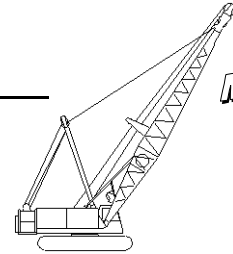




Liftcrane Boom Capacities

Boom No. 84 With Open Throat Top
32 430 kg Counterweight
360 Degree Rating

Meets
ANSI B30.5
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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 18.3m thru 24.4m boom lengths.*

Upper boom point capacity for liftcrane service with single part whip line is 13 610 kg. When boom butt mounted auxiliary drum equipped for 26 mm wire rope is used, capacity with single part whip line is 9 070 kg. 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. A03931** and Wire Rope Specification chart **No. 8482-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. 8483-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.

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.



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) 64.0m	—	54.9m	—
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.			

Upper Boom Point Deduct

Deduct 590 kg from capacities when upper boom point is attached.

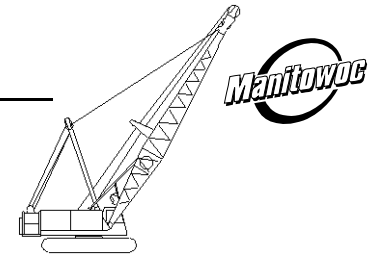
Load Sensor Deduct

Deduct 280 kg from boom capacities when load sensor sheaves and 3 load lines are 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, third load line and load sensor sheaves for third load line must be removed when jib is attached.



Liftcrane Boom Capacities

Boom No. 84 With Open Throat Top
32 430 kg Counterweight
360 Degree Rating

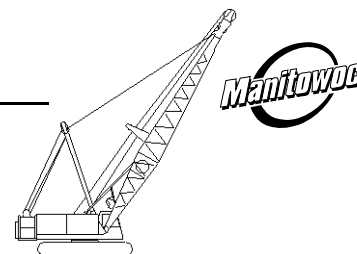
**Meets
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Requirements**

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
18.3m (60 Ft.) Boom			
4.3	81.4	19.9	135 300 *b
4.5	80.6	19.9	128 700 *b
5.0	79.0	19.8	116 200 b
5.5	77.4	19.7	99 700 b
6.0	75.8	19.6	85 100 b
7.0	72.6	19.3	65 500 b
8.0	69.3	18.9	53 000 b
9.0	65.9	18.5	44 300
10.0	62.4	18.0	38 000
11.0	58.8	17.5	33 100
12.0	55.1	16.8	29 200
13.0	51.1	16.1	26 000
14.0	47.0	15.2	23 400
15.0	42.5	14.2	21 200
16.0	37.7	13.0	19 400
18.0	25.7	9.8	16 300
21.3m (70 Ft.) Boom			
4.6	81.8	23.0	126 600 *b
5.0	80.6	22.9	116 200 b
5.5	79.3	22.8	100 000 b
6.0	77.9	22.7	85 300 b
7.0	75.1	22.5	65 600 b
8.0	72.3	22.2	53 100 b
9.0	69.5	21.8	44 400
10.0	66.6	21.4	38 000
11.0	63.6	21.0	33 100
12.0	60.6	20.4	29 300
13.0	57.5	19.8	26 100
14.0	54.2	19.1	23 500
15.0	50.8	18.4	21 300
16.0	47.3	17.5	19 400
18.0	39.4	15.4	16 400
20.0	30.0	12.5	14 000
24.4m (80 Ft.) Boom			
5.2	81.4	26.0	112 200 *b
5.5	80.6	25.9	100 100 b
6.0	79.4	25.8	85 400 b
7.0	77.0	25.6	65 700 b
8.0	74.6	25.4	53 200 b
9.0	72.1	25.0	44 500
10.0	69.7	24.7	38 100
11.0	67.1	24.3	33 200
12.0	64.6	23.9	29 300
13.0	61.9	23.4	26 100
14.0	59.2	22.8	23 500
15.0	56.5	22.2	21 300
16.0	53.6	21.5	19 400
18.0	47.5	19.8	16 400
20.0	40.7	17.7	14 100
22.0	32.9	15.1	12 200
24.0	22.8	11.3	10 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) Boom			
5.5	81.7	29.0	100 600 b
6.0	80.6	28.9	85 400 b
7.0	78.5	28.7	65 700 b
8.0	76.3	28.5	53 200
9.0	74.2	28.2	44 400
10.0	72.0	27.9	38 000
11.0	69.8	27.6	33 100
12.0	67.5	27.2	29 200
13.0	65.3	26.8	26 100
14.0	62.9	26.3	23 500
15.0	60.6	25.7	21 300
16.0	58.1	25.1	19 400
18.0	53.1	23.8	16 400
20.0	47.7	22.1	14 000
22.0	41.7	20.1	12 200
24.0	35.0	17.6	10 600
26.0	26.8	14.2	9 400
30.5m (100 Ft.) Boom			
5.8	82.0	32.0	91 100 b
6.0	81.6	32.0	85 600 b
7.0	79.7	31.8	65 700 b
8.0	77.7	31.6	53 100
9.0	75.8	31.4	44 400
10.0	73.9	31.1	38 000
11.0	71.9	30.8	33 100
12.0	69.9	30.5	29 200
13.0	67.9	30.1	26 000
14.0	65.8	29.6	23 400
15.0	63.8	29.2	21 200
16.0	61.6	28.7	19 300
18.0	57.3	27.5	16 300
20.0	52.7	26.1	14 000
22.0	47.8	24.4	12 100
24.0	42.5	22.4	10 600
26.0	36.6	20.0	9 300
28.0	29.7	16.9	8 200
30.0	20.9	12.7	7 300
33.5m (110 Ft.) Boom			
6.7	81.1	35.0	70 600 b
7.0	80.6	34.9	66 100 b
8.0	78.9	34.7	53 200
9.0	77.1	34.5	44 400
10.0	75.4	34.3	38 000
11.0	73.6	34.0	33 100
12.0	71.8	33.7	29 200
13.0	70.0	33.3	26 000
14.0	68.2	33.0	23 400
15.0	66.3	32.5	21 200
16.0	64.4	32.1	19 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) Boom			
18.0	60.6	31.0	16 300
20.0	56.6	29.8	14 000
22.0	52.4	28.4	12 100
24.0	47.9	26.7	10 600
26.0	43.1	24.8	9 300
28.0	37.8	22.4	8 300
30.0	31.9	19.5	7 300
32.0	24.6	15.8	6 500
36.6m (120 Ft.) Boom			
6.7	81.9	38.0	70 600
7.0	81.4	38.0	66 100
8.0	79.8	37.8	53 100
9.0	78.2	37.6	44 300
10.0	76.6	37.4	37 900
11.0	75.0	37.2	33 000
12.0	73.4	36.9	29 100
13.0	71.7	36.6	25 900
14.0	70.1	36.2	23 300
15.0	68.4	35.8	21 100
16.0	66.7	35.4	19 200
18.0	63.2	34.5	16 200
20.0	59.7	33.4	13 900
22.0	56.0	32.2	12 000
24.0	52.1	30.7	10 500
26.0	48.0	29.0	9 200
28.0	43.6	27.1	8 100
30.0	38.9	24.8	7 200
32.0	33.6	22.1	6 400
34.0	27.4	18.7	5 700
36.0	19.5	14.1	5 100
39.6m (130 Ft.) Boom			
7.3	81.6	41.0	61 200
8.0	80.6	40.9	53 100
9.0	79.1	40.7	44 300
10.0	77.6	40.5	37 800
11.0	76.2	40.3	32 900
12.0	74.7	40.1	29 000
13.0	73.2	39.8	25 800
14.0	71.6	39.5	23 200
15.0	70.1	39.1	21 000
16.0	68.6	38.7	19 200
18.0	65.4	37.9	16 100
20.0	62.2	36.9	13 800
22.0	58.9	35.8	11 900
24.0	55.4	34.5	10 400
26.0	51.9	33.0	9 200
28.0	48.1	31.3	8 100
30.0	44.1	29.4	7 200
32.0	39.7	27.2	6 300
34.0	35.0	24.5	5 700
36.0	29.5	21.4	5 100
38.0	23.0	17.3	4 500



Liftcrane Boom Capacities

Boom No. 84 With Open Throat Top
32 430 kg Counterweight
360 Degree Rating

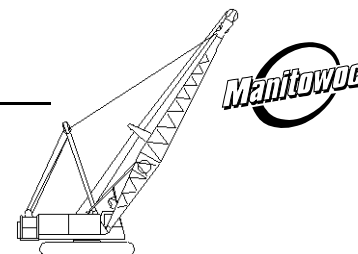
Meets
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Requirements

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) Boom			
7.9	81.4	44.0	53 700
8.0	81.3	44.0	53 000
9.0	79.9	43.8	44 200
10.0	78.5	43.7	37 700
11.0	77.2	43.5	32 800
12.0	75.8	43.2	28 900
13.0	74.4	42.9	25 700
14.0	73.0	42.7	23 100
15.0	71.6	42.3	20 900
16.0	70.2	42.0	19 000
18.0	67.3	41.2	16 000
20.0	64.3	40.3	13 600
22.0	61.3	39.3	11 800
24.0	58.2	38.1	10 300
26.0	55.0	36.8	9 000
28.0	51.7	35.3	7 900
30.0	48.1	33.6	7 000
32.0	44.4	31.7	6 200
34.0	40.4	29.5	5 500
36.0	36.1	27.0	4 900
38.0	31.3	24.0	4 400
40.0	25.6	20.3	3 800
42.0	18.5	15.4	3 400
45.7m (150 Ft.) Boom			
7.9	82.0	47.1	53 700
8.0	81.9	47.1	53 000
9.0	80.6	47.0	44 100
10.0	79.3	46.8	37 700
11.0	78.0	46.6	32 700
12.0	76.8	46.3	28 800
13.0	75.5	46.1	25 600
14.0	74.2	45.8	23 000
15.0	72.9	45.5	20 800
16.0	71.5	45.2	18 900
18.0	68.9	44.5	15 900
20.0	66.2	43.7	13 600
22.0	63.4	42.7	11 700
24.0	60.6	41.7	10 200
26.0	57.6	40.5	8 900
28.0	54.6	39.1	7 900
30.0	51.5	37.6	7 000
32.0	48.2	35.9	6 200
34.0	44.7	34.0	5 500
36.0	41.1	31.9	4 900
38.0	37.1	29.4	4 300
40.0	32.7	26.5	3 800
42.0	27.7	23.1	3 400
44.0	21.7	18.8	3 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) Boom			
8.5	81.7	50.1	47 800
9.0	81.2	50.0	44 100
10.0	80.0	49.9	37 600
11.0	78.8	49.7	32 600
12.0	77.6	49.5	28 700
13.0	76.4	49.2	25 500
14.0	75.2	49.0	22 900
15.0	74.0	48.7	20 700
16.0	72.7	48.4	18 800
18.0	70.3	47.7	15 800
20.0	67.7	47.0	13 400
22.0	65.2	46.1	11 600
24.0	62.6	45.1	10 100
26.0	59.9	44.0	8 800
28.0	57.1	42.8	7 700
30.0	54.3	41.4	6 800
32.0	51.3	39.9	6 000
34.0	48.2	38.2	5 300
36.0	45.0	36.3	4 700
38.0	41.6	34.2	4 200
40.0	37.9	31.8	3 700
42.0	33.9	29.0	3 300
44.0	29.4	25.8	2 800
46.0	24.2	21.9	2 500
51.8m (170 Ft.) Boom			
9.1	81.5	53.1	42 900
10.0	80.6	53.0	37 500
11.0	79.5	52.8	32 500
12.0	78.3	52.6	28 600
13.0	77.2	52.4	25 400
14.0	76.1	52.1	22 800
15.0	74.9	51.9	20 600
16.0	73.8	51.6	18 700
18.0	71.5	51.0	15 700
20.0	69.1	50.2	13 400
22.0	66.7	49.4	11 500
24.0	64.3	48.5	10 000
26.0	61.8	47.5	8 700
28.0	59.3	46.4	7 600
30.0	56.7	45.1	6 700
32.0	54.0	43.7	5 900
34.0	51.2	42.2	5 200
36.0	48.3	40.5	4 600
38.0	45.3	38.6	4 100
40.0	42.1	36.5	3 600
42.0	38.6	34.2	3 100
44.0	34.9	31.5	2 700
46.0	30.9	28.4	2 400
48.0	26.2	24.7	2 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) Boom			
9.1	82.0	56.2	42 800
10.0	81.1	56.0	37 400
11.0	80.1	55.9	32 400
12.0	79.0	55.7	28 500
13.0	77.9	55.5	25 300
14.0	76.9	55.3	22 700
15.0	75.8	55.0	20 500
16.0	74.7	54.8	18 600
18.0	72.5	54.2	15 600
20.0	70.3	53.5	13 200
22.0	68.1	52.7	11 300
24.0	65.8	51.9	9 800
26.0	63.5	50.9	8 500
28.0	61.1	49.9	7 500
30.0	58.7	48.7	6 600
32.0	56.3	47.5	5 800
34.0	53.7	46.1	5 100
36.0	51.1	44.5	4 400
38.0	48.3	42.8	3 900
40.0	45.5	41.0	3 400
42.0	42.5	38.9	3 000
44.0	39.3	36.6	2 600
46.0	35.8	34.0	2 200
48.0	32.1	31.0	1 900
57.9m (190 Ft.) Boom			
9.8	81.8	59.2	38 700
10.0	81.6	59.1	37 400
11.0	80.6	59.0	32 300
12.0	79.6	58.8	28 400
13.0	78.6	58.6	25 200
14.0	77.6	58.4	22 600
15.0	76.5	58.2	20 400
16.0	75.5	57.9	18 500
18.0	73.5	57.4	15 400
20.0	71.4	56.7	13 100
22.0	69.3	56.0	11 200
24.0	67.2	55.2	9 700
26.0	65.0	54.3	8 400
28.0	62.8	53.3	7 400
30.0	60.5	52.3	6 500
32.0	58.2	51.1	5 700
34.0	55.9	49.8	5 000
36.0	53.5	48.4	4 400
38.0	51.0	46.8	3 800
40.0	48.4	45.1	3 400
42.0	45.7	43.3	2 900
44.0	42.8	41.2	2 500
46.0	39.8	38.9	2 100



Liftcrane Boom Capacities

Boom No. 84 With Open Throat Top
32 430 kg Counterweight
360 Degree Rating

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61.0m (200 Ft.) Boom			
10.4	81.7	62.2	35 200
11.0	81.1	62.1	32 200
12.0	80.1	61.9	28 300
13.0	79.1	61.7	25 100
14.0	78.2	61.5	22 500
15.0	77.2	61.3	20 200
16.0	76.3	61.1	18 300
18.0	74.3	60.5	15 300
20.0	72.4	59.9	13 000
22.0	70.4	59.3	11 100
24.0	68.4	58.5	9 600
26.0	66.3	57.7	8 300
28.0	64.3	56.7	7 200
30.0	62.2	55.7	6 300
32.0	60.0	54.6	5 500
34.0	57.8	53.4	4 800
36.0	55.6	52.1	4 200
38.0	53.2	50.7	3 600
40.0	50.9	49.1	3 200
42.0	48.4	47.4	2 800
44.0	45.8	45.6	2 300
46.0	43.1	43.5	2 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
64.0m (210 Ft.) Boom			
11.0	81.5	65.2	32 200
12.0	80.6	65.0	28 100
13.0	79.7	64.8	24 900
14.0	78.8	64.6	22 300
15.0	77.8	64.4	20 100
16.0	76.9	64.2	18 200
18.0	75.1	63.7	15 200
20.0	73.2	63.1	12 800
22.0	71.3	62.5	10 900
24.0	69.4	61.8	9 400
26.0	67.5	61.0	8 200
28.0	65.6	60.1	7 100
30.0	63.6	59.2	6 200
32.0	61.6	58.1	5 400
34.0	59.5	57.0	4 700
36.0	57.4	55.8	4 100
38.0	55.3	54.4	3 500
40.0	53.1	53.0	3 000
42.0	50.8	51.4	2 600
44.0	48.4	49.7	2 200