

Liftcrane Boom Capacities

Boom No. 111 With Open Throat Top
44,000 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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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 (*). Retracted crawler capacities are not shown for boom positions which, without load, provide less than required ANSI B30.5 backward stability.

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 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 counterweight = 28,500 Lbs. and 2nd counterweight = 15,500 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 Front of Blocked Crawlers		Over Side of Extended Crawlers		Over Side of Retracted Crawlers	
Boom Length	Jib No. 111	Boom Length	Jib No. 111	Boom Length	Jib No. 111
190 Ft.	---	180 Ft.	---	160 Ft.	---
180 Ft.	30 Ft.	170 Ft.	---	150 Ft.	---
170 Ft.	50 Ft.	160 Ft.	40 Ft.	140 Ft.	30 Ft.
160 Ft.	60 Ft.	150 Ft.	60 Ft.	130 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 Crawlers Retracted Pounds	Boom Capacity Crawlers Extended 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		143,300
15	74.0	43.8		125,700
16	72.5	43.5		111,900
17	71.0	43.2		100,700
18	69.4	42.8		91,600
19	67.9	42.4		83,900
20	66.3	41.9		77,400
22	63.1	40.9		66,900
24	59.8	39.8		58,900
26	56.4	38.5		52,500
28	52.8	37.0		47,400
30	49.1	35.3		43,100
32	45.1	33.4		39,500
34	40.8	31.1		36,400
36	36.0	28.5		33,700
38	30.7	25.3		31,400
40	24.2	21.2		29,400
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		143,300
15	77.3	54.2		125,700
16	76.1	54.0		111,900
17	74.9	53.7		100,700
18	73.7	53.4		91,600
19	72.5	53.1		83,900
20	71.3	52.7		77,400
22	68.8	51.9		66,900
24	66.3	51.1		58,900
26	63.8	50.1		52,500
28	61.2	49.0		47,300
30	58.5	47.8		43,000
32	55.7	46.5		39,400
34	52.9	45.0		36,300
36	49.9	43.3		33,600
38	46.8	41.5		31,300
40	43.5	39.4		29,200
45	34.2	33.0		25,000
50	21.5	23.2	16,500	21,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
60 Ft. BOOM				
13	81.4	64.8		150,000 *
14	80.4	64.6		143,400
15	79.4	64.5		125,700
16	78.4	64.2		111,900
17	77.5	64.0		100,700
18	76.5	63.8		91,500
19	75.5	63.5		83,800
20	74.5	63.2		77,300
22	72.5	62.6		66,800
24	70.5	61.9		58,700
26	68.4	61.1		52,300
28	66.3	60.3		47,100
30	64.2	59.3		42,800
32	62.1	58.2		39,200
34	59.9	57.1		36,100
36	57.6	55.9		33,500
38	55.3	54.5		31,100
40	52.9	53.0		29,100
45	46.6	48.6	18,700	24,900
50	39.5	43.1	16,300	21,600
55	31.0	35.9	14,400	19,100
60	19.5	24.9	12,900	17,000
70 Ft. BOOM				
14	81.8	74.8		143,300
15	81.0	74.6		125,600
16	80.1	74.4		111,800
17	79.3	74.2		100,600
18	78.4	74.0		91,400
19	77.6	73.8		83,700
20	76.8	73.6		77,200
22	75.1	73.0		66,700
24	73.4	72.5		58,700
26	71.6	71.8		52,200
28	69.9	71.1		47,000
30	68.1	70.3		42,700
32	66.4	69.4		39,100
34	64.5	68.5		36,000
36	62.7	67.5		33,300
38	60.8	66.3		31,000
40	58.9	65.2	21,700	29,000
45	54.0	61.8	18,600	24,800
50	48.7	57.7	16,200	21,500
55	42.9	52.7	14,300	19,000
60	36.4	46.5	12,700	16,900
65	28.6	38.4	11,400	15,200
70	18.0	26.5	10,300	13,700

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
80 Ft. BOOM				
16	81.4	84.6		111,700
17	80.6	84.4		100,500
18	79.9	84.2		91,300
19	79.2	84.0		83,600
20	78.5	83.8		77,100
22	77.0	83.4		66,500
24	75.5	82.9		58,500
26	74.0	82.3		52,100
28	72.5	81.7		46,800
30	71.0	81.0		42,500
32	69.5	80.3		39,000
34	67.9	79.4		35,900
36	66.4	78.6	24,700	33,200
38	64.8	77.6	23,000	30,800
40	63.2	76.6	21,500	28,800
45	59.1	73.8	18,400	24,500
50	54.8	70.5	16,000	21,300
55	50.2	66.6	14,100	18,800
60	45.3	61.9	12,500	16,700
65	40.0	56.4	11,200	15,000
70	33.9	49.6	10,100	13,500
75	26.7	40.8	9,100	12,300
80	16.8	27.9	8,300	11,200
90 Ft. BOOM				
17	81.7	94.6		100,400
18	81.0	94.4		91,200
19	80.4	94.2		83,500
20	79.8	94.0		77,000
22	78.5	93.6		66,400
24	77.1	93.2		58,400
26	75.8	92.7		52,000
28	74.5	92.1		46,700
30	73.2	91.5		42,400
32	71.8	90.9		38,900
34	70.5	90.2	26,500	35,800
36	69.1	89.4	24,500	33,100
38	67.8	88.6	22,800	30,700
40	66.4	87.7	21,300	28,700
45	62.8	85.3	18,300	24,400
50	59.2	82.5	15,800	21,200
55	55.4	79.2	14,000	18,700
60	51.4	75.4	12,400	16,600
65	47.1	71.0	11,100	14,900
70	42.6	65.9	10,000	13,500
75	37.6	59.9	9,000	12,200
80	31.9	52.5	8,200	11,100
85	25.1	43.1	7,500	10,200
90	15.8	29.3	6,800	9,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
100 Ft. BOOM				
18	81.9	104.5		91,100
19	81.4	104.4		83,300
20	80.8	104.2		76,900
22	79.6	103.8		66,300
24	78.5	103.4		58,300
26	77.3	103.0		51,800
28	76.1	102.5		46,600
30	74.9	102.0		42,200
32	73.7	101.4	28,500	38,700
34	72.5	100.8	26,300	35,600
36	71.3	100.1	24,400	32,900
38	70.1	99.4	22,700	30,500
40	68.9	98.6	21,200	28,500
45	65.7	96.5	18,100	24,300
50	62.6	94.0	15,700	21,000
55	59.3	91.1	13,800	18,600
60	55.8	87.9	12,200	16,500
65	52.3	84.2	10,900	14,700
70	48.5	80.0	9,800	13,300
75	44.6	75.2	8,800	12,000
80	40.3	69.6	8,000	11,000
85	35.6	63.1	7,300	10,000
90	30.2	55.2	6,600	9,200
95	23.8	45.2	6,100	8,500
100	14.9	30.6	5,600	7,800
110 Ft. BOOM				
20	81.6	114.3		76,700
22	80.6	114.0		66,100
24	79.5	113.6		58,100
26	78.5	113.2		51,600
28	77.4	112.8	33,700	46,400
30	76.3	112.3	30,700	42,000
32	75.2	111.8	28,300	38,500
34	74.2	111.2	26,100	35,400
36	73.1	110.6	24,100	32,700
38	72.0	110.0	22,400	30,300
40	70.9	109.3	20,900	28,300
45	68.1	107.4	17,800	24,100
50	65.2	105.2	15,400	20,800
55	62.3	102.7	13,600	18,400
60	59.3	99.8	12,000	16,300
65	56.2	96.6	10,700	14,500
70	53.0	93.0	9,600	13,100
75	49.7	88.9	8,600	11,800
80	46.1	84.3	7,800	10,700
85	42.4	79.1	7,000	9,800
90	38.3	73.2	6,400	9,000
95	33.8	66.2	5,800	8,200
100	28.8	57.8	5,300	7,600
105	22.7	47.2	4,800	7,000
110	14.2	31.8	4,400	6,500

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120 Ft. BOOM				
22	81.4	124.1		66,000
24	80.4	123.8		58,000
26	79.4	123.4		51,500
28	78.5	123.0	33,500	46,200
30	77.5	122.6	30,500	41,900
32	76.5	122.1	28,100	38,400
34	75.5	121.6	25,900	35,300
36	74.5	121.0	24,000	32,600
38	73.5	120.5	22,300	30,200
40	72.5	119.8	20,800	28,100
45	70.0	118.1	17,700	23,900
50	67.4	116.1	15,200	20,600
55	64.8	113.9	13,500	18,200
60	62.1	111.3	11,900	16,100
65	59.4	108.5	10,600	14,400
70	56.6	105.3	9,400	12,900
75	53.6	101.8	8,500	11,700
80	50.6	97.8	7,600	10,600
85	47.4	93.4	6,900	9,700
90	44.0	88.5	6,200	8,800
95	40.5	82.9	5,700	8,100
100	36.6	76.5	5,200	7,400
105	32.3	69.1	4,700	6,800
110	27.5	60.3	4,300	6,300
115	21.7	49.1	3,900	5,800
120	13.6	33.0	3,600	5,400
130 Ft. BOOM				
24	81.1	133.9		57,800
26	80.3	133.6	36,800	51,300
28	79.4	133.2	33,300	46,000
30	78.5	132.8	30,300	41,700
32	77.6	132.4	27,900	38,200
34	76.6	131.9	25,700	35,100
36	75.7	131.4	23,800	32,400
38	74.8	130.9	22,100	30,000
40	73.9	130.3	20,600	27,900
45	71.6	128.7	17,500	23,700
50	69.3	126.9	15,000	20,400
55	66.9	124.8	13,300	18,000
60	64.4	122.5	11,700	15,900
65	62.0	120.0	10,400	14,200
70	59.4	117.1	9,200	12,700
75	56.8	114.0	8,300	11,500
80	54.1	110.5	7,400	10,400
85	51.4	106.6	6,700	9,500
90	48.5	102.4	6,000	8,600
95	45.4	97.6	5,500	7,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
130 Ft. BOOM				
100	42.2	92.4	5,000	7,200
105	38.8	86.4	4,500	6,700
110	35.1	79.7	4,100	6,100
115	31.0	71.9	3,700	5,600
120	26.4	62.6	3,400	5,200
125	20.8	51.0	3,000	4,800
130	13.0	34.2		4,400
140 Ft. BOOM				
24	81.8	144.1	40,900	57,600
26	81.0	143.8	36,600	51,200
28	80.1	143.4	33,100	45,900
30	79.3	143.0	30,100	41,500
32	78.5	142.6	27,700	38,000
34	77.6	142.2	25,500	34,900
36	76.8	141.7	23,500	32,200
38	75.9	141.2	21,800	29,800
40	75.1	140.7	20,300	27,700
45	73.0	139.2	17,200	23,500
50	70.8	137.6	14,800	20,200
55	68.6	135.7	13,000	17,800
60	66.4	133.6	11,400	15,700
65	64.1	131.2	10,100	14,000
70	61.8	128.6	9,000	12,500
75	59.5	125.8	8,000	11,300
80	57.1	122.7	7,200	10,200
85	54.6	119.2	6,500	9,200
90	52.0	115.4	5,800	8,400
95	49.4	111.3	5,200	7,700
100	46.6	106.7	4,700	7,000
105	43.7	101.7	4,300	6,400
110	40.6	96.1	3,800	5,900
115	37.3	89.9	3,500	5,400
120	33.8	82.8	3,100	5,000
125	29.9	74.6		4,600
130	25.4	64.9		4,200
135	20.0	52.7		3,900
140	12.6	35.2		3,600

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150 Ft. BOOM				
26	81.6	153.9	36,400	51,000
28	80.8	153.6	32,900	45,700
30	80.0	153.2	29,900	41,300
32	79.2	152.8	27,500	37,900
34	78.5	152.4	25,300	34,700
36	77.7	152.0	23,400	32,000
38	76.9	151.5	21,700	29,600
40	76.1	151.0	20,200	27,600
45	74.1	149.7	17,000	23,300
50	72.1	148.1	14,600	20,000
55	70.1	146.4	12,900	17,700
60	68.1	144.4	11,300	15,500
65	66.0	142.3	9,900	13,800
70	63.9	139.9	8,800	12,300
75	61.7	137.3	7,800	11,100
80	59.5	134.5	7,000	10,000
85	57.3	131.3	6,300	9,100
90	54.9	127.9	5,600	8,200
95	52.6	124.2	5,100	7,500
100	50.1	120.2	4,500	6,800
105	47.6	115.8	4,100	6,300
110	44.9	110.9	3,700	5,700
115	42.1	105.6	3,300	5,200
120	39.2	99.7		4,800
125	36.0	93.1		4,400
130	32.6	85.7		4,000
135	28.8	77.2		3,700
140	24.5	67.1		3,400
145	19.3	54.5		3,100
160 Ft. BOOM				
28	81.4	163.7	32,600	45,500
30	80.6	163.4	29,600	41,100
32	79.9	163.0	27,300	37,700
34	79.2	162.6	25,100	34,500
36	78.5	162.2	23,100	31,800
38	77.7	161.8	21,400	29,400
40	77.0	161.3	19,900	27,400
45	75.1	160.1	16,800	23,100
50	73.3	158.6	14,400	19,800
55	71.4	157.0	12,700	17,500
60	69.5	155.2	11,100	15,400
65	67.6	153.2	9,700	13,600
70	65.6	151.0	8,600	12,100
75	63.6	148.6	7,600	10,900
80	61.6	146.0	6,800	9,800
85	59.5	143.1	6,100	8,900
90	57.4	140.0	5,400	8,000
95	55.3	136.6	4,900	7,300
100	53.1	133.0	4,300	6,600
105	50.8	129.0	3,900	6,000

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160 Ft. BOOM				
110	48.4	124.7	3,400	5,500
115	46.0	120.1	3,100	5,000
120	43.4	114.9		4,600
125	40.7	109.3		4,200
130	37.9	103.2		3,800
135	34.8	96.3		3,500
140	31.5	88.6		3,200
170 Ft. BOOM				
28	81.9	173.8	32,400	40,800 *
30	81.2	173.5	29,400	40,400 *
32	80.5	173.2	27,100	37,500
34	79.8	172.8	24,900	34,300
36	79.1	172.4	22,900	31,600
38	78.5	172.0	21,200	29,300
40	77.8	171.6	19,700	27,200
45	76.0	170.4	16,600	22,900
50	74.3	169.0	14,200	19,600
55	72.5	167.5	12,400	17,200
60	70.8	165.8	10,800	15,100
65	69.0	164.0	9,500	13,400
70	67.1	161.9	8,400	11,900
75	65.3	159.7	7,400	10,700
80	63.4	157.3	6,600	9,600
85	61.5	154.6	5,800	8,600
90	59.6	151.8	5,200	7,800
95	57.6	148.7	4,600	7,100
100	55.6	145.4	4,100	6,400
105	53.5	141.8	3,600	5,800
110	51.3	137.9	3,200	5,300
115	49.1	133.7		4,800
120	46.9	129.1		4,400
125	44.5	124.2		3,900
130	42.0	118.8		3,600
135	39.4	113.0		3,200

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
180 Ft. BOOM				
30	81.7	183.6	29,500	35,000 *
32	81.0	183.3	26,900	34,700 *
34	80.4	183.0	24,700	34,200
36	79.8	182.6	22,700	31,400
38	79.1	182.2	21,000	29,100
40	78.5	181.8	19,500	27,000
45	76.8	180.7	16,400	22,700
50	75.2	179.4	14,000	19,400
55	73.5	178.0	12,300	17,100
60	71.9	176.4	10,700	15,000
65	70.2	174.7	9,300	13,200
70	68.5	172.8	8,200	11,700
75	66.7	170.7	7,200	10,500
80	65.0	168.4	6,400	9,400
85	63.2	165.9	5,600	8,400
90	61.4	163.3	5,000	7,600
95	59.6	160.4	4,400	6,900
100	57.7	157.4	3,900	6,200
105	55.8	154.1	3,400	5,600
110	53.9	150.5	3,000	5,100
115	51.9	146.7		4,600
120	49.8	142.6		4,200
125	47.7	138.1		3,800
130	45.5	133.4		3,400
135	43.2	128.2		3,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
190 Ft. BOOM				
32	81.5	193.4	26,700	30,000 *
34	80.9	193.1	24,500	29,600 *
36	80.3	192.8	22,500	29,100 *
38	79.7	192.4	20,800	28,900
40	79.1	192.0	19,300	26,800
45	77.5	191.0	16,200	22,500
50	76.0	189.8	14,000	19,500
55	74.4	188.4	12,000	16,900
60	72.8	186.9	10,400	14,800
65	71.3	185.3	9,100	13,000
70	69.7	183.5	8,000	11,500
75	68.0	181.5	7,000	10,300
80	66.4	179.4	6,200	9,200
85	64.7	177.1	5,400	8,200
90	63.1	174.6	4,800	7,400
95	61.3	172.0	4,200	6,700
100	59.6	169.1	3,700	6,000
105	57.8	166.0	3,200	5,400
110	56.0	162.7		4,900
115	54.2	159.2		4,400
120	52.3	155.5		4,000
125	50.4	151.4		3,500
130	48.4	147.1		3,200