

Liftcrane Boom Extended Upper Point Capacities

2250 SERIES 1

7.6m Extended Upper Boom Point With 4 267 mm Strut On
Boom No. 44 With Heavy Lift Top
76 750 kg Counterweight
360 Degree Rating

Meets ANSI B30.5 Requirements

LIFTING CAPACITIES: Chart supplements Boom Capacity chart **No. 8004-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 (*).

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.

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 and 76 750 kg counterweight.

Maximum capacity on 28.6 mm wire rope is 13 610 kg per line. Extended upper boom point wire rope whip line length of 404m required with 4 parts line and boom length of 70.1m 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**.

Boom Catwalks Deduct
Deduct 250 kg from capacities when boom catwalks are attached.

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WITHOUT BOOM CAWALKS					
Maximum Boom Length Lifted Unassisted					
Over Front of Blocked Crawlers		Over Rear of Blocked Crawlers		Over Side of Crawlers	
Boom Length	7.6m Extended Upper Boom Point	Boom Length	7.6m Extended Upper Boom Point	Boom Length	7.6m Extended Upper Boom Point
(a) 91.4m	—	(a) 88.4m	—	79.2m	—
88.4m	—	85.3m	—	76.2m	—
85.3m	—	82.3m	—	73.2m	—
82.3m	—	79.2m	—	70.1m	7.6m
79.2m	—	76.2m	—		
76.2m	—	73.2m	—		
73.2m	—	70.1m	7.6m		
70.1m	7.6m				
Load block, hook and weight ball on ground at start. (a) Upper boom point and third line sheave assembly on boom top must be removed on 91.4m boom or over rear of blocked crawlers on 88.4m boom.					

WITH BOOM CATWALKS					
Maximum Boom Length Lifted Unassisted					
Over Front of Blocked Crawlers		Over Rear of Blocked Crawlers		Over Side of Crawlers	
Boom Length	7.6m Extended Upper Boom Point	Boom Length	7.6m Extended Upper Boom Point	Boom Length	7.6m Extended Upper Boom Point
(a)(b) 91.4m	—	(a)(b) 88.4m	—	79.2m	—
(b) 88.4m	—	(b) 85.3m	—	76.2m	—
85.3m	—	82.3m	—	73.2m	—
82.3m	—	79.2m	—	70.1m	7.6m
79.2m	—	76.2m	—		
76.2m	—	73.2m	—		
73.2m	—	70.1m	7.6m		
70.1m	7.6m				
Load block, hook and weight ball on ground at start. (a) Upper boom point and third line sheave assembly on boom top must be removed on 91.4m boom or over rear of blocked crawlers on 88.4m boom. 91.4m boom <i>must</i> be rigged with one hoist lead line. (b) Machine must be equipped with optional upperworks jacking cylinders.					

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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	35 300
26.0	63.9	43.2	31 800
28.0	61.1	42.0	28 500
30.0	58.1	40.6	25 700
32.0	55.1	39.1	23 300
34.0	51.9	37.3	21 200
36.0	48.5	35.4	19 300
38.0	44.9	33.2	17 700

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	39 000
24.0	69.6	51.1	35 500
26.0	67.2	50.2	31 400
28.0	64.8	49.1	28 100
30.0	62.3	47.9	25 200
32.0	59.7	46.6	22 800
34.0	57.1	45.2	20 700
36.0	54.4	43.6	18 900
38.0	51.5	41.9	17 200
40.0	48.5	40.0	15 700
42.0	45.4	37.8	14 400
44.0	42.1	35.4	13 200

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	40 000
24.0	71.8	57.7	35 000
26.0	69.7	56.9	31 000
28.0	67.6	56.0	27 700
30.0	65.4	54.9	24 900
32.0	63.2	53.8	22 500
34.0	61.0	52.6	20 300
36.0	58.6	51.3	18 500
38.0	56.3	49.8	16 900
40.0	53.8	48.2	15 400
42.0	51.3	46.5	14 100
44.0	48.6	44.6	12 900
48.0	42.9	40.2	10 800

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	35 500
26.0	65.7	46.7	31 600
28.0	63.1	45.6	28 300
30.0	60.4	44.3	25 400
32.0	57.6	42.9	23 000
34.0	54.7	41.3	20 900
36.0	51.7	39.6	19 100
38.0	48.5	37.7	17 400
40.0	45.2	35.5	16 000
42.0	41.6	33.1	14 600

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	39 500
24.0	70.7	54.4	35 200
26.0	68.5	53.5	31 100
28.0	66.3	52.6	27 800
30.0	63.9	51.5	25 000
32.0	61.6	50.3	22 500
34.0	59.2	49.0	20 400
36.0	56.7	47.5	18 600
38.0	54.1	45.9	16 900
40.0	51.4	44.2	15 500
42.0	48.6	42.3	14 100
44.0	45.6	40.2	13 000

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	39 800
24.0	72.7	61.0	34 700
26.0	70.8	60.2	30 800
28.0	68.8	59.3	27 500
30.0	66.7	58.4	24 600
32.0	64.7	57.3	22 200
34.0	62.5	56.2	20 100
36.0	60.4	54.9	18 200
38.0	58.2	53.6	16 600
40.0	55.9	52.1	15 100
42.0	53.6	50.5	13 800
44.0	51.1	48.8	12 600
48.0	46.0	44.8	10 500

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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	44 100
22.0	75.4	64.9	39 500
24.0	73.6	64.2	34 500
26.0	71.7	63.5	30 500
28.0	69.8	62.7	27 200
30.0	67.9	61.8	24 400
32.0	65.9	60.8	22 000
34.0	64.0	59.7	19 800
36.0	61.9	58.5	18 000
38.0	59.9	57.3	16 400
40.0	57.8	55.9	14 900
42.0	55.6	54.4	13 600
44.0	53.3	52.8	12 400
48.0	48.6	49.2	10 300
52.0	43.5	44.9	8 500

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	44 900
22.0	76.7	71.3	39 000
24.0	75.0	70.7	34 100
26.0	73.3	70.0	30 200
28.0	71.6	69.2	26 800
30.0	69.9	68.4	24 000
32.0	68.2	67.5	21 500
34.0	66.4	66.6	19 400
36.0	64.6	65.5	17 600
38.0	62.7	64.4	15 900
40.0	60.9	63.2	14 500
42.0	59.0	61.9	13 200
44.0	57.0	60.5	11 900
48.0	53.0	57.4	9 900
52.0	48.7	53.8	8 100
56.0	44.0	49.6	6 700

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	44 900
22.0	77.8	77.6	38 600
24.0	76.2	77.0	33 700
26.0	74.7	76.4	29 700
28.0	73.1	75.7	26 400
30.0	71.6	75.0	23 500
32.0	70.0	74.2	21 100
34.0	68.4	73.3	18 900
36.0	66.7	72.4	17 100
38.0	65.1	71.4	15 400
40.0	63.4	70.3	14 000
42.0	61.7	69.1	12 600
44.0	60.0	67.9	11 400
48.0	56.4	65.1	9 400
52.0	52.7	62.0	7 600
56.0	48.7	58.4	6 100
60.0	44.4	54.2	4 900

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	44 700
22.0	76.1	68.1	39 200
24.0	74.3	67.5	34 300
26.0	72.6	66.7	30 300
28.0	70.8	66.0	27 000
30.0	68.9	65.1	24 200
32.0	67.1	64.2	21 700
34.0	65.2	63.2	19 600
36.0	63.3	62.1	17 700
38.0	61.4	60.9	16 100
40.0	59.4	59.6	14 600
42.0	57.4	58.2	13 300
44.0	55.3	56.7	12 100
48.0	50.9	53.4	10 000
52.0	46.3	49.4	8 300
56.0	41.1	44.8	6 800

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	44 700
22.0	77.3	74.4	38 800
24.0	75.7	73.9	33 900
26.0	74.0	73.2	29 900
28.0	72.4	72.5	26 600
30.0	70.8	71.7	23 700
32.0	69.1	70.9	21 300
34.0	67.4	70.0	19 200
36.0	65.7	69.0	17 300
38.0	64.0	67.9	15 700
40.0	62.2	66.8	14 200
42.0	60.4	65.6	12 900
44.0	58.6	64.2	11 700
48.0	54.8	61.3	9 600
52.0	50.8	58.0	7 900
56.0	46.5	54.1	6 400
60.0	41.9	49.5	5 100