

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
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

LIFTING CAPACITIES: Lifting capacities are for a crawler machine with crawlers extended when operating on a barge. Machine shall be positively secured to prevent shifting. 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 9 070 kg. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

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 on a firm uniformly supporting surface with crawlers fully extended (4 902 mm), gantry up and machine list not to exceed degrees noted. 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, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation at barge deck 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 barge deck 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.

Maximum Boom Lengths Lifted Unassisted		
List	Over End of Blocked Crawlers	Over Side of Extended Crawlers
	Boom Length	Boom Length
0 Degree	57.9m	57.9m
1 Degree	51.8m	51.8m
2 Degree	45.7m	45.7m
3 Degree	39.6m	39.6m
Load block, hook and weight ball on barge deck at start. Jib is not to be used on crawler machine while operating on a barge.		

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12.2m (40 Ft.) Boom							
3.0	81.4	13.7	72 500 *				3.0
3.5	79.2	13.6	67 400 *	63 300 *	51 900 *		3.5
4.0	76.8	13.5	68 000 *	61 500 *	49 200 *	39 700 *	4.0
4.5	74.3	13.4	64 800	54 400 *	43 500 *	37 800 *	4.5
5.0	71.9	13.2	53 900	48 900 *	39 000 *	33 900 *	5.0
5.5	69.4	13.0	45 900	43 200	35 400 *	30 700 *	5.5
6.0	66.8	12.8	39 900	37 900	32 300 *	28 000 *	6.0
7.0	61.5	12.3	31 600	30 400	27 500 *	23 800 *	7.0
8.0	56.0	11.7	26 100	25 300	23 900	20 700 *	8.0
9.0	50.0	10.9	22 200	21 700	20 900	18 300 *	9.0
10.0	43.4	9.9	19 300	18 900	18 300	16 300 *	10.0
11.0	35.8	8.6	17 000	16 700	16 300	14 700 *	11.0
12.0	26.4	6.9	15 100	15 000	14 600	13 300 *	12.0
15.2m (50 Ft.) Boom							
3.4	81.9	16.8	68 000 *				3.4
3.5	81.4	16.7	68 000 *				3.5
4.0	79.5	16.7	68 000 *	54 800 *	45 700 *		4.0
4.5	77.5	16.5	64 400	53 600 *	43 500 *	37 500 *	4.5
5.0	75.6	16.4	53 900	48 700	38 900 *	33 800 *	5.0
5.5	73.6	16.3	45 900	42 500	35 300 *	30 600 *	5.5
6.0	71.7	16.1	39 900	37 300	32 200 *	28 000 *	6.0
7.0	67.6	15.7	31 600	30 000	27 400 *	23 700 *	7.0
8.0	63.5	15.2	26 100	25 000	23 800	20 600 *	8.0
9.0	59.1	14.7	22 200	21 400	20 400	18 100 *	9.0
10.0	54.6	14.0	19 200	18 600	17 900	16 200 *	10.0
11.0	49.8	13.2	16 900	16 500	15 900	14 600 *	11.0
12.0	44.6	12.2	15 100	14 700	14 300	13 300 *	12.0
14.0	32.2	9.6	12 400	12 100	11 800	11 100 *	14.0

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Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
18.3m (60 Ft.) Boom							
4.0	81.4	19.8	68 000 *				4.0
4.5	79.7	19.7	64 400	48 100 *			4.5
5.0	78.1	19.6	53 900	46 800	38 600 *	33 000 *	5.0
5.5	76.4	19.4	45 800	41 800	35 200 *	30 500 *	5.5
6.0	74.8	19.3	39 900	36 800	32 100 *	27 800 *	6.0
7.0	71.5	19.0	31 500	29 600	27 300	23 600 *	7.0
8.0	68.2	18.6	26 000	24 700	23 200	20 500 *	8.0
9.0	64.7	18.1	22 100	21 100	20 000	18 000 *	9.0
10.0	61.2	17.6	19 100	18 400	17 500	16 100 *	10.0
11.0	57.5	17.0	16 900	16 300	15 600	14 500 *	11.0
12.0	53.7	16.3	15 000	14 500	14 000	13 100 *	12.0
14.0	45.3	14.5	12 300	11 900	11 500	11 000 *	14.0
16.0	35.5	12.1	10 300	10 000	9 800	9 400 *	16.0
18.0	22.1	8.4	8 800	8 600	8 500	8 200 *	18.0
21.3m (70 Ft.) Boom							
4.3	81.8	22.8	67 700 *				4.3
4.5	81.1	22.8	63 700 *				4.5
5.0	79.8	22.7	53 900	42 600 *			5.0
5.5	78.4	22.6	45 800	41 200	34 300 *	29 000 *	5.5
6.0	77.0	22.4	39 900	36 300	32 200 *	27 900 *	6.0
7.0	74.3	22.2	31 500	29 200	27 000	23 500 *	7.0
8.0	71.4	21.9	26 000	24 400	22 800	20 400 *	8.0
9.0	68.6	21.5	22 000	20 900	19 600	18 000 *	9.0
10.0	65.6	21.0	19 100	18 200	17 200	16 000 *	10.0
11.0	62.6	20.5	16 800	16 100	15 300	14 400 *	11.0
12.0	59.5	20.0	15 000	14 400	13 700	13 100 *	12.0
14.0	53.0	18.6	12 200	11 800	11 400	10 900	14.0
16.0	45.9	16.9	10 200	9 900	9 600	9 300	16.0
18.0	37.7	14.6	8 800	8 500	8 300	8 000	18.0
20.0	27.5	11.4	7 700	7 400	7 300	7 100	20.0

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Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
24.4m (80 Ft.) Boom							
4.9	81.4	25.8	55 600 *				4.9
5.0	81.1	25.8	53 600				5.0
5.5	79.9	25.7	45 800	37 800 *	30 700 *		5.5
6.0	78.7	25.6	39 800	36 000	30 300 *		6.0
7.0	76.3	25.3	31 400	28 900	26 500	23 600 *	7.0
8.0	73.8	25.1	25 900	24 100	22 300	20 300 *	8.0
9.0	71.4	24.7	21 900	20 600	19 200	17 800 *	9.0
10.0	68.9	24.4	19 000	18 000	16 900	15 900	10.0
11.0	66.3	23.9	16 700	15 900	15 000	14 200	11.0
12.0	63.7	23.5	14 900	14 200	13 500	12 800	12.0
14.0	58.3	22.3	12 100	11 600	11 100	10 600	14.0
16.0	52.5	20.9	10 100	9 800	9 400	9 000	16.0
18.0	46.3	19.2	8 700	8 400	8 100	7 800	18.0
20.0	39.3	17.0	7 600	7 200	7 000	6 800	20.0
22.0	31.0	14.1	6 600	6 400	6 200	6 100	22.0
24.0	19.8	9.7	5 900	5 600	5 500	5 400	24.0
27.4m (90 Ft.) Boom							
5.2	81.7	28.8	50 600 *				5.2
5.5	81.0	28.8	45 700	34 400 *			5.5
6.0	80.0	28.7	39 800	33 800 *			6.0
7.0	77.8	28.5	31 400	28 600	25 900	22 400 *	7.0
8.0	75.7	28.2	25 900	23 900	21 800	20 100	8.0
9.0	73.5	27.9	21 900	20 400	18 900	17 500	9.0
10.0	71.3	27.6	18 900	17 800	16 600	15 500	10.0
11.0	69.1	27.2	16 700	15 700	14 700	13 900	11.0
12.0	66.8	26.8	14 800	14 100	13 300	12 500	12.0
14.0	62.2	25.9	12 000	11 500	11 000	10 400	14.0
16.0	57.3	24.7	10 100	9 700	9 200	8 800	16.0
18.0	52.1	23.2	8 600	8 300	8 000	7 600	18.0
20.0	46.6	21.5	7 500	7 200	6 900	6 700	20.0
22.0	40.5	19.3	6 600	6 300	6 100	5 900	22.0
24.0	33.4	16.6	5 800	5 600	5 400	5 200	24.0
26.0	24.7	12.9	5 200	5 000	4 800	4 700	26.0

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Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
30.5m (100 Ft.) Boom							
5.5	81.9	31.9	45 800 *				5.5
6.0	81.0	31.8	39 700				6.0
7.0	79.1	31.6	31 300	28 500	24 100		7.0
8.0	77.1	31.4	25 800	23 600	21 400	19 600	8.0
9.0	75.2	31.1	21 800	20 200	18 500	17 100	9.0
10.0	73.2	30.8	18 800	17 600	16 300	15 100	10.0
11.0	71.3	30.5	16 600	15 500	14 500	13 500	11.0
12.0	69.3	30.1	14 700	13 900	13 000	12 200	12.0
14.0	65.2	29.3	12 000	11 400	10 700	10 200	14.0
16.0	60.9	28.2	10 000	9 500	9 100	8 600	16.0
18.0	56.5	27.0	8 600	8 200	7 800	7 500	18.0
20.0	51.8	25.5	7 400	7 100	6 800	6 500	20.0
22.0	46.8	23.8	6 500	6 200	5 900	5 700	22.0
24.0	41.4	21.7	5 700	5 500	5 300	5 100	24.0
26.0	35.3	19.1	5 100	4 800	4 700	4 600	26.0
28.0	28.0	15.8	4 600	4 400	4 200	4 100	28.0
30.0	18.2	11.0	4 200	3 900	3 800	3 700	30.0
33.5m (110 Ft.) Boom							
6.1	81.6	34.8	38 600				6.1
7.0	80.1	34.7	31 200	26 900			7.0
8.0	78.3	34.5	25 700	23 300	21 000	18 000	8.0
9.0	76.6	34.3	21 700	19 900	18 200	16 700	9.0
10.0	74.8	34.0	18 700	17 400	16 000	14 700	10.0
11.0	73.0	33.7	16 500	15 400	14 200	13 200	11.0
12.0	71.2	33.4	14 600	13 700	12 800	11 900	12.0
14.0	67.6	32.6	11 900	11 200	10 500	9 900	14.0
16.0	63.8	31.7	9 900	9 400	8 900	8 400	16.0
18.0	59.9	30.6	8 500	8 000	7 600	7 200	18.0
20.0	55.8	29.3	7 300	6 900	6 600	6 300	20.0
22.0	51.6	27.8	6 400	6 000	5 800	5 500	22.0
24.0	47.0	26.1	5 700	5 300	5 100	4 900	24.0
26.0	42.1	24.0	5 000	4 700	4 600	4 400	26.0
28.0	36.7	21.5	4 500	4 200	4 000	3 900	28.0
30.0	30.4	18.5	4 000	3 800	3 600	3 500	30.0
32.0	22.7	14.4	3 700	3 400	3 300	3 200	32.0

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Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
36.6m (120 Ft.) Boom							
6.7	81.4	37.8	33 300				6.7
7.0	80.9	37.8	31 300				7.0
8.0	79.3	37.6	25 700	23 100	19 600		8.0
9.0	77.7	37.4	21 600	19 700	17 900	16 000	9.0
10.0	76.1	37.2	18 700	17 200	15 700	14 400	10.0
11.0	74.5	36.9	16 500	15 200	14 000	12 900	11.0
12.0	72.8	36.6	14 600	13 600	12 500	11 600	12.0
14.0	69.5	35.9	11 800	11 100	10 300	9 700	14.0
16.0	66.1	35.1	9 800	9 300	8 700	8 200	16.0
18.0	62.6	34.1	8 400	7 900	7 500	7 100	18.0
20.0	59.0	32.9	7 300	6 800	6 500	6 100	20.0
22.0	55.3	31.6	6 300	5 900	5 600	5 400	22.0
24.0	51.4	30.1	5 600	5 200	5 000	4 800	24.0
26.0	47.2	28.4	5 000	4 600	4 400	4 200	26.0
28.0	42.7	26.4	4 400	4 100	4 000	3 800	28.0
30.0	37.9	24.0	4 000	3 700	3 500	3 400	30.0
32.0	32.4	21.1	3 600	3 300	3 200	3 100	32.0
34.0	25.8	17.4	3 200	3 000	2 900	2 800	34.0
36.0	17.1	12.2	2 900	2 600	2 600	2 500	36.0
39.6m (130 Ft.) Boom							
7.3	81.1	40.8	29 100				7.3
8.0	80.1	40.7	25 600	22 300			8.0
9.0	78.7	40.5	21 600	19 500	16 900 *		9.0
10.0	77.2	40.3	18 600	17 000	15 400	13 400 *	10.0
11.0	75.7	40.0	16 400	15 000	13 700	12 600	11.0
12.0	74.2	39.8	14 500	13 400	12 300	11 400	12.0
14.0	71.2	39.1	11 700	10 900	10 200	9 400	14.0
16.0	68.1	38.4	9 700	9 100	8 500	8 000	16.0
18.0	64.9	37.5	8 300	7 700	7 300	6 900	18.0
20.0	61.7	36.5	7 200	6 700	6 300	6 000	20.0
22.0	58.3	35.3	6 200	5 800	5 500	5 200	22.0
24.0	54.8	34.0	5 500	5 100	4 900	4 600	24.0
26.0	51.2	32.4	4 900	4 500	4 300	4 100	26.0
28.0	47.3	30.7	4 300	4 000	3 800	3 600	28.0
30.0	43.3	28.7	3 900	3 500	3 400	3 300	30.0
32.0	38.8	26.4	3 500	3 200	3 000	2 900	32.0
34.0	33.9	23.6	3 100	2 800	2 700	2 600	34.0
36.0	28.2	20.2	2 800	2 500	2 400	2 400	36.0
38.0	21.2	15.8	2 600	2 300	2 200	2 100	38.0

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Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	Oper. Radius Meters
42.7m (140 Ft.) Boom						
7.3	81.8	43.9	29 000			7.3
8.0	80.9	43.8	25 500	19 000 *		8.0
9.0	79.5	43.6	21 500	18 900 *		9.0
10.0	78.1	43.4	18 500	16 800	14 100 *	10.0
11.0	76.7	43.2	16 300	14 800	13 400	11.0
12.0	75.4	42.9	14 400	13 200	12 100	12.0
14.0	72.6	42.3	11 600	10 800	9 900	14.0
16.0	69.7	41.7	9 600	9 000	8 300	16.0
18.0	66.8	40.8	8 200	7 600	7 100	18.0
20.0	63.8	39.9	7 100	6 600	6 200	20.0
22.0	60.8	38.8	6 100	5 700	5 400	22.0
24.0	57.7	37.6	5 400	5 000	4 700	24.0
26.0	54.4	36.3	4 800	4 400	4 100	26.0
28.0	51.0	34.7	4 300	3 900	3 700	28.0
30.0	47.5	33.0	3 800	3 500	3 300	30.0
32.0	43.7	31.0	3 400	3 000	2 900	32.0
34.0	39.6	28.7	3 100	2 700	2 600	34.0
36.0	35.2	26.1	2 800	2 400	2 300	36.0
38.0	30.1	22.9	2 500	2 100	2 000	38.0
40.0	24.2	19.0	2 200	1 900	1 800	40.0
42.0	16.3	13.4	2 000	1 700	1 600	42.0
45.7m (150 Ft.) Boom						
7.9	81.6	46.9	24 900 *			7.9
8.0	81.5	46.9	24 700			8.0
9.0	80.2	46.7	21 500	16 100 *		9.0
10.0	78.9	46.5	18 400	15 900	11 900 *	10.0
11.0	77.6	46.3	16 200	14 600	11 800 *	11.0
12.0	76.4	46.1	14 300	13 100	11 700	12.0
14.0	73.8	45.5	11 500	10 600	9 800	14.0
16.0	71.1	44.9	9 600	8 900	8 200	16.0
18.0	68.4	44.1	8 100	7 500	7 000	18.0
20.0	65.7	43.3	7 000	6 400	6 000	20.0
22.0	62.9	42.3	6 100	5 600	5 200	22.0
24.0	60.1	41.2	5 300	4 900	4 600	24.0
26.0	57.1	40.0	4 700	4 300	4 100	26.0
28.0	54.1	38.6	4 200	3 800	3 500	28.0
30.0	50.9	37.0	3 700	3 300	3 200	30.0
32.0	47.6	35.3	3 300	2 900	2 800	32.0
34.0	44.1	33.3	3 000	2 600	2 500	34.0
36.0	40.3	31.1	2 700	2 300	2 200	36.0
38.0	36.2	28.5	2 400	2 000	2 000	38.0
40.0	31.7	25.5	2 200	1 800	1 700	40.0
42.0	26.5	21.9	1 900	1 600	1 500	42.0
44.0	20.1	17.2	1 700	1 400	1 300	44.0

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Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List 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	13 600 *
11.0	78.4	49.4	16 100	13 500 *
12.0	77.2	49.2	14 200	13 000
14.0	74.8	48.7	11 400	10 400
16.0	72.3	48.1	9 500	8 700
18.0	69.9	47.4	8 000	7 400
20.0	67.3	46.6	6 900	6 300
22.0	64.7	45.7	6 000	5 400
24.0	62.1	44.7	5 300	4 700
26.0	59.4	43.6	4 600	4 100
28.0	56.6	42.3	4 100	3 700
30.0	53.8	40.9	3 600	3 200
32.0	50.8	39.3	3 200	2 900
34.0	47.7	37.6	2 900	2 500
36.0	44.4	35.6	2 600	2 200
38.0	40.9	33.4	2 300	2 000
40.0	37.1	30.9	2 000	1 700
42.0	33.0	28.1	1 800	1 500
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	11 700 *
11.0	79.1	52.6	16 000	11 600 *
12.0	78.0	52.3	14 100	11 500 *
14.0	75.7	51.9	11 400	10 400
16.0	73.4	51.3	9 400	8 600
18.0	71.1	50.7	7 900	7 200
20.0	68.7	49.9	6 800	6 200
22.0	66.3	49.1	5 900	5 300
24.0	63.9	48.1	5 100	4 600
26.0	61.4	47.1	4 500	4 000
28.0	58.8	45.9	4 000	3 500
30.0	56.2	44.6	3 500	3 100
32.0	53.5	43.2	3 100	2 700
34.0	50.7	41.6	2 800	2 400
36.0	47.7	39.9	2 500	2 100
38.0	44.7	38.0	2 200	1 800
40.0	41.4	35.8	1 900	1 600
42.0	37.9	33.4	1 700	1 400
44.0	34.1	30.6	1 600	

Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List 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
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