.0	57.7	55.8	9 300
38.0	55.6	54.5	8 200
40.0	53.3	53.0	7 200
42.0	51.0	51.4	6 300
44.0	48.6	49.7	5 500
46.0	46.2	47.8	4 700
48.0	43.6	45.7	4 100
50.0	40.9	43.5	3 400
52.0	38.0	41.0	2 800
54.0	34.9	38.2	2 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
66.5m Boom			
10.4	83.0	68.4	53 100
11.0	82.4	68.3	49 800
12.0	81.5	68.2	45 400
13.0	80.7	68.0	41 600
14.0	79.8	67.8	38 200
15.0	78.9	67.6	35 200
16.0	78.0	67.4	32 600
18.0	76.2	66.9	28 100
20.0	74.5	66.4	24 500
22.0	72.7	65.7	21 400
24.0	70.8	65.1	18 900
26.0	69.0	64.3	16 700
28.0	67.1	63.5	14 800
30.0	65.2	62.6	13 100
32.0	63.3	61.6	11 700
34.0	61.4	60.5	10 400
36.0	59.4	59.3	9 100
38.0	57.3	58.1	8 000
40.0	55.2	56.7	7 000
42.0	53.1	55.2	6 100
44.0	50.9	53.7	5 300
46.0	48.6	51.9	4 500
48.0	46.3	50.0	3 800
50.0	43.8	48.0	3 200
52.0	41.2	45.8	2 600
54.0	38.5	43.3	2 100