

Liftcrane Boom Extended Upper Point Capacities

2250 SERIES 3

**7.6m Extended Upper Boom Point With 4 267 mm Strut On
Boom No. 44 With Heavy Lift Top
113 040 kg Crane Counterweight
54 430 kg Carbody Counterweight
360 Degree Rating**

Meets
ANSI B30.5
Requirements

LIFTING CAPACITIES: Chart supplements Boom Capacity chart **No. 8012-AM**. 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 (*).

76.2m and 79.2m boom lengths require 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 extended upper boom point 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**, extended upper boom point assembly **No. 194251** 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. Wind conditions for boom with fixed jib apply to extended upper boom point.

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**. Travel tables for boom lengths including all jib lengths and offset angles apply to extended upper boom point.

Boom Catwalks Deduct

Deduct 250 kg from capacities when boom catwalks are attached.

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.

EXTENDED UPPER BOOM POINT ELEVATION: Extended upper boom point elevation is vertical distance from ground level to centerline of extended upper 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, 113 040 kg crane counterweight, two 13 610 kg and four 6 800 kg carbody counterweights.

Maximum capacity on 28.6 mm wire rope is 13 610 kg per line. Extended upper boom point wire rope whip line length of 450m required with 4 parts line and boom length of 79.2m which allows hook to touch ground. Maximum hook travel for extended upper boom point application may be restricted when whip line length exceeds 360m using 622 mm Dia. lagging on left rear drum or 390m on bare left rear drum. Refer to Wire Rope Specification chart **No. 8025-A**.

Maximum Boom Length Lifted Unassisted Over Front, Side or Rear of Crawlers

Boom Length	7.6m Extended Upper Boom Point
(a) 91.4m	—
88.4m	—
85.3m	—
82.3m	—
79.2m	7.6m
Load block, hook and weight ball on ground at start. (a) When equipped with boom catwalks, upper boom point cannot be used on 91.4m boom.	

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39.6m (130 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
13.7	80.1	48.3	45 300 *
14.0	79.7	48.2	45 300 *
16.0	77.2	47.7	44 400 *
18.0	74.6	47.0	41 500 *
20.0	72.0	46.2	39 200 *
22.0	69.4	45.3	37 200 *
24.0	66.7	44.4	35 500 *
26.0	63.9	43.2	33 900 *
28.0	61.1	42.0	32 500 *
30.0	58.1	40.6	31 300 *
32.0	55.1	39.1	30 100 *
34.0	51.9	37.3	29 100 *
36.0	48.5	35.4	28 300 *
38.0	44.9	33.2	27 500 *

45.7m (150 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
15.2	79.5	54.2	45 300 *
16.0	78.7	54.0	45 100 *
18.0	76.5	53.4	43 400 *
20.0	74.2	52.7	41 100 *
22.0	71.9	52.0	39 100 *
24.0	69.6	51.1	37 400 *
26.0	67.2	50.2	35 800 *
28.0	64.8	49.1	34 300 *
30.0	62.3	47.9	33 100 *
32.0	59.7	46.6	31 900 *
34.0	57.1	45.2	30 800 *
36.0	54.4	43.6	29 900 *
38.0	51.5	41.9	28 600 *
40.0	48.5	40.0	26 500 *
42.0	45.4	37.8	24 500 *
44.0	42.1	35.4	22 400 *

51.8m (170 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
15.2	80.6	60.5	45 300 *
16.0	79.9	60.3	45 300 *
18.0	77.9	59.8	44 700 *
20.0	75.9	59.2	42 700 *
22.0	73.8	58.5	40 800 *
24.0	71.8	57.7	39 000 *
26.0	69.7	56.9	37 400 *
28.0	67.6	56.0	36 000 *
30.0	65.4	54.9	34 700 *
32.0	63.2	53.8	33 500 *
34.0	61.0	52.6	32 400 *
36.0	58.6	51.3	30 700 *
38.0	56.3	49.8	28 200 *
40.0	53.8	48.2	26 100 *
42.0	51.3	46.5	24 300 *
44.0	48.6	44.6	22 600 *
48.0	42.9	40.2	19 000 *

42.7m (140 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
13.7	80.7	51.4	45 300 *
14.0	80.3	51.4	45 300 *
16.0	78.0	50.8	44 700 *
18.0	75.6	50.2	42 500 *
20.0	73.2	49.5	40 200 *
22.0	70.7	48.7	38 200 *
24.0	68.2	47.8	36 400 *
26.0	65.7	46.7	34 900 *
28.0	63.1	45.6	33 500 *
30.0	60.4	44.3	32 200 *
32.0	57.6	42.9	31 000 *
34.0	54.7	41.3	30 000 *
36.0	51.7	39.6	29 100 *
38.0	48.5	37.7	28 200 *
40.0	45.2	35.5	26 700 *
42.0	41.6	33.1	24 400 *

48.8m (160 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
15.2	80.1	57.3	45 300 *
16.0	79.3	57.1	45 300 *
18.0	77.2	56.6	44 200 *
20.0	75.1	56.0	41 900 *
22.0	72.9	55.2	40 000 *
24.0	70.7	54.4	38 200 *
26.0	68.5	53.5	36 600 *
28.0	66.3	52.6	35 200 *
30.0	63.9	51.5	33 900 *
32.0	61.6	50.3	32 700 *
34.0	59.2	49.0	31 600 *
36.0	56.7	47.5	30 400 *
38.0	54.1	45.9	28 300 *
40.0	51.4	44.2	26 200 *
42.0	48.6	42.3	24 300 *
44.0	45.6	40.2	22 500 *

54.9m (180 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
16.8	79.7	63.2	45 300 *
18.0	78.5	62.9	45 200 *
20.0	76.6	62.3	43 400 *
22.0	74.7	61.7	41 500 *
24.0	72.7	61.0	39 800 *
26.0	70.8	60.2	38 200 *
28.0	68.8	59.3	36 800 *
30.0	66.7	58.4	35 500 *
32.0	64.7	57.3	34 300 *
34.0	62.5	56.2	32 900 *
36.0	60.4	54.9	30 300 *
38.0	58.2	53.6	28 000 *
40.0	55.9	52.1	25 800 *
42.0	53.6	50.5	24 000 *
44.0	51.1	48.8	22 300 *
48.0	46.0	44.8	19 000 *

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57.9m (190 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
16.8	80.2	66.3	45 300 *
18.0	79.0	66.1	45 300 *
20.0	77.2	65.5	44 200 *
22.0	75.4	64.9	42 300 *
24.0	73.6	64.2	40 500 *
26.0	71.7	63.5	38 900 *
28.0	69.8	62.7	37 500 *
30.0	67.9	61.8	36 200 *
32.0	65.9	60.8	35 000 *
34.0	64.0	59.7	32 800
36.0	61.9	58.5	30 100
38.0	59.9	57.3	27 700
40.0	57.8	55.9	25 600
42.0	55.6	54.4	23 800
44.0	53.3	52.8	22 100
48.0	48.6	49.2	19 000
52.0	43.5	44.9	15 800 *

64.0m (210 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
16.8	81.0	72.6	45 300 *
18.0	80.0	72.3	45 300 *
20.0	78.4	71.8	45 100 *
22.0	76.7	71.3	43 600 *
24.0	75.0	70.7	41 900 *
26.0	73.3	70.0	40 300 *
28.0	71.6	69.2	38 900 *
30.0	69.9	68.4	37 600 *
32.0	68.2	67.5	35 300
34.0	66.4	66.6	32 300
36.0	64.6	65.5	29 700
38.0	62.7	64.4	27 300
40.0	60.9	63.2	25 200
42.0	59.0	61.9	23 400
44.0	57.0	60.5	21 700
48.0	53.0	57.4	18 700
52.0	48.7	53.8	15 800 *
56.0	44.0	49.6	13 000 *

70.1m (230 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
18.3	80.6	78.5	45 300 *
20.0	79.3	78.1	45 300 *
22.0	77.8	77.6	44 800 *
24.0	76.2	77.0	43 100 *
26.0	74.7	76.4	41 600 *
28.0	73.1	75.7	40 200 *
30.0	71.6	75.0	38 200
32.0	70.0	74.2	34 800
34.0	68.4	73.3	31 800
36.0	66.7	72.4	29 200
38.0	65.1	71.4	26 800
40.0	63.4	70.3	24 700
42.0	61.7	69.1	22 800
44.0	60.0	67.9	21 100
48.0	56.4	65.1	18 200
52.0	52.7	62.0	15 600 *
56.0	48.7	58.4	12 800 *
60.0	44.4	54.2	10 400 *

61.0m (200 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
16.8	80.6	69.5	45 300 *
18.0	79.5	69.2	45 300 *
20.0	77.8	68.7	44 900 *
22.0	76.1	68.1	42 900 *
24.0	74.3	67.5	41 200 *
26.0	72.6	66.7	39 700 *
28.0	70.8	66.0	38 200 *
30.0	68.9	65.1	36 900 *
32.0	67.1	64.2	35 500
34.0	65.2	63.2	32 400
36.0	63.3	62.1	29 800
38.0	61.4	60.9	27 500
40.0	59.4	59.6	25 300
42.0	57.4	58.2	23 500
44.0	55.3	56.7	21 800
48.0	50.9	53.4	18 800
52.0	46.3	49.4	15 700 *
56.0	41.1	44.8	12 900 *

67.1m (220 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
18.3	80.2	75.4	45 300 *
20.0	78.8	75.0	45 200 *
22.0	77.3	74.4	44 300 *
24.0	75.7	73.9	42 500 *
26.0	74.0	73.2	40 900 *
28.0	72.4	72.5	39 500 *
30.0	70.8	71.7	38 100
32.0	69.1	70.9	35 100
34.0	67.4	70.0	32 000
36.0	65.7	69.0	29 400
38.0	64.0	67.9	27 000
40.0	62.2	66.8	24 900
42.0	60.4	65.6	23 100
44.0	58.6	64.2	21 400
48.0	54.8	61.3	18 400
52.0	50.8	58.0	15 600 *
56.0	46.5	54.1	12 900 *
60.0	41.9	49.5	10 600 *

73.2m (240 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
18.3	80.9	81.6	45 300 *
20.0	79.7	81.2	45 300 *
22.0	78.2	80.7	45 000 *
24.0	76.8	80.2	43 700 *
26.0	75.3	79.6	42 100 *
28.0	73.8	79.0	40 700 *
30.0	72.3	78.2	38 300
32.0	70.8	77.5	34 600
34.0	69.2	76.6	31 500
36.0	67.7	75.8	28 900
38.0	66.1	74.8	26 500
40.0	64.5	73.8	24 400
42.0	62.9	72.7	22 500
44.0	61.3	71.5	20 800
48.0	57.9	68.9	17 900
52.0	54.3	65.9	15 400 *
56.0	50.6	62.6	12 600 *
60.0	46.7	58.7	10 300 *
64.0	42.5	54.3	8 200 *

Liftcrane Boom Extended Upper Point Capacities

2250 SERIES 3

7.6m Extended Upper Boom Point With 4 267 mm Strut On
Boom No. 44 With Heavy Lift Top
113 040 kg Crane Counterweight
54 430 kg Carbody Counterweight
360 Degree Rating

Meets ANSI B30.5 Requirements

76.2m (250 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
19.8	80.2	84.4	45 300 *
20.0	80.1	84.3	45 300 *
22.0	78.7	83.9	45 200 *
24.0	77.3	83.4	44 300 *
26.0	75.8	82.8	42 700 *
28.0	74.4	82.2	41 200 *
30.0	73.0	81.5	38 400
32.0	71.5	80.7	34 800
34.0	70.0	80.0	31 800
36.0	68.6	79.1	29 100
38.0	67.1	78.2	26 800
40.0	65.5	77.2	24 700
42.0	64.0	76.1	22 800
44.0	62.4	75.0	21 100
48.0	59.2	72.6	18 200
52.0	55.9	69.8	15 700
56.0	52.4	66.6	13 200 *
60.0	48.7	63.0	10 800 *
64.0	44.8	58.9	8 800 *

79.3m (260 Ft.) Boom

Ext. Upper Boom Pt. Oper. Rad. Meters	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Meters	Extended Upper Boom Point Capacity Kilograms
19.8	80.6	87.5	45 000 *
20.0	80.4	87.5	44 900 *
22.0	79.1	87.0	44 100 *
24.0	77.7	86.5	43 300 *
26.0	76.4	86.0	42 600 *
28.0	75.0	85.4	41 400 *
30.0	73.6	84.7	37 600 *
32.0	72.2	84.0	34 500 *
34.0	70.8	83.2	31 600
36.0	69.4	82.4	28 900
38.0	67.9	81.5	26 500
40.0	66.5	80.6	24 400
42.0	65.0	79.6	22 500
44.0	63.5	78.5	20 800
48.0	60.4	76.2	17 900
52.0	57.3	73.5	15 400
56.0	54.0	70.5	13 000 *
60.0	50.5	67.1	10 700 *
64.0	46.9	63.3	8 600 *
68.0	43.0	59.0	6 800 *