

Liftcrane Boom Capacities

111 SERIES B

Boom No. 111 With Open Throat Top
22 540 kg Crane Counterweight
3 630 kg Carbody Counterweight
5 893 mm Crawlers Extended
360 Degree Rating

Meets
ANSI B30.5
Requirements

LIFTING CAPACITIES: 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 9 070 kg. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of 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 with crawlers fully extended (4 902 mm) and gantry up. Refer to boom rigging **No. 911959** or **No. 912877** and Wire Rope Specification chart **No. 9144-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. 9142-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 5 893 mm extendible crawlers, 902 mm treads, 4 724 mm retractable gantry, 10 part boom hoist reeving, two 32 mm boom pendants, 1st crane counterweight = 12 930 kg, 2nd crane counterweight = 2 580 kg, 3rd crane counterweight = 7 030 kg and carbody counterweight = 3 630 kg.

Deduct From Capacities When Jib Is Attached

Jib Length	Jib No. 111
9.1m	730 kg
12.2m	910 kg
15.2m	1 130 kg
18.3m	1 360 kg

Maximum Boom and Jib Lengths Lifted Unassisted

Over End of Blocked Crawlers		Over Side of Extended Crawlers	
Boom Length	Jib No. 111	Boom Length	Jib No. 111
57.9m	—	57.9m	—
54.9m	15.2m	54.9m	—
51.8m	18.3m	51.8m	12.2m
		48.8m	18.3m
Load block, hook and weight ball on ground at start.			

Consult jib chart for jib capacities. Upper boom point cannot be used when jib is attached.

Liftcrane Boom Capacities

111 SERIES B

Boom No. 111 With Open Throat Top
22 540 kg Crane Counterweight
3 630 kg Carbody Counterweight
5 893 mm Crawlers Extended
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
12.2m (40 Ft.) BOOM			
3.0	81.4	13.7	72 500 *
3.5	79.2	13.6	67 400 *
4.0	76.8	13.5	68 000 *
4.5	74.3	13.4	64 800
5.0	71.9	13.2	53 900
5.5	69.4	13.0	45 900
6.0	66.8	12.8	39 900
7.0	61.5	12.3	31 600
8.0	56.0	11.7	26 100
9.0	50.0	10.9	22 200
10.0	43.4	9.9	19 300
11.0	35.8	8.6	17 000
12.0	26.4	6.9	15 100
15.2m (50 Ft.) BOOM			
3.4	81.9	16.8	68 000 *
3.5	81.4	16.7	68 000 *
4.0	79.5	16.7	68 000 *
4.5	77.5	16.5	64 400
5.0	75.6	16.4	53 900
5.5	73.6	16.3	45 900
6.0	71.7	16.1	39 900
7.0	67.6	15.7	31 600
8.0	63.5	15.2	26 100
9.0	59.1	14.7	22 200
10.0	54.6	14.0	19 200
11.0	49.8	13.2	16 900
12.0	44.6	12.2	15 100
14.0	32.2	9.6	12 400
18.3m (60 Ft.) BOOM			
4.0	81.4	19.8	68 000 *
4.5	79.7	19.7	64 400
5.0	78.1	19.6	53 900
5.5	76.4	19.4	45 800
6.0	74.8	19.3	39 900
7.0	71.5	19.0	31 500
8.0	68.2	18.6	26 000
9.0	64.7	18.1	22 100
10.0	61.2	17.6	19 100
11.0	57.5	17.0	16 900
12.0	53.7	16.3	15 000
14.0	45.3	14.5	12 300
16.0	35.5	12.1	10 300
18.0	22.1	8.4	8 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.3	81.8	22.8	67 700 *
4.5	81.1	22.8	63 700 *
5.0	79.8	22.7	53 900
5.5	78.4	22.6	45 800
6.0	77.0	22.4	39 900
7.0	74.3	22.2	31 500
8.0	71.4	21.9	26 000
9.0	68.6	21.5	22 000
10.0	65.6	21.0	19 100
11.0	62.6	20.5	16 800
12.0	59.5	20.0	15 000
14.0	53.0	18.6	12 200
16.0	45.9	16.9	10 200
18.0	37.7	14.6	8 800
20.0	27.5	11.4	7 700
24.4m (80 Ft.) BOOM			
4.9	81.4	25.8	55 600 *
5.0	81.1	25.8	53 600
5.5	79.9	25.7	45 800
6.0	78.7	25.6	39 800
7.0	76.3	25.3	31 400
8.0	73.8	25.1	25 900
9.0	71.4	24.7	21 900
10.0	68.9	24.4	19 000
11.0	66.3	23.9	16 700
12.0	63.7	23.5	14 900
14.0	58.3	22.3	12 100
16.0	52.5	20.9	10 100
18.0	46.3	19.2	8 700
20.0	39.3	17.0	7 600
22.0	31.0	14.1	6 600
24.0	19.8	9.7	5 900
27.4m (90 Ft.) BOOM			
5.2	81.7	28.8	50 600 *
5.5	81.0	28.8	45 700
6.0	80.0	28.7	39 800
7.0	77.8	28.5	31 400
8.0	75.7	28.2	25 900
9.0	73.5	27.9	21 900
10.0	71.3	27.6	18 900
11.0	69.1	27.2	16 700
12.0	66.8	26.8	14 800
14.0	62.2	25.9	12 000
16.0	57.3	24.7	10 100
18.0	52.1	23.2	8 600
20.0	46.6	21.5	7 500
22.0	40.5	19.3	6 600
24.0	33.4	16.6	5 800
26.0	24.7	12.9	5 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	81.9	31.9	45 800 *
6.0	81.0	31.8	39 700
7.0	79.1	31.6	31 300
8.0	77.1	31.4	25 800
9.0	75.2	31.1	21 800
10.0	73.2	30.8	18 800
11.0	71.3	30.5	16 600
12.0	69.3	30.1	14 700
14.0	65.2	29.3	12 000
16.0	60.9	28.2	10 000
18.0	56.5	27.0	8 600
20.0	51.8	25.5	7 400
22.0	46.8	23.8	6 500
24.0	41.4	21.7	5 700
26.0	35.3	19.1	5 100
28.0	28.0	15.8	4 600
30.0	18.2	11.0	4 200
33.5m (110 Ft.) BOOM			
6.1	81.6	34.8	38 600
7.0	80.1	34.7	31 200
8.0	78.3	34.5	25 700
9.0	76.6	34.3	21 700
10.0	74.8	34.0	18 700
11.0	73.0	33.7	16 500
12.0	71.2	33.4	14 600
14.0	67.6	32.6	11 900
16.0	63.8	31.7	9 900
18.0	59.9	30.6	8 500
20.0	55.8	29.3	7 300
22.0	51.6	27.8	6 400
24.0	47.0	26.1	5 700
26.0	42.1	24.0	5 000
28.0	36.7	21.5	4 500
30.0	30.4	18.5	4 000
32.0	22.7	14.4	3 700

Liftcrane Boom Capacities

Boom No. 111 With Open Throat Top
22 540 kg Crane Counterweight
3 630 kg Carbody Counterweight
5 893 mm Crawlers Extended
360 Degree Rating

Meets
ANSI B30.5
Requirements

111 SERIES B

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	81.4	37.8	33 300
7.0	80.9	37.8	31 300
8.0	79.3	37.6	25 700
9.0	77.7	37.4	21 600
10.0	76.1	37.2	18 700
11.0	74.5	36.9	16 500
12.0	72.8	36.6	14 600
14.0	69.5	35.9	11 800
16.0	66.1	35.1	9 800
18.0	62.6	34.1	8 400
20.0	59.0	32.9	7 300
22.0	55.3	31.6	6 300
24.0	51.4	30.1	5 600
26.0	47.2	28.4	5 000
28.0	42.7	26.4	4 400
30.0	37.9	24.0	4 000
32.0	32.4	21.1	3 600
34.0	25.8	17.4	3 200
36.0	17.1	12.2	2 900
39.6m (130 Ft.) BOOM			
7.3	81.1	40.8	29 100
8.0	80.1	40.7	25 600
9.0	78.7	40.5	21 600
10.0	77.2	40.3	18 600
11.0	75.7	40.0	16 400
12.0	74.2	39.8	14 500
14.0	71.2	39.1	11 700
16.0	68.1	38.4	9 700
18.0	64.9	37.5	8 300
20.0	61.7	36.5	7 200
22.0	58.3	35.3	6 200
24.0	54.8	34.0	5 500
26.0	51.2	32.4	4 900
28.0	47.3	30.7	4 300
30.0	43.3	28.7	3 900
32.0	38.8	26.4	3 500
34.0	33.9	23.6	3 100
36.0	28.2	20.2	2 800
38.0	21.2	15.8	2 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.3	81.8	43.9	29 000
8.0	80.9	43.8	25 500
9.0	79.5	43.6	21 500
10.0	78.1	43.4	18 500
11.0	76.7	43.2	16 300
12.0	75.4	42.9	14 400
14.0	72.6	42.3	11 600
16.0	69.7	41.7	9 600
18.0	66.8	40.8	8 200
20.0	63.8	39.9	7 100
22.0	60.8	38.8	6 100
24.0	57.7	37.6	5 400
26.0	54.4	36.3	4 800
28.0	51.0	34.7	4 300
30.0	47.5	33.0	3 800
32.0	43.7	31.0	3 400
34.0	39.6	28.7	3 100
36.0	35.2	26.1	2 800
38.0	30.1	22.9	2 500
40.0	24.2	19.0	2 200
42.0	16.3	13.4	2 000
45.7m (150 Ft.) BOOM			
7.9	81.6	46.9	24 900 *
8.0	81.5	46.9	24 700
9.0	80.2	46.7	21 500
10.0	78.9	46.5	18 400
11.0	77.6	46.3	16 200
12.0	76.4	46.1	14 300
14.0	73.8	45.5	11 500
16.0	71.1	44.9	9 600
18.0	68.4	44.1	8 100
20.0	65.7	43.3	7 000
22.0	62.9	42.3	6 100
24.0	60.1	41.2	5 300
26.0	57.1	40.0	4 700
28.0	54.1	38.6	4 200
30.0	50.9	37.0	3 700
32.0	47.6	35.3	3 300
34.0	44.1	33.3	3 000
36.0	40.3	31.1	2 700
38.0	36.2	28.5	2 400
40.0	31.7	25.5	2 200
42.0	26.5	21.9	1 900
44.0	20.1	17.2	1 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	81.4	49.9	21 200 *
9.0	80.8	49.8	20 900
10.0	79.6	49.6	18 400
11.0	78.4	49.4	16 100
12.0	77.2	49.2	14 200
14.0	74.8	48.7	11 400
16.0	72.3	48.1	9 500
18.0	69.9	47.4	8 000
20.0	67.3	46.6	6 900
22.0	64.7	45.7	6 000
24.0	62.1	44.7	5 300
26.0	59.4	43.6	4 600
28.0	56.6	42.3	4 100
30.0	53.8	40.9	3 600
32.0	50.8	39.3	3 200
34.0	47.7	37.6	2 900
36.0	44.4	35.6	2 600
38.0	40.9	33.4	2 300
40.0	37.1	30.9	2 000
42.0	33.0	28.1	1 800
44.0	28.4	24.7	1 600
46.0	22.9	20.4	1 500
51.8m (170 Ft.) BOOM			
8.5	81.9	53.0	18 500 *
9.0	81.4	52.9	18 300 *
10.0	80.2	52.7	17 900
11.0	79.1	52.6	16 000
12.0	78.0	52.3	14 100
14.0	75.7	51.9	11 400
16.0	73.4	51.3	9 400
18.0	71.1	50.7	7 900
20.0	68.7	49.9	6 800
22.0	66.3	49.1	5 900
24.0	63.9	48.1	5 100
26.0	61.4	47.1	4 500
28.0	58.8	45.9	4 000
30.0	56.2	44.6	3 500
32.0	53.5	43.2	3 100
34.0	50.7	41.6	2 800
36.0	47.7	39.9	2 500
38.0	44.7	38.0	2 200
40.0	41.4	35.8	1 900
42.0	37.9	33.4	1 700
44.0	34.1	30.6	1 600



Liftcrane Boom Capacities

111 SERIES B

Boom No. 111 With Open Throat Top
22 540 kg Crane Counterweight
3 630 kg Carbody Counterweight
5 893 mm Crawlers Extended
360 Degree Rating

Meets
 ANSI B30.5
 Requirements

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	81.7	56.0	15 800 *
10.0	80.8	55.8	15 600 *
11.0	79.7	55.7	15 200 *
12.0	78.7	55.5	14 100
14.0	76.5	55.0	11 300
16.0	74.4	54.5	9 300
18.0	72.2	53.9	7 900
20.0	70.0	53.2	6 700
22.0	67.7	52.4	5 800
24.0	65.4	51.5	5 100
26.0	63.1	50.5	4 400
28.0	60.7	49.5	3 900
30.0	58.3	48.3	3 400
32.0	55.8	47.0	3 000
34.0	53.2	45.5	2 700
36.0	50.6	43.9	2 400
38.0	47.8	42.2	2 100
40.0	44.9	40.3	1 900
42.0	41.9	38.1	1 600
44.0	38.6	35.7	1 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	81.5	59.0	13 600 *
10.0	81.3	58.9	13 500 *
11.0	80.3	58.8	13 100 *
12.0	79.3	58.6	12 800 *
14.0	77.2	58.1	11 300
16.0	75.2	57.6	9 200
18.0	73.1	57.1	7 800
20.0	71.1	56.4	6 700
22.0	69.0	55.7	5 700
24.0	66.8	54.8	5 000
26.0	64.6	53.9	4 300
28.0	62.4	52.9	3 800
30.0	60.2	51.8	3 300
32.0	57.8	50.6	2 900
34.0	55.5	49.3	2 600
36.0	53.0	47.8	2 300
38.0	50.5	46.2	2 000
40.0	47.9	44.5	1 800
42.0	45.1	42.6	1 500
44.0	42.3	40.5	1 400