

Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

180

Boom No. 180 With Open Throat Top
53,300 Lb. Crane Counterweight
7,000 Lb. Crawler Frame Counterweight
360 Degree Rating

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 18,700 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. A10177** and Wire Rope Specification chart **No. 9199-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. 9201-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 22 Ft. 4 in. extendible crawlers, 36 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 = 24,800 Lbs. and four 1,750 Lb. crawler frame counterweights.

Deduct From Capacities When Jib Is Attached

Jib Length	Jib No. 10
30 Ft.	1,700 Lbs.
40 Ft.	2,100 Lbs.
50 Ft.	2,600 Lbs.
60 Ft.	3,100 Lbs.

Maximum Boom and Jib Lengths Lifted Unassisted

Over End of Blocked Crawlers		Over Side of Extended Crawlers		Over Side of Retracted Crawlers	
Boom Length	Jib No. 10	Boom Length	Jib No. 10	Boom Length	Jib No. 10
200 Ft.	—	200 Ft.	—	170 Ft.	—
190 Ft.	60 Ft.	190 Ft.	—	160 Ft.	—
		180 Ft.	40 Ft.	150 Ft.	50 Ft.
		170 Ft.	60 Ft.	140 Ft.	60 Ft.

Load block, hook and weight ball on ground at start.

Consult jib chart for jib capacities. Upper boom point must be removed when jib is attached.

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40 Ft. Boom				
14	74.8	44.0		158,800 *
15	73.3	43.7		148,200 *
16	71.8	43.3		139,000 *
17	70.3	43.0		127,300
18	68.8	42.6		115,400
19	67.2	42.2		105,500
20	65.6	41.7		97,100
22	62.4	40.7		83,700
24	59.1	39.6		73,500
26	55.7	38.3		65,400
28	52.1	36.8		58,900
30	48.4	35.1		53,500
32	44.4	33.2		49,000
34	40.1	30.9		45,200
36	35.4	28.3		41,800
38	30.0	25.1		38,900
40	23.5	21.1		35,400 *
50 Ft. Boom				
14	77.9	54.3		158,700 *
15	76.7	54.0		148,100 *
16	75.5	53.8		138,200 *
17	74.4	53.5		127,300
18	73.2	53.2		115,400
19	72.0	52.9		105,500
20	70.7	52.5		97,100
22	68.3	51.8		83,700
24	65.8	50.9		73,400
26	63.2	49.9		65,300
28	60.6	48.8		58,800
30	58.0	47.6		53,400
32	55.2	46.3		48,900
34	52.3	44.8		45,000
36	49.4	43.2		41,700
38	46.3	41.3		38,800
40	43.0	39.3		36,300
45	33.6	32.8		31,100
50	20.9	23.0		27,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
60 Ft. Boom				
14	79.9	64.5		155,900 *
15	79.0	64.3		142,600 *
16	78.0	64.1		132,600 *
17	77.0	63.8		122,900 *
18	76.0	63.6		115,300
19	75.0	63.3		105,400
20	74.1	63.0		97,000
22	72.1	62.4		83,600
24	70.0	61.7		73,300
26	68.0	60.9		65,200
28	65.9	60.1		58,700
30	63.8	59.1		53,300
32	61.6	58.1		48,700
34	59.4	56.9		44,900
36	57.2	55.7		41,500
38	54.9	54.3		38,600
40	52.5	52.8		36,100
45	46.1	48.5	22,700	30,900
50	39.0	43.0	19,800	26,900
55	30.6	35.7	17,500	23,700
60	19.0	24.7	15,600	21,200
70 Ft. Boom				
14	81.4	74.6		136,000 *
15	80.6	74.4		136,000 *
16	79.7	74.3		127,500 *
17	78.9	74.1		118,700 *
18	78.1	73.9		111,400 *
19	77.2	73.6		104,400 *
20	76.4	73.4		96,900
22	74.7	72.9		83,500
24	73.0	72.3		73,200
26	71.3	71.6		65,100
28	69.5	70.9		58,600
30	67.8	70.1		53,200
32	66.0	69.2		48,600
34	64.2	68.3		44,800
36	62.3	67.3		41,400
38	60.5	66.2		38,500
40	58.6	65.0	26,200	36,000
45	53.6	61.6	22,500	30,800
50	48.3	57.5	19,700	26,800
55	42.5	52.5	17,400	23,600
60	36.0	46.3	15,500	21,100
65	28.3	38.3	13,900	18,900
70	17.6	26.3	12,500	17,100

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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				
15	81.8	84.6		119,000 *
16	81.0	84.4		119,000 *
17	80.3	84.2		115,200 *
18	79.6	84.1		107,400 *
19	78.8	83.9		100,600 *
20	78.1	83.7		95,800 *
22	76.6	83.2		83,400
24	75.2	82.7		73,100
26	73.7	82.1		65,000
28	72.2	81.5		58,400
30	70.7	80.8		53,000
32	69.1	80.1		48,400
34	67.6	79.3		44,600
36	66.0	78.4	29,800	41,200
38	64.4	77.5	27,800	38,300
40	62.8	76.5	26,000	35,800
45	58.7	73.7	22,300	30,600
50	54.4	70.3	19,400	26,600
55	49.9	66.4	17,100	23,400
60	45.0	61.8	15,200	20,800
65	39.6	56.2	13,600	18,700
70	33.6	49.4	12,300	16,900
75	26.4	40.7	11,100	15,400
80	16.4	27.7	10,100	14,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
90 Ft. Boom				
17	81.4	94.4		102,000 *
18	80.7	94.2		102,000 *
19	80.1	94.1		98,700 *
20	79.5	93.9		92,700 *
22	78.2	93.5		82,700 *
24	76.8	93.0		73,000
26	75.5	92.5		64,800
28	74.2	92.0		58,300
30	72.9	91.4		52,800
32	71.5	90.7		48,300
34	70.2	90.0	31,900	44,400
36	68.8	89.2	29,600	41,100
38	67.5	88.4	27,600	38,200
40	66.1	87.6	25,800	35,600
45	62.5	85.1	22,100	30,400
50	58.9	82.3	19,300	26,400
55	55.1	79.0	16,900	23,200
60	51.1	75.2	15,100	20,700
65	46.8	70.8	13,500	18,500
70	42.3	65.7	12,100	16,800
75	37.3	59.7	11,000	15,200
80	31.6	52.3	10,000	13,900
85	24.8	42.9	9,100	12,700
90	15.5	29.1	8,300	11,700

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100 Ft. Boom				
18	81.7	104.3		101,100 *
19	81.1	104.2		95,900 *
20	80.5	104.0		90,100 *
22	79.4	103.7		80,300 *
24	78.2	103.3		72,900
26	77.0	102.8		64,700
28	75.8	102.3		58,200
30	74.6	101.8		52,700
32	73.5	101.2	34,400	48,200
34	72.3	100.6	31,800	44,300
36	71.0	99.9	29,500	41,000
38	69.8	99.2	27,500	38,100
40	68.6	98.4	25,700	35,500
45	65.5	96.3	22,000	30,300
50	62.3	93.8	19,100	26,300
55	59.0	91.0	16,800	23,100
60	55.6	87.7	14,900	20,500
65	52.0	84.1	13,300	18,400
70	48.3	79.8	12,000	16,600
75	44.3	75.0	10,800	15,100
80	40.0	69.5	9,800	13,800
85	35.3	62.9	9,000	12,600
90	29.9	55.0	8,200	11,600
95	23.5	45.0	7,500	10,700
100	14.7	30.4	6,900	9,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
110 Ft. Boom				
19	81.9	114.3		85,000 *
20	81.4	114.2		85,000 *
22	80.3	113.8		78,800 *
24	79.3	113.5		71,700 *
26	78.2	113.1		64,600
28	77.1	112.6		58,000
30	76.1	112.1	37,300	52,600
32	75.0	111.6	34,200	48,000
34	73.9	111.0	31,600	44,100
36	72.8	110.4	29,300	40,800
38	71.7	109.8	27,300	37,900
40	70.6	109.1	25,500	35,300
45	67.8	107.2	21,800	30,100
50	65.0	105.0	18,900	26,100
55	62.1	102.5	16,600	22,900
60	59.1	99.6	14,700	20,400
65	56.0	96.4	13,100	18,200
70	52.8	92.8	11,800	16,400
75	49.4	88.8	10,600	14,900
80	45.9	84.2	9,700	13,600
85	42.1	79.0	8,800	12,400
90	38.1	73.0	8,000	11,400
95	33.6	66.0	7,300	10,500
100	28.5	57.6	6,700	9,700
105	22.4	47.0	6,100	9,000
110	14.0	31.7	5,600	8,300 *

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
120 Ft. Boom				
22	81.1	124.0		68,000 *
24	80.2	123.6		68,000 *
26	79.2	123.3	44,900	63,300 *
28	78.2	122.9	40,600	57,800
30	77.3	122.4	37,100	52,400
32	76.3	121.9	34,000	47,800
34	75.3	121.4	31,400	44,000
36	74.3	120.9	29,100	40,600
38	73.3	120.3	27,100	37,700
40	72.3	119.7	25,300	35,100
45	69.8	117.9	21,600	29,900
50	67.2	115.9	18,700	25,900
55	64.6	113.7	16,400	22,700
60	61.9	111.1	14,500	20,100
65	59.2	108.3	12,900	18,000
70	56.3	105.1	11,500	16,200
75	53.4	101.6	10,400	14,700
80	50.4	97.6	9,400	13,300
85	47.2	93.2	8,500	12,200
90	43.8	88.3	7,700	11,200
95	40.2	82.7	7,100	10,300
100	36.4	76.3	6,400	9,500
105	32.1	68.9	5,900	8,700
110	27.3	60.1	5,400	8,100
115	21.4	49.0	4,900	7,500
120	13.4	32.8	4,500	6,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
130 Ft. Boom				
22	81.8	134.1		68,000 *
24	80.9	133.8	49,800	68,000 *
26	80.0	133.4	44,700	61,800 *
28	79.1	133.1	40,400	57,700
30	78.2	132.6	36,900	52,200
32	77.3	132.2	33,800	47,700
34	76.4	131.7	31,200	43,800
36	75.5	131.2	28,900	40,400
38	74.6	130.7	26,800	37,500
40	73.7	130.1	25,100	34,900
45	71.4	128.5	21,400	29,700
50	69.0	126.7	18,500	25,700
55	66.7	124.7	16,200	22,500
60	64.2	122.4	14,300	19,900
65	61.8	119.8	12,700	17,800
70	59.2	117.0	11,300	16,000
75	56.6	113.8	10,200	14,500
80	53.9	110.3	9,200	13,100
85	51.1	106.5	8,300	12,000
90	48.3	102.2	7,500	11,000
95	45.2	97.5	6,900	10,100
100	42.0	92.2	6,200	9,300
105	38.6	86.3	5,700	8,500
110	34.9	79.5	5,200	7,900
115	30.8	71.7	4,700	7,300
120	26.2	62.5	4,300	6,700
125	20.6	50.8		6,200
130	12.8	34.0		5,400 *

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140 Ft. Boom				
24	81.6	143.9	49,700	65,400 *
26	80.8	143.6	44,500	60,400 *
28	79.9	143.2	40,300	56,500 *
30	79.1	142.9	36,700	52,000 *
32	78.3	142.4	33,600	47,500
34	77.4	142.0	31,000	43,600
36	76.6	141.6	28,700	40,300
38	75.7	141.1	26,700	37,300
40	74.9	140.5	24,900	34,800
45	72.8	139.1	21,200	29,500
50	70.6	137.4	18,300	25,500
55	68.4	135.5	16,000	22,300
60	66.2	133.4	14,100	19,800
65	63.9	131.1	12,500	17,600
70	61.6	128.5	11,200	15,800
75	59.3	125.6	10,000	14,300
80	56.9	122.5	9,000	13,000
85	54.4	119.1	8,100	11,800
90	51.8	115.3	7,400	10,800
95	49.2	111.1	6,700	9,900
100	46.4	106.6	6,100	9,100
105	43.5	101.5	5,500	8,400
110	40.4	95.9	5,000	7,700
115	37.1	89.7	4,500	7,100
120	33.6	82.6	4,100	6,600
125	29.7	74.4		6,100
130	25.2	64.7		5,600
135	19.8	52.6		5,200
140	12.4	35.1		4,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
150 Ft. Boom				
26	81.4	153.7	44,300	55,600 *
28	80.6	153.4	40,100	55,300 *
30	79.8	153.0	36,500	50,800 *
32	79.1	152.7	33,400	46,900 *
34	78.3	152.2	30,800	43,400
36	77.5	151.8	28,500	40,100
38	76.7	151.4	26,500	37,100
40	75.9	150.9	24,700	34,600
45	73.9	149.5	21,000	29,300
50	71.9	148.0	18,100	25,300
55	69.9	146.2	15,800	22,100
60	67.9	144.3	13,900	19,600
65	65.8	142.1	12,300	17,400
70	63.7	139.7	10,900	15,600
75	61.5	137.1	9,800	14,100
80	59.3	134.3	8,800	12,800
85	57.1	131.2	7,900	11,600
90	54.8	127.8	7,200	10,600
95	52.4	124.1	6,500	9,700
100	49.9	120.0	5,800	8,900
105	47.4	115.6	5,300	8,200
110	44.7	110.7	4,800	7,500
115	41.9	105.4	4,300	6,900
120	39.0	99.5		6,400
125	35.8	93.0		5,900
130	32.4	85.5		5,400
135	28.6	77.0		5,000
140	24.3	66.9		4,600
145	19.1	54.3		4,200

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160 Ft. Boom				
26	81.9	163.8	44,100	47,900 *
28	81.2	163.5	39,900	47,500 *
30	80.5	163.2	36,300	46,700 *
32	79.7	162.8	33,200	45,700 *
34	79.0	162.4	30,600	42,400 *
36	78.3	162.1	28,300	39,600 *
38	77.6	161.6	26,200	37,000
40	76.8	161.2	24,400	34,400
45	75.0	159.9	20,700	29,100
50	73.1	158.4	17,800	25,100
55	71.2	156.8	15,500	21,900
60	69.3	155.0	13,600	19,300
65	67.4	153.0	12,000	17,200
70	65.4	150.8	10,700	15,400
75	63.5	148.4	9,500	13,900
80	61.4	145.8	8,500	12,500
85	59.4	142.9	7,700	11,400
90	57.3	139.8	6,900	10,400
95	55.1	136.5	6,200	9,400
100	52.9	132.8	5,600	8,600
105	50.6	128.9	5,000	7,900
110	48.2	124.6	4,500	7,300
115	45.8	119.9	4,100	6,700
120	43.2	114.8		6,100
125	40.5	109.2		5,600
130	37.7	103.0		5,200
135	34.6	96.1		4,700
140	31.3	88.4		4,400
145	27.7	79.5		4,000

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170 Ft. Boom				
28	81.7	173.6	39,700	40,400 *
30	81.0	173.3	36,100	39,700 *
32	80.4	173.0	33,000	39,300 *
34	79.7	172.6	30,400	38,700 *
36	79.0	172.2	28,100	38,200 *
38	78.3	171.9	26,000	36,800
40	77.6	171.4	24,200	34,200
45	75.9	170.2	20,500	28,900
50	74.1	168.9	17,600	24,900
55	72.4	167.4	15,300	21,700
60	70.6	165.7	13,400	19,100
65	68.8	163.8	11,800	17,000
70	67.0	161.8	10,500	15,200
75	65.1	159.5	9,300	13,600
80	63.3	157.1	8,300	12,300
85	61.3	154.5	7,400	11,200
90	59.4	151.6	6,700	10,100
95	57.4	148.5	6,000	9,200
100	55.4	145.2	5,400	8,400
105	53.3	141.6	4,800	7,700
110	51.2	137.7	4,300	7,000
115	49.0	133.5		6,500
120	46.7	128.9		5,900
125	44.3	124.0		5,400
130	41.9	118.7		5,000
135	39.3	112.8		4,500
140	36.5	106.3		4,100

Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

180

Boom No. 180 With Open Throat Top
53,300 Lb. Crane Counterweight
7,000 Lb. Crawler Frame Counterweight
360 Degree Rating

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
180 Ft. Boom				
30	81.5	183.4	34,000 *	34,000 *
32	80.9	183.1	32,800	33,900 *
34	80.3	182.8	30,200	33,300 *
36	79.6	182.4	27,900	32,900 *
38	79.0	182.1	25,800	32,400 *
40	78.3	181.6	24,000	32,000 *
45	76.7	180.5	20,300	28,700
50	75.0	179.2	17,400	24,700
55	73.4	177.8	15,100	21,500
60	71.7	176.2	13,200	18,900
65	70.0	174.5	11,600	16,800
70	68.3	172.6	10,300	15,000
75	66.6	170.5	9,100	13,400
80	64.8	168.2	8,100	12,100
85	63.1	165.8	7,300	11,000
90	61.3	163.1	6,500	9,900
95	59.4	160.3	5,800	9,000
100	57.6	157.2	5,200	8,200
105	55.7	153.9	4,600	7,500
110	53.7	150.3	4,100	6,900
115	51.7	146.5		6,300
120	49.6	142.4		5,700
125	47.5	138.0		5,200
130	45.3	133.2		4,800
135	43.0	128.0		4,300
140	40.6	122.4		4,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
190 Ft. Boom				
30	82.0	193.6	29,900 *	29,900 *
32	81.4	193.2	29,300 *	29,300 *
34	80.8	192.9	28,800 *	28,800 *
36	80.2	192.6	27,700	28,300 *
38	79.5	192.2	25,600	28,300 *
40	78.9	191.9	23,800	27,200 *
45	77.4	190.8	20,100	26,100 *
50	75.8	189.6	17,200	24,500
55	74.3	188.2	14,900	21,300
60	72.7	186.7	13,000	18,700
65	71.1	185.1	11,400	16,600
70	69.5	183.3	10,100	14,800
75	67.9	181.4	8,900	13,200
80	66.3	179.2	7,900	11,900
85	64.6	176.9	7,000	10,700
90	62.9	174.4	6,300	9,700
95	61.2	171.8	5,600	8,800
100	59.5	168.9	5,000	8,000
105	57.7	165.9	4,400	7,300
110	55.9	162.6		6,600
115	54.1	159.1		6,000
120	52.2	155.3		5,500
125	50.2	151.2		5,000
130	48.2	146.9		4,500
135	46.2	142.3		4,100

Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

180

Boom No. 180 With Open Throat Top
53,300 Lb. Crane Counterweight
7,000 Lb. Crawler Frame Counterweight
360 Degree Rating

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
200 Ft. Boom				
32	81.8	203.4	24,900 *	24,900 *
34	81.2	203.1	24,900 *	24,900 *
36	80.7	202.7	24,100 *	24,100 *
38	80.1	202.4	24,100 *	24,100 *
40	79.5	202.0	23,300 *	23,300 *
45	78.0	201.0	19,900	22,300 *
50	76.6	199.9	17,000	21,500 *
55	75.1	198.6	14,700	20,800 *
60	73.6	197.2	12,700	18,500
65	72.1	195.7	11,200	16,300
70	70.6	194.0	9,800	14,500
75	69.1	192.1	8,700	13,000
80	67.5	190.1	7,700	11,700
85	66.0	187.9	6,800	10,500
90	64.4	185.6	6,000	9,500
95	62.8	183.1	5,300	8,600
100	61.1	180.4	4,700	7,800
105	59.5	177.6	4,100	7,000
110	57.8	174.5		6,400
115	56.1	171.3		5,800
120	54.4	167.8		5,300
125	52.6	164.1		4,800
130	50.7	160.1		4,300