

Liftcrane Boom Capacities

2250 SERIES 1

Boom No. 44 With Heavy Lift Top
48 580 kg Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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 (*).

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. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

76.2m boom length requires only the middle three sheaves to be used on lower boom point. All other sheaves must be removed from lower boom point.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc. beneath boom 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. 179809**, Wire Rope Specification chart **No. 8025-A**, and Counterweight Arrangement chart **No. 8026-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. 8027-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 9 373 mm crawlers, 1 219 mm treads, 8 534 mm retractable gantry, 12 part boom hoist reeving, boom support straps and 48 580 kg counterweight.

Maximum Boom Lengths Lifted Unassisted

Over Front of Blocked Crawlers	Over Rear of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length	Boom Length
(a)(b) 76.2m	70.1m	(a) 67.1m
Load block, hook and weight ball on ground at start. (a) Third line sheave assembly on boom top must be removed on 76.2m boom or over side of crawlers on 67.1m boom. (b) Machine must be equipped with optional upperworks jacking cylinders when boom catwalks are attached.		

Jib is not to be used with this chart.

Third Line Deduct

Deduct 270 kg from boom capacities when boom is equipped for three line operation.

Boom Catwalks Deduct

Deduct 300 kg from capacities when boom catwalks are attached.

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
5.5	82.9	23.5	250 000 *
6.0	81.5	23.4	240 400 *
6.5	80.2	23.3	217 500
7.0	78.8	23.2	184 500
7.5	77.4	23.1	160 800
8.0	76.0	22.9	142 300
8.5	74.6	22.8	127 500
9.0	73.2	22.6	115 400
10.0	70.3	22.2	96 600
11.0	67.4	21.8	82 900
12.0	64.4	21.3	72 400
13.0	61.3	20.7	64 000
14.0	58.1	20.1	57 300
15.0	54.8	19.4	51 700
16.0	51.4	18.5	46 900
18.0	43.8	16.6	39 400
20.0	34.8	13.9	33 800
24.4m (80 Ft.) BOOM			
6.1	82.4	26.5	235 500 *
6.5	81.4	26.4	218 000
7.0	80.2	26.3	184 800
7.5	79.0	26.2	161 000
8.0	77.8	26.1	142 500
8.5	76.6	26.0	127 700
9.0	75.4	25.8	115 500
10.0	72.9	25.5	96 700
11.0	70.4	25.1	82 900
12.0	67.8	24.7	72 400
13.0	65.2	24.2	64 000
14.0	62.6	23.7	57 200
15.0	59.8	23.1	51 600
16.0	57.0	22.4	46 900
18.0	51.1	20.8	39 400
20.0	44.5	18.9	33 700
22.0	37.0	16.4	29 200
24.0	27.6	13.0	25 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
6.4	82.6	29.5	224 200
6.5	82.4	29.5	217 100
7.0	81.3	29.4	185 000
7.5	80.3	29.3	161 200
8.0	79.2	29.2	142 700
8.5	78.1	29.1	127 800
9.0	77.0	29.0	115 600
10.0	74.9	28.7	96 800
11.0	72.7	28.4	83 000
12.0	70.4	28.0	72 400
13.0	68.2	27.6	64 100
14.0	65.9	27.1	57 300
15.0	63.5	26.6	51 600
16.0	61.1	26.0	46 900
18.0	56.1	24.7	39 400
20.0	50.8	23.1	33 700
22.0	45.0	21.2	29 300
24.0	38.5	18.8	25 600
30.5m (100 Ft.) BOOM			
6.7	82.8	32.6	202 700
7.0	82.2	32.5	185 200
7.5	81.2	32.4	161 300
8.0	80.3	32.3	142 700
8.5	79.3	32.2	127 800
9.0	78.4	32.1	115 600
10.0	76.4	31.9	96 800
11.0	74.5	31.6	82 900
12.0	72.5	31.2	72 300
13.0	70.5	30.9	64 000
14.0	68.5	30.5	57 200
15.0	66.4	30.0	51 600
16.0	64.3	29.5	46 800
18.0	60.0	28.4	39 300
20.0	55.4	27.0	33 600
22.0	50.6	25.4	29 100
24.0	45.4	23.5	25 500
26.0	39.7	21.2	22 500
28.0	33.1	18.3	20 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
7.0	82.9	35.6	169 800 *
7.5	82.0	35.5	162 600
8.0	81.2	35.4	142 800
8.5	80.3	35.3	127 900
9.0	79.4	35.2	115 600
10.0	77.7	35.0	96 700
11.0	75.9	34.7	82 900
12.0	74.1	34.4	72 300
13.0	72.3	34.1	63 900
14.0	70.5	33.8	57 100
15.0	68.7	33.3	51 500
16.0	66.8	32.9	46 700
18.0	63.0	31.9	39 200
20.0	59.0	30.7	33 500
22.0	54.9	29.3	29 000
24.0	50.5	27.7	25 400
26.0	45.8	25.8	22 400
28.0	40.6	23.6	19 900
30.0	34.9	20.9	17 800
32.0	28.0	17.4	15 900
36.6m (120 Ft.) BOOM			
7.3	83.0	38.6	164 900 *
7.5	82.7	38.6	159 900
8.0	81.9	38.5	142 800
8.5	81.1	38.4	127 800
9.0	80.3	38.3	115 600
10.0	78.7	38.1	96 700
11.0	77.1	37.9	82 800
12.0	75.5	37.6	72 100
13.0	73.9	37.3	63 700
14.0	72.2	37.0	56 900
15.0	70.5	36.6	51 300
16.0	68.9	36.2	46 500
18.0	65.4	35.3	39 000
20.0	61.9	34.3	33 300
22.0	58.2	33.1	28 800
24.0	54.4	31.7	25 200
26.0	50.4	30.0	22 200
28.0	46.1	28.2	19 700
30.0	41.4	26.0	17 600
32.0	36.3	23.4	15 700
34.0	30.3	20.1	14 100

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39.6m (130 Ft.) BOOM			
7.9	82.7	41.6	145 400
8.0	82.6	41.6	143 000
8.5	81.8	41.5	127 900
9.0	81.1	41.4	115 600
10.0	79.6	41.3	96 600
11.0	78.1	41.0	82 800
12.0	76.6	40.8	72 100
13.0	75.1	40.5	63 700
14.0	73.6	40.2	56 900
15.0	72.1	39.9	51 300
16.0	70.6	39.5	46 500
18.0	67.4	38.7	38 900
20.0	64.2	37.7	33 300
22.0	60.9	36.6	28 800
24.0	57.5	35.4	25 100
26.0	54.0	34.0	22 200
28.0	50.3	32.3	19 700
30.0	46.3	30.5	17 500
32.0	42.0	28.3	15 700
34.0	37.4	25.8	14 100
36.0	32.2	22.8	12 700
38.0	25.9	19.0	11 400
42.7m (140 Ft.) BOOM			
8.2	82.8	44.7	135 600
8.5	82.4	44.6	127 900
9.0	81.7	44.5	115 500
10.0	80.4	44.4	96 500
11.0	79.0	44.2	82 700
12.0	77.6	43.9	72 000
13.0	76.2	43.7	63 500
14.0	74.8	43.4	56 700
15.0	73.4	43.1	51 100
16.0	72.0	42.8	46 300
18.0	69.1	42.0	38 800
20.0	66.2	41.1	33 000
22.0	63.2	40.1	28 500
24.0	60.1	39.0	24 900
26.0	56.9	37.7	22 000
28.0	53.6	36.3	19 400
30.0	50.2	34.6	17 300
32.0	46.5	32.8	15 500
34.0	42.6	30.7	13 900
36.0	38.3	28.2	12 400
38.0	33.6	25.3	11 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.7m (150 Ft.) BOOM			
8.5	82.9	47.7	126 900
9.0	82.3	47.6	115 500
10.0	81.0	47.5	96 400
11.0	79.7	47.3	82 500
12.0	78.5	47.1	71 800
13.0	77.2	46.8	63 400
14.0	75.9	46.6	56 500
15.0	74.6	46.3	50 900
16.0	73.3	46.0	46 100
18.0	70.6	45.3	38 600
20.0	67.9	44.5	32 900
22.0	65.2	43.6	28 400
24.0	62.3	42.5	24 700
26.0	59.4	41.4	21 700
28.0	56.4	40.0	19 200
30.0	53.3	38.6	17 100
32.0	50.1	36.9	15 300
34.0	46.7	35.1	13 700
36.0	43.0	33.0	12 300
38.0	39.1	30.6	11 000
40.0	34.9	27.8	9 900
42.0	30.1	24.6	8 900
48.8m (160 Ft.) BOOM			
8.8	83.0	50.7	119 100
9.0	82.8	50.7	115 500
10.0	81.6	50.6	96 400
11.0	80.4	50.4	82 400
12.0	79.2	50.2	71 700
13.0	78.0	50.0	63 200
14.0	76.8	49.7	56 400
15.0	75.6	49.4	50 700
16.0	74.3	49.2	45 900
18.0	71.9	48.5	38 400
20.0	69.4	47.8	32 600
22.0	66.8	46.9	28 100
24.0	64.2	46.0	24 500
26.0	61.5	44.9	21 500
28.0	58.8	43.7	19 000
30.0	56.0	42.4	16 800
32.0	53.1	40.9	15 000
34.0	50.0	39.2	13 400
36.0	46.8	37.4	12 000
38.0	43.4	35.3	10 800
40.0	39.8	33.0	9 600
42.0	35.9	30.3	8 600
44.0	31.6	27.2	7 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
9.1	83.0	53.8	112 200
10.0	82.1	53.6	96 300
11.0	81.0	53.5	82 400
12.0	79.8	53.3	71 600
13.0	78.7	53.1	63 200
14.0	77.6	52.9	56 300
15.0	76.4	52.6	50 600
16.0	75.3	52.3	45 900
18.0	73.0	51.7	38 300
20.0	70.6	51.0	32 600
22.0	68.3	50.2	28 000
24.0	65.8	49.4	24 400
26.0	63.4	48.4	21 400
28.0	60.8	47.3	18 900
30.0	58.3	46.0	16 800
32.0	55.6	44.7	15 000
34.0	52.8	43.2	13 300
36.0	50.0	41.5	12 000
38.0	47.0	39.7	10 700
40.0	43.8	37.7	9 600
42.0	40.4	35.4	8 600
44.0	36.8	32.8	7 700
46.0	32.8	29.8	6 900
48.0	28.4	26.3	6 100
54.9m (180 Ft.) BOOM			
9.8	82.8	56.8	100 400
10.0	82.5	56.7	96 500
11.0	81.5	56.6	82 200
12.0	80.4	56.4	71 500
13.0	79.3	56.2	63 000
14.0	78.3	56.0	56 100
15.0	77.2	55.7	50 400
16.0	76.1	55.5	45 600
18.0	74.0	54.9	38 100
20.0	71.8	54.3	32 300
22.0	69.5	53.5	27 800
24.0	67.3	52.7	24 200
26.0	65.0	51.8	21 200
28.0	62.6	50.7	18 600
30.0	60.2	49.6	16 500
32.0	57.8	48.4	14 700
34.0	55.2	47.0	13 100
36.0	52.6	45.5	11 700
38.0	49.9	43.8	10 400
40.0	47.1	42.0	9 300
42.0	44.1	40.0	8 300
44.0	41.0	37.7	7 400
46.0	37.6	35.2	6 600
48.0	33.9	32.3	5 800
50.0	29.9	29.0	5 200

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48 580 kg Counterweight
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
10.4	82.6	59.7	90 500
11.0	81.9	59.7	82 100
12.0	80.9	59.5	71 300
13.0	79.9	59.3	62 800
14.0	78.9	59.1	56 000
15.0	77.9	58.9	50 300
16.0	76.9	58.6	45 400
18.0	74.8	58.1	37 900
20.0	72.8	57.5	32 100
22.0	70.7	56.8	27 600
24.0	68.5	56.0	23 900
26.0	66.4	55.1	21 000
28.0	64.2	54.2	18 400
30.0	61.9	53.1	16 300
32.0	59.7	52.0	14 500
34.0	57.3	50.7	12 800
36.0	54.9	49.3	11 500
38.0	52.4	47.8	10 200
40.0	49.9	46.1	9 100
42.0	47.2	44.3	8 100
44.0	44.4	42.3	7 200
46.0	41.4	40.1	6 400
48.0	38.3	37.6	5 600
50.0	34.9	34.8	4 900
52.0	31.2	31.6	4 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61.0m (200 Ft.) BOOM			
10.4	82.9	62.8	90 400
11.0	82.3	62.7	81 900
12.0	81.4	62.6	71 200
13.0	80.4	62.4	62 600
14.0	79.5	62.2	55 700
15.0	78.5	62.0	50 000
16.0	77.5	61.8	45 200
18.0	75.6	61.3	37 600
20.0	73.6	60.7	31 800
22.0	71.7	60.0	27 300
24.0	69.7	59.3	23 700
26.0	67.6	58.5	20 700
28.0	65.6	57.6	18 100
30.0	63.5	56.6	16 000
32.0	61.3	55.5	14 200
34.0	59.2	54.3	12 600
36.0	56.9	53.0	11 200
38.0	54.6	51.6	9 900
40.0	52.3	50.1	8 800
42.0	49.8	48.4	7 800
44.0	47.3	46.6	6 900
46.0	44.6	44.6	6 100
48.0	41.8	42.4	5 300
50.0	38.9	40.0	4 600
52.0	35.7	37.3	4 000
54.0	32.3	34.2	3 400
56.0	28.5	30.7	2 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
64.0m (210 Ft.) BOOM			
11.0	82.7	65.8	82 100
12.0	81.8	65.7	71 000
13.0	80.9	65.5	62 500
14.0	80.0	65.3	55 600
15.0	79.1	65.1	49 900
16.0	78.1	64.9	45 100
18.0	76.3	64.4	37 500
20.0	74.4	63.9	31 800
22.0	72.6	63.2	27 200
24.0	70.7	62.5	23 600
26.0	68.8	61.8	20 600
28.0	66.8	60.9	18 000
30.0	64.8	60.0	15 900
32.0	62.8	59.0	14 100
34.0	60.8	57.9	12 500
36.0	58.7	56.7	11 000
38.0	56.6	55.4	9 800
40.0	54.4	53.9	8 700
42.0	52.1	52.4	7 700
44.0	49.8	50.7	6 800
46.0	47.4	48.9	6 000
48.0	44.8	46.9	5 200
50.0	42.2	44.8	4 500
52.0	39.4	42.4	3 900
54.0	36.4	39.7	3 300
56.0	33.2	36.8	2 800
58.0	29.7	33.4	2 300

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67.1m (220 Ft.) BOOM			
11.6	82.5	68.8	75 100
12.0	82.2	68.7	71 000
13.0	81.3	68.6	62 400
14.0	80.4	68.4	55 500
15.0	79.6	68.2	49 700
16.0	78.7	68.0	44 900
18.0	76.9	67.6	37 300
20.0	75.2	67.0	31 500
22.0	73.4	66.4	26 900
24.0	71.6	65.8	23 300
26.0	69.8	65.1	20 300
28.0	67.9	64.2	17 800
30.0	66.1	63.4	15 600
32.0	64.2	62.4	13 800
34.0	62.2	61.4	12 200
36.0	60.3	60.2	10 800
38.0	58.3	59.0	9 500
40.0	56.2	57.7	8 400
42.0	54.1	56.3	7 400
44.0	52.0	54.7	6 500
46.0	49.7	53.0	5 700
48.0	47.4	51.2	4 900
50.0	45.0	49.3	4 300
52.0	42.5	47.1	3 600
54.0	39.9	44.8	3 000
56.0	37.1	42.2	2 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
70.1m (230 Ft.) BOOM			
11.6	82.9	71.9	74 900
12.0	82.5	71.8	70 800
13.0	81.7	71.7	62 200
14.0	80.9	71.5	55 200
15.0	80.0	71.3	49 500
16.0	79.2	71.1	44 700
18.0	77.5	70.7	37 100
20.0	75.8	70.2	31 300
22.0	74.1	69.6	26 700
24.0	72.4	69.0	23 100
26.0	70.7	68.3	20 100
28.0	68.9	67.5	17 500
30.0	67.2	66.7	15 400
32.0	65.4	65.8	13 500
34.0	63.6	64.8	11 900
36.0	61.7	63.7	10 500
38.0	59.8	62.6	9 300
40.0	57.9	61.3	8 100
42.0	55.9	60.0	7 200
44.0	53.9	58.6	6 200
46.0	51.8	57.0	5 400
48.0	49.7	55.3	4 700
50.0	47.5	53.5	4 000
52.0	45.2	51.6	3 400
54.0	42.8	49.4	2 800
56.0	40.3	47.1	2 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
73.2m (240 Ft.) BOOM			
12.2	82.7	74.9	68 800
13.0	82.0	74.8	62 000
14.0	81.2	74.6	55 100
15.0	80.4	74.4	49 300
16.0	79.6	74.2	44 500
18.0	78.0	73.8	36 800
20.0	76.4	73.3	31 000
22.0	74.8	72.8	26 500
24.0	73.2	72.2	22 800
26.0	71.5	71.5	19 800
28.0	69.9	70.8	17 200
30.0	68.2	70.0	15 100
32.0	66.5	69.2	13 200
34.0	64.7	68.2	11 700
36.0	63.0	67.2	10 200
38.0	61.2	66.1	9 000
40.0	59.4	64.9	7 900
42.0	57.5	63.7	6 900
44.0	55.6	62.3	6 000
46.0	53.7	60.9	5 100
48.0	51.7	59.3	4 400
50.0	49.7	57.6	3 700
52.0	47.6	55.8	3 100
54.0	45.4	53.9	2 500
56.0	43.1	51.8	2 000



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Meets
ANSI B30.5
Requirements

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
76.2m (250 Ft.) BOOM			
12.2	83.0	78.0	69 100
13.0	82.4	77.8	62 300
14.0	81.6	77.7	55 400
15.0	80.8	77.5	49 700
16.0	80.1	77.3	44 800
18.0	78.5	76.9	37 100
20.0	77.0	76.5	31 400
22.0	75.4	76.0	26 800
24.0	73.9	75.4	23 200
26.0	72.3	74.8	20 100
28.0	70.7	74.1	17 600
30.0	69.1	73.3	15 500
32.0	67.5	72.5	13 600
34.0	65.8	71.6	12 000
36.0	64.2	70.6	10 600
38.0	62.5	69.6	9 300
40.0	60.7	68.5	8 200
42.0	59.0	67.3	7 200
44.0	57.2	66.0	6 300
46.0	55.4	64.6	5 500
48.0	53.5	63.2	4 800
50.0	51.6	61.6	4 100
52.0	49.6	59.9	3 400
54.0	47.6	58.1	2 900
56.0	45.5	56.2	2 300