



Liftcrane Boom Capacities

2250 SERIES 1

**Boom No. 44 With Long Reach Top
76 750 kg Counterweight
360 Degree Rating**

<p>Maximum Operating Wind Speeds 14 m/s thru 64.0m Boom 10 m/s from 67.1m thru 100.6m Boom</p>

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 (*).

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.

Weight of all load blocks, hooks, weight ball, slings, etc. beneath boom point sheaves is considered part of main boom load. Reeved hoist line included in boom weight. 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. 192054**, Wire Rope Specification chart **No. 8034-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, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

WIND CONDITIONS: Machine may be operated in winds stated in Maximum Operating 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 with a large "sail area" and must be compensated for accordingly by reducing load ratings, reducing operating speeds or by a combination of both. Wind speed to be measured at boom point elevation. **Operation is not permitted when wind is above conditions stated in Maximum Operating Wind Speed table.** Park crane (upper inline with crawlers) with load block on ground or secured and position boom at 70 degrees. Lower boom onto blocking at ground level when wind is above 22 m/s.

MACHINE TRAVEL: Machine to travel on a firm, level, and uniformly supporting surface and boom within boom angle range shown in capacity chart. *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. Refer to Maximum Allowable Travel Specification chart **No. 8999-A**.

MAX PERMISSIBLE SLEWING SPEED: Slewing operation with working load shall not exceed 0.4 m/s as measured at the operating radius. The amount of time to brake or start slewing a working load shall not be less than 2.5 seconds.

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 is vertical distance from ground level to centerline of boom point shaft.

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 76 750 kg counterweight.

<p>Boom Catwalks Deduct</p>
<p>Deduct 300 kg from capacities when boom catwalks are attached.</p>



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Maximum Operating Wind Speeds
14 m/s thru 64.0m Boom
10 m/s from 67.1m thru 100.6m Boom

Maximum Boom Length Lifted Unassisted		
Over Front of Blocked Crawlers	Over Rear of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length	Boom Length
(a)(b)(c)100.6m	(a)(b) 94.5m	(a)(b) 88.4m
(a)(b) 97.5m	(a) 91.4m	(a) 85.3m
(a)(b) 94.5m	88.4m	82.3m
91.4m		

Load block, hook and weight ball on ground at start.
(a) Upper boom point must be removed and machine must be equipped with optional upperworks jacking cylinders.
(b) Raising reserve is less than 10% tip weight.
(c) When equipped with boom catwalks, length cannot be raised.

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.7	59.8	95 200 *
10.0	82.4	59.8	94 100
11.0	81.4	59.6	86 900
12.0	80.4	59.5	79 200
13.0	79.4	59.3	72 700
14.0	78.4	59.1	67 000
15.0	77.4	58.9	62 100
16.0	76.4	58.6	57 700
18.0	74.3	58.1	50 400
20.0	72.3	57.5	44 500
22.0	70.2	56.8	39 700
24.0	68.0	56.0	35 400
26.0	65.9	55.1	31 400
28.0	63.7	54.2	28 000
30.0	61.5	53.1	25 200
32.0	59.2	52.0	22 700
34.0	56.8	50.7	20 600
36.0	54.4	49.3	18 700
38.0	51.9	47.8	17 100
40.0	49.4	46.1	15 600
42.0	46.7	44.3	14 300
44.0	43.9	42.3	13 200
46.0	40.9	40.1	12 100
48.0	37.8	37.6	11 200
50.0	34.4	34.8	10 400
52.0	30.7	31.6	9 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61.0m (200 Ft.) BOOM			
9.8	83.0	62.9	95 200 *
10.0	82.8	62.9	93 200
11.0	81.9	62.7	84 700
12.0	80.9	62.6	77 300
13.0	80.0	62.4	71 000
14.0	79.0	62.2	65 500
15.0	78.0	62.0	60 700
16.0	77.1	61.8	56 400
18.0	75.1	61.3	49 200
20.0	73.2	60.7	43 500
22.0	71.2	60.0	38 700
24.0	69.2	59.3	34 700
26.0	67.2	58.5	31 000
28.0	65.1	57.6	27 600
30.0	63.0	56.6	24 800
32.0	60.9	55.5	22 300
34.0	58.7	54.3	20 200
36.0	56.4	53.0	18 300
38.0	54.2	51.6	16 600
40.0	51.8	50.1	15 200
42.0	49.3	48.4	13 900
44.0	46.8	46.6	12 700
46.0	44.1	44.6	11 600
48.0	41.4	42.4	10 700
50.0	38.4	40.0	9 900
52.0	35.2	37.3	9 100
54.0	31.8	34.2	8 400
56.0	28.0	30.7	7 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
64.0m (210 Ft.) BOOM			
10.4	82.8	65.9	88 000
11.0	82.3	65.8	82 800
12.0	81.3	65.7	75 600
13.0	80.4	65.5	69 500
14.0	79.5	65.3	64 100
15.0	78.6	65.1	59 400
16.0	77.7	64.9	55 300
18.0	75.9	64.4	48 300
20.0	74.0	63.9	42 700
22.0	72.1	63.2	38 000
24.0	70.2	62.5	34 100
26.0	68.3	61.8	30 700
28.0	66.4	60.9	27 400
30.0	64.4	60.0	24 500
32.0	62.4	59.0	22 000
34.0	60.3	57.9	19 900
36.0	58.2	56.7	18 000
38.0	56.1	55.4	16 400
40.0	53.9	53.9	14 900
42.0	51.7	52.4	13 600
44.0	49.3	50.7	12 400
46.0	46.9	48.9	11 400
48.0	44.4	46.9	10 400
50.0	41.7	44.8	9 600
52.0	39.0	42.4	8 800
54.0	36.0	39.7	8 100
56.0	32.8	36.8	7 500
58.0	29.3	33.4	6 900



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14 m/s thru 64.0m Boom
10 m/s from 67.1m thru 100.6m Boom

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
67.1m (220 Ft.) BOOM			
11.0	82.6	68.9	81 000
12.0	81.7	68.7	73 800
13.0	80.9	68.6	67 900
14.0	80.0	68.4	62 600
15.0	79.1	68.2	58 100
16.0	78.3	68.0	54 000
18.0	76.5	67.6	47 200
20.0	74.7	67.0	41 700
22.0	73.0	66.4	37 100
24.0	71.2	65.8	33 200
26.0	69.3	65.0	29 900
28.0	67.5	64.2	27 000
30.0	65.6	63.4	24 100
32.0	63.7	62.4	21 600
34.0	61.8	61.4	19 500
36.0	59.9	60.2	17 600
38.0	57.8	59.0	15 900
40.0	55.8	57.7	14 500
42.0	53.7	56.2	13 200
44.0	51.5	54.7	12 000
46.0	49.3	53.0	11 000
48.0	47.0	51.2	10 000
50.0	44.6	49.2	9 100
52.0	42.1	47.1	8 300
54.0	39.5	44.8	7 600
56.0	36.7	42.2	7 000
58.0	33.7	39.3	6 400
60.0	30.4	36.1	5 800
62.0	26.8	32.3	5 400
70.1m (230 Ft.) BOOM			
11.0	83.0	72.0	79 000
12.0	82.1	71.8	72 100
13.0	81.3	71.7	66 300
14.0	80.5	71.5	61 200
15.0	79.6	71.3	56 800
16.0	78.8	71.1	52 800
18.0	77.1	70.7	46 200
20.0	75.4	70.2	40 700
22.0	73.7	69.6	36 200
24.0	72.0	69.0	32 400
26.0	70.3	68.3	29 100
28.0	68.5	67.5	26 300
30.0	66.8	66.7	23 700
32.0	65.0	65.8	21 200
34.0	63.1	64.8	19 100
36.0	61.3	63.7	17 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
70.1m (230 Ft.) BOOM			
38.0	59.4	62.6	15 500
40.0	57.5	61.3	14 100
42.0	55.5	60.0	12 800
44.0	53.5	58.6	11 600
46.0	51.4	57.0	10 500
48.0	49.3	55.3	9 600
50.0	47.1	53.5	8 700
52.0	44.8	51.6	7 900
54.0	42.4	49.4	7 200
56.0	39.9	47.1	6 500
58.0	37.3	44.6	6 000
60.0	34.5	41.8	5 400
62.0	31.4	38.7	4 900
64.0	28.1	35.1	4 400
73.2m (240 Ft.) BOOM			
11.6	82.8	75.0	73 000
12.0	82.4	74.9	70 400
13.0	81.6	74.8	64 800
14.0	80.9	74.6	59 800
15.0	80.1	74.4	55 500
16.0	79.3	74.2	51 600
18.0	77.7	73.8	45 000
20.0	76.0	73.3	39 700
22.0	74.4	72.8	35 300
24.0	72.8	72.2	31 500
26.0	71.1	71.5	28 300
28.0	69.5	70.8	25 600
30.0	67.8	70.0	23 100
32.0	66.1	69.1	20 800
34.0	64.4	68.2	18 700
36.0	62.6	67.2	16 800
38.0	60.8	66.1	15 100
40.0	59.0	64.9	13 700
42.0	57.1	63.7	12 300
44.0	55.3	62.3	11 100
46.0	53.3	60.9	10 100
48.0	51.3	59.3	9 100
50.0	49.3	57.6	8 200
52.0	47.2	55.8	7 500
54.0	45.0	53.9	6 700
56.0	42.7	51.8	6 100
58.0	40.3	49.5	5 500
60.0	37.8	47.0	4 900
62.0	35.2	44.3	4 400
64.0	32.3	41.2	3 900
66.0	29.2	37.8	3 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
76.2m (250 Ft.) BOOM			
12.2	82.6	78.0	68 000
13.0	82.0	77.8	63 600
14.0	81.2	77.7	58 800
15.0	80.5	77.5	54 600
16.0	79.7	77.3	50 800
18.0	78.2	76.9	44 400
20.0	76.6	76.5	39 200
22.0	75.1	76.0	34 800
24.0	73.5	75.4	31 100
26.0	71.9	74.8	28 000
28.0	70.3	74.1	25 200
30.0	68.7	73.3	22 900
32.0	67.1	72.5	20 800
34.0	65.4	71.6	18 700
36.0	63.8	70.6	16 800
38.0	62.1	69.6	15 100
40.0	60.4	68.5	13 700
42.0	58.6	67.3	12 300
44.0	56.8	66.0	11 100
46.0	55.0	64.6	10 100
48.0	53.1	63.2	9 100
50.0	51.2	61.6	8 200
52.0	49.3	59.9	7 400
54.0	47.2	58.1	6 600
56.0	45.2	56.2	6 000
58.0	43.0	54.1	5 400
60.0	40.7	51.8	4 800
62.0	38.3	49.4	4 300
64.0	35.8	46.7	3 800
66.0	33.1	43.8	3 300
68.0	30.3	40.5	3 000
70.0	27.1	36.8	2 600



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10 m/s from 67.1m thru 100.6m Boom

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
79.2m (260 Ft.) BOOM			
12.2	82.9	81.0	66 400
13.0	82.3	80.9	62 100
14.0	81.6	80.8	57 500
15.0	80.8	80.6	53 300
16.0	80.1	80.4	49 700
18.0	78.6	80.1	43 400
20.0	77.1	79.6	38 200
22.0	75.7	79.1	33 900
24.0	74.2	78.6	30 300
26.0	72.6	78.0	27 200
28.0	71.1	77.3	24 500
30.0	69.6	76.6	22 200
32.0	68.0	75.8	20 000
34.0	66.5	74.9	18 200
36.0	64.9	74.0	16 400
38.0	63.3	73.0	14 700
40.0	61.6	72.0	13 200
42.0	60.0	70.8	11 900
44.0	58.3	69.6	10 700
46.0	56.5	68.3	9 600
48.0	54.8	67.0	8 700
50.0	53.0	65.5	7 800
52.0	51.1	63.9	7 000
54.0	49.3	62.2	6 200
56.0	47.3	60.4	5 600
58.0	45.3	58.5	4 900
60.0	43.2	56.4	4 300
62.0	41.1	54.2	3 800
64.0	38.8	51.8	3 400
66.0	36.4	49.2	2 900
68.0	33.9	46.3	2 500
70.0	31.2	43.1	2 100
82.3m (270 Ft.) BOOM			
12.8	82.7	84.0	61 700
13.0	82.6	84.0	60 700
14.0	81.9	83.9	56 100
15.0	81.2	83.7	52 100
16.0	80.5	83.5	48 500
18.0	79.1	83.2	42 400
20.0	77.6	82.7	37 300
22.0	76.2	82.3	33 100
24.0	74.8	81.7	29 600
26.0	73.3	81.2	26 500
28.0	71.8	80.5	23 800
30.0	70.4	79.8	21 500
32.0	68.9	79.1	19 400
34.0	67.4	78.3	17 600
36.0	65.9	77.4	15 900
38.0	64.3	76.4	14 300
40.0	62.8	75.4	12 800
42.0	61.2	74.4	11 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
82.3m (270 Ft.) BOOM			
44.0	59.6	73.2	10 300
46.0	57.9	72.0	9 200
48.0	56.3	70.7	8 200
50.0	54.6	69.3	7 400
52.0	52.8	67.8	6 500
54.0	51.1	66.2	5 800
56.0	49.2	64.5	5 100
58.0	47.4	62.7	4 500
60.0	45.4	60.8	3 900
62.0	43.4	58.7	3 400
64.0	41.4	56.5	2 900
66.0	39.2	54.2	2 400
68.0	36.9	51.6	2 000
85.3m (280 Ft.) BOOM			
12.8	83.0	87.1	60 500
13.0	82.8	87.1	59 600
14.0	82.2	86.9	55 100
15.0	81.5	86.8	51 200
16.0	80.8	86.6	47 700
18.0	79.4	86.3	41 700
20.0	78.1	85.9	36 700
22.0	76.7	85.4	32 600
24.0	75.3	84.9	29 000
26.0	73.9	84.3	26 000
28.0	72.5	83.7	23 400
30.0	71.1	83.1	21 100
32.0	69.7	82.3	19 100
34.0	68.2	81.6	17 200
36.0	66.8	80.7	15 600
38.0	65.3	79.8	14 100
40.0	63.8	78.8	12 800
42.0	62.3	77.8	11 400
44.0	60.8	76.7	10 200
46.0	59.2	75.6	9 100
48.0	57.6	74.3	8 100
50.0	56.0	73.0	7 200
52.0	54.4	71.6	6 400
54.0	52.7	70.1	5 700
56.0	51.0	68.5	5 000
58.0	49.2	66.8	4 300
60.0	47.4	65.0	3 700
62.0	45.6	63.1	3 200
64.0	43.7	61.1	2 700
66.0	41.7	58.9	2 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
88.4m (290 Ft.) BOOM			
13.4	82.8	90.1	56 400
14.0	82.4	90.0	54 000
15.0	81.8	89.9	50 100
16.0	81.1	89.7	46 700
18.0	79.8	89.4	40 800
20.0	78.5	89.0	36 000
22.0	77.2	88.5	31 900
24.0	75.8	88.0	28 400
26.0	74.5	87.5	25 400
28.0	73.1	86.9	22 800
30.0	71.8	86.3	20 500
32.0	70.4	85.6	18 600
34.0	69.0	84.8	16 700
36.0	67.6	84.0	15 100
38.0	66.2	83.2	13 700
40.0	64.8	82.2	12 400
42.0	63.3	81.3	11 100
44.0	61.9	80.2	9 900
46.0	60.4	79.1	8 800
48.0	58.9	77.9	7 800
50.0	57.4	76.7	7 000
52.0	55.8	75.3	6 100
54.0	54.2	73.9	5 400
56.0	52.6	72.4	4 700
58.0	50.9	70.8	4 100
60.0	49.2	69.1	3 500
62.0	47.5	67.3	2 900
64.0	45.7	65.4	2 400



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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
91.4m (300 Ft.) BOOM			
14.0	82.7	93.1	53 200
15.0	82.1	92.9	49 500
16.0	81.4	92.8	46 100
18.0	80.2	92.5	40 300
20.0	78.9	92.1	35 600
22.0	77.6	91.7	31 600
24.0	76.3	91.2	28 100
26.0	75.0	90.7	25 200
28.0	73.7	90.1	22 600
30.0	72.4	89.5	20 400
32.0	71.1	88.8	18 400
34.0	69.7	88.1	16 600
36.0	68.4	87.3	15 000
38.0	67.0	86.5	13 500
40.0	65.7	85.6	12 200
42.0	64.3	84.7	11 000
44.0	62.9	83.7	9 900
46.0	61.5	82.6	8 900
48.0	60.0	81.5	7 900
50.0	58.6	80.3	7 000
52.0	57.1	79.0	6 100
54.0	55.6	77.6	5 400
56.0	54.0	76.2	4 700
58.0	52.5	74.7	4 000
60.0	50.9	73.1	3 400
62.0	49.2	71.4	2 800
64.0	47.5	69.6	2 400
94.5m (310 Ft.) BOOM			
14.0	82.9	96.2	48 900 *
15.0	82.3	96.0	48 100
16.0	81.7	95.9	45 500
18.0	80.5	95.6	39 400
20.0	79.2	95.2	34 700
22.0	78.0	94.8	30 700
24.0	76.8	94.3	27 300
26.0	75.5	93.8	24 500
28.0	74.3	93.3	21 900
30.0	73.0	92.7	19 700
32.0	71.7	92.0	17 700
34.0	70.4	91.3	15 900
36.0	69.1	90.6	14 400
38.0	67.8	89.8	12 900
40.0	66.5	88.9	11 600
42.0	65.2	88.0	10 400
44.0	63.8	87.1	9 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
94.5m (310 Ft.) BOOM			
46.0	62.5	86.0	8 400
48.0	61.1	85.0	7 500
50.0	59.7	83.8	6 600
52.0	58.3	82.6	5 700
54.0	56.8	81.3	5 000
56.0	55.4	80.0	4 300
58.0	53.9	78.5	3 600
60.0	52.4	77.0	3 000
62.0	50.8	75.4	2 500
64.0	49.2	73.7	1 900
97.5m (320 Ft.) BOOM			
14.6	82.8	99.2	45 200 *
15.0	82.6	99.1	44 700 *
16.0	82.0	99.0	43 300
18.0	80.8	98.7	38 600
20.0	79.6	98.3	33 800
22.0	78.4	97.9	29 900
24.0	77.2	97.5	26 600
26.0	76.0	97.0	23 700
28.0	74.8	96.4	21 200
30.0	73.5	95.9	19 000
32.0	72.3	95.2	17 100
34.0	71.1	94.6	15 300
36.0	69.8	93.9	13 700
38.0	68.6	93.1	12 300
40.0	67.3	92.3	11 100
42.0	66.0	91.4	9 800
44.0	64.7	90.5	8 800
46.0	63.4	89.5	7 800
48.0	62.1	88.4	6 900
50.0	60.7	87.3	6 100
52.0	59.4	86.2	5 300
54.0	58.0	84.9	4 600
56.0	56.6	83.7	3 900
58.0	55.2	82.3	3 200
60.0	53.7	80.8	2 600
62.0	52.3	79.3	2 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
100.6m (330 Ft.) BOOM			
14.6	83.0	102.2	41 700 *
15.0	82.8	102.2	41 200 *
16.0	82.2	102.0	39 900 *
18.0	81.1	101.7	37 600 *
20.0	79.9	101.4	33 900
22.0	78.7	101.0	30 000
24.0	77.6	100.6	26 800
26.0	76.4	100.1	24 000
28.0	75.2	99.6	21 500
30.0	74.1	99.0	19 300
32.0	72.9	98.4	17 400
34.0	71.7	97.8	15 600
36.0	70.5	97.1	14 100
38.0	69.2	96.4	12 700
40.0	68.0	95.6	11 400
42.0	66.8	94.7	10 200
44.0	65.5	93.8	9 200
46.0	64.3	92.9	8 200
48.0	63.0	91.9	7 300
50.0	61.7	90.8	6 500
52.0	60.4	89.7	5 700
54.0	59.1	88.5	5 000
56.0	57.7	87.3	4 300
58.0	56.4	86.0	3 600
60.0	55.0	84.6	3 000
62.0	53.6	83.2	2 500
64.0	52.2	81.6	1 900