

Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

LIFTING CAPACITIES: Lifting capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. 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 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 on a firm uniformly supporting surface 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 barge deck 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 barge deck 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 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	Over Front of Blocked Crawlers	Over Rear of Blocked Crawlers	Over Side of Crawlers
	Boom Length	Boom Length	Boom Length
0 Degree	210 Ft.	(a) 210 Ft.	(a) 190 Ft.
1 Degree	210 Ft.	(a) 210 Ft.	(a) 190 Ft.
2 Degree	210 Ft.	(a) 210 Ft.	(a) 190 Ft.
3 Degree	210 Ft.	(a) 210 Ft.	(a) 190 Ft.
Load block, hook and weight ball on barge deck at start. (a) When multi-part rope guard (No. A02744) is attached to lower boom point, 210 Ft. boom cannot be lifted over rear of blocked crawlers or 190 Ft. boom cannot be lifted over side of crawlers. Jib is not to be used on crawler machine while operating on a barge.			



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60 Ft. BOOM							
13	82.4	66.8	339,300 *				13
14	81.4	66.7	316,700 *	291,000 *			14
15	80.5	66.5	296,900 *	274,000 *	253,600 *		15
16	79.5	66.3	279,300 *	258,700 *	240,300 *	207,600 *	16
17	78.5	66.1	263,700 *	245,000 *	228,300 *	196,800 *	17
18	77.5	65.8	249,600 *	232,500 *	217,400 *	185,300 *	18
19	76.5	65.6	236,800 *	221,300 *	206,500 *	175,000 *	19
20	75.6	65.3	225,200 *	211,000 *	192,200	165,800 *	20
22	73.6	64.7	198,900	181,400	166,400	149,800 *	22
24	71.5	64.0	171,600	158,200	146,500	136,200	24
26	69.5	63.2	150,500	140,000	130,600	122,300	26
28	67.4	62.4	133,800	125,300	117,700	110,800	28
30	65.3	61.4	120,300	113,300	106,900	101,100	30
32	63.2	60.4	109,100	103,200	97,800	92,900	32
34	61.0	59.3	99,600	94,700	90,100	85,800	34
36	58.7	58.0	91,500	87,300	83,300	79,600	36
38	56.4	56.7	84,500	80,900	77,500	74,200	38
40	54.1	55.2	78,400	75,300	72,300	69,400	40
45	47.8	50.9	66,100	63,800	61,600	59,500	45
50	40.7	45.5	56,700	55,000	53,400	51,900	50
55	32.4	38.4	49,300	48,100	46,900	45,700	55
60	21.2	27.8	43,200	42,300	41,500	40,700	60
70 Ft. BOOM							
14	82.7	76.8	309,900 *				14
15	81.8	76.6	296,900 *	266,300 *			15
16	81.0	76.5	279,300 *	256,100 *	201,500 *		16
17	80.2	76.3	263,700 *	242,600 *	201,500 *		17
18	79.3	76.1	249,600 *	230,400 *	201,500 *	152,600 *	18
19	78.5	75.9	236,800 *	219,300 *	201,500 *	152,600 *	19
20	77.7	75.6	225,200 *	209,200 *	187,800	152,600 *	20
22	76.0	75.1	199,900	179,900	163,200	149,000	22
24	74.3	74.5	172,400	157,100	144,000	132,700	24
26	72.6	73.9	151,300	139,200	128,600	119,400	26
28	70.8	73.2	134,500	124,700	116,100	108,400	28
30	69.1	72.4	120,900	112,800	105,600	99,100	30
32	67.3	71.5	109,600	102,900	96,700	91,200	32
34	65.5	70.6	100,200	94,400	89,100	84,300	34
36	63.6	69.6	92,000	87,100	82,500	78,300	36
38	61.8	68.5	85,000	80,700	76,800	73,100	38
40	59.9	67.3	78,900	75,200	71,700	68,400	40
45	54.9	64.0	66,600	63,800	61,200	58,800	45
50	49.7	59.9	57,200	55,100	53,100	51,200	50
55	43.9	55.0	49,800	48,200	46,700	45,200	55
60	37.5	48.9	43,800	42,600	41,400	40,200	60
65	29.9	41.0	38,800	37,900	37,000	36,100	65
70	19.5	29.5	34,600	33,900	33,200	32,600	70



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80 Ft. BOOM							
15	82.9	86.8	275,500 *				15
16	82.1	86.6	267,600 *				16
17	81.4	86.4	259,900 *	226,200 *			17
18	80.7	86.3	249,400 *	220,900 *	195,300 *		18
19	80.0	86.1	236,600 *	215,700 *	192,300 *	148,700 *	19
20	79.2	85.9	224,900 *	207,200 *	183,500	148,700 *	20
22	77.8	85.4	200,500	178,100	159,800	144,600	22
24	76.3	84.9	173,000	155,800	141,400	129,100	24
26	74.8	84.4	151,800	138,100	126,500	116,400	26
28	73.3	83.8	135,000	123,900	114,300	105,900	28
30	71.8	83.1	121,300	112,200	104,100	97,000	30
32	70.3	82.3	110,000	102,300	95,500	89,300	32
34	68.7	81.6	100,500	93,900	88,000	82,700	34
36	67.2	80.7	92,300	86,700	81,600	76,900	36
38	65.6	79.8	85,300	80,400	75,900	71,800	38
40	64.0	78.8	79,200	74,900	70,900	67,300	40
45	59.9	76.0	66,800	63,600	60,600	57,900	45
50	55.6	72.7	57,400	54,900	52,600	50,500	50
55	51.1	68.8	50,000	48,100	46,300	44,600	55
60	46.2	64.2	44,000	42,500	41,100	39,700	60
65	40.9	58.8	39,100	37,900	36,700	35,600	65
70	34.9	52.1	34,900	34,000	33,000	32,100	70
75	27.8	43.5	31,300	30,600	29,900	29,100	75
80	18.2	31.0	28,200	27,600	27,100	26,600	80
90 Ft. BOOM							
16	83.0	96.7	256,700 *				16
17	82.4	96.6	249,700 *				17
18	81.7	96.4	243,100 *	208,700 *			18
19	81.1	96.2	236,200 *	204,100 *			19
20	80.4	96.1	224,600 *	199,600 *	176,200 *		20
22	79.1	95.7	200,600	175,900	156,200	140,100	22
24	77.8	95.2	173,000	154,000	138,500	125,400	24
26	76.5	94.7	151,800	136,800	124,100	113,400	26
28	75.2	94.2	135,000	122,800	112,300	103,300	28
30	73.9	93.6	121,300	111,200	102,400	94,700	30
32	72.5	93.0	110,000	101,500	94,000	87,400	32
34	71.2	92.3	100,500	93,200	86,800	81,000	34
36	69.8	91.5	92,400	86,100	80,500	75,400	36
38	68.5	90.7	85,300	79,900	74,900	70,500	38
40	67.1	89.9	79,200	74,400	70,000	66,000	40
45	63.6	87.5	66,800	63,200	59,900	56,900	45
50	59.9	84.7	57,400	54,700	52,100	49,700	50
55	56.1	81.4	50,100	47,900	45,800	43,900	55
60	52.1	77.7	44,100	42,400	40,700	39,100	60
65	47.9	73.3	39,200	37,800	36,400	35,100	65
70	43.4	68.2	35,100	33,900	32,800	31,700	70
75	38.4	62.3	31,600	30,600	29,700	28,800	75
80	32.8	55.0	28,500	27,700	27,000	26,300	80
85	26.1	45.8	25,800	25,200	24,600	24,000	85
90	17.1	32.5	23,400	22,900	22,500	22,000	90



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100 Ft. BOOM							
18	82.6	106.5	221,400 *				18
19	82.0	106.4	215,900 *	183,300 *			19
20	81.4	106.2	210,700 *	179,500 *			20
22	80.2	105.9	200,800 *	172,300 *	151,100 *		22
24	79.1	105.5	173,300	152,600	135,800	122,000	24
26	77.9	105.0	152,000	135,600	122,000	110,500	26
28	76.7	104.5	135,200	121,800	110,500	100,900	28
30	75.5	104.0	121,500	110,300	100,800	92,600	30
32	74.4	103.4	110,100	100,700	92,600	85,500	32
34	73.2	102.8	100,600	92,600	85,500	79,300	34
36	71.9	102.2	92,400	85,500	79,400	73,900	36
38	70.7	101.5	85,400	79,300	73,900	69,100	38
40	69.5	100.7	79,200	73,900	69,100	64,800	40
45	66.4	98.6	66,800	62,800	59,200	55,900	45
50	63.2	96.1	57,400	54,300	51,500	48,800	50
55	59.9	93.3	50,000	47,500	45,300	43,100	55
60	56.5	90.1	44,000	42,100	40,200	38,500	60
65	53.0	86.4	39,100	37,500	36,000	34,500	65
70	49.2	82.3	35,000	33,700	32,400	31,200	70
75	45.3	77.5	31,500	30,400	29,300	28,300	75
80	41.0	72.0	28,400	27,500	26,600	25,700	80
85	36.3	65.5	25,800	25,000	24,300	23,500	85
90	31.0	57.8	23,500	22,800	22,200	21,600	90
95	24.7	48.0	21,400	20,800	20,300	19,800	95
100	16.1	33.9	19,400	19,000	18,600	18,200	100



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110 Ft. BOOM							
19	82.7	116.5	211,100 *				19
20	82.2	116.3	205,700 *				20
22	81.1	116.0	195,600 *	167,600 *			22
24	80.1	115.7	173,500	151,000	133,200		24
26	79.0	115.3	152,200	134,300	119,800	107,800	26
28	78.0	114.8	135,300	120,700	108,700	98,500	28
30	76.9	114.4	121,600	109,500	99,300	90,600	30
32	75.8	113.8	110,200	100,000	91,300	83,800	32
34	74.7	113.3	100,600	91,900	84,400	77,800	34
36	73.6	112.7	92,400	84,900	78,300	72,500	36
38	72.5	112.0	85,400	78,800	73,000	67,800	38
40	71.4	111.4	79,200	73,400	68,300	63,700	40
45	68.7	109.5	66,800	62,500	58,500	55,000	45
50	65.8	107.3	57,400	54,000	50,900	48,100	50
55	62.9	104.8	50,000	47,300	44,800	42,500	55
60	59.9	102.0	44,000	41,800	39,800	37,900	60
65	56.8	98.8	39,100	37,300	35,600	34,000	65
70	53.6	95.2	35,000	33,500	32,100	30,700	70
75	50.3	91.2	31,500	30,200	29,000	27,900	75
80	46.8	86.6	28,500	27,400	26,400	25,400	80
85	43.0	81.5	25,800	24,900	24,000	23,200	85
90	39.0	75.6	23,500	22,700	22,000	21,300	90
95	34.5	68.7	21,400	20,800	20,100	19,500	95
100	29.5	60.4	19,600	19,000	18,500	18,000	100
105	23.5	50.0	17,900	17,400	17,000	16,600	105
110	15.3	35.2	16,300	16,000	15,600	15,300	110



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120 Ft. BOOM							
20	82.9	126.4	192,200 *				20
22	81.9	126.2	183,700 *	153,500 *			22
24	80.9	125.8	173,700	148,000 *	128,000 *		24
26	79.9	125.5	152,400	133,100	117,800	105,200	26
28	79.0	125.1	135,400	119,800	107,000	96,300	28
30	78.0	124.6	121,700	108,700	97,800	88,700	30
32	77.0	124.2	110,300	99,300	90,000	82,100	32
34	76.0	123.6	100,700	91,300	83,300	76,300	34
36	75.0	123.1	92,500	84,400	77,300	71,200	36
38	74.0	122.5	85,400	78,300	72,100	66,700	38
40	73.0	121.9	79,300	73,000	67,500	62,600	40
45	70.5	120.2	66,800	62,100	57,900	54,100	45
50	68.0	118.2	57,400	53,700	50,400	47,400	50
55	65.3	116.0	50,000	47,100	44,400	41,900	55
60	62.7	113.5	44,000	41,600	39,400	37,400	60
65	59.9	110.6	39,100	37,100	35,300	33,600	65
70	57.1	107.5	35,000	33,300	31,800	30,300	70
75	54.2	104.0	31,500	30,100	28,700	27,500	75
80	51.2	100.0	28,500	27,300	26,100	25,000	80
85	48.0	95.7	25,800	24,800	23,800	22,900	85
90	44.6	90.8	23,500	22,600	21,800	21,000	90
95	41.1	85.2	21,500	20,700	20,000	19,300	95
100	37.2	78.9	19,600	19,000	18,300	17,700	100
105	33.0	71.6	18,000	17,400	16,900	16,300	105
110	28.2	62.9	16,500	16,000	15,500	15,000	110
115	22.5	52.0	15,100	14,700	14,300	13,900	115



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130 Ft. BOOM							
22	82.5	136.3	176,100 *				22
24	81.6	136.0	168,300 *	141,500 *			24
26	80.7	135.6	152,400	131,800	115,700		26
28	79.8	135.3	135,400	118,700	105,200	94,100	28
30	78.9	134.9	121,700	107,700	96,300	86,700	30
32	78.0	134.4	110,300	98,500	88,700	80,400	32
34	77.1	134.0	100,700	90,600	82,000	74,800	34
36	76.2	133.5	92,500	83,700	76,300	69,800	36
38	75.3	132.9	85,400	77,700	71,100	65,400	38
40	74.4	132.4	79,200	72,500	66,600	61,400	40
45	72.1	130.8	66,700	61,700	57,200	53,100	45
50	69.7	129.0	57,300	53,300	49,800	46,500	50
55	67.4	127.0	49,900	46,700	43,800	41,200	55
60	64.9	124.7	43,900	41,300	38,900	36,700	60
65	62.5	122.1	39,000	36,800	34,800	33,000	65
70	59.9	119.3	34,800	33,000	31,400	29,800	70
75	57.3	116.2	31,300	29,800	28,400	27,000	75
80	54.7	112.7	28,300	27,000	25,800	24,600	80
85	51.9	108.9	25,700	24,600	23,500	22,500	85
90	49.0	104.6	23,400	22,400	21,500	20,600	90
95	46.0	99.9	21,300	20,500	19,700	18,900	95
100	42.8	94.7	19,500	18,800	18,000	17,300	100
105	39.4	88.8	17,900	17,200	16,600	16,000	105
110	35.7	82.1	16,400	15,800	15,300	14,700	110
115	31.6	74.4	15,000	14,500	14,000	13,600	115
120	27.0	65.3	13,800	13,300	12,900	12,500	120
125	21.5	53.8	12,600	12,200	11,900	11,600	125



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140 Ft. BOOM							
24	82.2	146.1	157,900 *				24
26	81.4	145.8	151,800 *	125,600 *			26
28	80.6	145.4	135,500	117,600	103,400		28
30	79.7	145.1	121,700	106,800	94,700	84,800	30
32	78.9	144.7	110,200	97,600	87,300	78,600	32
34	78.1	144.2	100,600	89,800	80,800	73,200	34
36	77.2	143.8	92,400	83,000	75,100	68,400	36
38	76.4	143.3	85,300	77,100	70,100	64,100	38
40	75.5	142.7	79,100	71,900	65,600	60,200	40
45	73.4	141.3	66,600	61,100	56,300	52,100	45
50	71.3	139.6	57,100	52,800	49,100	45,600	50
55	69.1	137.8	49,600	46,200	43,200	40,400	55
60	66.8	135.7	43,600	40,900	38,300	36,000	60
65	64.6	133.4	38,700	36,400	34,300	32,300	65
70	62.3	130.8	34,600	32,600	30,800	29,100	70
75	59.9	128.0	31,100	29,400	27,900	26,400	75
80	57.5	124.8	28,000	26,600	25,300	24,000	80
85	55.0	121.4	25,400	24,200	23,000	21,900	85
90	52.5	117.7	23,100	22,000	21,000	20,000	90
95	49.8	113.6	21,100	20,100	19,200	18,300	95
100	47.1	109.0	19,200	18,400	17,600	16,800	100
105	44.2	104.0	17,600	16,900	16,200	15,500	105
110	41.1	98.5	16,100	15,500	14,800	14,200	110
115	37.9	92.3	14,800	14,200	13,600	13,100	115
120	34.3	85.2	13,500	13,000	12,500	12,100	120
125	30.4	77.2	12,400	11,900	11,500	11,100	125
130	26.0	67.6	11,300	10,900	10,600	10,200	130
135	20.7	55.6	10,300	10,000	9,700	9,400	135



Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 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
150 Ft. BOOM							
24	82.8	156.2	152,500 *				24
26	82.0	155.9	146,300 *	121,000 *			26
28	81.2	155.6	135,400	116,500			28
30	80.4	155.2	121,600	105,800	93,200		30
32	79.7	154.9	110,100	96,800	85,900	76,900	32
34	78.9	154.5	100,500	89,000	79,600	71,700	34
36	78.1	154.0	92,200	82,300	74,000	67,000	36
38	77.3	153.6	85,100	76,400	69,100	62,800	38
40	76.5	153.1	78,900	71,300	64,700	59,000	40
45	74.5	151.7	66,400	60,600	55,600	51,100	45
50	72.5	150.2	56,900	52,400	48,400	44,800	50
55	70.5	148.5	49,400	45,800	42,600	39,600	55
60	68.5	146.5	43,500	40,500	37,800	35,300	60
65	66.4	144.4	38,500	36,000	33,800	31,700	65
70	64.3	142.0	34,400	32,300	30,400	28,600	70
75	62.1	139.5	30,900	29,100	27,400	25,900	75
80	59.9	136.6	27,800	26,300	24,900	23,500	80
85	57.7	133.5	25,200	23,900	22,600	21,400	85
90	55.4	130.1	22,900	21,700	20,600	19,600	90
95	53.0	126.4	20,900	19,800	18,900	17,900	95
100	50.6	122.4	19,000	18,100	17,300	16,400	100
105	48.0	118.0	17,400	16,600	15,800	15,100	105
110	45.4	113.2	15,900	15,200	14,500	13,800	110
115	42.6	107.9	14,600	13,900	13,300	12,700	115
120	39.7	102.1	13,300	12,800	12,200	11,700	120
125	36.5	95.6	12,200	11,700	11,200	10,700	125
130	33.1	88.2	11,200	10,700	10,300	9,900	130
135	29.4	79.8	10,200	9,800	9,400	9,000	135
140	25.1	69.8	9,300	9,000	8,600	8,300	140
145	20.0	57.4	8,400	8,100	7,900	7,600	145



Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 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	166.0	139,000 *				26
28	81.8	165.7	133,400 *	109,800 *			28
30	81.0	165.4	121,600	104,900	90,600 *		30
32	80.3	165.0	110,100	96,000	84,600		32
34	79.6	164.7	100,400	88,300	78,400	70,200	34
36	78.8	164.3	92,200	81,700	73,000	65,700	36
38	78.1	163.8	85,000	75,800	68,200	61,600	38
40	77.4	163.4	78,800	70,700	63,800	58,000	40
45	75.5	162.1	66,300	60,200	54,900	50,200	45
50	73.7	160.7	56,800	52,000	47,800	44,000	50
55	71.8	159.1	49,300	45,500	42,000	39,000	55
60	69.9	157.3	43,300	40,200	37,300	34,700	60
65	68.0	155.3	38,400	35,700	33,300	31,200	65
70	66.0	153.1	34,200	32,000	30,000	28,100	70
75	64.0	150.7	30,700	28,800	27,100	25,400	75
80	62.0	148.1	27,700	26,000	24,500	23,100	80
85	59.9	145.3	25,100	23,600	22,300	21,000	85
90	57.8	142.2	22,700	21,500	20,300	19,200	90
95	55.7	138.8	20,700	19,600	18,500	17,600	95
100	53.5	135.2	18,900	17,900	17,000	16,100	100
105	51.2	131.3	17,200	16,400	15,500	14,700	105
110	48.8	127.0	15,800	15,000	14,200	13,500	110
115	46.4	122.3	14,400	13,700	13,000	12,400	115
120	43.8	117.3	13,200	12,600	12,000	11,400	120
125	41.2	111.7	12,100	11,500	11,000	10,400	125
130	38.3	105.6	11,000	10,500	10,000	9,600	130
135	35.3	98.7	10,100	9,600	9,200	8,800	135
140	32.0	91.1	9,200	8,800	8,400	8,000	140
145	28.4	82.3	8,300	8,000	7,600	7,300	145
150	24.3	71.9	7,600	7,300	6,900	6,600	150
155	19.3	59.1	6,800	6,600	6,300	6,000	155



Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 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	176.1	133,600 *				26
28	82.2	175.8	128,200 *				28
30	81.6	175.5	121,400	102,000 *			30
32	80.9	175.2	109,900	95,100	83,300		32
34	80.2	174.8	100,300	87,500	77,200		34
36	79.5	174.5	92,000	80,900	71,900	64,300	36
38	78.8	174.0	84,900	75,200	67,100	60,400	38
40	78.1	173.6	78,600	70,100	62,900	56,800	40
45	76.4	172.4	66,100	59,600	54,100	49,300	45
50	74.7	171.1	56,600	51,500	47,100	43,200	50
55	72.9	169.6	49,100	45,000	41,400	38,200	55
60	71.1	167.9	43,100	39,700	36,800	34,100	60
65	69.3	166.1	38,100	35,400	32,800	30,500	65
70	67.5	164.0	34,000	31,600	29,500	27,500	70
75	65.7	161.8	30,500	28,500	26,600	24,900	75
80	63.8	159.4	27,400	25,700	24,100	22,600	80
85	61.9	156.8	24,800	23,300	21,900	20,500	85
90	59.9	153.9	22,500	21,200	19,900	18,700	90
95	58.0	150.9	20,500	19,300	18,200	17,100	95
100	55.9	147.5	18,600	17,600	16,600	15,600	100
105	53.9	144.0	17,000	16,100	15,200	14,300	105
110	51.7	140.1	15,500	14,700	13,900	13,100	110
115	49.5	135.9	14,200	13,400	12,700	12,000	115
120	47.3	131.4	12,900	12,300	11,600	11,000	120
125	44.9	126.5	11,800	11,200	10,600	10,100	125
130	42.5	121.2	10,800	10,200	9,700	9,200	130
135	39.9	115.3	9,800	9,300	8,900	8,400	135
140	37.1	108.9	9,000	8,500	8,100	7,600	140
145	34.2	101.8	8,100	7,700	7,300	6,900	145
150	31.0	93.8	7,400	7,000	6,600	6,300	150
155	27.5	84.7	6,600	6,300	6,000	5,700	155
160	23.5	74.0	6,000	5,700	5,400	5,100	160
165	18.7	60.7	5,300	5,100	4,800	4,600	165



Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 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	185.9	122,000 *				28
30	82.0	185.6	117,400 *	95,400 *			30
32	81.4	185.3	109,900	92,700 *			32
34	80.7	185.0	100,100	86,700	76,000		34
36	80.1	184.6	91,900	80,200	70,800		36
38	79.5	184.2	84,700	74,500	66,100	59,100	38
40	78.8	183.8	78,500	69,500	62,000	55,700	40
45	77.2	182.7	65,900	59,100	53,300	48,300	45
50	75.5	181.5	56,300	51,000	46,400	42,300	50
55	73.9	180.1	48,800	44,500	40,800	37,400	55
60	72.2	178.5	42,800	39,300	36,100	33,300	60
65	70.5	176.8	37,800	34,900	32,200	29,800	65
70	68.8	174.9	33,700	31,200	28,900	26,900	70
75	67.1	172.8	30,200	28,000	26,100	24,300	75
80	65.4	170.5	27,100	25,300	23,600	22,000	80
85	63.6	168.1	24,500	22,900	21,400	20,000	85
90	61.8	165.4	22,200	20,700	19,400	18,200	90
95	60.0	162.6	20,100	18,900	17,700	16,600	95
100	58.1	159.5	18,300	17,200	16,100	15,100	100
105	56.2	156.2	16,600	15,600	14,700	13,800	105
110	54.2	152.7	15,200	14,300	13,400	12,600	110
115	52.2	148.9	13,800	13,000	12,200	11,500	115
120	50.2	144.8	12,600	11,900	11,200	10,500	120
125	48.1	140.4	11,500	10,800	10,200	9,600	125
130	45.9	135.6	10,400	9,800	9,300	8,700	130
135	43.6	130.5	9,500	8,900	8,400	7,900	135
140	41.2	124.9	8,600	8,100	7,600	7,200	140
145	38.7	118.8	7,800	7,300	6,900	6,500	145
150	36.0	112.2	7,000	6,600	6,200	5,800	150
155	33.2	104.8	6,300	5,900	5,600	5,200	155
160	30.1	96.5	5,600	5,300	5,000	4,700	160
165	26.7	87.1	5,000	4,700	4,400	4,100	165
170	22.8	76.0	4,400	4,100			170



Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 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	195.7	116,600 *				30
32	81.9	195.4	109,500	90,700 *			32
34	81.2	195.1	99,800	85,700			34
36	80.6	194.8	91,500	79,300	69,500		36
38	80.0	194.4	84,300	73,600	64,900	57,700	38
40	79.4	194.0	78,100	68,600	60,800	54,300	40
45	77.9	193.0	65,500	58,300	52,300	47,100	45
50	76.3	191.8	55,900	50,300	45,500	41,300	50
55	74.8	190.5	48,400	43,900	39,900	36,400	55
60	73.2	189.0	42,300	38,600	35,300	32,400	60
65	71.6	187.4	37,400	34,300	31,500	29,000	65
70	70.0	185.6	33,200	30,600	28,200	26,000	70
75	68.4	183.6	29,700	27,400	25,400	23,500	75
80	66.7	181.5	26,600	24,700	22,900	21,200	80
85	65.1	179.2	24,000	22,300	20,700	19,200	85
90	63.4	176.8	21,700	20,100	18,700	17,400	90
95	61.7	174.1	19,600	18,300	17,000	15,800	95
100	60.0	171.3	17,800	16,600	15,500	14,400	100
105	58.2	168.2	16,100	15,100	14,100	13,100	105
110	56.4	164.9	14,600	13,700	12,800	11,900	110
115	54.5	161.4	13,300	12,400	11,600	10,800	115
120	52.7	157.7	12,100	11,300	10,500	9,800	120
125	50.7	153.7	10,900	10,200	9,600	8,900	125
130	48.7	149.4	9,900	9,300	8,600	8,100	130
135	46.7	144.7	9,000	8,400	7,800	7,300	135
140	44.6	139.8	8,100	7,500	7,000	6,500	140
145	42.3	134.4	7,300	6,800	6,300	5,800	145
150	40.0	128.6	6,500	6,100	5,600	5,200	150
155	37.6	122.3	5,800	5,400	5,000	4,600	155
160	35.0	115.3	5,100	4,700	4,400	4,000	160
165	32.3	107.7	4,500	4,100			165



Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 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	205.8	109,700 *				30
32	82.3	205.5	106,300 *				32
34	81.7	205.2	99,700	83,200 *			34
36	81.1	204.9	91,400	78,600			36
38	80.5	204.6	84,200	73,000	64,000		38
40	79.9	204.2	77,900	68,000	60,000	53,300	40
45	78.5	203.2	65,300	57,800	51,500	46,200	45
50	77.0	202.1	55,700	49,800	44,800	40,500	50
55	75.5	200.8	48,200	43,400	39,300	35,700	55
60	74.0	199.4	42,100	38,200	34,800	31,800	60
65	72.5	197.9	37,100	33,900	31,000	28,400	65
70	71.0	196.2	33,000	30,200	27,700	25,500	70
75	69.5	194.4	29,400	27,100	24,900	23,000	75
80	68.0	192.4	26,400	24,300	22,500	20,700	80
85	66.4	190.2	23,700	21,900	20,300	18,800	85
90	64.8	187.9	21,400	19,800	18,400	17,000	90
95	63.2	185.4	19,400	17,900	16,600	15,400	95
100	61.6	182.8	17,500	16,300	15,100	14,000	100
105	60.0	179.9	15,900	14,800	13,700	12,700	105
110	58.3	176.9	14,400	13,400	12,400	11,500	110
115	56.6	173.6	13,000	12,100	11,300	10,400	115
120	54.8	170.2	11,800	11,000	10,200	9,400	120
125	53.0	166.5	10,700	9,900	9,200	8,500	125
130	51.2	162.5	9,700	9,000	8,300	7,700	130
135	49.3	158.3	8,700	8,100	7,500	6,900	135
140	47.4	153.8	7,800	7,300	6,700	6,200	140
145	45.4	148.9	7,000	6,500	6,000	5,500	145
150	43.4	143.7	6,300	5,800	5,300	4,900	150
155	41.2	138.2	5,500	5,100	4,700	4,300	155
160	39.0	132.1	4,900	4,500	4,100		160
165	36.6	125.6	4,300				165



Liftcrane Boom Capacities

777 SERIES 1

Boom No. 78
105,000 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 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	215.6	105,700 *				32
34	82.1	215.4	99,400				34
36	81.5	215.1	91,100	77,800			36
38	81.0	214.7	83,900	72,300	63,000		38
40	80.4	214.4	77,700	67,400	59,000		40
45	79.0	213.4	65,000	57,200	50,700	45,300	45
50	77.6	212.4	55,400	49,300	44,100	39,700	50
55	76.2	211.2	47,900	43,000	38,700	35,000	55
60	74.8	209.8	41,900	37,800	34,300	31,100	60
65	73.4	208.4	36,900	33,500	30,500	27,800	65
70	72.0	206.8	32,700	29,800	27,300	24,900	70
75	70.5	205.0	29,200	26,700	24,500	22,400	75
80	69.1	203.2	26,100	24,000	22,000	20,200	80
85	67.6	201.1	23,500	21,600	19,900	18,300	85
90	66.1	198.9	21,200	19,500	18,000	16,500	90
95	64.6	196.6	19,100	17,600	16,300	15,000	95
100	63.1	194.1	17,300	16,000	14,700	13,600	100
105	61.5	191.4	15,600	14,400	13,300	12,300	105
110	60.0	188.6	14,100	13,100	12,100	11,100	110
115	58.4	185.5	12,800	11,800	10,900	10,100	115
120	56.7	182.3	11,600	10,700	9,900	9,100	120
125	55.1	178.9	10,500	9,700	8,900	8,200	125
130	53.4	175.2	9,400	8,700	8,000	7,300	130
135	51.7	171.3	8,500	7,800	7,200	6,600	135
140	49.9	167.2	7,600	7,000	6,400	5,800	140
145	48.1	162.8	6,800	6,200	5,700	5,200	145
150	46.2	158.0	6,000	5,500	5,000	4,500	150
155	44.3	153.0	5,300	4,800	4,400		155
160	42.3	147.6	4,700	4,200			160
165	40.2	141.8	4,000				165