

Liftcrane Boom Capacities

Boom No. 111 With Open Throat Top
19 960 kg 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 counterweight = 12 930 kg and 2nd counterweight = 7 030 kg counterweight.

Maximum Boom Lengths Lifted Unassisted		
List	Over End of Blocked Crawlers	Over Side of Extended Crawlers
	Boom Length	Boom Length
0 Degree	57.9m	54.9m
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	67 800	60 200 *	47 300 *	39 500 *	4.0
4.5	74.3	13.4	59 300	52 700	41 900 *	36 200 *	4.5
5.0	71.9	13.2	48 500	44 600	37 700 *	32 400 *	5.0
5.5	69.4	13.0	41 300	38 400	34 100 *	29 300 *	5.5
6.0	66.8	12.8	35 900	33 800	31 200 *	26 700 *	6.0
7.0	61.5	12.3	28 400	27 000	25 800	22 700 *	7.0
8.0	56.0	11.7	23 400	22 500	21 500	19 700 *	8.0
9.0	50.0	10.9	19 900	19 200	18 500	17 400 *	9.0
10.0	43.4	9.9	17 300	16 700	16 200	15 500 *	10.0
11.0	35.8	8.6	15 200	14 800	14 400	14 000	11.0
12.0	26.4	6.9	13 600	13 200	12 900	12 700	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	67 600	54 800 *	45 600 *		4.0
4.5	77.5	16.5	59 300	51 700	42 000 *	36 000 *	4.5
5.0	75.6	16.4	48 500	43 800	37 600 *	32 200 *	5.0
5.5	73.6	16.3	41 300	37 900	34 000 *	29 200 *	5.5
6.0	71.7	16.1	35 900	33 300	30 900	26 700 *	6.0
7.0	67.6	15.7	28 400	26 700	25 100	22 600 *	7.0
8.0	63.5	15.2	23 400	22 200	21 100	19 600 *	8.0
9.0	59.1	14.7	19 900	19 000	18 100	17 300	9.0
10.0	54.6	14.0	17 200	16 500	15 900	15 200	10.0
11.0	49.8	13.2	15 100	14 600	14 100	13 600	11.0
12.0	44.6	12.2	13 500	13 000	12 600	12 200	12.0
14.0	32.2	9.6	11 000	10 700	10 400	10 100	14.0

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18.3m (60 Ft.) Boom							
4.0	81.4	19.8	68 000 *				4.0
4.5	79.7	19.7	59 300	48 100 *			4.5
5.0	78.1	19.6	48 500	43 300	37 700 *	32 200 *	5.0
5.5	76.4	19.4	41 300	37 200	33 800	29 100 *	5.5
6.0	74.8	19.3	35 900	32 800	30 000	26 500 *	6.0
7.0	71.5	19.0	28 300	26 300	24 500	22 500 *	7.0
8.0	68.2	18.6	23 400	21 900	20 600	19 400	8.0
9.0	64.7	18.1	19 800	18 800	17 700	16 800	9.0
10.0	61.2	17.6	17 100	16 300	15 500	14 800	10.0
11.0	57.5	17.0	15 100	14 400	13 800	13 200	11.0
12.0	53.7	16.3	13 400	12 900	12 400	11 900	12.0
14.0	45.3	14.5	10 900	10 500	10 200	9 800	14.0
16.0	35.5	12.1	9 100	8 800	8 600	8 400	16.0
18.0	22.1	8.4	7 800	7 500	7 400	7 200	18.0
21.3m (70 Ft.) Boom							
4.3	81.8	22.8	64 900				4.3
4.5	81.1	22.8	58 800				4.5
5.0	79.8	22.7	48 500	41 900			5.0
5.5	78.4	22.6	41 200	36 700	32 900	29 000 *	5.5
6.0	77.0	22.4	35 800	32 300	29 300	26 400 *	6.0
7.0	74.3	22.2	28 300	26 000	23 900	22 100	7.0
8.0	71.4	21.9	23 300	21 700	20 200	18 800	8.0
9.0	68.6	21.5	19 700	18 500	17 400	16 300	9.0
10.0	65.6	21.0	17 100	16 100	15 200	14 400	10.0
11.0	62.6	20.5	15 000	14 200	13 500	12 800	11.0
12.0	59.5	20.0	13 400	12 700	12 100	11 600	12.0
14.0	53.0	18.6	10 900	10 400	10 000	9 600	14.0
16.0	45.9	16.9	9 100	8 700	8 400	8 100	16.0
18.0	37.7	14.6	7 800	7 500	7 200	7 000	18.0
20.0	27.5	11.4	6 800	6 400	6 300	6 100	20.0

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24.4m (80 Ft.) Boom							
4.9	81.4	25.8	50 600				4.9
5.0	81.1	25.8	48 600				5.0
5.5	79.9	25.7	41 200	36 100	30 700		5.5
6.0	78.7	25.6	35 800	31 800	28 600		6.0
7.0	76.3	25.3	28 200	25 600	23 400	21 400	7.0
8.0	73.8	25.1	23 300	21 400	19 800	18 300	8.0
9.0	71.4	24.7	19 600	18 300	17 000	15 900	9.0
10.0	68.9	24.4	17 000	15 900	14 900	14 000	10.0
11.0	66.3	23.9	15 000	14 100	13 200	12 500	11.0
12.0	63.7	23.5	13 300	12 500	11 900	11 200	12.0
14.0	58.3	22.3	10 800	10 200	9 800	9 300	14.0
16.0	52.5	20.9	9 000	8 500	8 200	7 900	16.0
18.0	46.3	19.2	7 700	7 300	7 000	6 800	18.0
20.0	39.3	17.0	6 700	6 300	6 100	5 900	20.0
22.0	31.0	14.1	5 800	5 500	5 300	5 200	22.0
24.0	19.8	9.7	5 200	4 900	4 800	4 600	24.0
27.4m (90 Ft.) Boom							
5.2	81.7	28.8	45 500				5.2
5.5	81.0	28.8	41 100	34 300			5.5
6.0	80.0	28.7	35 700	31 500			6.0
7.0	77.8	28.5	28 200	25 300	22 900	20 800	7.0
8.0	75.7	28.2	23 200	21 200	19 400	17 800	8.0
9.0	73.5	27.9	19 600	18 100	16 700	15 500	9.0
10.0	71.3	27.6	17 000	15 700	14 700	13 700	10.0
11.0	69.1	27.2	14 900	13 900	13 000	12 200	11.0
12.0	66.8	26.8	13 200	12 400	11 700	11 000	12.0
14.0	62.2	25.9	10 700	10 100	9 600	9 100	14.0
16.0	57.3	24.7	9 000	8 400	8 100	7 700	16.0
18.0	52.1	23.2	7 600	7 200	6 900	6 600	18.0
20.0	46.6	21.5	6 600	6 200	6 000	5 800	20.0
22.0	40.5	19.3	5 800	5 400	5 300	5 100	22.0
24.0	33.4	16.6	5 100	4 800	4 600	4 500	24.0
26.0	24.7	12.9	4 600	4 200	4 100	4 000	26.0

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30.5m (100 Ft.) Boom							
5.5	81.9	31.9	41 300				5.5
6.0	81.0	31.8	35 700				6.0
7.0	79.1	31.6	28 100	25 000	22 400		7.0
8.0	77.1	31.4	23 100	20 900	19 000	17 300	8.0
9.0	75.2	31.1	19 500	17 900	16 400	15 100	9.0
10.0	73.2	30.8	16 900	15 600	14 400	13 300	10.0
11.0	71.3	30.5	14 800	13 700	12 700	11 900	11.0
12.0	69.3	30.1	13 100	12 200	11 400	10 700	12.0
14.0	65.2	29.3	10 700	10 000	9 400	8 900	14.0
16.0	60.9	28.2	8 900	8 300	7 900	7 500	16.0
18.0	56.5	27.0	7 600	7 100	6 800	6 400	18.0
20.0	51.8	25.5	6 500	6 100	5 900	5 600	20.0
22.0	46.8	23.8	5 700	5 300	5 100	4 900	22.0
24.0	41.4	21.7	5 000	4 700	4 500	4 400	24.0
26.0	35.3	19.1	4 500	4 100	4 000	3 900	26.0
28.0	28.0	15.8	4 000	3 700	3 600	3 500	28.0
30.0	18.2	11.0	3 600	3 300	3 200	3 100	30.0
33.5m (110 Ft.) Boom							
6.1	81.6	34.8	34 700				6.1
7.0	80.1	34.7	28 000	24 800			7.0
8.0	78.3	34.5	23 000	20 600	18 600	16 800	8.0
9.0	76.6	34.3	19 400	17 600	16 000	14 700	9.0
10.0	74.8	34.0	16 800	15 400	14 100	13 000	10.0
11.0	73.0	33.7	14 700	13 600	12 500	11 600	11.0
12.0	71.2	33.4	13 100	12 100	11 200	10 400	12.0
14.0	67.6	32.6	10 600	9 800	9 200	8 700	14.0
16.0	63.8	31.7	8 800	8 200	7 700	7 300	16.0
18.0	59.9	30.6	7 500	6 900	6 600	6 300	18.0
20.0	55.8	29.3	6 400	6 000	5 700	5 400	20.0
22.0	51.6	27.8	5 600	5 200	4 900	4 700	22.0
24.0	47.0	26.1	4 900	4 500	4 400	4 200	24.0
26.0	42.1	24.0	4 400	4 000	3 800	3 700	26.0
28.0	36.7	21.5	3 900	3 500	3 400	3 300	28.0
30.0	30.4	18.5	3 500	3 100	3 000	2 900	30.0
32.0	22.7	14.4	3 100	2 800	2 700	2 600	32.0

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36.6m (120 Ft.) Boom							
6.7	81.4	37.8	29 900				6.7
7.0	80.9	37.8	28 100				7.0
8.0	79.3	37.6	23 000	20 400	18 200		8.0
9.0	77.7	37.4	19 400	17 500	15 700	14 300	9.0
10.0	76.1	37.2	16 800	15 200	13 800	12 600	10.0
11.0	74.5	36.9	14 700	13 400	12 300	11 300	11.0
12.0	72.8	36.6	13 000	11 900	11 000	10 200	12.0
14.0	69.5	35.9	10 500	9 700	9 000	8 400	14.0
16.0	66.1	35.1	8 700	8 100	7 600	7 100	16.0
18.0	62.6	34.1	7 400	6 900	6 400	6 100	18.0
20.0	59.0	32.9	6 400	5 900	5 500	5 300	20.0
22.0	55.3	31.6	5 500	5 100	4 900	4 600	22.0
24.0	51.4	30.1	4 900	4 500	4 200	4 000	24.0
26.0	47.2	28.4	4 300	3 900	3 700	3 600	26.0
28.0	42.7	26.4	3 800	3 500	3 300	3 200	28.0
30.0	37.9	24.0	3 400	3 100	2 900	2 800	30.0
32.0	32.4	21.1	3 000	2 700	2 600	2 500	32.0
34.0	25.8	17.4	2 700	2 400	2 300	2 300	34.0
36.0	17.1	12.2	2 500	2 100	2 100	2 000	36.0
39.6m (130 Ft.) Boom							
7.3	81.1	40.8	26 200				7.3
8.0	80.1	40.7	22 900	20 100			8.0
9.0	78.7	40.5	19 300	17 200	15 500		9.0
10.0	77.2	40.3	16 700	15 000	13 500	12 400	10.0
11.0	75.7	40.0	14 600	13 200	12 000	11 000	11.0
12.0	74.2	39.8	12 900	11 800	10 800	9 900	12.0
14.0	71.2	39.1	10 400	9 600	8 800	8 200	14.0
16.0	68.1	38.4	8 600	7 900	7 400	6 900	16.0
18.0	64.9	37.5	7 300	6 700	6 300	5 900	18.0
20.0	61.7	36.5	6 300	5 800	5 400	5 100	20.0
22.0	58.3	35.3	5 500	5 000	4 700	4 500	22.0
24.0	54.8	34.0	4 800	4 300	4 100	3 900	24.0
26.0	51.2	32.4	4 200	3 800	3 600	3 400	26.0
28.0	47.3	30.7	3 700	3 300	3 200	3 000	28.0
30.0	43.3	28.7	3 300	2 900	2 800	2 700	30.0
32.0	38.8	26.4	3 000	2 600	2 500	2 400	32.0
34.0	33.9	23.6	2 600	2 300	2 200	2 100	34.0
36.0	28.2	20.2	2 400	2 000	2 000	1 900	36.0
38.0	21.2	15.8	2 100	1 800	1 700	1 700	38.0

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42.7m (140 Ft.) Boom						
7.3	81.8	43.9	26 100			7.3
8.0	80.9	43.8	22 900	18 900		8.0
9.0	79.5	43.6	19 200	17 100		9.0
10.0	78.1	43.4	16 600	14 800	13 400	10.0
11.0	76.7	43.2	14 500	13 000	11 800	11.0
12.0	75.4	42.9	12 800	11 600	10 600	12.0
14.0	72.6	42.3	10 300	9 400	8 600	14.0
16.0	69.7	41.7	8 500	7 800	7 200	16.0
18.0	66.8	40.8	7 200	6 600	6 100	18.0
20.0	63.8	39.9	6 200	5 600	5 300	20.0
22.0	60.8	38.8	5 400	4 800	4 500	22.0
24.0	57.7	37.6	4 700	4 200	4 000	24.0
26.0	54.4	36.3	4 100	3 600	3 500	26.0
28.0	51.0	34.7	3 600	3 200	3 100	28.0
30.0	47.5	33.0	3 200	2 800	2 700	30.0
32.0	43.7	31.0	2 900	2 500	2 400	32.0
34.0	39.6	28.7	2 600	2 200	2 100	34.0
36.0	35.2	26.1	2 300	1 900	1 800	36.0
38.0	30.1	22.9	2 000	1 700	1 600	38.0
40.0	24.2	19.0	1 800	1 500		40.0
42.0	16.3	13.4	1 600			42.0
45.7m (150 Ft.) Boom						
7.9	81.6	46.9	23 100			7.9
8.0	81.5	46.9	22 800			8.0
9.0	80.2	46.7	19 100	16 100 *		9.0
10.0	78.9	46.5	16 500	14 700	11 900 *	10.0
11.0	77.6	46.3	14 400	12 900	11 600	11.0
12.0	76.4	46.1	12 700	11 400	10 400	12.0
14.0	73.8	45.5	10 200	9 200	8 500	14.0
16.0	71.1	44.9	8 400	7 700	7 100	16.0
18.0	68.4	44.1	7 200	6 400	6 000	18.0
20.0	65.7	43.3	6 100	5 500	5 100	20.0
22.0	62.9	42.3	5 300	4 700	4 400	22.0
24.0	60.1	41.2	4 600	4 100	3 900	24.0
26.0	57.1	40.0	4 100	3 600	3 300	26.0
28.0	54.1	38.6	3 500	3 100	2 900	28.0
30.0	50.9	37.0	3 100	2 700	2 600	30.0
32.0	47.6	35.3	2 800	2 400	2 300	32.0
34.0	44.1	33.3	2 500	2 100	2 000	34.0
36.0	40.3	31.1	2 200	1 800	1 700	36.0
38.0	36.2	28.5	2 000	1 600	1 500	38.0
40.0	31.7	25.5	1 700			40.0
42.0	26.5	21.9	1 600			42.0
44.0	20.1	17.2	1 400			44.0

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48.8m (160 Ft.) Boom				
8.5	81.4	49.9	20 600	
9.0	80.8	49.8	19 100	
10.0	79.6	49.6	16 500	13 600 *
11.0	78.4	49.4	14 300	12 700
12.0	77.2	49.2	12 600	11 300
14.0	74.8	48.7	10 100	9 100
16.0	72.3	48.1	8 400	7 500
18.0	69.9	47.4	7 100	6 300
20.0	67.3	46.6	6 000	5 400
22.0	64.7	45.7	5 200	4 600
24.0	62.1	44.7	4 500	4 000
26.0	59.4	43.6	4 000	3 500
28.0	56.6	42.3	3 400	3 000
30.0	53.8	40.9	3 000	2 600
32.0	50.8	39.3	2 700	2 300
34.0	47.7	37.6	2 400	2 000
36.0	44.4	35.6	2 100	1 700
38.0	40.9	33.4	1 900	1 500
40.0	37.1	30.9	1 600	
42.0	33.0	28.1	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	16 400	11 700 *
11.0	79.1	52.6	14 200	11 600 *
12.0	78.0	52.3	12 600	11 200
14.0	75.7	51.9	10 000	9 000
16.0	73.4	51.3	8 200	7 400
18.0	71.1	50.7	7 000	6 200
20.0	68.7	49.9	5 900	5 300
22.0	66.3	49.1	5 100	4 500
24.0	63.9	48.1	4 400	3 900
26.0	61.4	47.1	3 800	3 300
28.0	58.8	45.9	3 400	2 900
30.0	56.2	44.6	3 000	2 500
32.0	53.5	43.2	2 600	2 100
34.0	50.7	41.6	2 300	1 800
36.0	47.7	39.9	2 000	1 600
38.0	44.7	38.0	1 700	1 300
40.0	41.4	35.8	1 500	

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	14 100
12.0	78.7	55.5	12 500
14.0	76.5	55.0	9 900
16.0	74.4	54.5	8 200
18.0	72.2	53.9	6 900
20.0	70.0	53.2	5 800
22.0	67.7	52.4	5 000
24.0	65.4	51.5	4 300
26.0	63.1	50.5	3 700
28.0	60.7	49.5	3 300
30.0	58.3	48.3	2 900
32.0	55.8	47.0	2 500
34.0	53.2	45.5	2 200
36.0	50.6	43.9	1 900
38.0	47.8	42.2	1 700
40.0	44.9	40.3	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	12 500
14.0	77.2	58.1	9 900
16.0	75.2	57.6	8 200
18.0	73.1	57.1	6 800
20.0	71.1	56.4	5 800
22.0	69.0	55.7	4 900
24.0	66.8	54.8	4 200
26.0	64.6	53.9	3 600
28.0	62.4	52.9	3 200
30.0	60.2	51.8	2 800
32.0	57.8	50.6	2 400
34.0	55.5	49.3	2 100
36.0	53.0	47.8	1 800
38.0	50.5	46.2	1 600