

Liftcrane Boom Capacities

Boom No. 84
32 430 kg Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

555 SERIES 1

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*). Capacities indicated by (b) require 4 540 kg minimum weight. *To maintain boom and mast stability at high boom angles, a minimum of 4 parts hoist line is required when using rear drum on 15.2m thru 21.3m boom lengths.*

Upper boom point capacity for liftcrane service with single part whip line is 13 610 kg or 27 220 kg with two part whip line. When boom butt mounted auxiliary drum equipped for 26 mm wire rope 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 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. Refer to boom rigging **No. A00952** and Wire Rope Specification chart **No. 8443-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 operators manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8445-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 7 264 mm crawlers, 1 219 mm treads, 7 010 mm live mast, 16 part boom hoist reeving, boom support straps, rotating bed No. A01066¹ or No. A03188 (refer to I.D. plate at front of rotating bed) and 32 430 kg crane counterweight.

¹**WARNING:** 570 kg front counterweight is required for cranes with rotating bed No. A01066 that do not have free-fall option. Counterweight can be removed only if crane has free-fall option on both front and rear drums.



32 430 kg Crane Counterweight
4 Side Boxes

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,b) 64.0m	—	54.9m	—
(b) 61.0m	—	51.8m	—
57.9m	—	48.8m	12.2m
54.9m	12.2m	45.7m	18.3m
51.8m	18.3m	42.7m	24.4m
48.8m	24.4m		
Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be attached on 64.0m boom. (b) Upper wire rope guide (No. A04352) for third line cannot be attached on 61.0m and 64.0m booms.			

Upper Boom Point Deduct

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

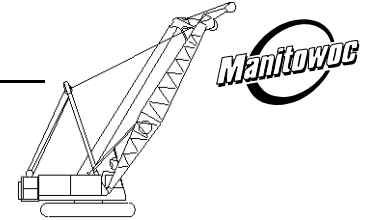
Wire Rope Guide Deduct (For Third Line)

Deduct 270 kg from boom capacities when upper wire rope guide (No. A04352) for third line is attached.

Deduct From Capacities When Jib Is Attached

Jib Length	Jib No. 134
9.1m	1 770 kg
12.2m	2 130 kg
15.2m	2 540 kg
18.3m	2 990 kg
21.3m	3 450 kg
24.4m	3 950 kg

Consult jib chart for jib capacities. Upper boom point and upper wire rope guide (No. A04352) for third line must be removed when jib is attached.



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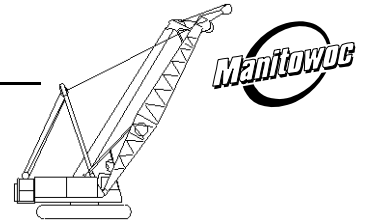
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
15.2m (50 Ft.) Boom			
4.6	80.6	16.8	126 900 *b
5.0	78.9	16.7	116 300 b
5.5	77.0	16.6	99 700 b
6.0	75.0	16.4	85 000 b
7.0	71.1	16.1	65 300 b
8.0	67.0	15.7	52 800
9.0	62.7	15.1	44 000
10.0	58.3	14.5	37 600
11.0	53.7	13.8	32 700
12.0	48.7	12.9	28 800
13.0	43.3	11.9	25 600
14.0	37.2	10.6	23 000
15.0	30.0	9.0	20 700
18.3m (60 Ft.) Boom			
4.6	82.2	19.9	126 900 *b
5.0	80.8	19.8	116 400 b
5.5	79.2	19.7	100 100 b
6.0	77.6	19.6	85 300 b
7.0	74.3	19.3	65 600 b
8.0	71.0	19.0	53 000
9.0	67.6	18.5	44 300
10.0	64.2	18.1	37 800
11.0	60.6	17.5	32 900
12.0	56.8	16.8	29 000
13.0	52.9	16.1	25 800
14.0	48.8	15.2	23 200
15.0	44.3	14.2	21 000
16.0	39.5	13.0	19 100
18.0	27.5	9.8	16 000
21.3m (70 Ft.) Boom			
4.9	82.5	22.9	119 200 *b
5.0	82.1	22.9	116 400 *b
5.5	80.8	22.8	100 300 b
6.0	79.4	22.7	85 500 b
7.0	76.6	22.5	65 700 b
8.0	73.8	22.2	53 200
9.0	71.0	21.8	44 400
10.0	68.1	21.4	38 000
11.0	65.1	21.0	33 000
12.0	62.1	20.4	29 100
13.0	59.0	19.8	25 900
14.0	55.7	19.2	23 300
15.0	52.3	18.4	21 100
16.0	48.8	17.5	19 200
18.0	41.0	15.4	16 200
20.0	31.5	12.5	13 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) Boom			
5.2	82.7	26.0	112 400 *b
5.5	81.9	25.9	100 500 b
6.0	80.7	25.8	85 700 b
7.0	78.3	25.6	65 900 b
8.0	75.9	25.4	53 300
9.0	73.5	25.1	44 500
10.0	71.0	24.7	38 100
11.0	68.5	24.3	33 100
12.0	65.9	23.9	29 200
13.0	63.2	23.4	26 000
14.0	60.5	22.8	23 400
15.0	57.8	22.2	21 200
16.0	54.9	21.5	19 300
18.0	48.8	19.8	16 200
20.0	42.1	17.8	13 900
22.0	34.2	15.1	12 000
24.0	24.2	11.3	10 400
27.4m (90 Ft.) Boom			
5.5	82.9	29.0	101 000 b
6.0	81.8	28.9	85 700 b
7.0	79.7	28.7	65 900 b
8.0	77.5	28.5	53 300
9.0	75.4	28.2	44 400
10.0	73.2	27.9	38 000
11.0	71.0	27.6	33 000
12.0	68.7	27.2	29 100
13.0	66.4	26.8	25 900
14.0	64.1	26.3	23 300
15.0	61.8	25.7	21 100
16.0	59.3	25.2	19 200
18.0	54.3	23.8	16 200
20.0	48.8	22.1	13 800
22.0	42.9	20.1	11 900
24.0	36.2	17.6	10 400
26.0	28.0	14.2	9 100
30.5m (100 Ft.) Boom			
5.8	83.0	32.0	91 500 b
6.0	82.6	32.0	86 000 b
7.0	80.7	31.8	65 900 b
8.0	78.8	31.6	53 300
9.0	76.9	31.4	44 500
10.0	74.9	31.1	38 100
11.0	72.9	30.8	33 100
12.0	71.0	30.5	29 200
13.0	68.9	30.1	26 000
14.0	66.9	29.7	23 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) Boom			
15.0	64.8	29.2	21 100
16.0	62.7	28.7	19 300
18.0	58.3	27.5	16 200
20.0	53.7	26.1	13 900
22.0	48.9	24.4	12 000
24.0	43.6	22.4	10 500
26.0	37.6	20.0	9 200
28.0	30.8	17.0	8 100
30.0	22.0	12.7	7 100
33.5m (110 Ft.) Boom			
6.7	82.1	35.0	70 900
7.0	81.6	34.9	66 300
8.0	79.8	34.7	53 300
9.0	78.1	34.5	44 500
10.0	76.3	34.3	38 000
11.0	74.5	34.0	33 000
12.0	72.8	33.7	29 100
13.0	70.9	33.4	25 900
14.0	69.1	33.0	23 300
15.0	67.3	32.6	21 100
16.0	65.4	32.1	19 200
18.0	61.5	31.1	16 200
20.0	57.5	29.8	13 800
22.0	53.3	28.4	11 900
24.0	48.9	26.7	10 400
26.0	44.1	24.8	9 100
28.0	38.8	22.4	8 000
30.0	32.8	19.6	7 100
32.0	25.6	15.8	6 300
36.6m (120 Ft.) Boom			
6.7	82.7	38.1	70 900
7.0	82.3	38.0	66 300
8.0	80.7	37.8	53 300
9.0	79.1	37.7	44 400
10.0	77.5	37.4	38 000
11.0	75.9	37.2	33 000
12.0	74.2	36.9	29 100
13.0	72.6	36.6	25 900
14.0	70.9	36.2	23 200
15.0	69.3	35.9	21 000
16.0	67.6	35.4	19 100
18.0	64.1	34.5	16 100
20.0	60.5	33.4	13 800
22.0	56.8	32.2	11 900
24.0	53.0	30.7	10 300
26.0	48.9	29.0	9 100
28.0	44.5	27.1	8 000
30.0	39.8	24.8	7 100
32.0	34.5	22.1	6 200
34.0	28.3	18.7	5 500
36.0	20.4	14.1	4 900



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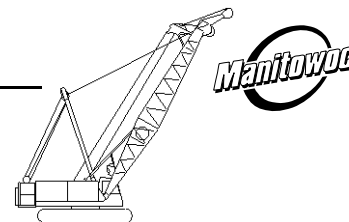
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) Boom			
7.3	82.4	41.0	61 400
8.0	81.4	40.9	53 300
9.0	79.9	40.8	44 400
10.0	78.5	40.6	37 900
11.0	77.0	40.3	32 900
12.0	75.5	40.1	29 000
13.0	74.0	39.8	25 800
14.0	72.5	39.5	23 100
15.0	70.9	39.1	20 900
16.0	69.4	38.7	19 000
18.0	66.2	37.9	16 000
20.0	63.0	36.9	13 600
22.0	59.7	35.8	11 800
24.0	56.3	34.5	10 200
26.0	52.7	33.0	8 900
28.0	48.9	31.3	7 900
30.0	44.9	29.4	6 900
32.0	40.5	27.2	6 100
34.0	35.8	24.6	5 400
36.0	30.4	21.4	4 800
38.0	23.8	17.3	4 200
42.7m (140 Ft.) Boom			
7.3	83.0	44.1	61 400
8.0	82.0	44.0	53 200
9.0	80.7	43.9	44 300
10.0	79.3	43.7	37 800
11.0	77.9	43.5	32 900
12.0	76.5	43.2	28 900
13.0	75.2	42.9	25 700
14.0	73.8	42.7	23 100
15.0	72.3	42.3	20 900
16.0	70.9	42.0	19 000
18.0	68.0	41.2	15 900
20.0	65.1	40.3	13 600
22.0	62.1	39.3	11 700
24.0	59.0	38.1	10 200
26.0	55.8	36.8	8 900
28.0	52.4	35.3	7 800
30.0	48.9	33.6	6 900
32.0	45.2	31.7	6 100
34.0	41.2	29.5	5 400
36.0	36.9	27.0	4 700
38.0	32.0	24.0	4 200
40.0	26.4	20.3	3 700
42.0	19.2	15.4	3 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.7m (150 Ft.) Boom			
7.9	82.7	47.1	53 900
8.0	82.6	47.1	53 200
9.0	81.3	47.0	44 300
10.0	80.0	46.8	37 700
11.0	78.7	46.6	32 800
12.0	77.5	46.4	28 800
13.0	76.2	46.1	25 600
14.0	74.9	45.8	23 000
15.0	73.6	45.5	20 700
16.0	72.2	45.2	18 800
18.0	69.6	44.5	15 800
20.0	66.9	43.7	13 400
22.0	64.1	42.7	11 600
24.0	61.3	41.7	10 100
26.0	58.3	40.5	8 800
28.0	55.3	39.1	7 700
30.0	52.2	37.6	6 800
32.0	48.9	35.9	5 900
34.0	45.4	34.0	5 300
36.0	41.8	31.9	4 700
38.0	37.8	29.4	4 100
40.0	33.4	26.5	3 600
42.0	28.4	23.1	3 100
44.0	22.4	18.8	2 700
48.8m (160 Ft.) Boom			
8.5	82.4	50.1	48 000
9.0	81.8	50.0	44 300
10.0	80.6	49.9	37 700
11.0	79.5	49.7	32 700
12.0	78.3	49.5	28 700
13.0	77.0	49.2	25 500
14.0	75.8	49.0	22 900
15.0	74.6	48.7	20 700
16.0	73.4	48.4	18 700
18.0	70.9	47.8	15 700
20.0	68.4	47.0	13 400
22.0	65.8	46.1	11 500
24.0	63.2	45.1	9 900
26.0	60.5	44.0	8 700
28.0	57.8	42.8	7 600
30.0	54.9	41.4	6 600
32.0	52.0	39.9	5 800
34.0	48.9	38.2	5 100
36.0	45.7	36.3	4 500
38.0	42.2	34.2	4 000
40.0	38.6	31.8	3 500
42.0	34.6	29.1	3 000
44.0	30.1	25.8	2 600
46.0	24.9	21.9	2 300
48.0	18.3	16.6	1 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) Boom			
8.5	82.8	53.2	47 900
9.0	82.3	53.1	44 200
10.0	81.2	53.0	37 600
11.0	80.1	52.8	32 600
12.0	79.0	52.6	28 700
13.0	77.8	52.4	25 400
14.0	76.7	52.1	22 800
15.0	75.5	51.9	20 600
16.0	74.4	51.6	18 600
18.0	72.1	51.0	15 600
20.0	69.7	50.3	13 200
22.0	67.3	49.4	11 300
24.0	64.9	48.5	9 800
26.0	62.4	47.5	8 500
28.0	59.9	46.4	7 500
30.0	57.3	45.1	6 500
32.0	54.6	43.8	5 700
34.0	51.8	42.2	5 000
36.0	48.9	40.5	4 400
38.0	45.9	38.7	3 800
40.0	42.7	36.6	3 400
42.0	39.3	34.2	2 900
44.0	35.6	31.5	2 500
46.0	31.5	28.4	2 100
54.9m (180 Ft.) Boom			
9.1	82.6	56.2	43 000
10.0	81.7	56.1	37 500
11.0	80.6	55.9	32 500
12.0	79.6	55.7	28 600
13.0	78.5	55.5	25 300
14.0	77.4	55.3	22 700
15.0	76.4	55.0	20 500
16.0	75.3	54.8	18 600
18.0	73.1	54.2	15 500
20.0	70.9	53.5	13 100
22.0	68.7	52.7	11 300
24.0	66.4	51.9	9 700
26.0	64.1	51.0	8 400
28.0	61.7	49.9	7 400
30.0	59.3	48.7	6 400
32.0	56.8	47.5	5 600
34.0	54.3	46.1	4 900
36.0	51.7	44.5	4 300
38.0	48.9	42.8	3 800
40.0	46.1	41.0	3 300
42.0	43.0	38.9	2 900
44.0	39.9	36.6	2 400
46.0	36.4	34.0	2 100



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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) Boom			
9.8	82.4	59.2	38 900
10.0	82.1	59.1	37 500
11.0	81.1	59.0	32 400
12.0	80.1	58.8	28 500
13.0	79.1	58.6	25 200
14.0	78.1	58.4	22 600
15.0	77.1	58.2	20 300
16.0	76.1	57.9	18 400
18.0	74.0	57.4	15 400
20.0	71.9	56.7	13 000
22.0	69.8	56.0	11 100
24.0	67.7	55.2	9 600
26.0	65.6	54.3	8 300
28.0	63.3	53.4	7 200
30.0	61.1	52.3	6 300
32.0	58.8	51.1	5 500
34.0	56.4	49.8	4 800
36.0	54.0	48.4	4 200
38.0	51.5	46.8	3 600
40.0	48.9	45.1	3 100
42.0	46.2	43.3	2 700
44.0	43.4	41.2	2 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61.0m (200 Ft.) Boom			
10.4	82.2	62.2	35 400
11.0	81.6	62.1	32 300
12.0	80.6	61.9	28 400
13.0	79.7	61.7	25 100
14.0	78.7	61.5	22 500
15.0	77.8	61.3	20 200
16.0	76.8	61.1	18 300
18.0	74.8	60.5	15 200
20.0	72.9	59.9	12 900
22.0	70.9	59.3	11 000
24.0	68.9	58.5	9 500
26.0	66.9	57.7	8 200
28.0	64.8	56.8	7 100
30.0	62.7	55.7	6 200
32.0	60.5	54.6	5 300
34.0	58.3	53.4	4 700
36.0	56.1	52.1	4 100
38.0	53.8	50.7	3 500
40.0	51.4	49.1	3 000
42.0	48.9	47.4	2 600
44.0	46.4	45.6	2 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
64.0m (210 Ft.) Boom			
11.0	82.0	65.2	32 300
12.0	81.1	65.0	28 200
13.0	80.2	64.8	25 000
14.0	79.3	64.6	22 400
15.0	78.3	64.4	20 100
16.0	77.4	64.2	18 200
18.0	75.6	63.7	15 100
20.0	73.7	63.1	12 800
22.0	71.8	62.5	10 800
24.0	69.9	61.8	9 300
26.0	68.0	61.0	8 000
28.0	66.1	60.1	7 000
30.0	64.1	59.2	6 000
32.0	62.1	58.1	5 200
34.0	60.0	57.0	4 500
36.0	57.9	55.8	3 900
38.0	55.8	54.4	3 300
40.0	53.6	53.0	2 900
42.0	51.3	51.4	2 400
44.0	48.9	49.7	2 000