

Liftcrane Boom Capacities

111 SERIES B

Boom No. 111 With Open Throat Top
49,700 Lb. Crane Counterweight
8,000 Lb. Carbody Counterweight
19 Ft. 4 in. 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 20,000 Lbs. 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 (16 Ft. 1 in.) and gantry up. Refer to boom rigging **No. 911959** or **No. 912877** and Wire Rope Specification chart **No. 9103-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 19 Ft. 4 in. extendible crawlers, 35-1/2 in. treads, 15 Ft. 6 in. retractable gantry, 10 part boom hoist reeving, two 1-1/4 in. boom pendants, 1st crane counterweight = 28,500 Lbs., 2nd crane counterweight = 5,700 Lbs., 3rd crane counterweight = 15,500 Lbs. and carbody counterweight = 8,000 Lbs.

Deduct From Capacities When Jib Is Attached

Jib Length	Jib No. 111
30 Ft.	1,600 Lbs.
40 Ft.	2,000 Lbs.
50 Ft.	2,500 Lbs.
60 Ft.	3,000 Lbs.

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
190 Ft.	---	190 Ft.	---
180 Ft.	50 Ft.	180 Ft.	---
170 Ft.	60 Ft.	170 Ft.	40 Ft.
		160 Ft.	60 Ft.
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.



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
40 Ft. BOOM			
10	81.4	45.0	150,000 *
11	79.9	44.9	150,000 *
12	78.4	44.6	150,000 *
13	77.0	44.4	150,000 *
14	75.5	44.1	150,000 *
15	74.0	43.8	139,500
16	72.5	43.5	124,200
17	71.0	43.2	111,900
18	69.4	42.8	101,700
19	67.9	42.4	93,300
20	66.3	41.9	86,000
22	63.1	40.9	74,500
24	59.8	39.8	65,500
26	56.4	38.5	58,500
28	52.8	37.0	52,800
30	49.1	35.3	48,000
32	45.1	33.4	44,000
34	40.8	31.1	40,600
36	36.0	28.5	37,700
38	30.7	25.3	35,100
40	24.2	21.2	32,800
50 Ft. BOOM			
11	81.9	55.0	150,000 *
12	80.8	54.8	150,000 *
13	79.6	54.7	150,000 *
14	78.4	54.4	150,000 *
15	77.3	54.2	139,600
16	76.1	54.0	124,200
17	74.9	53.7	111,900
18	73.7	53.4	101,700
19	72.5	53.1	93,200
20	71.3	52.7	86,000
22	68.8	51.9	74,400
24	66.3	51.1	65,500
26	63.8	50.1	58,400
28	61.2	49.0	52,700
30	58.5	47.8	47,900
32	55.7	46.5	43,900
34	52.9	45.0	40,500
36	49.9	43.3	37,500
38	46.8	41.5	35,000
40	43.5	39.4	32,700
45	34.2	33.0	28,100
50	21.5	23.2	24,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
60 Ft. BOOM			
13	81.4	64.8	150,000 *
14	80.4	64.6	150,000 *
15	79.4	64.5	139,500
16	78.4	64.2	124,200
17	77.5	64.0	111,900
18	76.5	63.8	101,600
19	75.5	63.5	93,200
20	74.5	63.2	85,900
22	72.5	62.6	74,300
24	70.5	61.9	65,300
26	68.4	61.1	58,300
28	66.3	60.3	52,500
30	64.2	59.3	47,800
32	62.1	58.2	43,700
34	59.9	57.1	40,300
36	57.6	55.9	37,400
38	55.3	54.5	34,800
40	52.9	53.0	32,500
45	46.6	48.6	27,900
50	39.5	43.1	24,300
55	31.0	35.9	21,500
60	19.5	24.9	19,200
70 Ft. BOOM			
14	81.8	74.8	149,300 *
15	81.0	74.6	137,900 *
16	80.1	74.4	124,100
17	79.3	74.2	111,800
18	78.4	74.0	101,500
19	77.6	73.8	93,100
20	76.8	73.6	85,800
22	75.1	73.0	74,200
24	73.4	72.5	65,200
26	71.6	71.8	58,200
28	69.9	71.1	52,400
30	68.1	70.3	47,600
32	66.4	69.4	43,600
34	64.5	68.5	40,200
36	62.7	67.5	37,300
38	60.8	66.3	34,700
40	58.9	65.2	32,400
45	54.0	61.8	27,800
50	48.7	57.7	24,200
55	42.9	52.7	21,300
60	36.4	46.5	19,100
65	28.6	38.4	17,200
70	18.0	26.5	15,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
80 Ft. BOOM			
16	81.4	84.6	122,600 *
17	80.6	84.4	111,700
18	79.9	84.2	101,400
19	79.2	84.0	92,900
20	78.5	83.8	85,700
22	77.0	83.4	74,100
24	75.5	82.9	65,100
26	74.0	82.3	58,000
28	72.5	81.7	52,200
30	71.0	81.0	47,400
32	69.5	80.3	43,400
34	67.9	79.4	40,000
36	66.4	78.6	37,100
38	64.8	77.6	34,500
40	63.2	76.6	32,200
45	59.1	73.8	27,600
50	54.8	70.5	24,000
55	50.2	66.6	21,100
60	45.3	61.9	18,900
65	40.0	56.4	17,000
70	33.9	49.6	15,400
75	26.7	40.8	14,000
80	16.8	27.9	12,800
90 Ft. BOOM			
17	81.7	94.6	111,600 *
18	81.0	94.4	101,300
19	80.4	94.2	92,900
20	79.8	94.0	85,600
22	78.5	93.6	74,000
24	77.1	93.2	65,000
26	75.8	92.7	57,900
28	74.5	92.1	52,100
30	73.2	91.5	47,300
32	71.8	90.9	43,300
34	70.5	90.2	39,900
36	69.1	89.4	37,000
38	67.8	88.6	34,400
40	66.4	87.7	32,100
45	62.8	85.3	27,400
50	59.2	82.5	23,900
55	55.4	79.2	21,000
60	51.4	75.4	18,800
65	47.1	71.0	16,900
70	42.6	65.9	15,300
75	37.6	59.9	13,900
80	31.9	52.5	12,700
85	25.1	43.1	11,700
90	15.8	29.3	10,800



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
18	81.9	104.5	101,100 *
19	81.4	104.4	92,700
20	80.8	104.2	85,400
22	79.6	103.8	73,800
24	78.5	103.4	64,800
26	77.3	103.0	57,800
28	76.1	102.5	52,000
30	74.9	102.0	47,200
32	73.7	101.4	43,100
34	72.5	100.8	39,700
36	71.3	100.1	36,800
38	70.1	99.4	34,200
40	68.9	98.6	31,900
45	65.7	96.5	27,300
50	62.6	94.0	23,700
55	59.3	91.1	20,800
60	55.8	87.9	18,600
65	52.3	84.2	16,700
70	48.5	80.0	15,100
75	44.6	75.2	13,700
80	40.3	69.6	12,500
85	35.6	63.1	11,500
90	30.2	55.2	10,600
95	23.8	45.2	9,800
100	14.9	30.6	9,100
110 Ft. BOOM			
20	81.6	114.3	85,300
22	80.6	114.0	73,700
24	79.5	113.6	64,600
26	78.5	113.2	57,600
28	77.4	112.8	51,800
30	76.3	112.3	47,000
32	75.2	111.8	42,900
34	74.2	111.2	39,500
36	73.1	110.6	36,600
38	72.0	110.0	34,000
40	70.9	109.3	31,700
45	68.1	107.4	27,100
50	65.2	105.2	23,500
55	62.3	102.7	20,600
60	59.3	99.8	18,400
65	56.2	96.6	16,500
70	53.0	93.0	14,900
75	49.7	88.9	13,500
80	46.1	84.3	12,300
85	42.4	79.1	11,300
90	38.3	73.2	10,400
95	33.8	66.2	9,500
100	28.8	57.8	8,800
105	22.7	47.2	8,200
110	14.2	31.8	7,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
22	81.4	124.1	73,500
24	80.4	123.8	64,500
26	79.4	123.4	57,500
28	78.5	123.0	51,600
30	77.5	122.6	46,800
32	76.5	122.1	42,800
34	75.5	121.6	39,300
36	74.5	121.0	36,500
38	73.5	120.5	33,900
40	72.5	119.8	31,600
45	70.0	118.1	26,900
50	67.4	116.1	23,300
55	64.8	113.9	20,500
60	62.1	111.3	18,300
65	59.4	108.5	16,400
70	56.6	105.3	14,700
75	53.6	101.8	13,300
80	50.6	97.8	12,200
85	47.4	93.4	11,100
90	44.0	88.5	10,200
95	40.5	82.9	9,400
100	36.6	76.5	8,700
105	32.3	69.1	8,000
110	27.5	60.3	7,400
115	21.7	49.1	6,900
120	13.6	33.0	6,400
130 Ft. BOOM			
24	81.1	133.9	64,300
26	80.3	133.6	57,300
28	79.4	133.2	51,500
30	78.5	132.8	46,600
32	77.6	132.4	42,600
34	76.6	131.9	39,300
36	75.7	131.4	36,300
38	74.8	130.9	33,700
40	73.9	130.3	31,400
45	71.6	128.7	26,700
50	69.3	126.9	23,100
55	66.9	124.8	20,300
60	64.4	122.5	18,100
65	62.0	120.0	16,200
70	59.4	117.1	14,500
75	56.8	114.0	13,200
80	54.1	110.5	12,000
85	51.4	106.6	10,900
90	48.5	102.4	10,000
95	45.4	97.6	9,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
100	42.2	92.4	8,500
105	38.8	86.4	7,800
110	35.1	79.7	7,200
115	31.0	71.9	6,700
120	26.4	62.6	6,200
125	20.8	51.0	5,800
130	13.0	34.2	5,400
140 Ft. BOOM			
24	81.8	144.1	64,100
26	81.0	143.8	57,100
28	80.1	143.4	51,300
30	79.3	143.0	46,500
32	78.5	142.6	42,400
34	77.6	142.2	39,100
36	76.8	141.7	36,100
38	75.9	141.2	33,500
40	75.1	140.7	31,200
45	73.0	139.2	26,500
50	70.8	137.6	22,900
55	68.6	135.7	20,000
60	66.4	133.6	17,900
65	64.1	131.2	15,900
70	61.8	128.6	14,300
75	59.5	125.8	12,900
80	57.1	122.7	11,700
85	54.6	119.2	10,700
90	52.0	115.4	9,800
95	49.4	111.3	9,000
100	46.6	106.7	8,200
105	43.7	101.7	7,600
110	40.6	96.1	7,000
115	37.3	89.9	6,500
120	33.8	82.8	6,000
125	29.9	74.6	5,500
130	25.4	64.9	5,100
135	20.0	52.7	4,800
140	12.6	35.2	4,400



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	81.6	153.9	55,100 *
28	80.8	153.6	51,100
30	80.0	153.2	46,300
32	79.2	152.8	42,200
34	78.5	152.4	38,900
36	77.7	152.0	35,900
38	76.9	151.5	33,300
40	76.1	151.0	31,000
45	74.1	149.7	26,300
50	72.1	148.1	22,700
55	70.1	146.4	19,800
60	68.1	144.4	17,700
65	66.0	142.3	15,800
70	63.9	139.9	14,200
75	61.7	137.3	12,800
80	59.5	134.5	11,600
85	57.3	131.3	10,500
90	54.9	127.9	9,600
95	52.6	124.2	8,800
100	50.1	120.2	8,100
105	47.6	115.8	7,400
110	44.9	110.9	6,800
115	42.1	105.6	6,300
120	39.2	99.7	5,800
125	36.0	93.1	5,400
130	32.6	85.7	5,000
135	28.8	77.2	4,600
140	24.5	67.1	4,200
145	19.3	54.5	3,900
150	12.1	36.3	3,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
28	81.4	163.7	46,900 *
30	80.6	163.4	46,100
32	79.9	163.0	42,000
34	79.2	162.6	38,700
36	78.5	162.2	35,700
38	77.7	161.8	33,100
40	77.0	161.3	30,800
45	75.1	160.1	26,100
50	73.3	158.6	22,500
55	71.4	157.0	19,600
60	69.5	155.2	17,500
65	67.6	153.2	15,600
70	65.6	151.0	13,900
75	63.6	148.6	12,600
80	61.6	146.0	11,400
85	59.5	143.1	10,300
90	57.4	140.0	9,400
95	55.3	136.6	8,600
100	53.1	133.0	7,900
105	50.8	129.0	7,200
110	48.4	124.7	6,600
115	46.0	120.1	6,100
120	43.4	114.9	5,600
125	40.7	109.3	5,200
130	37.9	103.2	4,700
135	34.8	96.3	4,400
140	31.5	88.6	4,000
145	27.9	79.7	3,700
150	23.7	69.2	3,400
155	18.7	56.1	3,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
28	81.9	173.8	40,800 *
30	81.2	173.5	40,400 *
32	80.5	173.2	40,000 *
34	79.8	172.8	38,600
36	79.1	172.4	35,500
38	78.5	172.0	32,900
40	77.8	171.6	30,600
45	76.0	170.4	25,900
50	74.3	169.0	22,300
55	72.5	167.5	19,400
60	70.8	165.8	17,300
65	69.0	164.0	15,400
70	67.1	161.9	13,700
75	65.3	159.7	12,300
80	63.4	157.3	11,100
85	61.5	154.6	10,100
90	59.6	151.8	9,200
95	57.6	148.7	8,400
100	55.6	145.4	7,600
105	53.5	141.8	7,000
110	51.3	137.9	6,400
115	49.1	133.7	5,900
120	46.9	129.1	5,400
125	44.5	124.2	4,900
130	42.0	118.8	4,500
135	39.4	113.0	4,100
140	36.7	106.5	3,800
145	33.7	99.3	3,500
150	30.5	91.3	3,200

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	81.7	183.6	35,000 *
32	81.0	183.3	34,700 *
34	80.4	183.0	34,200 *
36	79.8	182.6	33,700 *
38	79.1	182.2	32,500 *
40	78.5	181.8	30,400
45	76.8	180.7	25,700
50	75.2	179.4	22,100
55	73.5	178.0	19,500
60	71.9	176.4	17,100
65	70.2	174.7	15,200
70	68.5	172.8	13,500
75	66.7	170.7	12,200
80	65.0	168.4	11,000
85	63.2	165.9	9,900
90	61.4	163.3	9,000
95	59.6	160.4	8,200
100	57.7	157.4	7,500
105	55.8	154.1	6,800
110	53.9	150.5	6,200
115	51.9	146.7	5,700
120	49.8	142.6	5,200
125	47.7	138.1	4,700
130	45.5	133.4	4,300
135	43.2	128.2	3,900
140	40.8	122.6	3,600
145	38.3	116.5	3,300
150	35.6	109.7	3,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	81.5	193.4	30,000 *
34	80.9	193.1	29,600 *
36	80.3	192.8	29,100 *
38	79.7	192.4	29,000 *
40	79.1	192.0	27,900 *
45	77.5	191.0	25,500
50	76.0	189.8	21,900
55	74.4	188.4	19,300
60	72.8	186.9	16,900
65	71.3	185.3	15,000
70	69.7	183.5	13,300
75	68.0	181.5	12,000
80	66.4	179.4	10,700
85	64.7	177.1	9,700
90	63.1	174.6	8,800
95	61.3	172.0	8,000
100	59.6	169.1	7,200
105	57.8	166.0	6,600
110	56.0	162.7	6,000
115	54.2	159.2	5,400
120	52.3	155.5	5,000
125	50.4	151.4	4,500
130	48.4	147.1	4,100
135	46.3	142.4	3,700
140	44.2	137.4	3,400
145	42.0	132.1	3,100