

Liftcrane Boom Capacities

777 SERIES 2

Meets
ANSI B30.5
Requirements

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load over front of machine with crawlers blocked. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point capacity for liftcrane service with single part whip line is 29,500 Lbs. or 59,000 Lbs. with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 20,000 Lbs. or 40,000 Lbs. with two part whip line. 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 front tumbler properly blocked so that centerline of idler tumbler becomes tipping fulcrum. Drive motors must be to rear of machine. Swing is limited to that sector shown on Operating

Range Diagram No. 7958-A. Refer to boom rigging No. 178288 and Wire Rope Specification chart No. 7940-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 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 24 Ft. 9 in. crawlers, 38 in. or 48 in. treads, two 12 in. boom hoist cylinders, 26 Ft. mast, four 1-1/4 in. boom pendants, 142,000 Lb. crane counterweight and two 22,000 Lb. carbody counterweights.

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 134
30 Ft.	3,900 Lbs.
40 Ft.	4,700 Lbs.
50 Ft.	5,600 Lbs.
60 Ft.	6,600 Lbs.
70 Ft.	7,600 Lbs.
80 Ft.	8,700 Lbs.

Upper Boom Point Deduct

Deduct 1,000 Lbs. from boom capacities when upper boom point is attached.

Auxiliary Drum Deduct

Deduct 1,700 Lbs. from boom capacities when boom butt is equipped with auxiliary drum.

Multi-Part Rope Guard Deduct

Deduct 500 Lbs. from boom capacities when lower boom point is equipped with multi-part rope guard (No. A02744).

Wire Rope Guide Deduct (For Third Line)

Deduct 500 Lbs. from boom capacities when boom top wire rope guide (No. 192312) for third line is attached.

Consult jib chart for jib capacities.



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Maximum Boom and Jib Lengths Lifted Unassisted Over Front of Blocked Crawlers	
Boom Length	Jib No. 134
(a) 270 Ft.	—
(a) 260 Ft.	—
250 Ft.	—
240 Ft.	30 Ft.
230 Ft.	50 Ft.
220 Ft.	80 Ft.

Load block, hook and weight ball on ground at start. (a) Upper boom point, multi-part rope guard (No. A02744) and boom top wire rope guide (No. 192312) for third line cannot be used on 260 Ft. and 270 Ft. booms. Auxiliary drum in boom butt and wire rope guide in 10 Ft. insert cannot be used on 270 Ft. boom.

Upper boom point, multi-part rope guard (No. A02744) and boom top wire rope guide (No. 192312) for third line cannot be used when jib is attached.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
25 Ft. BOOM¹			
11	82.1	32.1	400,000 *
60 Ft. BOOM			
13	82.4	66.8	352,800 *
14	81.4	66.7	337,800 *
15	80.5	66.5	316,700 *
16	79.5	66.3	298,000 *
17	78.5	66.1	281,300 *
18	77.5	65.8	266,300 *
19	76.5	65.6	252,800 *
20	75.6	65.3	240,600 *
22	73.6	64.7	219,200 *
24	71.5	64.0	201,200 *
26	69.5	63.2	185,800 *
28	67.4	62.4	172,500 *
30	65.3	61.4	160,900 *
32	63.2	60.4	150,600 *
34	61.0	59.3	141,500 *
36	58.7	58.0	133,100 *
38	56.4	56.7	125,200 *
40	54.1	55.2	118,200 *
45	47.8	50.9	103,400 *
50	40.7	45.5	91,600 *
55	32.4	38.4	82,000 *
60	21.2	27.8	73,400 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	309,900 *
15	81.8	76.6	303,000 *
16	81.0	76.5	294,100 *
17	80.2	76.3	281,300 *
18	79.3	76.1	266,300 *
19	78.5	75.9	252,800 *
20	77.7	75.6	240,600 *
22	76.0	75.1	219,200 *
24	74.3	74.5	201,200 *
26	72.6	73.9	185,700 *
28	70.8	73.2	172,500 *
30	69.1	72.4	160,900 *
32	67.3	71.5	150,700 *
34	65.5	70.6	141,600 *
36	63.6	69.6	133,200 *
38	61.8	68.5	125,400 *
40	59.9	67.3	118,400 *
45	54.9	64.0	103,600 *
50	49.7	59.9	91,900 *
55	43.9	55.0	82,300 *
60	37.5	48.9	74,300 *
65	29.9	41.0	67,000 *
70	19.5	29.5	60,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
80 Ft. BOOM			
15	82.9	86.8	275,500 *
16	82.1	86.6	267,600 *
17	81.4	86.4	259,900 *
18	80.7	86.3	252,900 *
19	80.0	86.1	246,200 *
20	79.2	85.9	239,900 *
22	77.8	85.4	219,000 *
24	76.3	84.9	201,000 *
26	74.8	84.4	185,600 *
28	73.3	83.8	172,300 *
30	71.8	83.1	160,700 *
32	70.3	82.3	150,500 *
34	68.7	81.6	141,400 *
36	67.2	80.7	133,100 *
38	65.6	79.8	125,300 *
40	64.0	78.8	118,300 *
45	59.9	76.0	103,600 *
50	55.6	72.7	91,800 *
55	51.1	68.8	82,200 *
60	46.2	64.2	74,300 *
65	40.9	58.8	67,300 *
70	34.9	52.1	60,700 *
75	27.8	43.5	55,000 *
80	18.2	31.0	50,000 *

¹ Note: Requires additional rigging components.



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	256,700 *
17	82.4	96.6	249,700 *
18	81.7	96.4	243,100 *
19	81.1	96.2	236,800 *
20	80.4	96.1	230,700 *
22	79.1	95.7	218,800 *
24	77.8	95.2	200,800 *
26	76.5	94.7	185,400 *
28	75.2	94.2	172,100 *
30	73.9	93.6	160,500 *
32	72.5	93.0	150,300 *
34	71.2	92.3	141,200 *
36	69.8	91.5	133,000 *
38	68.5	90.7	125,200 *
40	67.1	89.9	118,200 *
45	63.6	87.5	103,500 *
50	59.9	84.7	91,800 *
55	56.1	81.4	82,200 *
60	52.1	77.7	74,000 *
65	47.9	73.3	67,000 *
70	43.4	68.2	60,800 *
75	38.4	62.3	55,200 *
80	32.8	55.0	50,400 *
85	26.1	45.8	46,100 *
90	17.1	32.5	42,400 *
100 Ft. BOOM			
18	82.6	106.5	221,400 *
19	82.0	106.4	215,900 *
20	81.4	106.2	210,700 *
22	80.2	105.9	200,800 *
24	79.1	105.5	191,700 *
26	77.9	105.0	183,300 *
28	76.7	104.5	171,800 *
30	75.5	104.0	160,200 *
32	74.4	103.4	150,000 *
34	73.2	102.8	140,900 *
36	71.9	102.2	132,800 *
38	70.7	101.5	125,000 *
40	69.5	100.7	118,000 *
45	66.4	98.6	103,200 *
50	63.2	96.1	90,900 *
55	59.9	93.3	80,800 *
60	56.5	90.1	72,600 *
65	53.0	86.4	65,600 *
70	49.2	82.3	59,700 *
75	45.3	77.5	54,700 *
80	41.0	72.0	50,300 *
85	36.3	65.5	46,100 *
90	31.0	57.8	42,500 *
95	24.7	48.0	39,200 *
100	16.1	33.9	36,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	211,100 *
20	82.2	116.3	205,700 *
22	81.1	116.0	195,600 *
24	80.1	115.7	186,300 *
26	79.0	115.3	177,600 *
28	78.0	114.8	167,700 *
30	76.9	114.4	156,600 *
32	75.8	113.8	147,100 *
34	74.7	113.3	138,700 *
36	73.6	112.7	131,300 *
38	72.5	112.0	124,700 *
40	71.4	111.4	117,600 *
45	68.7	109.5	101,800 *
50	65.8	107.3	89,500 *
55	62.9	104.8	79,500 *
60	59.9	102.0	71,300 *
65	56.8	98.8	64,500 *
70	53.6	95.2	58,700 *
75	50.3	91.2	53,700 *
80	46.8	86.6	49,300 *
85	43.0	81.5	45,500 *
90	39.0	75.6	42,100 *
95	34.5	68.7	39,100 *
100	29.5	60.4	36,400 *
105	23.5	50.0	33,800 *
110	15.3	35.2	31,200 *
120 Ft. BOOM			
20	82.9	126.4	192,200 *
22	81.9	126.2	183,700 *
24	80.9	125.8	175,900 *
26	79.9	125.5	168,600 *
28	79.0	125.1	161,800 *
30	78.0	124.6	152,200 *
32	77.0	124.2	142,800 *
34	76.0	123.6	134,700 *
36	75.0	123.1	127,400 *
38	74.0	122.5	121,000 *
40	73.0	121.9	115,200 *
45	70.5	120.2	101,000 *
50	68.0	118.2	88,600 *
55	65.3	116.0	78,700 *
60	62.7	113.5	70,600 *
65	59.9	110.6	63,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
70	57.1	107.5	58,000 *
75	54.2	104.0	53,000 *
80	51.2	100.0	48,700 *
85	48.0	95.7	44,900 *
90	44.6	90.8	41,500 *
95	41.1	85.2	38,500 *
100	37.2	78.9	35,800 *
105	33.0	71.6	33,400 *
110	28.2	62.9	31,200 *
115	22.5	52.0	29,200 *
130 Ft. BOOM			
22	82.5	136.3	176,100 *
24	81.6	136.0	168,300 *
26	80.7	135.6	161,100 *
28	79.8	135.3	154,400 *
30	78.9	134.9	148,100 *
32	78.0	134.4	139,100 *
34	77.1	134.0	131,100 *
36	76.2	133.5	124,000 *
38	75.3	132.9	117,600 *
40	74.4	132.4	112,000 *
45	72.1	130.8	100,000 *
50	69.7	129.0	87,700 *
55	67.4	127.0	77,800 *
60	64.9	124.7	69,700 *
65	62.5	122.1	62,900 *
70	59.9	119.3	57,100 *
75	57.3	116.2	52,200 *
80	54.7	112.7	47,900 *
85	51.9	108.9	44,100 *
90	49.0	104.6	40,800 *
95	46.0	99.9	37,800 *
100	42.8	94.7	35,100 *
105	39.4	88.8	32,700 *
110	35.7	82.1	30,500 *
115	31.6	74.4	28,600 *
120	27.0	65.3	26,700 *
125	21.5	53.8	25,000 *



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
24	82.2	146.1	157,900 *
26	81.4	145.8	151,800 *
28	80.6	145.4	146,000 *
30	79.7	145.1	140,600 *
32	78.9	144.7	135,400 *
34	78.1	144.2	127,500 *
36	77.2	143.8	120,500 *
38	76.4	143.3	114,300 *
40	75.5	142.7	108,800 *
45	73.4	141.3	97,200 *
50	71.3	139.6	86,700 *
55	69.1	137.8	76,900 *
60	66.8	135.7	68,800 *
65	64.6	133.4	62,000 *
70	62.3	130.8	56,300 *
75	59.9	128.0	51,300 *
80	57.5	124.8	47,100 *
85	55.0	121.4	43,300 *
90	52.5	117.7	40,000 *
95	49.8	113.6	37,000 *
100	47.1	109.0	34,400 *
105	44.2	104.0	32,000 *
110	41.1	98.5	29,800 *
115	37.9	92.3	27,800 *
120	34.3	85.2	26,000 *
125	30.4	77.2	24,300 *
130	26.0	67.6	22,800 *
135	20.7	55.6	21,400 *
150 Ft. BOOM			
24	82.8	156.2	152,500 *
26	82.0	155.9	146,300 *
28	81.2	155.6	140,500 *
30	80.4	155.2	135,000 *
32	79.7	154.9	129,900 *
34	78.9	154.5	124,200 *
36	78.1	154.0	117,300 *
38	77.3	153.6	111,300 *
40	76.5	153.1	105,800 *
45	74.5	151.7	94,400 *
50	72.5	150.2	85,300 *
55	70.5	148.5	76,000 *
60	68.5	146.5	68,000 *
65	66.4	144.4	61,200 *
70	64.3	142.0	55,500 *
75	62.1	139.5	50,600 *
80	59.9	136.6	46,300 *
85	57.7	133.5	42,600 *
90	55.4	130.1	39,300 *
95	53.0	126.4	36,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
100	50.6	122.4	33,700 *
105	48.0	118.0	31,300 *
110	45.4	113.2	29,200 *
115	42.6	107.9	27,200 *
120	39.7	102.1	25,400 *
125	36.5	95.6	23,700 *
130	33.1	88.2	22,200 *
135	29.4	79.8	20,800 *
140	25.1	69.8	19,500 *
145	20.0	57.4	18,200 *
160 Ft. BOOM			
26	82.5	166.0	139,000 *
28	81.8	165.7	133,400 *
30	81.0	165.4	128,100 *
32	80.3	165.0	123,100 *
34	79.6	164.7	118,400 *
36	78.8	164.3	114,000 *
38	78.1	163.8	108,500 *
40	77.4	163.4	103,200 *
45	75.5	162.1	91,900 *
50	73.7	160.7	83,000 *
55	71.8	159.1	75,600 *
60	69.9	157.3	67,600 *
65	68.0	155.3	60,800 *
70	66.0	153.1	55,100 *
75	64.0	150.7	50,200 *
80	62.0	148.1	45,900 *
85	59.9	145.3	42,200 *
90	57.8	142.2	38,900 *
95	55.7	138.8	35,900 *
100	53.5	135.2	33,300 *
105	51.2	131.3	30,900 *
110	48.8	127.0	28,700 *
115	46.4	122.3	26,800 *
120	43.8	117.3	25,000 *
125	41.2	111.7	23,300 *
130	38.3	105.6	21,800 *
135	35.3	98.7	20,400 *
140	32.0	91.1	19,100 *
145	28.4	82.3	17,900 *
150	24.3	71.9	16,700 *
155	19.3	59.1	15,600 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	133,600 *
28	82.2	175.8	128,200 *
30	81.6	175.5	123,000 *
32	80.9	175.2	118,100 *
34	80.2	174.8	113,400 *
36	79.5	174.5	109,100 *
38	78.8	174.0	105,000 *
40	78.1	173.6	100,500 *
45	76.4	172.4	89,400 *
50	74.7	171.1	80,600 *
55	72.9	169.6	73,400 *
60	71.1	167.9	66,800 *
65	69.3	166.1	60,100 *
70	67.5	164.0	54,400 *
75	65.7	161.8	49,500 *
80	63.8	159.4	45,200 *
85	61.9	156.8	41,500 *
90	59.9	153.9	38,200 *
95	58.0	150.9	35,300 *
100	55.9	147.5	32,700 *
105	53.9	144.0	30,300 *
110	51.7	140.1	28,100 *
115	49.5	135.9	26,200 *
120	47.3	131.4	24,400 *
125	44.9	126.5	22,700 *
130	42.5	121.2	21,200 *
135	39.9	115.3	19,800 *
140	37.1	108.9	18,500 *
145	34.2	101.8	17,300 *
150	31.0	93.8	16,200 *
155	27.5	84.7	15,100 *
160	23.5	74.0	14,100 *
165	18.7	60.7	13,200 *



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180 Ft. BOOM			
28	82.7	185.9	122,000 *
30	82.0	185.6	117,400 *
32	81.4	185.3	113,000 *
34	80.7	185.0	108,800 *
36	80.1	184.6	104,700 *
38	79.5	184.2	100,600 *
40	78.8	183.8	96,800 *
45	77.2	182.7	87,100 *
50	75.5	181.5	78,500 *
55	73.9	180.1	71,400 *
60	72.2	178.5	65,400 *
65	70.5	176.8	59,400 *
70	68.8	174.9	53,700 *
75	67.1	172.8	48,800 *
80	65.4	170.5	44,600 *
85	63.6	168.1	40,800 *
90	61.8	165.4	37,600 *
95	60.0	162.6	34,600 *
100	58.1	159.5	32,000 *
105	56.2	156.2	29,600 *
110	54.2	152.7	27,500 *
115	52.2	148.9	25,500 *
120	50.2	144.8	23,700 *
125	48.1	140.4	22,100 *
130	45.9	135.6	20,600 *
135	43.6	130.5	19,200 *
140	41.2	124.9	17,900 *
145	38.7	118.8	16,700 *
150	36.0	112.2	15,500 *
155	33.2	104.8	14,500 *
160	30.1	96.5	13,500 *
165	26.7	87.1	12,600 *
170	22.8	76.0	11,700 *
175	18.2	62.3	10,800 *
190 Ft. BOOM			
30	82.5	195.7	116,600 *
32	81.9	195.4	113,200 *
34	81.2	195.1	109,900 *
36	80.6	194.8	106,500 *
38	80.0	194.4	101,200 *
40	79.4	194.0	96,000 *
45	77.9	193.0	85,200 *
50	76.3	191.8	76,500 *
55	74.8	190.5	69,400 *
60	73.2	189.0	63,500 *
65	71.6	187.4	58,400 *
70	70.0	185.6	53,100 *
75	68.4	183.6	48,100 *
80	66.7	181.5	43,900 *
85	65.1	179.2	40,100 *
90	63.4	176.8	36,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
95	61.7	174.1	33,900 *
100	60.0	171.3	31,200 *
105	58.2	168.2	28,800 *
110	56.4	164.9	26,700 *
115	54.5	161.4	24,700 *
120	52.7	157.7	22,900 *
125	50.7	153.7	21,300 *
130	48.7	149.4	19,800 *
135	46.7	144.7	18,400 *
140	44.6	139.8	17,100 *
145	42.3	134.4	15,900 *
150	40.0	128.6	14,700 *
155	37.6	122.3	13,700 *
160	35.0	115.3	12,700 *
165	32.3	107.7	11,800 *
170	29.3	99.1	10,900 *
175	26.0	89.4	10,100 *
180	22.2	77.9	9,300 *
185	17.7	63.8	8,500 *
200 Ft. BOOM			
30	82.8	205.8	109,700 *
32	82.3	205.5	106,300 *
34	81.7	205.2	103,000 *
36	81.1	204.9	99,900 *
38	80.5	204.6	96,900 *
40	79.9	204.2	93,400 *
45	78.5	203.2	82,700 *
50	77.0	202.1	74,300 *
55	75.5	200.8	67,400 *
60	74.0	199.4	61,600 *
65	72.5	197.9	56,700 *
70	71.0	196.2	52,200 *
75	69.5	194.4	47,300 *
80	68.0	192.4	43,100 *
85	66.4	190.2	39,400 *
90	64.8	187.9	36,100 *
95	63.2	185.4	33,100 *
100	61.6	182.8	30,500 *
105	60.0	179.9	28,200 *
110	58.3	176.9	26,000 *
115	56.6	173.6	24,100 *
120	54.8	170.2	22,300 *
125	53.0	166.5	20,600 *
130	51.2	162.5	19,100 *
135	49.3	158.3	17,700 *
140	47.4	153.8	16,500 *
145	45.4	148.9	15,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200 Ft. BOOM			
150	43.4	143.7	14,100 *
155	41.2	138.2	13,100 *
160	39.0	132.1	12,100 *
165	36.6	125.6	11,200 *
170	34.1	118.4	10,300 *
175	31.4	110.5	9,500 *
180	28.5	101.7	8,700 *
185	25.3	91.6	8,000 *
190	21.6	79.8	7,300 *
195	17.2	65.3	6,600 *
210 Ft. BOOM			
32	82.6	215.6	105,700 *
34	82.1	215.4	102,700 *
36	81.5	215.1	98,200 *
38	81.0	214.7	94,300 *
40	80.4	214.4	89,700 *
45	79.0	213.4	80,100 *
50	77.6	212.4	72,500 *
55	76.2	211.2	65,800 *
60	74.8	209.8	60,100 *
65	73.4	208.4	55,200 *
70	72.0	206.8	51,000 *
75	70.5	205.0	47,400 *
80	69.1	203.2	44,100 *
85	67.6	201.1	40,600 *
90	66.1	198.9	37,300 *
95	64.6	196.6	34,200 *
100	63.1	194.1	31,500 *
105	61.5	191.4	29,100 *
110	60.0	188.6	26,900 *
115	58.4	185.5	24,900 *
120	56.7	182.3	23,000 *
125	55.1	178.9	21,300 *
130	53.4	175.2	19,800 *
135	51.7	171.3	18,300 *
140	49.9	167.2	17,000 *
145	48.1	162.8	15,800 *
150	46.2	158.0	14,600 *
155	44.3	153.0	13,500 *
160	42.3	147.6	12,500 *
165	40.2	141.8	11,600 *
170	38.0	135.6	10,700 *
175	35.7	128.8	9,800 *
180	33.2	121.4	9,000 *
185	30.6	113.2	8,300 *
190	27.8	104.1	7,500 *
195	24.7	93.8	6,900 *
200	21.1	81.7	6,200 *
205	16.8	66.7	5,600 *



Liftcrane Boom Capacities

777 SERIES 2

Meets
ANSI B30.5
Requirements

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
220 Ft. BOOM			
32	83.0	225.7	105,100 *
34	82.4	225.5	102,400 *
36	81.9	225.2	96,600 *
38	81.4	224.9	91,500 *
40	80.9	224.5	86,900 *
45	79.5	223.6	77,500 *
50	78.2	222.6	70,000 *
55	76.9	221.5	63,700 *
60	75.5	220.2	58,100 *
65	74.2	218.8	53,300 *
70	72.8	217.3	49,200 *
75	71.4	215.6	45,600 *
80	70.1	213.9	42,500 *
85	68.7	211.9	39,500 *
90	67.3	209.9	36,100 *
95	65.8	207.7	33,100 *
100	64.4	205.3	30,400 *
105	62.9	202.8	28,000 *
110	61.5	200.1	25,800 *
115	60.0	197.2	23,800 *
120	58.4	194.2	22,000 *
125	56.9	191.0	20,400 *
130	55.3	187.6	18,800 *
135	53.7	184.0	17,400 *
140	52.1	180.1	16,100 *
145	50.4	176.0	14,900 *
150	48.7	171.7	13,700 *
155	46.9	167.1	12,600 *
160	45.1	162.2	11,600 *
165	43.2	157.0	10,700 *
170	41.2	151.4	9,800 *
175	39.2	145.4	9,000 *
180	37.1	138.9	8,200 *
185	34.8	131.9	7,500 *
190	32.4	124.3	6,800 *
195	29.9	115.9	6,100 *
200	27.1	106.5	5,400 *
205	24.1	95.9	4,800 *
210	20.6	83.5	4,200 *
230 Ft. BOOM			
34	82.8	235.6	97,100 *
36	82.3	235.3	94,300 *
38	81.8	235.0	89,300 *
40	81.3	234.7	84,700 *
45	80.0	233.8	75,400 *
50	78.7	232.8	68,000 *
55	77.5	231.7	61,900 *
60	76.2	230.5	56,400 *
65	74.9	229.2	51,700 *
70	73.6	227.8	47,700 *
75	72.3	226.2	44,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
230 Ft. BOOM			
80	71.0	224.5	41,100 *
85	69.6	222.7	38,300 *
90	68.3	220.7	35,100 *
95	67.0	218.6	32,100 *
100	65.6	216.4	29,500 *
105	64.2	214.0	27,100 *
110	62.8	211.4	24,900 *
115	61.4	208.8	22,900 *
120	60.0	205.9	21,100 *
125	58.5	202.9	19,500 *
130	57.0	199.7	18,000 *
135	55.5	196.3	16,600 *
140	54.0	192.7	15,200 *
145	52.4	188.9	14,000 *
150	50.8	184.9	12,900 *
155	49.2	180.6	11,800 *
160	47.5	176.1	10,900 *
165	45.8	171.3	9,900 *
170	44.0	166.3	9,100 *
175	42.2	160.8	8,200 *
180	40.3	155.1	7,500 *
185	38.3	148.9	6,700 *
190	36.2	142.2	6,000 *
195	34.0	135.0	5,400 *
200	31.7	127.1	4,700 *
205	29.2	118.5	4,100 *
240 Ft. BOOM			
36	82.6	245.4	88,500 *
38	82.1	245.1	87,100 *
40	81.6	244.8	82,600 *
45	80.4	244.0	73,200 *
50	79.2	243.0	65,900 *
55	78.0	242.0	60,000 *
60	76.8	240.8	55,000 *
65	75.5	239.6	50,400 *
70	74.3	238.2	46,400 *
75	73.0	236.7	42,900 *
80	71.8	235.1	39,800 *
85	70.5	233.3	37,100 *
90	69.3	231.5	34,700 *
95	68.0	229.5	32,200 *
100	66.7	227.3	29,500 *
105	65.4	225.1	27,100 *
110	64.0	222.7	24,900 *
115	62.7	220.1	22,900 *
120	61.3	217.4	21,100 *
125	60.0	214.6	19,400 *
130	58.6	211.5	17,900 *
135	57.2	208.4	16,400 *
140	55.7	205.0	15,100 *
145	54.3	201.4	13,900 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
240 Ft. BOOM			
150	52.8	197.7	12,700 *
155	51.2	193.7	11,700 *
160	49.7	189.5	10,700 *
165	48.1	185.1	9,700 *
170	46.5	180.4	8,900 *
175	44.8	175.5	8,000 *
180	43.0	170.2	7,200 *
185	41.2	164.6	6,500 *
190	39.4	158.6	5,800 *
195	37.4	152.3	5,100 *
200	35.4	145.4	4,500 *
250 Ft. BOOM			
38	82.4	255.2	85,000 *
40	82.0	254.9	80,500 *
45	80.8	254.1	71,200 *
50	79.6	253.2	64,000 *
55	78.5	252.2	58,100 *
60	77.3	251.1	53,300 *
65	76.1	249.9	48,800 *
70	74.9	248.6	44,900 *
75	73.7	247.1	41,500 *
80	72.5	245.6	38,500 *
85	71.3	243.9	35,800 *
90	70.1	242.1	33,400 *
95	68.9	240.2	31,200 *
100	67.7	238.2	28,700 *
105	66.4	236.1	26,200 *
110	65.1	233.8	24,100 *
115	63.9	231.3	22,100 *
120	62.6	228.8	20,300 *
125	61.3	226.1	18,600 *
130	60.0	223.2	17,100 *
135	58.6	220.2	15,700 *
140	57.3	217.0	14,400 *
145	55.9	213.7	13,100 *
150	54.5	210.2	12,000 *
155	53.1	206.5	10,900 *
160	51.6	202.5	9,900 *
165	50.1	198.4	9,000 *
170	48.6	194.1	8,100 *
175	47.0	189.5	7,300 *
180	45.5	184.6	6,500 *
185	43.8	179.5	5,800 *
190	42.1	174.1	5,100 *
195	40.4	168.3	4,400 *



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
260 Ft. BOOM			
40	82.3	265.0	77,200 *
45	81.2	264.3	68,800 *
50	80.0	263.4	61,600 *
55	78.9	262.4	55,900 *
60	77.8	261.4	51,100 *
65	76.7	260.2	47,100 *
70	75.5	258.9	43,300 *
75	74.4	257.6	39,900 *
80	73.2	256.1	36,900 *
85	72.1	254.5	34,300 *
90	70.9	252.8	32,000 *
95	69.7	251.0	29,800 *
100	68.6	249.0	27,800 *
105	67.4	247.0	25,400 *
110	66.2	244.8	23,300 *
115	65.0	242.5	21,300 *
120	63.7	240.0	19,500 *
125	62.5	237.4	17,800 *
130	61.2	234.7	16,300 *
135	60.0	231.9	14,900 *
140	58.7	228.9	13,600 *
145	57.4	225.7	12,400 *
150	56.1	222.4	11,200 *
155	54.7	218.9	10,200 *
160	53.3	215.2	9,200 *
165	51.9	211.3	8,300 *
170	50.5	207.3	7,400 *
175	49.1	203.0	6,600 *
180	47.6	198.5	5,800 *
185	46.1	193.8	5,100 *
190	44.5	188.7	4,400 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
270 Ft. BOOM			
45	81.5	274.4	66,700 *
50	80.4	273.5	59,600 *
55	79.3	272.6	54,000 *
60	78.3	271.6	49,300 *
65	77.2	270.5	45,300 *
70	76.1	269.3	41,800 *
75	75.0	267.9	38,500 *
80	73.9	266.5	35,500 *
85	72.8	265.0	33,000 *
90	71.7	263.4	30,600 *
95	70.5	261.6	28,600 *
100	69.4	259.8	26,700 *
105	68.3	257.8	24,700 *
110	67.1	255.7	22,600 *
115	65.9	253.5	20,600 *
120	64.8	251.2	18,800 *
125	63.6	248.7	17,200 *
130	62.4	246.1	15,600 *
135	61.2	243.4	14,200 *
140	60.0	240.5	12,900 *
145	58.7	237.5	11,700 *
150	57.5	234.4	10,600 *
155	56.2	231.1	9,500 *
160	54.9	227.6	8,500 *
165	53.6	224.0	7,600 *
170	52.3	220.1	6,700 *
175	50.9	216.1	5,900 *
180	49.5	211.9	5,200 *
185	48.1	207.5	4,400 *