

Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and are based on structural competence.

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 all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom 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 with turntable bearing properly supported and machine list not to exceed degrees noted. 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 at top of turntable bearing 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 top of turntable bearing to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with two 12 in. boom hoist cylinders, 26 Ft. mast, four 1-1/4 in. boom pendants and 105,000 Lb. counterweight.

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.

Maximum Boom Length Lifted Unassisted

List	Boom Length
0 Degree	210 Ft.
1 Degree	210 Ft.
2 Degree	210 Ft.
3 Degree	210 Ft.
Load block, hook and weight ball on barge deck at start. Jib is not to be used while operating on a barge.	

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60 Ft. BOOM							
13	82.4	62.1	339,300				13
14	81.4	61.9	316,700	291,000			14
15	80.5	61.7	296,900	274,000	253,600		15
16	79.5	61.5	279,300	258,700	240,300	207,600	16
17	78.5	61.3	263,700	245,000	228,300	196,800	17
18	77.5	61.1	249,600	232,500	217,400	185,300	18
19	76.5	60.8	236,800	221,300	206,500	175,000	19
20	75.6	60.5	225,200	211,000	195,700	165,800	20
22	73.6	59.9	204,800	192,900	177,100	149,800	22
24	71.5	59.2	187,700	177,500	161,600	136,500	24
26	69.5	58.5	173,000	164,200	148,500	125,300	26
28	67.4	57.6	160,400	152,700	137,300	115,600	28
30	65.3	56.7	149,100	142,200	127,600	107,200	30
32	63.2	55.6	138,700	132,700	119,000	99,900	32
34	61.0	54.5	129,600	124,300	111,500	93,400	34
36	58.7	53.3	121,500	116,800	104,800	87,700	36
38	56.4	51.9	114,300	110,200	98,800	82,500	38
40	54.1	50.5	107,900	104,200	93,400	77,900	40
45	47.8	46.2	94,300	91,500	82,000	68,000	45
50	40.7	40.8	83,400	81,300	72,800	60,100	50
55	32.4	33.6	74,500	72,900	65,300	53,600	55
60	21.2	23.1	67,100	65,900	58,900	48,000	60
70 Ft. BOOM							
14	82.7	72.0	309,900				14
15	81.8	71.9	296,900	266,400			15
16	81.0	71.7	279,300	256,100	201,500		16
17	80.2	71.5	263,700	242,600	201,500		17
18	79.3	71.3	249,600	230,400	201,500	152,600	18
19	78.5	71.1	236,800	219,300	201,500	152,600	19
20	77.7	70.9	225,200	209,200	195,100	152,600	20
22	76.0	70.3	204,800	191,300	177,200	149,900	22
24	74.3	69.8	187,700	176,200	161,700	136,600	24
26	72.6	69.1	173,000	163,100	148,600	125,300	26
28	70.8	68.4	160,400	151,700	137,400	115,700	28
30	69.1	67.6	149,200	141,300	127,600	107,300	30
32	67.3	66.8	138,800	131,900	119,100	100,000	32
34	65.5	65.8	129,700	123,600	111,600	93,500	34
36	63.6	64.8	121,700	116,300	104,900	87,800	36
38	61.8	63.7	114,500	109,600	98,900	82,600	38
40	59.9	62.6	108,000	103,700	93,500	78,000	40
45	54.9	59.2	94,400	91,100	82,100	68,100	45
50	49.7	55.2	83,600	81,000	73,000	60,300	50
55	43.9	50.2	74,800	72,700	65,500	53,800	55
60	37.5	44.2	67,400	65,800	59,200	48,400	60
65	29.9	36.3	61,200	59,900	53,800	43,800	65
70	19.5	24.7	55,800	54,800	49,200	39,700	70

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80 Ft. BOOM							
15	82.9	82.0	275,500				15
16	82.1	81.8	267,600				16
17	81.4	81.7	259,900	226,200			17
18	80.7	81.5	249,400	220,900	195,300		18
19	80.0	81.3	236,600	215,700	192,300	148,700	19
20	79.2	81.1	224,900	207,200	188,300	148,700	20
22	77.8	80.7	204,600	189,600	176,500	148,700	22
24	76.3	80.2	187,500	174,700	161,600	136,500	24
26	74.8	79.6	172,800	161,700	148,500	125,300	26
28	73.3	79.0	160,200	150,500	137,300	115,600	28
30	71.8	78.3	149,100	140,300	127,500	107,200	30
32	70.3	77.6	138,800	131,000	119,000	99,900	32
34	68.7	76.8	129,700	122,800	111,500	93,400	34
36	67.2	75.9	121,600	115,500	104,800	87,700	36
38	65.6	75.0	114,400	109,000	98,800	82,500	38
40	64.0	74.0	108,000	103,100	93,400	77,900	40
45	59.9	71.2	94,400	90,600	82,000	68,100	45
50	55.6	67.9	83,600	80,600	72,900	60,200	50
55	51.1	64.0	74,800	72,300	65,400	53,800	55
60	46.2	59.5	67,500	65,500	59,200	48,400	60
65	40.9	54.0	61,300	59,700	53,900	43,800	65
70	34.9	47.3	55,900	54,600	49,300	39,900	70
75	27.8	38.7	51,300	50,300	45,300	36,400	75
80	18.2	26.3	47,200	46,400	41,800	33,300	80
90 Ft. BOOM							
16	83.0	91.9	256,700				16
17	82.4	91.8	249,700				17
18	81.7	91.6	243,100	208,700			18
19	81.1	91.5	236,200	204,100			19
20	80.4	91.3	224,600	199,600	176,200		20
22	79.1	90.9	204,300	187,800	169,500	148,000	22
24	77.8	90.5	187,100	173,100	160,800	136,300	24
26	76.5	90.0	172,500	160,300	148,400	125,000	26
28	75.2	89.4	159,900	149,200	137,100	115,400	28
30	73.9	88.8	148,800	139,300	127,400	107,000	30
32	72.5	88.2	138,600	130,100	118,900	99,700	32
34	71.2	87.5	129,500	122,000	111,400	93,300	34
36	69.8	86.7	121,500	114,700	104,700	87,500	36
38	68.5	85.9	114,300	108,300	98,700	82,400	38
40	67.1	85.1	107,900	102,400	93,300	77,700	40
45	63.6	82.7	94,300	90,100	81,900	68,000	45
50	59.9	79.9	83,500	80,100	72,800	60,100	50
55	56.1	76.6	74,800	72,000	65,400	53,700	55
60	52.1	72.9	67,500	65,200	59,200	48,400	60
65	47.9	68.5	61,300	59,400	53,900	43,800	65
70	43.4	63.5	56,000	54,400	49,300	39,900	70
75	38.4	57.5	51,400	50,100	45,400	36,500	75
80	32.8	50.2	47,400	46,300	41,900	33,500	80
85	26.1	41.0	43,800	43,000	38,800	30,800	85
90	17.1	27.7	40,600	39,900	36,000	28,400	90

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100 Ft. BOOM							
18	82.6	101.8	221,400				18
19	82.0	101.6	215,900	183,300			19
20	81.4	101.4	210,700	179,500			20
22	80.2	101.1	200,800	172,300	151,100		22
24	79.1	100.7	186,700	165,500	145,900	130,500	24
26	77.9	100.3	172,100	158,900	140,900	124,800	26
28	76.7	99.8	159,500	147,900	136,300	115,100	28
30	75.5	99.2	148,400	138,100	127,200	106,800	30
32	74.4	98.7	138,400	129,100	118,700	99,500	32
34	73.2	98.1	129,300	121,000	111,100	93,000	34
36	71.9	97.4	121,200	113,900	104,500	87,300	36
38	70.7	96.7	114,100	107,400	98,500	82,100	38
40	69.5	95.9	107,600	101,600	93,100	77,500	40
45	66.4	93.8	94,100	89,400	81,700	67,700	45
50	63.2	91.4	83,300	79,500	72,600	59,900	50
55	59.9	88.5	74,500	71,400	65,200	53,500	55
60	56.5	85.3	67,200	64,700	58,900	48,100	60
65	53.0	81.7	61,100	58,900	53,700	43,600	65
70	49.2	77.5	55,800	54,000	49,100	39,700	70
75	45.3	72.7	51,200	49,700	45,200	36,300	75
80	41.0	67.2	47,200	45,900	41,800	33,300	80
85	36.3	60.8	43,700	42,600	38,700	30,700	85
90	31.0	53.0	40,500	39,600	36,000	28,300	90
95	24.7	43.2	37,700	37,000	33,500	26,200	95
100	16.1	29.1	35,100	34,500	31,300	24,200	100

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110 Ft. BOOM							
19	82.7	111.7	211,100				19
20	82.2	111.6	205,700				20
22	81.1	111.3	195,600	167,600			22
24	80.1	110.9	186,300	160,700	140,800		24
26	79.0	110.5	171,900	154,300	136,200	121,300	26
28	78.0	110.1	159,200	146,700	131,800	115,000	28
30	76.9	109.6	148,200	137,100	127,100	106,700	30
32	75.8	109.1	138,300	128,200	118,500	99,300	32
34	74.7	108.5	129,200	120,200	111,000	92,900	34
36	73.6	107.9	121,100	113,100	104,300	87,100	36
38	72.5	107.3	113,900	106,800	98,400	82,000	38
40	71.4	106.6	107,500	101,000	93,000	77,400	40
45	68.7	104.7	94,000	88,900	81,600	67,600	45
50	65.8	102.5	83,200	79,100	72,500	59,800	50
55	62.9	100.0	74,400	71,000	65,100	53,400	55
60	59.9	97.2	67,100	64,300	58,900	48,000	60
65	56.8	94.0	61,000	58,600	53,600	43,500	65
70	53.6	90.4	55,700	53,700	49,100	39,600	70
75	50.3	86.4	51,200	49,400	45,200	36,200	75
80	46.8	81.9	47,200	45,700	41,700	33,200	80
85	43.0	76.7	43,700	42,400	38,700	30,600	85
90	39.0	70.8	40,500	39,400	36,000	28,300	90
95	34.5	63.9	37,700	36,800	33,500	26,200	95
100	29.5	55.6	35,200	34,400	31,300	24,300	100
105	23.5	45.2	32,900	32,200	29,300	22,500	105
110	15.3	30.4	30,700	30,100	27,400	20,900	110

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120 Ft. BOOM							
20	82.9	121.7	192,200				20
22	81.9	121.4	183,700	153,500			22
24	80.9	121.1	175,900	148,000	128,000		24
26	79.9	120.7	168,600	142,800	124,000	109,600	26
28	79.0	120.3	159,000	137,900	120,200	106,600	28
30	78.0	119.9	148,000	133,200	116,600	103,700	30
32	77.0	119.4	138,200	127,300	113,200	99,200	32
34	76.0	118.9	129,100	119,400	110,000	92,800	34
36	75.0	118.3	121,000	112,400	104,200	87,000	36
38	74.0	117.8	113,800	106,100	98,300	81,900	38
40	73.0	117.1	107,400	100,400	92,900	77,200	40
45	70.5	115.4	93,900	88,300	81,500	67,500	45
50	68.0	113.4	83,100	78,600	72,400	59,600	50
55	65.3	111.2	74,300	70,600	65,000	53,200	55
60	62.7	108.7	67,000	64,000	58,800	47,900	60
65	59.9	105.9	60,900	58,300	53,500	43,400	65
70	57.1	102.7	55,600	53,400	49,000	39,500	70
75	54.2	99.2	51,100	49,200	45,100	36,100	75
80	51.2	95.3	47,100	45,500	41,600	33,200	80
85	48.0	90.9	43,600	42,200	38,600	30,600	85
90	44.6	86.0	40,500	39,200	35,900	28,200	90
95	41.1	80.5	37,700	36,600	33,500	26,100	95
100	37.2	74.2	35,200	34,200	31,300	24,200	100
105	33.0	66.8	32,900	32,100	29,300	22,500	105
110	28.2	58.1	30,700	30,000	27,500	21,000	110
115	22.5	47.2	28,700	28,000	25,800	19,500	115

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130 Ft. BOOM							
22	82.5	131.5	176,100				22
24	81.6	131.2	168,300	141,500			24
26	80.7	130.9	161,100	136,600	117,900		26
28	79.8	130.5	154,400	131,700	114,500	101,000	28
30	78.9	130.1	147,700	127,100	111,200	98,300	30
32	78.0	129.7	138,000	122,800	108,100	95,800	32
34	77.1	129.2	128,900	118,600	104,800	92,500	34
36	76.2	128.7	120,800	111,600	101,700	86,800	36
38	75.3	128.2	113,600	105,300	98,000	81,700	38
40	74.4	127.6	107,200	99,700	92,700	77,000	40
45	72.1	126.0	93,700	87,700	81,300	67,300	45
50	69.7	124.2	82,900	78,100	72,200	59,400	50
55	67.4	122.2	74,100	70,200	64,800	53,000	55
60	64.9	119.9	66,800	63,500	58,600	47,700	60
65	62.5	117.4	60,700	57,900	53,300	43,200	65
70	59.9	114.5	55,400	53,000	48,800	39,300	70
75	57.3	111.4	50,900	48,800	44,900	35,900	75
80	54.7	107.9	46,900	45,100	41,500	33,000	80
85	51.9	104.1	43,400	41,800	38,500	30,400	85
90	49.0	99.9	40,300	38,900	35,800	28,100	90
95	46.0	95.2	37,500	36,300	33,300	26,000	95
100	42.8	89.9	35,000	33,900	31,200	24,100	100
105	39.4	84.0	32,700	31,700	29,200	22,400	105
110	35.7	77.4	30,500	29,600	27,400	20,800	110
115	31.6	69.7	28,500	27,700	25,700	19,400	115
120	27.0	60.5	26,700	26,000	24,200	18,100	120
125	21.5	49.1	24,900	24,300	22,800	16,800	125

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140 Ft. BOOM							
24	82.2	141.3	157,900				24
26	81.4	141.0	151,800	125,600			26
28	80.6	140.7	146,000	121,600	104,300		28
30	79.7	140.3	140,600	117,800	101,400	89,100	30
32	78.9	139.9	135,400	114,100	98,700	86,900	32
34	78.1	139.5	127,500	110,700	96,000	84,700	34
36	77.2	139.0	120,500	107,400	93,500	82,700	36
38	76.4	138.5	113,300	104,100	91,000	80,700	38
40	75.5	138.0	106,800	98,900	88,700	76,700	40
45	73.4	136.5	93,300	87,000	81,000	66,900	45
50	71.3	134.9	82,500	77,400	71,900	59,100	50
55	69.1	133.0	73,700	69,500	64,500	52,700	55
60	66.8	130.9	66,500	62,900	58,300	47,300	60
65	64.6	128.6	60,300	57,300	53,000	42,800	65
70	62.3	126.0	55,100	52,500	48,500	38,900	70
75	59.9	123.2	50,500	48,300	44,600	35,600	75
80	57.5	120.1	46,500	44,600	41,200	32,600	80
85	55.0	116.7	43,000	41,300	38,100	30,000	85
90	52.5	112.9	39,900	38,400	35,400	27,700	90
95	49.8	108.8	37,000	35,800	33,000	25,600	95
100	47.1	104.2	34,400	33,400	30,900	23,700	100
105	44.2	99.2	32,000	31,100	28,900	22,000	105
110	41.1	93.7	29,800	29,000	27,100	20,500	110
115	37.9	87.5	27,800	27,100	25,400	19,100	115
120	34.3	80.5	26,000	25,400	23,900	17,800	120
125	30.4	72.4	24,300	23,800	22,500	16,500	125
130	26.0	62.8	22,800	22,200	21,200	15,400	130
135	20.7	50.9	21,400	20,800	20,000	14,400	135

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150 Ft. BOOM							
24	82.8	151.4	152,500				24
26	82.0	151.1	146,300	121,000			26
28	81.2	150.8	140,500	117,000			28
30	80.4	150.5	135,000	113,100	97,500		30
32	79.7	150.1	129,900	109,500	94,700	83,500	32
34	78.9	149.7	124,200	106,000	92,100	81,300	34
36	78.1	149.3	117,300	102,700	89,500	79,300	36
38	77.3	148.8	111,300	99,500	87,000	77,300	38
40	76.5	148.3	105,800	96,500	84,600	75,300	40
45	74.5	147.0	93,000	86,300	79,100	66,600	45
50	72.5	145.4	82,300	76,800	71,700	58,800	50
55	70.5	143.7	73,500	69,000	64,200	52,400	55
60	68.5	141.8	66,200	62,400	58,000	47,100	60
65	66.4	139.6	60,100	56,900	52,800	42,600	65
70	64.3	137.3	54,800	52,100	48,300	38,700	70
75	62.1	134.7	50,300	47,900	44,400	35,300	75
80	59.9	131.8	46,300	44,200	40,900	32,400	80
85	57.7	128.7	42,600	41,000	37,900	29,800	85
90	55.4	125.4	39,300	38,000	35,200	27,500	90
95	53.0	121.7	36,300	35,200	32,800	25,400	95
100	50.6	117.7	33,700	32,700	30,700	23,500	100
105	48.0	113.3	31,300	30,500	28,700	21,800	105
110	45.4	108.4	29,200	28,400	26,900	20,300	110
115	42.6	103.2	27,200	26,500	25,300	18,900	115
120	39.7	97.3	25,400	24,800	23,800	17,600	120
125	36.5	90.8	23,700	23,300	22,400	16,400	125
130	33.1	83.4	22,200	21,800	21,100	15,200	130
135	29.4	75.0	20,800	20,500	19,900	14,200	135
140	25.1	65.0	19,500	19,200	18,600	13,200	140
145	20.0	52.6	18,200	18,000	17,500	12,300	145

Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
160 Ft. BOOM							
26	82.5	161.2	139,000				26
28	81.8	160.9	133,400	109,800			28
30	81.0	160.6	128,100	106,600	90,600		30
32	80.3	160.3	123,100	103,500	88,300		32
34	79.6	159.9	118,400	100,500	86,100	75,200	34
36	78.8	159.5	114,000	97,400	83,900	73,400	36
38	78.1	159.1	108,500	94,300	81,800	71,800	38
40	77.4	158.6	103,200	91,400	79,800	70,200	40
45	75.5	157.3	91,900	84,500	74,900	66,400	45
50	73.7	155.9	82,100	76,300	69,900	58,600	50
55	71.8	154.3	73,300	68,500	64,000	52,200	55
60	69.9	152.5	66,000	62,000	57,800	46,900	60
65	68.0	150.5	59,900	56,400	52,600	42,300	65
70	66.0	148.3	54,600	51,700	48,100	38,500	70
75	64.0	146.0	50,100	47,500	44,200	35,100	75
80	62.0	143.3	45,900	43,900	40,800	32,200	80
85	59.9	140.5	42,200	40,500	37,700	29,600	85
90	57.8	137.4	38,900	37,400	35,000	27,200	90
95	55.7	134.1	35,900	34,700	32,600	25,200	95
100	53.5	130.4	33,300	32,200	30,500	23,300	100
105	51.2	126.5	30,900	29,900	28,500	21,600	105
110	48.8	122.2	28,700	27,900	26,700	20,100	110
115	46.4	117.6	26,800	26,000	25,100	18,700	115
120	43.8	112.5	25,000	24,300	23,600	17,400	120
125	41.2	106.9	23,300	22,800	22,200	16,200	125
130	38.3	100.8	21,800	21,300	20,800	15,100	130
135	35.3	94.0	20,400	20,000	19,500	14,000	135
140	32.0	86.3	19,100	18,700	18,200	13,100	140
145	28.4	77.5	17,900	17,600	17,100	12,200	145
150	24.3	67.2	16,700	16,500	16,000	11,300	150
155	19.3	54.3	15,600	15,500	15,000	10,500	155

Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
170 Ft. BOOM							
26	82.9	171.3	133,600				26
28	82.2	171.0	128,200				28
30	81.6	170.7	123,000	102,000			30
32	80.9	170.4	118,100	98,900	84,500		32
34	80.2	170.1	113,400	95,900	82,200		34
36	79.5	169.7	109,100	93,000	80,100	70,200	36
38	78.8	169.3	105,000	90,100	78,000	68,500	38
40	78.1	168.9	100,500	87,200	75,900	66,900	40
45	76.4	167.7	89,400	80,500	71,200	63,000	45
50	74.7	166.3	80,600	74,400	66,400	58,300	50
55	72.9	164.8	73,000	68,000	61,900	51,900	55
60	71.1	163.2	65,700	61,500	57,600	46,600	60
65	69.3	161.3	59,600	56,000	52,300	42,000	65
70	67.5	159.3	54,300	51,200	47,800	38,200	70
75	65.7	157.0	49,500	47,100	43,900	34,800	75
80	63.8	154.6	45,200	43,200	40,500	31,900	80
85	61.9	152.0	41,500	39,800	37,500	29,300	85
90	59.9	149.2	38,200	36,700	34,800	27,000	90
95	58.0	146.1	35,300	33,900	32,400	24,900	95
100	55.9	142.8	32,700	31,500	30,200	23,000	100
105	53.9	139.2	30,300	29,200	28,200	21,300	105
110	51.7	135.3	28,100	27,200	26,300	19,800	110
115	49.5	131.1	26,200	25,400	24,600	18,400	115
120	47.3	126.6	24,400	23,700	23,000	17,100	120
125	44.9	121.7	22,700	22,100	21,500	15,900	125
130	42.5	116.4	21,200	20,700	20,100	14,800	130
135	39.9	110.6	19,800	19,300	18,900	13,800	135
140	37.1	104.1	18,500	18,100	17,700	12,800	140
145	34.2	97.0	17,300	16,900	16,600	11,900	145
150	31.0	89.1	16,200	15,900	15,500	11,100	150
155	27.5	79.9	15,100	14,800	14,500	10,300	155
160	23.5	69.2	14,100	13,900	13,600	9,600	160
165	18.7	55.9	13,200	13,000	12,700	8,900	165

Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
180 Ft. BOOM							
28	82.7	181.1	122,000				28
30	82.0	180.9	117,400	95,400			30
32	81.4	180.5	113,000	92,700			32
34	80.7	180.2	108,800	90,200	76,200		34
36	80.1	179.9	104,700	87,700	74,300		36
38	79.5	179.5	100,600	85,200	72,600	62,900	38
40	78.8	179.1	96,800	82,700	70,900	61,600	40
45	77.2	178.0	87,100	76,700	66,800	58,400	45
50	75.5	176.7	78,500	71,000	62,700	55,400	50
55	73.9	175.3	71,400	65,700	58,800	51,500	55
60	72.2	173.7	65,300	60,800	55,000	46,200	60
65	70.5	172.0	59,200	55,400	51,300	41,600	65
70	68.8	170.1	53,700	50,600	47,500	37,800	70
75	67.1	168.0	48,800	46,300	43,600	34,400	75
80	65.4	165.7	44,600	42,400	40,100	31,500	80
85	63.6	163.3	40,800	39,000	37,100	28,900	85
90	61.8	160.7	37,600	35,900	34,400	26,600	90
95	60.0	157.8	34,600	33,200	31,800	24,500	95
100	58.1	154.8	32,000	30,700	29,500	22,600	100
105	56.2	151.5	29,600	28,500	27,400	20,900	105
110	54.2	147.9	27,500	26,500	25,500	19,400	110
115	52.2	144.1	25,500	24,600	23,800	18,000	115
120	50.2	140.0	23,700	22,900	22,200	16,700	120
125	48.1	135.6	22,100	21,400	20,700	15,500	125
130	45.9	130.9	20,600	19,900	19,300	14,400	130
135	43.6	125.7	19,200	18,600	18,100	13,400	135
140	41.2	120.2	17,900	17,400	16,900	12,400	140
145	38.7	114.1	16,700	16,200	15,800	11,600	145
150	36.0	107.4	15,500	15,200	14,800	10,700	150
155	33.2	100.0	14,500	14,200	13,800	9,900	155
160	30.1	91.7	13,500	13,200	12,900	9,200	160
165	26.7	82.3	12,600	12,300	12,100	8,500	165
170	22.8	71.2	11,700	11,500	11,200	7,800	170
175	18.2	57.5	10,800	10,700	10,400	7,200	175

Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
190 Ft. BOOM							
30	82.5	191.0	116,600				30
32	81.9	190.7	113,200	90,700			32
34	81.2	190.4	109,900	88,400			34
36	80.6	190.0	106,500	86,300	72,500		36
38	80.0	189.7	101,200	84,200	70,900	61,200	38
40	79.4	189.3	96,000	82,100	69,400	59,900	40
45	77.9	188.2	85,200	77,300	65,700	57,000	45
50	76.3	187.0	76,500	70,200	62,300	54,200	50
55	74.8	185.7	69,400	64,200	59,000	51,000	55
60	73.2	184.2	63,500	59,100	55,200	45,600	60
65	71.6	182.6	58,400	54,600	51,000	41,100	65
70	70.0	180.8	53,100	49,900	46,600	37,200	70
75	68.4	178.8	48,100	45,400	42,800	33,900	75
80	66.7	176.7	43,900	41,500	39,300	30,900	80
85	65.1	174.4	40,100	38,100	36,200	28,300	85
90	63.4	172.0	36,800	35,000	33,400	26,000	90
95	61.7	169.3	33,900	32,300	30,800	23,900	95
100	60.0	166.5	31,200	29,800	28,500	22,100	100
105	58.2	163.4	28,800	27,600	26,500	20,400	105
110	56.4	160.2	26,700	25,600	24,600	18,800	110
115	54.5	156.7	24,700	23,700	22,800	17,400	115
120	52.7	152.9	22,900	22,100	21,200	16,200	120
125	50.7	148.9	21,300	20,500	19,800	15,000	125
130	48.7	144.6	19,800	19,100	18,400	13,900	130
135	46.7	140.0	18,400	17,700	17,100	12,800	135
140	44.6	135.0	17,100	16,500	16,000	11,900	140
145	42.3	129.6	15,900	15,400	14,900	11,000	145
150	40.0	123.8	14,700	14,300	13,900	10,200	150
155	37.6	117.5	13,700	13,300	12,900	9,400	155
160	35.0	110.6	12,700	12,300	12,000	8,700	160
165	32.3	102.9	11,800	11,500	11,200	8,000	165
170	29.3	94.4	10,900	10,600	10,400	7,300	170
175	26.0	84.6	10,100	9,900	9,600	6,700	175
180	22.2	73.2	9,300	9,100	8,800	6,100	180
185	17.7	59.0	8,500	8,400	8,100	5,600	185

Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
200 Ft. BOOM							
30	82.8	201.1	109,700				30
32	82.3	200.8	106,300				32
34	81.7	200.5	103,000	83,200			34
36	81.1	200.2	99,900	81,100			36
38	80.5	199.8	96,900	78,900	66,200		38
40	79.9	199.5	93,400	76,900	64,800	55,500	40
45	78.5	198.5	82,700	72,100	61,400	52,900	45
50	77.0	197.3	74,300	67,700	58,000	50,400	50
55	75.5	196.1	67,400	62,000	54,800	48,000	55
60	74.0	194.7	61,600	57,000	51,800	45,300	60
65	72.5	193.1	56,700	52,800	49,000	40,800	65
70	71.0	191.4	52,200	48,900	45,900	36,900	70
75	69.5	189.6	47,300	44,500	41,900	33,600	75
80	68.0	187.6	43,100	40,600	38,400	30,600	80
85	66.4	185.5	39,400	37,200	35,200	28,000	85
90	64.8	183.1	36,100	34,200	32,500	25,700	90
95	63.2	180.7	33,100	31,500	29,900	23,700	95
100	61.6	178.0	30,500	29,000	27,700	21,800	100
105	60.0	175.1	28,200	26,800	25,600	20,100	105
110	58.3	172.1	26,000	24,800	23,700	18,600	110
115	56.6	168.9	24,100	23,000	22,000	17,200	115
120	54.8	165.4	22,300	21,300	20,500	15,900	120
125	53.0	161.7	20,600	19,800	19,000	14,700	125
130	51.2	157.7	19,100	18,400	17,700	13,600	130
135	49.3	153.5	17,700	17,100	16,400	12,600	135
140	47.4	149.0	16,500	15,800	15,200	11,600	140
145	45.4	144.2	15,300	14,700	14,200	10,800	145
150	43.4	139.0	14,100	13,600	13,200	9,900	150
155	41.2	133.4	13,100	12,600	12,200	9,200	155
160	39.0	127.3	12,100	11,700	11,300	8,400	160
165	36.6	120.8	11,200	10,800	10,500	7,700	165
170	34.1	113.6	10,300	10,000	9,700	7,100	170
175	31.4	105.7	9,500	9,200	9,000	6,500	175
180	28.5	96.9	8,700	8,500	8,300	5,900	180
185	25.3	86.8	8,000	7,800	7,600	5,300	185
190	21.6	75.1	7,300	7,100	7,000	4,800	190
195	17.2	60.5	6,600	6,500	6,400	4,300	195

Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
210 Ft. BOOM							
32	82.6	210.9	105,700				32
34	82.1	210.6	105,400				34
36	81.5	210.3	99,500	86,600			36
38	81.0	210.0	94,300	83,200	69,700		38
40	80.4	209.6	89,700	79,600	68,600		40
45	79.0	208.7	80,100	72,000	65,100	55,900	45
50	77.6	207.6	72,500	65,800	60,100	53,900	50
55	76.2	206.4	65,800	60,200	55,400	50,400	55
60	74.8	205.1	60,100	55,400	51,200	45,000	60
65	73.4	203.6	55,200	51,200	47,500	40,500	65
70	72.0	202.0	51,000	47,500	44,300	36,600	70
75	70.5	200.3	47,400	44,300	41,400	33,300	75
80	69.1	198.4	43,900	40,900	38,000	30,300	80
85	67.6	196.4	40,300	37,600	35,000	27,700	85
90	66.1	194.2	37,100	34,600	32,300	25,400	90
95	64.6	191.8	34,200	31,900	29,900	23,400	95
100	63.1	189.3	31,500	29,500	27,700	21,500	100
105	61.5	186.7	29,100	27,300	25,600	19,800	105
110	60.0	183.8	26,900	25,300	23,800	18,300	110
115	58.4	180.8	24,900	23,500	22,100	16,900	115
120	56.7	177.5	23,000	21,800	20,500	15,600	120
125	55.1	174.1	21,300	20,200	19,000	14,400	125
130	53.4	170.4	19,800	18,800	17,700	13,300	130
135	51.7	166.5	18,300	17,400	16,400	12,300	135
140	49.9	162.4	17,000	16,200	15,200	11,400	140
145	48.1	158.0	15,800	15,000	14,100	10,500	145
150	46.2	153.3	14,600	13,900	13,100	9,700	150
155	44.3	148.2	13,500	12,900	12,100	8,900	155
160	42.3	142.8	12,500	11,900	11,200	8,200	160
165	40.2	137.0	11,600	11,000	10,300	7,500	165
170	38.0	130.8	10,700	10,100	9,500	6,900	170
175	35.7	124.0	9,800	9,300	8,700	6,300	175
180	33.2	116.6	9,000	8,500	8,000	5,700	180
185	30.6	108.4	8,200	7,800	7,300	5,100	185
190	27.8	99.3	7,500	7,000	6,600	4,600	190
195	24.7	89.0	6,800	6,400	6,000	4,100	195
200	21.1	76.9	6,100	5,700	5,400		200
205	16.8	62.0	5,400	5,100	4,800		205