



Liftcrane Boom Capacities

777 SERIES 2

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
 ANSI B30.5
 Requirements

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. 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. 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, 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. 7957-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 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 capacities
 when upper boom point is attached.

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



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Maximum Boom and Jib Lengths Lifted Unassisted					
Over Front of Blocked Crawlers		Over Rear of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134	Boom Length	Jib No. 134
(a) 270 Ft.	---	(a) 260 Ft.	---	230 Ft.	---
(a) 260 Ft.	---	250 Ft.	---	220 Ft.	---
250 Ft.	---	240 Ft.	---	210 Ft.	50 Ft.
240 Ft.	30 Ft.	230 Ft.	50 Ft.	200 Ft.	70 Ft.
230 Ft.	50 Ft.	220 Ft.	70 Ft.	190 Ft.	80 Ft.
220 Ft.	80 Ft.	210 Ft.	80 Ft.		

Load block, hook and weight ball on ground at start.
(a) Upper boom point 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.

Consult jib chart for jib capacities. Upper boom point cannot be used when jib is attached.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	147,500
34	61.0	59.3	135,000
36	58.7	58.0	124,400
38	56.4	56.7	115,100
40	54.1	55.2	107,100
45	47.8	50.9	90,800
50	40.7	45.5	78,400
55	32.4	38.4	68,600
60	21.2	27.8	60,600

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	148,100
34	65.5	70.6	135,600
36	63.6	69.6	124,900
38	61.8	68.5	115,600
40	59.9	67.3	107,600
45	54.9	64.0	91,300
50	49.7	59.9	78,900
55	43.9	55.0	69,100
60	37.5	48.9	61,300
65	29.9	41.0	54,700
70	19.5	29.5	49,200

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	148,500
34	68.7	81.6	135,900
36	67.2	80.7	125,200
38	65.6	79.8	115,900
40	64.0	78.8	107,800
45	59.9	76.0	91,500
50	55.6	72.7	79,100
55	51.1	68.8	69,300
60	46.2	64.2	61,500
65	40.9	58.8	55,000
70	34.9	52.1	49,500
75	27.8	43.5	44,900
80	18.2	31.0	40,800



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142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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	148,500
34	71.2	92.3	135,900
36	69.8	91.5	125,200
38	68.5	90.7	115,900
40	67.1	89.9	107,800
45	63.6	87.5	91,500
50	59.9	84.7	79,100
55	56.1	81.4	69,400
60	52.1	77.7	61,600
65	47.9	73.3	55,100
70	43.4	68.2	49,700
75	38.4	62.3	45,100
80	32.8	55.0	41,100
85	26.1	45.8	37,600
90	17.1	32.5	34,400
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	148,600
34	73.2	102.8	136,000
36	71.9	102.2	125,200
38	70.7	101.5	115,900
40	69.5	100.7	107,800
45	66.4	98.6	91,500
50	63.2	96.1	79,100
55	59.9	93.3	69,300
60	56.5	90.1	61,500
65	53.0	86.4	55,000
70	49.2	82.3	49,600
75	45.3	77.5	45,000
80	41.0	72.0	41,000
85	36.3	65.5	37,500
90	31.0	57.8	34,500
95	24.7	48.0	31,700
100	16.1	33.9	29,200

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	136,000
36	73.6	112.7	125,300
38	72.5	112.0	116,000
40	71.4	111.4	107,900
45	68.7	109.5	91,500
50	65.8	107.3	79,100
55	62.9	104.8	69,300
60	59.9	102.0	61,500
65	56.8	98.8	55,000
70	53.6	95.2	49,600
75	50.3	91.2	45,000
80	46.8	86.6	41,000
85	43.0	81.5	37,600
90	39.0	75.6	34,500
95	34.5	68.7	31,800
100	29.5	60.4	29,400
105	23.5	50.0	27,200
110	15.3	35.2	25,200
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	125,400
38	74.0	122.5	116,000
40	73.0	121.9	107,900
45	70.5	120.2	91,500
50	68.0	118.2	79,100
55	65.3	116.0	69,300
60	62.7	113.5	61,500
65	59.9	110.6	55,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 ft. BOOM			
70	57.1	107.5	49,600
75	54.2	104.0	45,000
80	51.2	100.0	41,000
85	48.0	95.7	37,600
90	44.6	90.8	34,500
95	41.1	85.2	31,800
100	37.2	78.9	29,400
105	33.0	71.6	27,300
110	28.2	62.9	25,300
115	22.5	52.0	23,500
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	116,000
40	74.4	132.4	107,800
45	72.1	130.8	91,400
50	69.7	129.0	79,000
55	67.4	127.0	69,200
60	64.9	124.7	61,400
65	62.5	122.1	54,900
70	59.9	119.3	49,500
75	57.3	116.2	44,900
80	54.7	112.7	40,900
85	51.9	108.9	37,400
90	49.0	104.6	34,400
95	46.0	99.9	31,700
100	42.8	94.7	29,300
105	39.4	88.8	27,200
110	35.7	82.1	25,200
115	31.6	74.4	23,400
120	27.0	65.3	21,800
125	21.5	53.8	20,300



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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	107,700 *
45	73.4	141.3	91,300 *
50	71.3	139.6	78,800 *
55	69.1	137.8	69,000 *
60	66.8	135.7	61,100 *
65	64.6	133.4	54,600 *
70	62.3	130.8	49,200 *
75	59.9	128.0	44,600 *
80	57.5	124.8	40,600 *
85	55.0	121.4	37,200 *
90	52.5	117.7	34,100 *
95	49.8	113.6	31,400 *
100	47.1	109.0	29,000 *
105	44.2	104.0	26,900 *
110	41.1	98.5	25,000 *
115	37.9	92.3	23,200 *
120	34.3	85.2	21,600 *
125	30.4	77.2	20,100 *
130	26.0	67.6	18,700 *
135	20.7	55.6	17,400 *
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	91,100 *
50	72.5	150.2	78,600 *
55	70.5	148.5	68,800 *
60	68.5	146.5	60,900 *
65	66.4	144.4	54,400 *
70	64.3	142.0	49,000 *
75	62.1	139.5	44,400 *
80	59.9	136.6	40,400 *
85	57.7	133.5	37,000 *
90	55.4	130.1	33,900 *
95	53.0	126.4	31,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 ft. BOOM			
100	50.6	122.4	28,800 *
105	48.0	118.0	26,700 *
110	45.4	113.2	24,800 *
115	42.6	107.9	23,000 *
120	39.7	102.1	21,400 *
125	36.5	95.6	19,900 *
130	33.1	88.2	18,600 *
135	29.4	79.8	17,300 *
140	25.1	69.8	16,100 *
145	20.0	57.4	15,000 *
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	91,000 *
50	73.7	160.7	78,500 *
55	71.8	159.1	68,700 *
60	69.9	157.3	60,800 *
65	68.0	155.3	54,300 *
70	66.0	153.1	48,900 *
75	64.0	150.7	44,200 *
80	62.0	148.1	40,300 *
85	59.9	145.3	36,800 *
90	57.8	142.2	33,800 *
95	55.7	138.8	31,100 *
100	53.5	135.2	28,700 *
105	51.2	131.3	26,500 *
110	48.8	127.0	24,600 *
115	46.4	122.3	22,800 *
120	43.8	117.3	21,200 *
125	41.2	111.7	19,800 *
130	38.3	105.6	18,400 *
135	35.3	98.7	17,200 *
140	32.0	91.1	16,000 *
145	28.4	82.3	14,900 *
150	24.3	71.9	13,900 *
155	19.3	59.1	12,900 *

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	78,300 *
55	72.9	169.6	68,500 *
60	71.1	167.9	60,600 *
65	69.3	166.1	54,100 *
70	67.5	164.0	48,600 *
75	65.7	161.8	44,000 *
80	63.8	159.4	40,000 *
85	61.9	156.8	36,600 *
90	59.9	153.9	33,500 *
95	58.0	150.9	30,800 *
100	55.9	147.5	28,400 *
105	53.9	144.0	26,300 *
110	51.7	140.1	24,400 *
115	49.5	135.9	22,600 *
120	47.3	131.4	21,000 *
125	44.9	126.5	19,500 *
130	42.5	121.2	18,200 *
135	39.9	115.3	16,900 *
140	37.1	108.9	15,800 *
145	34.2	101.8	14,700 *
150	31.0	93.8	13,700 *
155	27.5	84.7	12,800 *
160	23.5	74.0	11,900 *
165	18.7	60.7	11,000 *



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	78,000
55	73.9	180.1	68,200
60	72.2	178.5	60,300
65	70.5	176.8	53,800
70	68.8	174.9	48,300
75	67.1	172.8	43,700
80	65.4	170.5	39,700
85	63.6	168.1	36,200
90	61.8	165.4	33,200
95	60.0	162.6	30,500
100	58.1	159.5	28,100
105	56.2	156.2	25,900
110	54.2	152.7	24,000
115	52.2	148.9	22,300
120	50.2	144.8	20,600
125	48.1	140.4	19,200
130	45.9	135.6	17,800
135	43.6	130.5	16,600
140	41.2	124.9	15,400
145	38.7	118.8	14,400
150	36.0	112.2	13,400
155	33.2	104.8	12,400
160	30.1	96.5	11,600
165	26.7	87.1	10,700
170	22.8	76.0	9,900
175	18.2	62.3	9,200
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	67,700
60	73.2	189.0	59,800
65	71.6	187.4	53,300
70	70.0	185.6	47,800
75	68.4	183.6	43,200
80	66.7	181.5	39,200
85	65.1	179.2	35,700
90	63.4	176.8	32,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 ft. BOOM			
95	61.7	174.1	30,000
100	60.0	171.3	27,600
105	58.2	168.2	25,400
110	56.4	164.9	23,500
115	54.5	161.4	21,700
120	52.7	157.7	20,100
125	50.7	153.7	18,700
130	48.7	149.4	17,300
135	46.7	144.7	16,100
140	44.6	139.8	14,900
145	42.3	134.4	13,800
150	40.0	128.6	12,800
155	37.6	122.3	11,900
160	35.0	115.3	11,000
165	32.3	107.7	10,200
170	29.3	99.1	9,400
175	26.0	89.4	8,700
180	22.2	77.9	8,000
185	17.7	63.8	7,300
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	59,600
65	72.5	197.9	53,100
70	71.0	196.2	47,600
75	69.5	194.4	42,900
80	68.0	192.4	39,000
85	66.4	190.2	35,500
90	64.8	187.9	32,400
95	63.2	185.4	29,700
100	61.6	182.8	27,300
105	60.0	179.9	25,200
110	58.3	176.9	23,200
115	56.6	173.6	21,500
120	54.8	170.2	19,900
125	53.0	166.5	18,400
130	51.2	162.5	17,100
135	49.3	158.3	15,800
140	47.4	153.8	14,700
145	45.4	148.9	13,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200 ft. BOOM			
150	43.4	143.7	12,600
155	41.2	138.2	11,700
160	39.0	132.1	10,800
165	36.6	125.6	10,000
170	34.1	118.4	9,200
175	31.4	110.5	8,500
180	28.5	101.7	7,800
185	25.3	91.6	7,200
190	21.6	79.8	6,500
195	17.2	65.3	5,900
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	59,300
65	73.4	208.4	52,800
70	72.0	206.8	47,300
75	70.5	205.0	42,700
80	69.1	203.2	38,700
85	67.6	201.1	35,200
90	66.1	198.9	32,200
95	64.6	196.6	29,500
100	63.1	194.1	27,100
105	61.5	191.4	24,900
110	60.0	188.6	23,000
115	58.4	185.5	21,200
120	56.7	182.3	19,600
125	55.1	178.9	18,200
130	53.4	175.2	16,800
135	51.7	171.3	15,600
140	49.9	167.2	14,400
145	48.1	162.8	13,400
150	46.2	158.0	12,400
155	44.3	153.0	11,400
160	42.3	147.6	10,600
165	40.2	141.8	9,800
170	38.0	135.6	9,000
175	35.7	128.8	8,300
180	33.2	121.4	7,600
185	30.6	113.2	7,000
190	27.8	104.1	6,300
195	24.7	93.8	5,800
200	21.1	81.7	5,200
205	16.8	66.7	4,600



Liftcrane Boom Capacities

777 SERIES 2

Meets
ANSI B30.5
Requirements

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

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	52,500
70	72.8	217.3	47,000
75	71.4	215.6	42,400
80	70.1	213.9	38,400
85	68.7	211.9	34,900
90	67.3	209.9	31,800
95	65.8	207.7	29,100
100	64.4	205.3	26,700
105	62.9	202.8	24,600
110	61.5	200.1	22,600
115	60.0	197.2	20,900
120	58.4	194.2	19,300
125	56.9	191.0	17,800
130	55.3	187.6	16,400
135	53.7	184.0	15,200
140	52.1	180.1	14,000
145	50.4	176.0	13,000
150	48.7	171.7	12,000
155	46.9	167.1	11,100
160	45.1	162.2	10,200
165	43.2	157.0	9,400
170	41.2	151.4	8,600
175	39.2	145.4	7,900
180	37.1	138.9	7,200
185	34.8	131.9	6,600
190	32.4	124.3	6,000
195	29.9	115.9	5,400
200	27.1	106.5	4,800
205	24.1	95.9	4,300
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	46,700
75	72.3	226.2	42,100
80	71.0	224.5	38,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
230 ft. BOOM			
85	69.6	222.7	34,600
90	68.3	220.7	31,500
95	67.0	218.6	28,800
100	65.6	216.4	26,400
105	64.2	214.0	24,200
110	62.8	211.4	22,300
115	61.4	208.8	20,500
120	60.0	205.9	18,900
125	58.5	202.9	17,500
130	57.0	199.7	16,100
135	55.5	196.3	14,900
140	54.0	192.7	13,700
145	52.4	188.9	12,600
150	50.8	184.9	11,600
155	49.2	180.6	10,700
160	47.5	176.1	9,900
165	45.8	171.3	9,000
170	44.0	166.3	8,300
175	42.2	160.8	7,600
180	40.3	155.1	6,900
185	38.3	148.9	6,200
190	36.2	142.2	5,600
195	34.0	135.0	5,100
200	31.7	127.1	4,500
205	29.2	118.5	4,000
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	41,800
80	71.8	235.1	37,700
85	70.5	233.3	34,300
90	69.3	231.5	31,200
95	68.0	229.5	28,500
100	66.7	227.3	26,100
105	65.4	225.1	23,900
110	64.0	222.7	22,000
115	62.7	220.1	20,200
120	61.3	217.4	18,600
125	60.0	214.6	17,100
130	58.6	211.5	15,800
135	57.2	208.4	14,600
140	55.7	205.0	13,400
145	54.3	201.4	12,300
150	52.8	197.7	11,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
240 ft. BOOM			
155	51.2	193.7	10,400
160	49.7	189.5	9,600
165	48.1	185.1	8,700
170	46.5	180.4	8,000
175	44.8	175.5	7,300
180	43.0	170.2	6,600
185	41.2	164.6	6,000
190	39.4	158.6	5,300
195	37.4	152.3	4,800
200	35.4	145.4	4,200
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	41,400
80	72.5	245.6	37,400
85	71.3	243.9	33,900
90	70.1	242.1	30,900
95	68.9	240.2	28,200
100	67.7	238.2	25,800
105	66.4	236.1	23,600
110	65.1	233.8	21,700
115	63.9	231.3	19,900
120	62.6	228.8	18,300
125	61.3	226.1	16,800
130	60.0	223.2	15,500
135	58.6	220.2	14,200
140	57.3	217.0	13,100
145	55.9	213.7	12,000
150	54.5	210.2	11,000
155	53.1	206.5	10,100
160	51.6	202.5	9,200
165	50.1	198.4	8,400
170	48.6	194.1	7,600
175	47.0	189.5	6,900
180	45.5	184.6	6,200
185	43.8	179.5	5,600
190	42.1	174.1	5,000
195	40.4	168.3	4,400



Liftcrane Boom Capacities

777 SERIES 2

Meets
 ANSI B30.5
 Requirements

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

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	33,600 *
90	70.9	252.8	30,500 *
95	69.7	251.0	27,800 *
100	68.6	249.0	25,400 *
105	67.4	247.0	23,200 *
110	66.2	244.8	21,300 *
115	65.0	242.5	19,500 *
120	63.7	240.0	17,900 *
125	62.5	237.4	16,400 *
130	61.2	234.7	15,100 *
135	60.0	231.9	13,800 *
140	58.7	228.9	12,700 *
145	57.4	225.7	11,600 *
150	56.1	222.4	10,600 *
155	54.7	218.9	9,700 *
160	53.3	215.2	8,800 *
165	51.9	211.3	8,000 *
170	50.5	207.3	7,200 *
175	49.1	203.0	6,500 *
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	30,100 *
95	70.5	261.6	27,400 *
100	69.4	259.8	25,000 *
105	68.3	257.8	22,800 *
110	67.1	255.7	20,900 *
115	65.9	253.5	19,100 *
120	64.8	251.2	17,500 *
125	63.6	248.7	16,000 *
130	62.4	246.1	14,700 *
135	61.2	243.4	13,400 *
140	60.0	240.5	12,300 *
145	58.7	237.5	11,200 *
150	57.5	234.4	10,200 *
155	56.2	231.1	9,300 *
160	54.9	227.6	8,400 *
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 *



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 capacities
when upper boom point is attached.

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

Consult jib chart for jib capacities. Upper boom point cannot be used when jib is attached.



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

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 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.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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 *



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
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 *



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
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 *



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
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	12,800 *
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

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
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 *