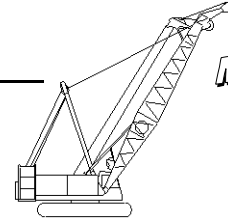




Liftcrane Boom Capacities

Boom No. 84
44 680 kg Crane Counterweight
19 960 kg Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing

**Meets
ANSI B30.5
Requirements**



555 SERIES 2

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 over end of machine with crawlers blocked. 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. Drive and idler tumblers must be properly blocked so that centerline of tumblers becomes tipping fulcrum. Swing is limited to that sector shown on Operating Range Diagram No. 8448-A. Refer to boom rigging No. A00952 and Wire Rope Specification chart No. 8443-A. Crane operator judgment must be used to allow for

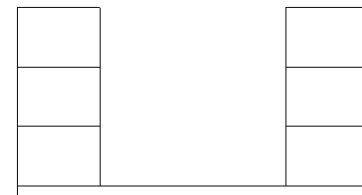
dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

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), 44 680 kg crane counterweight and two 9 980 kg carbody counterweights.

¹WARNING: 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.



44 680 kg Crane Counterweight
6 Side Boxes

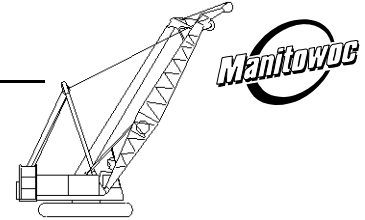
Maximum Boom and Jib Lengths Lifted Unassisted Over End of Blocked Crawlers	
Boom Length	Jib No. 134
(a,b) 76.2m	—
(b) 73.2m	—
70.1m	—
67.1m	12.2m
64.0m	18.3m
61.0m	24.4m
Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be attached on 76.2m boom. (b) Upper wire rope guide (No. A04352) for third line cannot be attached on 73.2m and 76.2m 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.



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

Boom No. 84
44 680 kg Crane Counterweight
19 960 kg Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing

555 SERIES 2

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
15.2m (50 Ft.) Boom			
4.6	80.6	16.8	136 000 *b
5.0	78.9	16.7	125 000 *b
5.5	77.0	16.6	114 100 *b
6.0	75.0	16.4	104 900 *b
7.0	71.1	16.1	90 300 *b
8.0	67.0	15.7	79 000 *
9.0	62.7	15.1	69 800 *
10.0	58.3	14.5	62 100 *
12.0	48.7	12.9	49 400
14.0	37.2	10.6	39 100
18.3m (60 Ft.) Boom			
4.6	82.2	19.9	135 600 *b
5.0	80.8	19.8	125 000 *b
5.5	79.2	19.7	114 100 *b
6.0	77.6	19.6	104 900 *b
7.0	74.3	19.3	90 300 *b
8.0	71.0	19.0	79 000 *
9.0	67.6	18.5	69 900 *
10.0	64.2	18.1	62 200 *
12.0	56.8	16.8	49 700
14.0	48.8	15.2	39 700
16.0	39.5	13.0	32 800
18.0	27.5	9.8	27 700
21.3m (70 Ft.) Boom			
4.9	82.5	22.9	125 800 *b
5.0	82.1	22.9	123 700 *b
5.5	80.8	22.8	114 000 *b
6.0	79.4	22.7	104 800 *b
7.0	76.6	22.5	90 200 *b
8.0	73.8	22.2	78 900 *
9.0	71.0	21.8	69 900 *
10.0	68.1	21.4	62 200 *
12.0	62.1	20.4	49 800
14.0	55.7	19.2	39 800
16.0	48.8	17.5	33 000
18.0	41.0	15.4	27 900
20.0	31.5	12.5	24 000

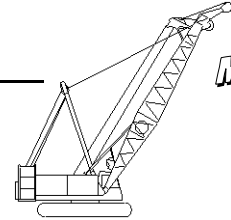
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) Boom			
5.2	82.7	26.0	119 700 *b
5.5	81.9	25.9	114 000 *b
6.0	80.7	25.8	104 800 *b
7.0	78.3	25.6	90 200 *b
8.0	75.9	25.4	78 900 *
9.0	73.5	25.1	69 800 *
10.0	71.0	24.7	62 200 *
12.0	65.9	23.9	50 000
14.0	60.5	22.8	39 900
16.0	54.9	21.5	33 000
18.0	48.8	19.8	28 000
20.0	42.1	17.8	24 200
22.0	34.2	15.1	21 100
24.0	24.2	11.3	18 600
27.4m (90 Ft.) Boom			
5.5	82.9	29.0	110 200 *b
6.0	81.8	28.9	105 000 *b
7.0	79.7	28.7	90 000 *b
8.0	77.5	28.5	78 700 *
9.0	75.4	28.2	69 700 *
10.0	73.2	27.9	62 100 *
12.0	68.7	27.2	50 000
14.0	64.1	26.3	39 900
16.0	59.3	25.2	33 000
18.0	54.3	23.8	28 000
20.0	48.8	22.1	24 200
22.0	42.9	20.1	21 100
24.0	36.2	17.6	18 600
26.0	28.0	14.2	16 600
30.5m (100 Ft.) Boom			
5.8	83.0	32.0	104 700 *b
6.0	82.6	32.0	103 500 *b
7.0	80.7	31.8	89 900 *b
8.0	78.8	31.6	78 700 *
9.0	76.9	31.4	69 700 *
10.0	74.9	31.1	62 100 *
12.0	71.0	30.5	50 000
14.0	66.9	29.7	39 900
16.0	62.7	28.7	33 000
18.0	58.3	27.5	28 000
20.0	53.7	26.1	24 200
22.0	48.9	24.4	21 200
24.0	43.6	22.4	18 700
26.0	37.6	20.0	16 700
28.0	30.8	17.0	14 900
30.0	22.0	12.7	13 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) Boom			
6.7	82.1	35.0	92 600 *
7.0	81.6	34.9	89 400 *
8.0	79.8	34.7	78 400 *
9.0	78.1	34.5	69 500 *
10.0	76.3	34.3	61 900 *
12.0	72.8	33.7	50 000
14.0	69.1	33.0	39 900
16.0	65.4	32.1	33 000
18.0	61.5	31.1	28 000
20.0	57.5	29.8	24 200
22.0	53.3	28.4	21 100
24.0	48.9	26.7	18 600
26.0	44.1	24.8	16 600
28.0	38.8	22.4	14 900
30.0	32.8	19.6	13 400
36.6m (120 Ft.) Boom			
6.7	82.7	38.1	88 100 *
7.0	82.3	38.0	86 700 *
8.0	80.7	37.8	78 300 *
9.0	79.1	37.7	69 400 *
10.0	77.5	37.4	61 800 *
12.0	74.2	36.9	50 000
14.0	70.9	36.2	39 800
16.0	67.6	35.4	33 000
18.0	64.1	34.5	27 900
20.0	60.5	33.4	24 100
22.0	56.8	32.2	21 100
24.0	53.0	30.7	18 600
26.0	48.9	29.0	16 600
28.0	44.5	27.1	14 900
30.0	39.8	24.8	13 400
34.0	28.3	18.7	11 000
39.6m (130 Ft.) Boom			
7.3	82.4	41.0	78 400 *
8.0	81.4	40.9	75 800 *
9.0	79.9	40.8	69 400 *
10.0	78.5	40.6	61 700 *
12.0	75.5	40.1	49 800
14.0	72.5	39.5	39 800
16.0	69.4	38.7	32 900
18.0	66.2	37.9	27 900
20.0	63.0	36.9	24 000
22.0	59.7	35.8	21 000
24.0	56.3	34.5	18 500
26.0	52.7	33.0	16 500
28.0	48.9	31.3	14 700
30.0	44.9	29.4	13 300
34.0	35.8	24.6	10 900
38.0	23.8	17.3	9 100



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements



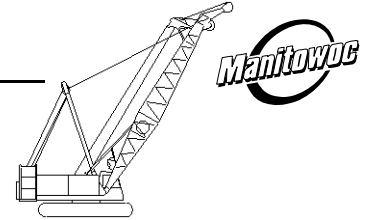
Boom No. 84
44 680 kg Crane Counterweight
19 960 kg Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing

555 SERIES 2

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) Boom			
7.3	83.0	44.1	73 700 *
8.0	82.0	44.0	71 200 *
9.0	80.7	43.9	67 700 *
10.0	79.3	43.7	61 700 *
12.0	76.5	43.2	49 800
14.0	73.8	42.7	39 700
16.0	70.9	42.0	32 800
18.0	68.0	41.2	27 800
20.0	65.1	40.3	23 900
22.0	62.1	39.3	20 900
24.0	59.0	38.1	18 400
26.0	55.8	36.8	16 400
28.0	52.4	35.3	14 700
30.0	48.9	33.6	13 200
34.0	41.2	29.5	10 900
38.0	32.0	24.0	9 100
42.0	19.2	15.4	7 600
45.7m (150 Ft.) Boom			
7.9	82.7	47.1	67 800 *
8.0	82.6	47.1	67 600 *
9.0	81.3	47.0	64 600 *
10.0	80.0	46.8	61 100 *
12.0	77.5	46.4	49 700
14.0	74.9	45.8	39 600
16.0	72.2	45.2	32 700
18.0	69.6	44.5	27 700
20.0	66.9	43.7	23 800
22.0	64.1	42.7	20 800
24.0	61.3	41.7	18 300
26.0	58.3	40.5	16 300
28.0	55.3	39.1	14 600
30.0	52.2	37.6	13 100
34.0	45.4	34.0	10 800
38.0	37.8	29.4	8 900
42.0	28.4	23.1	7 500
48.8m (160 Ft.) Boom			
8.5	82.4	50.1	59 800 *
9.0	81.8	50.0	59 600 *
10.0	80.6	49.9	57 100 *
12.0	78.3	49.5	49 700
14.0	75.8	49.0	39 600
16.0	73.4	48.4	32 600
18.0	70.9	47.8	27 600
20.0	68.4	47.0	23 800
22.0	65.8	46.1	20 700
24.0	63.2	45.1	18 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) Boom			
26.0	60.5	44.0	16 200
28.0	57.8	42.8	14 500
30.0	54.9	41.4	13 000
34.0	48.9	38.2	10 700
38.0	42.2	34.2	8 800
42.0	34.6	29.1	7 400
46.0	24.9	21.9	6 200
51.8m (170 Ft.) Boom			
8.5	82.8	53.2	57 600 *
9.0	82.3	53.1	56 400 *
10.0	81.2	53.0	54 000 *
12.0	79.0	52.6	49 000
14.0	76.7	52.1	39 500
16.0	74.4	51.6	32 500
18.0	72.1	51.0	27 500
20.0	69.7	50.3	23 600
22.0	67.3	49.4	20 600
24.0	64.9	48.5	18 100
26.0	62.4	47.5	16 100
28.0	59.9	46.4	14 400
30.0	57.3	45.1	12 900
34.0	51.8	42.2	10 500
38.0	45.9	38.7	8 700
42.0	39.3	34.2	7 200
46.0	31.5	28.4	6 000
50.0	21.3	20.2	5 100
54.9m (180 Ft.) Boom			
9.1	82.6	56.2	52 900 *
10.0	81.7	56.1	51 000 *
12.0	79.6	55.7	46 600 *
14.0	77.4	55.3	39 500
16.0	75.3	54.8	32 500
18.0	73.1	54.2	27 400
20.0	70.9	53.5	23 500
22.0	68.7	52.7	20 500
24.0	66.4	51.9	18 000
26.0	64.1	51.0	16 000
28.0	61.7	49.9	14 300
30.0	59.3	48.7	12 800
34.0	54.3	46.1	10 500
38.0	48.9	42.8	8 700
42.0	43.0	38.9	7 200
46.0	36.4	34.0	6 000
50.0	28.5	27.5	5 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) Boom			
9.8	82.4	59.2	44 900 *
10.0	82.1	59.1	44 900 *
12.0	80.1	58.8	42 600 *
14.0	78.1	58.4	38 600
16.0	76.1	57.9	32 500
18.0	74.0	57.4	27 300
20.0	71.9	56.7	23 400
22.0	69.8	56.0	20 400
24.0	67.7	55.2	17 900
26.0	65.6	54.3	15 900
28.0	63.3	53.4	14 100
30.0	61.1	52.3	12 700
34.0	56.4	49.8	10 300
38.0	51.5	46.8	8 500
42.0	46.2	43.3	7 100
46.0	40.4	38.9	5 900
50.0	33.7	33.5	4 900
54.0	25.6	26.3	4 000
61.0m (200 Ft.) Boom			
10.4	82.2	62.2	43 200 *
12.0	80.6	61.9	40 100 *
14.0	78.7	61.5	36 600 *
16.0	76.8	61.1	32 600
18.0	74.8	60.5	27 200
20.0	72.9	59.9	23 300
22.0	70.9	59.3	20 200
24.0	68.9	58.5	17 800
26.0	66.9	57.7	15 700
28.0	64.8	56.8	14 000
30.0	62.7	55.7	12 600
34.0	58.3	53.4	10 200
38.0	53.8	50.7	8 400
42.0	48.9	47.4	6 900
46.0	43.7	43.5	5 700
50.0	37.9	38.8	4 700
54.0	31.1	32.9	3 900
58.0	22.6	24.8	3 200



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

Boom No. 84
44 680 kg Crane Counterweight
19 960 kg Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing

555 SERIES 2

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
64.0m (210 Ft.) Boom			
11.0	82.0	65.2	39 600 *
12.0	81.1	65.0	37 900 *
14.0	79.3	64.6	34 600 *
16.0	77.4	64.2	31 300
18.0	75.6	63.7	27 200
20.0	73.7	63.1	23 200
22.0	71.8	62.5	20 100
24.0	69.9	61.8	17 700
26.0	68.0	61.0	15 600
28.0	66.1	60.1	13 900
30.0	64.1	59.2	12 400
34.0	60.0	57.0	10 000
38.0	55.8	54.4	8 200
42.0	51.3	51.4	6 800
46.0	46.5	47.9	5 600
50.0	41.3	43.6	4 600
54.0	35.4	38.5	3 800
58.0	28.6	32.0	3 100
62.0	19.6	22.8	2 300
67.1m (220 Ft.) Boom			
11.0	82.4	68.2	37 200 *
12.0	81.5	68.1	35 600 *
14.0	79.8	67.7	32 500 *
16.0	78.0	67.3	29 600 *
18.0	76.3	66.8	26 800
20.0	74.5	66.3	23 100
22.0	72.7	65.7	20 000
24.0	70.9	65.0	17 500
26.0	69.1	64.3	15 500
28.0	67.2	63.5	13 800
30.0	65.3	62.6	12 300
34.0	61.5	60.5	10 000
38.0	57.5	58.1	8 100
42.0	53.3	55.3	6 700
46.0	48.9	52.0	5 500
50.0	44.2	48.2	4 500
54.0	39.0	43.6	3 700
58.0	33.1	38.0	2 800 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
70.1m (230 Ft.) Boom			
11.6	82.2	71.2	35 500 *
12.0	81.9	71.2	35 300 *
14.0	80.2	70.8	34 700
16.0	78.5	70.4	32 500
18.0	76.9	70.0	26 800
20.0	75.2	69.5	22 900
22.0	73.5	68.9	19 900
24.0	71.8	68.3	17 400
26.0	70.0	67.5	15 300
28.0	68.3	66.8	13 600
30.0	66.5	65.9	12 100
34.0	62.9	64.0	9 800
38.0	59.1	61.7	8 000
42.0	55.2	59.1	6 500
46.0	51.1	56.0	5 300
50.0	46.7	52.5	4 300
54.0	42.0	48.3	3 500
58.0	36.8	43.4	2 800
62.0	30.8	37.3	2 100
73.2m (240 Ft.) Boom			
11.6	82.5	74.3	29 900 *
12.0	82.2	74.2	29 900 *
14.0	80.6	73.9	29 900 *
16.0	79.0	73.6	29 800
18.0	77.4	73.1	27 000
20.0	75.8	72.6	22 800
22.0	74.2	72.1	19 700
24.0	72.5	71.5	17 200
26.0	70.9	70.8	15 200
28.0	69.2	70.0	13 500
30.0	67.5	69.2	12 000
34.0	64.1	67.4	9 600
38.0	60.5	65.3	7 800
42.0	56.8	62.8	6 400
46.0	53.0	59.9	5 200
50.0	48.9	56.6	4 200
54.0	44.6	52.8	3 400
58.0	39.9	48.3	2 700
62.0	34.7	43.0	2 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
76.2m (250 Ft.) Boom			
12.2	82.4	77.3	28 700 *
14.0	81.0	77.0	28 200 *
16.0	79.5	76.7	27 300 *
18.0	77.9	76.2	26 200
20.0	76.4	75.8	22 700
22.0	74.8	75.2	19 600
24.0	73.3	74.7	17 100
26.0	71.7	74.0	15 100
28.0	70.1	73.3	13 300
30.0	68.5	72.5	11 900
34.0	65.2	70.8	9 500
38.0	61.8	68.8	7 700
42.0	58.3	66.4	6 200
46.0	54.7	63.7	5 000
50.0	50.9	60.6	4 100
54.0	46.9	57.1	3 200
58.0	42.6	53.0	2 500
62.0	37.9	48.2	1 900