

Liftcrane Boom Capacities

Boom No. 82 or 22EL
149,600 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

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 (*). Capacities indicated by (b) require 12,500 Lb. minimum weight.

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.

250 Ft. boom length requires only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point.

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 with gantry up and machine

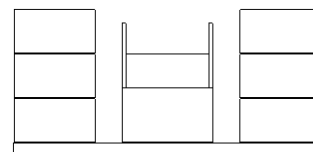
list not to exceed degrees noted. Refer to boom rigging **No. 195459** (No. 82) or **No. 195890** (No. 22EL) and Wire Rope Specification chart **No. 8223-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse 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.

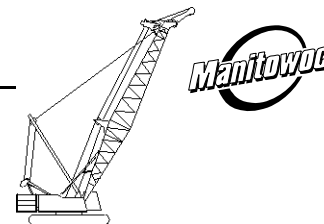
BOOM POINT ELEVATION: Boom point elevation is vertical distance from barge deck to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 28 Ft. 2 in. crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30 Ft. live mast, 20 part boom hoist reeving, boom support straps or four 1-3/8 in. boom pendants and 149,600 Lb. counterweight.

Maximum Boom Lengths Lifted Unassisted		
List	Over End of Blocked Crawlers	Over Side of Crawlers
	Boom Length	Boom Length
0 Degree	(a) 250 Ft.	220 Ft.
1 Degree	240 Ft.	210 Ft.
2 Degree	240 Ft.	210 Ft.
3 Degree	230 Ft.	210 Ft.
Load block, hook and weight ball on barge deck at start. (a) Upper boom point cannot be used on 250 Ft. boom. Jib is not to be used on crawler machine while operating on a barge.		



149,600 Lb. Crane Counterweight
6 Side Boxes - 1 Center Box

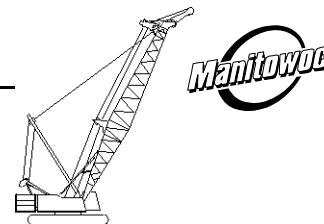


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70 Ft. BOOM							
16	82.8	77.2	451,100 *b				16
17	82.0	77.1	426,600 *b	394,500 *b			17
18	81.1	76.9	404,600 *b	375,500 *b			18
19	80.3	76.7	384,700 *b	358,200 *b	334,900 *b		19
20	79.5	76.5	366,500 *b	342,300 *b	315,300 b	270,800 *b	20
22	77.8	76.0	334,800 *b	300,900 b	270,700 b	245,000 *b	22
24	76.1	75.5	287,500 b	260,000 b	236,800 b	217,100 b	24
26	74.4	74.9	249,800	228,500	210,200	194,200	26
28	72.7	74.2	220,500	203,500	188,600	175,500	28
30	70.9	73.5	197,000	183,200	170,900	159,900	30
32	69.2	72.7	177,800	166,300	156,000	146,700	32
34	67.4	71.8	161,800	152,100	143,400	135,400	34
36	65.6	70.9	148,300	140,000	132,500	125,500	36
38	63.7	69.8	136,700	129,500	123,000	116,900	38
40	61.9	68.7	126,600	120,400	114,700	109,300	40
42	60.0	67.5	117,800	112,300	107,300	102,600	42
44	58.0	66.2	110,000	105,200	100,700	96,500	44
46	56.0	64.8	103,000	98,800	94,800	91,100	46
48	54.0	63.4	96,800	93,100	89,500	86,100	48
50	51.9	61.7	91,200	87,900	84,700	81,600	50
55	46.3	57.1	79,400	76,900	74,400	72,000	55
60	40.1	51.4	69,900	67,900	66,000	64,200	60
65	32.9	44.2	62,100	60,600	59,100	57,700	65
70	23.7	34.1	55,500	54,400	53,300	52,200	70
80 Ft. BOOM							
17	83.0	87.2	425,900 *b				17
18	82.3	87.0	403,900 *b				18
19	81.5	86.9	384,000 *b	354,600 *b			19
20	80.8	86.7	365,900 *b	339,000 *b	306,800 b		20
22	79.3	86.3	334,200 *b	297,200 b	264,400 b	237,400 b	22
24	77.9	85.8	288,000 b	257,200 b	231,800 b	210,500 b	24
26	76.4	85.3	250,200	226,300	206,100	188,800	26
28	74.9	84.7	220,800	201,700	185,300	171,000	28
30	73.4	84.1	197,200	181,600	168,000	156,000	30
32	71.9	83.4	178,000	165,000	153,500	143,300	32
34	70.4	82.7	161,900	151,000	141,200	132,400	34
36	68.8	81.9	148,400	139,000	130,500	122,900	36
38	67.3	81.0	136,700	128,600	121,300	114,500	38
40	65.7	80.0	126,600	119,600	113,100	107,100	40
42	64.1	79.0	117,800	111,600	105,900	100,600	42
44	62.4	78.0	110,000	104,500	99,400	94,700	44
46	60.8	76.8	103,000	98,100	93,600	89,400	46
48	59.1	75.6	96,800	92,400	88,400	84,500	48
50	57.4	74.3	91,200	87,300	83,600	80,100	50
55	52.9	70.6	79,400	76,300	73,400	70,700	55
60	48.2	66.2	69,900	67,500	65,200	63,000	60
65	43.0	61.0	62,100	60,200	58,300	56,600	65
70	37.3	54.8	55,600	54,100	52,600	51,100	70
75	30.6	46.9	50,000	48,800	47,600	46,500	75
80	22.0	36.0	45,200	44,300	43,400	42,500	80

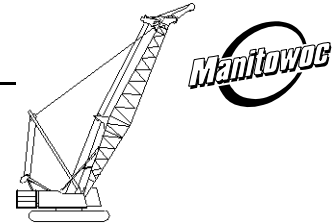


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Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
90 Ft. BOOM							
19	82.5	97.0	383,500 *b				19
20	81.8	96.8	365,400 *b	335,900 *b			20
22	80.5	96.5	333,700 *b	293,600 b	258,200 b		22
24	79.2	96.1	288,400 b	254,400 b	227,000 b	204,400 b	24
26	77.9	95.6	250,500	224,100	202,200	183,800	26
28	76.6	95.1	221,100	199,900	182,000	166,700	28
30	75.3	94.6	197,500	180,200	165,300	152,400	30
32	74.0	94.0	178,200	163,800	151,200	140,200	32
34	72.6	93.3	162,100	149,900	139,100	129,600	34
36	71.3	92.6	148,500	138,000	128,700	120,400	36
38	69.9	91.8	136,800	127,800	119,600	112,300	38
40	68.6	91.0	126,700	118,800	111,600	105,100	40
42	67.2	90.1	117,800	110,900	104,500	98,700	42
44	65.8	89.2	110,000	103,800	98,200	93,000	44
46	64.3	88.2	103,000	97,600	92,500	87,800	46
48	62.9	87.2	96,800	91,900	87,300	83,100	48
50	61.4	86.0	91,200	86,800	82,600	78,800	50
55	57.7	82.9	79,400	75,900	72,600	69,500	55
60	53.8	79.3	69,900	67,100	64,500	62,000	60
65	49.6	75.2	62,100	59,900	57,700	55,700	65
70	45.2	70.4	55,600	53,800	52,000	50,300	70
75	40.4	64.7	50,100	48,600	47,100	45,700	75
80	35.0	57.9	45,300	44,100	42,900	41,700	80
85	28.7	49.4	41,100	40,200	39,200	38,300	85
90	20.7	37.7	37,400	36,700	35,900	35,200	90

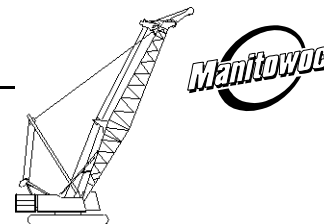


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100 Ft. BOOM							
20	82.7	107.0	365,200 *b				20
22	81.5	106.6	333,500 *b	290,100 b			22
24	80.3	106.3	288,800 b	251,700 b	222,400 b		24
26	79.2	105.9	250,900	222,000	198,500	179,000	26
28	78.0	105.4	221,300	198,200	179,000	162,700	28
30	76.8	104.9	197,700	178,800	162,700	149,000	30
32	75.6	104.4	178,400	162,600	149,000	137,200	32
34	74.4	103.8	162,300	148,900	137,200	127,000	34
36	73.2	103.2	148,600	137,200	127,100	118,100	36
38	72.0	102.5	136,900	127,000	118,200	110,300	38
40	70.8	101.8	126,800	118,100	110,300	103,300	40
42	69.6	101.0	117,900	110,300	103,400	97,100	42
44	68.3	100.2	110,100	103,300	97,100	91,500	44
46	67.1	99.3	103,100	97,100	91,500	86,400	46
48	65.8	98.4	96,900	91,500	86,400	81,800	48
50	64.6	97.4	91,300	86,400	81,800	77,600	50
55	61.3	94.7	79,500	75,600	72,000	68,600	55
60	57.9	91.6	70,000	66,800	63,900	61,100	60
65	54.4	88.1	62,200	59,600	57,200	54,900	65
70	50.8	84.1	55,700	53,600	51,600	49,700	70
75	46.9	79.5	50,200	48,400	46,700	45,100	75
80	42.7	74.3	45,400	44,000	42,600	41,200	80
85	38.2	68.1	41,300	40,100	38,900	37,800	85
90	33.1	60.8	37,700	36,700	35,700	34,700	90
95	27.2	51.7	34,400	33,600	32,800	32,000	95
100	19.5	39.4	31,500	30,900	30,200	29,600	100

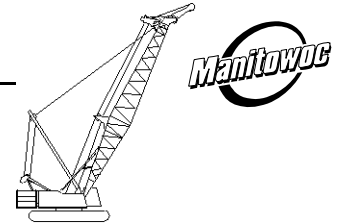


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110 Ft. BOOM							
22	82.3	116.8	332,900 *				22
24	81.2	116.4	289,100	249,000			24
26	80.2	116.1	251,000	219,700	194,700		26
28	79.1	115.7	221,400	196,300	175,800	158,700	28
30	78.0	115.2	197,800	177,200	160,000	145,500	30
32	77.0	114.7	178,400	161,200	146,600	134,200	32
34	75.9	114.2	162,200	147,700	135,200	124,300	34
36	74.8	113.6	148,600	136,100	125,200	115,700	36
38	73.7	113.0	136,900	126,000	116,500	108,100	38
40	72.6	112.4	126,700	117,200	108,800	101,300	40
42	71.5	111.7	117,800	109,400	101,900	95,200	42
44	70.4	110.9	110,000	102,500	95,800	89,800	44
46	69.3	110.2	103,000	96,300	90,300	84,800	46
48	68.2	109.3	96,700	90,800	85,300	80,300	48
50	67.0	108.5	91,100	85,700	80,800	76,200	50
55	64.1	106.1	79,300	75,000	71,000	67,300	55
60	61.2	103.4	69,700	66,300	63,100	60,000	60
65	58.1	100.3	62,000	59,100	56,400	53,900	65
70	55.0	96.8	55,500	53,100	50,900	48,700	70
75	51.7	93.0	49,900	48,000	46,100	44,300	75
80	48.2	88.6	45,200	43,500	41,900	40,400	80
85	44.5	83.6	41,100	39,700	38,300	37,000	85
90	40.6	77.9	37,500	36,300	35,100	34,000	90
95	36.3	71.4	34,300	33,300	32,300	31,300	95
100	31.5	63.6	31,400	30,500	29,700	28,900	100
105	25.8	54.0	28,800	28,100	27,400	26,700	105
110	18.6	40.9	26,400	25,900	25,300	24,800	110

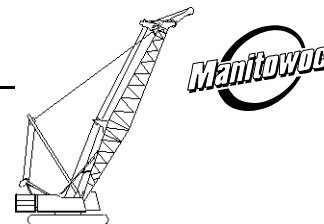


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120 Ft. BOOM							
22	82.9	126.9	324,500 *				22
24	82.0	126.6	289,300	246,200			24
26	81.0	126.2	251,200	217,500	191,100		26
28	80.0	125.9	221,500	194,500	172,800	154,900	28
30	79.1	125.5	197,800	175,600	157,400	142,200	30
32	78.1	125.0	178,400	159,900	144,400	131,300	32
34	77.1	124.5	162,200	146,500	133,200	121,800	34
36	76.1	124.0	148,500	135,000	123,500	113,400	36
38	75.1	123.5	136,800	125,100	114,900	106,000	38
40	74.1	122.9	126,600	116,400	107,400	99,400	40
42	73.1	122.2	117,700	108,700	100,700	93,500	42
44	72.1	121.6	109,900	101,800	94,600	88,200	44
46	71.1	120.9	102,900	95,700	89,200	83,400	46
48	70.1	120.1	96,700	90,200	84,300	79,000	48
50	69.1	119.3	91,000	85,100	79,800	75,000	50
55	66.5	117.2	79,100	74,500	70,200	66,300	55
60	63.8	114.7	69,600	65,900	62,400	59,100	60
65	61.1	112.0	61,800	58,700	55,800	53,100	65
70	58.3	109.0	55,300	52,700	50,300	48,000	70
75	55.4	105.6	49,800	47,600	45,600	43,600	75
80	52.4	101.8	45,100	43,200	41,400	39,800	80
85	49.3	97.5	41,000	39,400	37,900	36,400	85
90	46.0	92.8	37,400	36,000	34,700	33,400	90
95	42.5	87.5	34,200	33,000	31,900	30,800	95
100	38.7	81.4	31,300	30,300	29,300	28,400	100
105	34.6	74.4	28,800	27,900	27,100	26,200	105
110	30.0	66.2	26,500	25,700	25,000	24,300	110
115	24.7	56.1	24,300	23,700	23,100	22,500	115
120	17.7	42.4	22,400	21,900	21,400	20,900	120

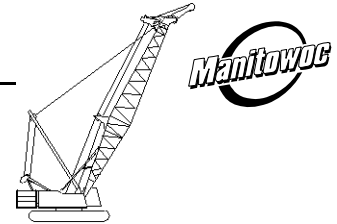


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130 Ft. BOOM							
24	82.6	136.7	289,500				24
26	81.7	136.4	251,300	215,400			26
28	80.8	136.0	221,700	192,800	169,900		28
30	79.9	135.7	197,900	174,200	155,000	139,100	30
32	79.0	135.3	178,500	158,600	142,300	128,600	32
34	78.1	134.8	162,300	145,400	131,300	119,400	34
36	77.2	134.3	148,600	134,100	121,800	111,300	36
38	76.3	133.8	136,800	124,200	113,500	104,100	38
40	75.4	133.3	126,600	115,600	106,100	97,700	40
42	74.5	132.7	117,700	108,000	99,500	91,900	42
44	73.5	132.1	109,900	101,200	93,500	86,800	44
46	72.6	131.5	102,900	95,100	88,200	82,000	46
48	71.7	130.8	96,600	89,600	83,400	77,700	48
50	70.7	130.1	91,000	84,600	79,000	73,800	50
55	68.4	128.1	79,100	74,100	69,500	65,300	55
60	66.0	125.9	69,600	65,500	61,700	58,200	60
65	63.5	123.4	61,800	58,400	55,300	52,300	65
70	61.0	120.7	55,300	52,400	49,800	47,300	70
75	58.4	117.6	49,700	47,300	45,100	43,000	75
80	55.8	114.3	45,000	43,000	41,000	39,200	80
85	53.0	110.6	40,900	39,100	37,500	35,900	85
90	50.2	106.5	37,300	35,800	34,300	32,900	90
95	47.2	101.9	34,100	32,800	31,500	30,300	95
100	44.0	96.8	31,300	30,100	29,000	27,900	100
105	40.7	91.2	28,700	27,700	26,700	25,800	105
110	37.1	84.8	26,400	25,600	24,700	23,900	110
115	33.2	77.4	24,300	23,600	22,800	22,100	115
120	28.8	68.7	22,400	21,800	21,100	20,500	120
125	23.6	58.1	20,700	20,100	19,600	19,000	125
130	17.0	43.8	19,000	18,500	18,100	17,700	130

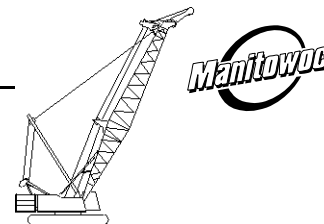


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140 Ft. BOOM							
26	82.3	146.5	251,400				26
28	81.5	146.2	221,700	190,900			28
30	80.6	145.8	197,900	172,600	152,500		30
32	79.8	145.5	178,400	157,300	140,100	125,800	32
34	79.0	145.1	162,200	144,200	129,400	116,900	34
36	78.1	144.6	148,500	133,000	120,100	109,100	36
38	77.3	144.1	136,700	123,300	111,900	102,100	38
40	76.4	143.6	126,500	114,700	104,600	95,900	40
42	75.6	143.1	117,600	107,200	98,200	90,300	42
44	74.7	142.5	109,700	100,400	92,300	85,200	44
46	73.9	141.9	102,700	94,400	87,100	80,600	46
48	73.0	141.3	96,400	89,000	82,300	76,400	48
50	72.2	140.7	90,800	84,000	78,000	72,500	50
55	70.0	138.9	78,900	73,500	68,600	64,200	55
60	67.8	136.8	69,400	65,000	61,000	57,300	60
65	65.5	134.6	61,500	57,900	54,600	51,500	65
70	63.3	132.1	55,000	52,000	49,200	46,500	70
75	60.9	129.3	49,500	46,900	44,500	42,200	75
80	58.5	126.3	44,800	42,600	40,500	38,500	80
85	56.1	123.0	40,700	38,800	36,900	35,200	85
90	53.5	119.3	37,100	35,400	33,800	32,300	90
95	50.9	115.3	33,900	32,400	31,000	29,700	95
100	48.2	110.9	31,100	29,800	28,600	27,400	100
105	45.3	106.1	28,500	27,400	26,300	25,300	105
110	42.3	100.7	26,200	25,200	24,300	23,300	110
115	39.1	94.7	24,200	23,300	22,400	21,600	115
120	35.7	87.9	22,300	21,500	20,700	20,000	120
125	31.9	80.2	20,500	19,800	19,200	18,500	125
130	27.7	71.2	18,900	18,300	17,700	17,200	130
135	22.7	60.1	17,400	16,900	16,400	15,900	135
140	16.3	45.2	16,000	15,600	15,200	14,800	140

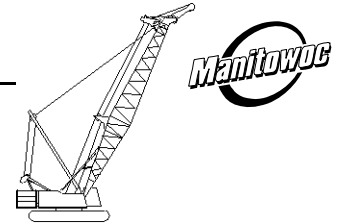


Liftcrane Boom Capacities

Boom No. 82 or 22EL
149,600 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

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							
26	82.8	156.6	251,500				26
28	82.0	156.3	221,700	189,100			28
30	81.3	156.0	197,800	171,000			30
32	80.5	155.6	178,300	155,900	137,800		32
34	79.7	155.3	162,100	143,000	127,400	114,400	34
36	78.9	154.8	148,300	131,900	118,300	106,800	36
38	78.2	154.4	136,500	122,200	110,300	100,100	38
40	77.4	153.9	126,300	113,800	103,100	94,000	40
42	76.6	153.5	117,300	106,300	96,800	88,500	42
44	75.8	152.9	109,500	99,600	91,000	83,600	44
46	75.0	152.4	102,400	93,600	85,900	79,100	46
48	74.2	151.8	96,200	88,200	81,200	74,900	48
50	73.4	151.2	90,500	83,300	76,900	71,200	50
55	71.4	149.5	78,600	72,800	67,600	63,000	55
60	69.4	147.6	69,000	64,300	60,100	56,200	60
65	67.3	145.6	61,200	57,300	53,700	50,500	65
70	65.2	143.3	54,700	51,400	48,400	45,600	70
75	63.0	140.8	49,100	46,400	43,800	41,300	75
80	60.9	138.0	44,400	42,000	39,800	37,700	80
85	58.6	135.0	40,300	38,200	36,300	34,400	85
90	56.3	131.7	36,700	34,900	33,200	31,500	90
95	54.0	128.1	33,500	31,900	30,400	29,000	95
100	51.6	124.2	30,700	29,300	27,900	26,600	100
105	49.1	119.9	28,100	26,900	25,700	24,600	105
110	46.4	115.2	25,800	24,700	23,700	22,700	110
115	43.7	110.1	23,800	22,800	21,800	20,900	115
120	40.8	104.4	21,900	21,000	20,200	19,300	120
125	37.7	98.1	20,100	19,400	18,600	17,900	125
130	34.4	91.0	18,500	17,800	17,200	16,500	130
135	30.8	82.9	17,000	16,400	15,900	15,300	135
140	26.7	73.5	15,700	15,100	14,600	14,100	140
145	21.9	62.0	14,400	13,900	13,500	13,000	145
150	15.7	46.5	13,100	12,800	12,400	12,100	150

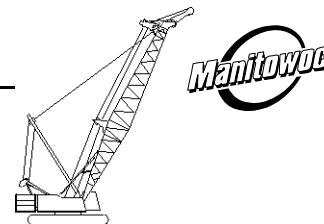


Liftcrane Boom Capacities

Boom No. 82 or 22EL
149,600 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

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							
28	82.5	166.4	221,600				28
30	81.8	166.1	197,700	169,400			30
32	81.1	165.8	178,200	154,500			32
34	80.4	165.4	161,900	141,700	125,500		34
36	79.6	165.1	148,100	130,800	116,600	104,700	36
38	78.9	164.6	136,300	121,200	108,700	98,100	38
40	78.2	164.2	126,100	112,800	101,700	92,200	40
42	77.4	163.7	117,100	105,400	95,400	86,900	42
44	76.7	163.3	109,200	98,800	89,800	82,000	44
46	76.0	162.7	102,200	92,800	84,700	77,600	46
48	75.2	162.2	95,900	87,400	80,100	73,600	48
50	74.5	161.6	90,300	82,600	75,900	69,900	50
55	72.6	160.1	78,300	72,200	66,700	61,900	55
60	70.7	158.3	68,700	63,700	59,300	55,200	60
65	68.8	156.4	60,900	56,800	53,000	49,600	65
70	66.8	154.3	54,400	50,900	47,700	44,700	70
75	64.9	152.0	48,800	45,900	43,100	40,600	75
80	62.9	149.4	44,100	41,500	39,200	36,900	80
85	60.8	146.7	40,000	37,800	35,700	33,700	85
90	58.7	143.6	36,400	34,400	32,600	30,900	90
95	56.6	140.4	33,200	31,500	29,900	28,300	95
100	54.4	136.8	30,400	28,900	27,400	26,000	100
105	52.1	133.0	27,800	26,500	25,200	24,000	105
110	49.8	128.8	25,500	24,300	23,200	22,100	110
115	47.4	124.3	23,500	22,400	21,400	20,400	115
120	44.9	119.3	21,600	20,600	19,700	18,800	120
125	42.2	113.9	19,800	19,000	18,200	17,300	125
130	39.4	108.0	18,300	17,500	16,700	16,000	130
135	36.5	101.4	16,800	16,100	15,400	14,800	135
140	33.3	94.0	15,400	14,800	14,200	13,600	140
145	29.8	85.6	14,100	13,600	13,100	12,500	145
150	25.8	75.7	13,000	12,500	12,000	11,600	150
155	21.2	63.8	11,800	11,400	11,000	10,600	155
160	15.2	47.8	10,800	10,400	10,100	9,700	160

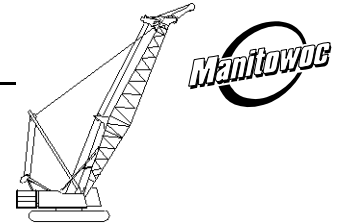


Liftcrane Boom Capacities

Boom No. 82 or 22EL
149,600 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

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							
28	83.0	176.5	221,600				28
30	82.3	176.2	197,700				30
32	81.6	175.9	178,100	153,100			32
34	80.9	175.6	161,800	140,600	123,600		34
36	80.3	175.2	148,000	129,700	114,900		36
38	79.6	174.9	136,200	120,300	107,200	96,300	38
40	78.9	174.4	125,900	112,000	100,300	90,500	40
42	78.2	174.0	117,000	104,600	94,200	85,300	42
44	77.5	173.6	109,100	98,000	88,600	80,600	44
46	76.8	173.1	102,000	92,100	83,600	76,300	46
48	76.1	172.6	95,700	86,800	79,100	72,300	48
50	75.4	172.0	90,100	82,000	74,900	68,700	50
55	73.7	170.6	78,100	71,600	65,900	60,800	55
60	71.9	168.9	68,500	63,200	58,500	54,300	60
65	70.1	167.1	60,700	56,300	52,300	48,700	65
70	68.3	165.2	54,100	50,400	47,100	44,000	70
75	66.4	163.0	48,600	45,500	42,500	39,900	75
80	64.6	160.6	43,900	41,100	38,600	36,300	80
85	62.7	158.1	39,700	37,400	35,200	33,100	85
90	60.8	155.3	36,100	34,100	32,100	30,300	90
95	58.8	152.3	33,000	31,100	29,400	27,800	95
100	56.8	149.1	30,100	28,500	27,000	25,500	100
105	54.7	145.6	27,600	26,100	24,800	23,500	105
110	52.6	141.8	25,300	24,000	22,800	21,600	110
115	50.4	137.7	23,200	22,100	20,900	19,900	115
120	48.2	133.3	21,300	20,300	19,300	18,300	120
125	45.9	128.5	19,600	18,700	17,800	16,900	125
130	43.4	123.3	18,000	17,200	16,400	15,600	130
135	40.9	117.6	16,600	15,800	15,000	14,300	135
140	38.2	111.4	15,200	14,500	13,800	13,200	140
145	35.3	104.5	13,900	13,300	12,700	12,100	145
150	32.2	96.8	12,800	12,200	11,700	11,100	150
155	28.8	88.1	11,700	11,200	10,700	10,200	155
160	25.0	77.9	10,600	10,200	9,800	9,300	160
165	20.5	65.6	9,600	9,300	8,900	8,500	165

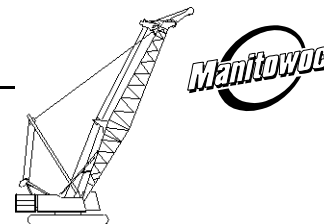


Liftcrane Boom Capacities

Boom No. 82 or 22EL
149,600 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

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							
30	82.7	186.3	197,500				30
32	82.1	186.0	178,000				32
34	81.4	185.7	161,600	139,300			34
36	80.8	185.4	147,800	128,600	113,200		36
38	80.2	185.0	136,000	119,300	105,600		38
40	79.5	184.6	125,700	111,000	98,900	88,800	40
42	78.9	184.2	116,700	103,700	92,900	83,700	42
44	78.2	183.8	108,800	97,200	87,400	79,100	44
46	77.6	183.4	101,800	91,300	82,500	74,900	46
48	76.9	182.9	95,500	86,100	78,000	71,000	48
50	76.2	182.4	89,800	81,300	73,900	67,500	50
55	74.6	181.0	77,800	71,000	65,000	59,700	55
60	72.9	179.5	68,200	62,700	57,700	53,300	60
65	71.2	177.8	60,400	55,700	51,600	47,800	65
70	69.5	175.9	53,800	49,900	46,400	43,100	70
75	67.8	173.9	48,300	44,900	41,900	39,100	75
80	66.1	171.7	43,500	40,700	38,000	35,500	80
85	64.3	169.3	39,400	36,900	34,600	32,400	85
90	62.5	166.8	35,800	33,600	31,500	29,600	90
95	60.7	164.0	32,600	30,700	28,800	27,100	95
100	58.9	161.0	29,800	28,100	26,400	24,900	100
105	57.0	157.8	27,200	25,700	24,200	22,900	105
110	55.0	154.3	25,000	23,600	22,300	21,000	110
115	53.0	150.6	22,900	21,600	20,500	19,300	115
120	51.0	146.6	21,000	19,900	18,800	17,800	120
125	48.9	142.3	19,300	18,300	17,300	16,300	125
130	46.7	137.6	17,700	16,800	15,900	15,000	130
135	44.5	132.6	16,200	15,400	14,600	13,800	135
140	42.1	127.1	14,900	14,100	13,400	12,700	140
145	39.7	121.2	13,600	12,900	12,300	11,600	145
150	37.1	114.7	12,400	11,800	11,200	10,600	150
155	34.3	107.6	11,400	10,800	10,200	9,700	155
160	31.3	99.6	10,300	9,800	9,300	8,800	160
165	28.0	90.6	9,400	8,900	8,500	8,000	165
170	24.3	80.0	8,400	8,000	7,600	7,300	170
175	19.9	67.3	7,600	7,200	6,900	6,500	175

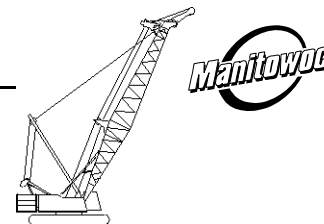


Liftcrane Boom Capacities

Boom No. 82 or 22EL
149,600 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

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							
32	82.5	196.2	177,900				32
34	81.9	195.9	161,500	138,100			34
36	81.3	195.5	147,700	127,500			36
38	80.7	195.2	135,800	118,300	104,100		38
40	80.1	194.8	125,500	110,100	97,500		40
42	79.4	194.4	116,500	102,800	91,600	82,100	42
44	78.8	194.0	108,600	96,400	86,200	77,600	44
46	78.2	193.6	101,500	90,600	81,300	73,400	46
48	77.6	193.2	95,200	85,300	76,900	69,700	48
50	77.0	192.7	89,500	80,500	72,800	66,200	50
55	75.4	191.4	77,500	70,300	64,100	58,600	55
60	73.9	189.9	67,900	62,000	56,800	52,200	60
65	72.3	188.4	60,000	55,100	50,800	46,900	65
70	70.7	186.6	53,400	49,300	45,600	42,200	70
75	69.1	184.7	47,900	44,400	41,200	38,200	75
80	67.4	182.7	43,100	40,100	37,300	34,700	80
85	65.8	180.4	39,000	36,300	33,900	31,600	85
90	64.1	178.0	35,400	33,000	30,900	28,900	90
95	62.4	175.4	32,200	30,100	28,200	26,400	95
100	60.7	172.6	29,300	27,500	25,800	24,200	100
105	58.9	169.6	26,800	25,200	23,600	22,200	105
110	57.1	166.4	24,500	23,000	21,600	20,300	110
115	55.3	163.0	22,400	21,100	19,800	18,600	115
120	53.4	159.3	20,500	19,300	18,200	17,100	120
125	51.5	155.4	18,800	17,700	16,700	15,700	125
130	49.5	151.2	17,200	16,200	15,300	14,400	130
135	47.5	146.7	15,800	14,900	14,000	13,200	135
140	45.4	141.8	14,400	13,600	12,800	12,000	140
145	43.2	136.5	13,200	12,400	11,700	11,000	145
150	40.9	130.9	12,000	11,300	10,700	10,000	150
155	38.5	124.7	10,900	10,300	9,700	9,100	155
160	36.0	118.0	9,900	9,300	8,800	8,200	160
165	33.3	110.6	8,900	8,400	7,900	7,400	165
170	30.4	102.3	8,000	7,600	7,100	6,600	170
175	27.2	93.0	7,200	6,700	6,300	5,900	175
180	23.6	82.1	6,300	6,000	5,600	5,200	180
185	19.4	68.9	5,600	5,200	4,900	4,600	185

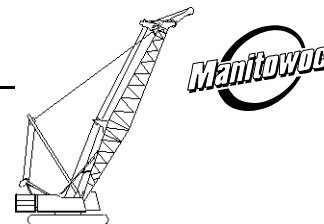


Liftcrane Boom Capacities

Boom No. 82 or 22EL
149,600 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

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							
32	82.9	206.3	177,000 *				32
34	82.3	206.0	161,300				34
36	81.7	205.7	147,400	126,400			36
38	81.1	205.3	135,600	117,200			38
40	80.6	205.0	125,300	109,100	96,100		40
42	80.0	204.6	116,200	101,900	90,200	77,500 *	42
44	79.4	204.2	108,300	95,500	85,000	76,100	44
46	78.8	203.8	101,200	89,700	80,200	72,100	46
48	78.2	203.4	94,900	84,500	75,800	68,300	48
50	77.6	203.0	89,200	79,800	71,800	64,900	50
55	76.2	201.7	77,200	69,600	63,100	57,500	55
60	74.7	200.4	67,500	61,400	56,000	51,200	60
65	73.2	198.9	59,700	54,500	50,000	45,900	65
70	71.7	197.2	53,100	48,800	44,900	41,400	70
75	70.2	195.4	47,500	43,800	40,500	37,400	75
80	68.6	193.5	42,800	39,600	36,600	34,000	80
85	67.1	191.4	38,600	35,800	33,300	30,900	85
90	65.5	189.1	35,000	32,500	30,300	28,200	90
95	63.9	186.7	31,800	29,600	27,600	25,700	95
100	62.3	184.1	29,000	27,000	25,200	23,500	100
105	60.6	181.3	26,400	24,700	23,100	21,500	105
110	59.0	178.3	24,100	22,600	21,100	19,700	110
115	57.3	175.1	22,100	20,600	19,300	18,000	115
120	55.5	171.7	20,200	18,900	17,700	16,500	120
125	53.8	168.1	18,400	17,300	16,200	15,100	125
130	52.0	164.2	16,900	15,800	14,800	13,800	130
135	50.1	160.1	15,400	14,400	13,500	12,600	135
140	48.2	155.6	14,000	13,200	12,300	11,500	140
145	46.2	150.9	12,800	12,000	11,200	10,400	145
150	44.2	145.8	11,600	10,900	10,200	9,500	150
155	42.1	140.4	10,500	9,900	9,200	8,600	155
160	39.8	134.5	9,500	8,900	8,300	7,700	160
165	37.5	128.1	8,600	8,000	7,400	6,900	165
170	35.1	121.1	7,700	7,100	6,600	6,100	170
175	32.4	113.4	6,800	6,300	5,900	5,400	175
180	29.6	104.9	6,000	5,600	5,200	4,700	180
185	26.5	95.3	5,200	4,800	4,500	4,100	185
190	23.0	84.1	4,500	4,200			190

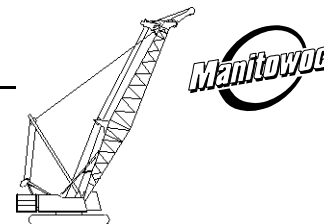


Liftcrane Boom Capacities

Boom No. 82 or 22EL
149,600 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

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							
34	82.7	216.1	161,100				34
36	82.1	215.8	147,200				36
38	81.6	215.5	135,300	116,200			38
40	81.0	215.1	125,000	108,200	87,700 *		40
42	80.5	214.8	116,000	101,100	87,600 *		42
44	79.9	214.4	108,000	94,700	83,800	68,200 *	44
46	79.4	214.0	101,000	89,000	79,100	68,100 *	46
48	78.8	213.6	94,600	83,800	74,800	67,100	48
50	78.2	213.2	88,900	79,100	70,800	63,800	50
55	76.8	212.0	76,900	69,000	62,300	56,400	55
60	75.4	210.8	67,200	60,800	55,200	50,300	60
65	74.0	209.3	59,400	54,000	49,300	45,100	65
70	72.6	207.8	52,800	48,300	44,200	40,600	70
75	71.1	206.1	47,200	43,300	39,800	36,700	75
80	69.7	204.2	42,400	39,100	36,000	33,300	80
85	68.2	202.2	38,300	35,400	32,700	30,200	85
90	66.7	200.1	34,700	32,100	29,700	27,500	90
95	65.2	197.8	31,500	29,200	27,100	25,100	95
100	63.7	195.4	28,600	26,600	24,700	22,900	100
105	62.2	192.7	26,100	24,300	22,600	21,000	105
110	60.6	189.9	23,800	22,200	20,600	19,200	110
115	59.0	187.0	21,700	20,200	18,800	17,500	115
120	57.4	183.8	19,800	18,500	17,200	16,000	120
125	55.8	180.4	18,100	16,900	15,700	14,600	125
130	54.1	176.8	16,500	15,400	14,300	13,300	130
135	52.4	173.0	15,100	14,000	13,100	12,100	135
140	50.6	168.9	13,700	12,800	11,900	11,000	140
145	48.8	164.6	12,500	11,600	10,800	10,000	145
150	46.9	160.0	11,300	10,500	9,700	9,000	150
155	45.0	155.1	10,200	9,500	8,800	8,100	155
160	43.0	149.8	9,200	8,500	7,900	7,200	160
165	41.0	144.1	8,200	7,600	7,000	6,400	165
170	38.8	138.0	7,300	6,800	6,200	5,700	170
175	36.6	131.4	6,500	6,000	5,500	5,000	175
180	34.2	124.2	5,700	5,200	4,700	4,300	180
185	31.6	116.3	4,900	4,500	4,100		185
190	28.9	107.5	4,200				190

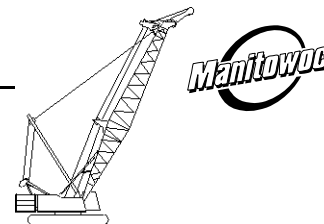


Liftcrane Boom Capacities

Boom No. 82 or 22EL
149,600 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

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
220 Ft. BOOM							
34	83.0	226.2	155,100 *				34
36	82.5	225.9	147,000				36
38	82.0	225.6	135,100	105,900 *			38
40	81.4	225.3	124,800	105,700 *			40
42	80.9	224.9	115,700	100,200	78,100 *		42
44	80.4	224.6	107,700	93,900	78,000 *		44
46	79.8	224.2	100,700	88,200	77,800 *	60,200 *	46
48	79.3	223.8	94,300	83,000	73,700	60,100 *	48
50	78.8	223.4	88,600	78,400	69,800	60,000 *	50
55	77.5	222.3	76,500	68,400	61,400	55,300	55
60	76.1	221.1	66,900	60,200	54,400	49,300	60
65	74.8	219.7	59,000	53,400	48,500	44,200	65
70	73.4	218.3	52,400	47,700	43,500	39,700	70
75	72.0	216.6	46,800	42,800	39,200	35,900	75
80	70.7	214.9	42,100	38,600	35,400	32,500	80
85	69.3	213.0	37,900	34,900	32,100	29,500	85
90	67.9	211.0	34,300	31,600	29,100	26,800	90
95	66.4	208.8	31,100	28,700	26,500	24,500	95
100	65.0	206.5	28,200	26,100	24,100	22,300	100
105	63.6	204.0	25,700	23,800	22,000	20,300	105
110	62.1	201.4	23,400	21,700	20,100	18,500	110
115	60.6	198.6	21,300	19,800	18,300	16,900	115
120	59.1	195.6	19,400	18,000	16,700	15,400	120
125	57.5	192.5	17,700	16,400	15,200	14,000	125
130	56.0	189.1	16,100	14,900	13,800	12,700	130
135	54.4	185.6	14,700	13,600	12,500	11,600	135
140	52.7	181.8	13,300	12,300	11,400	10,500	140
145	51.1	177.8	12,100	11,100	10,300	9,400	145
150	49.4	173.5	10,900	10,000	9,200	8,500	150
155	47.6	169.0	9,800	9,000	8,300	7,600	155
160	45.8	164.2	8,800	8,100	7,400	6,700	160
165	43.9	159.1	7,800	7,200	6,500	5,900	165
170	42.0	153.6	6,900	6,300	5,700	5,200	170
175	40.0	147.7	6,100	5,500	5,000	4,500	175
180	37.9	141.4	5,300	4,800	4,300		180
185	35.7	134.6	4,600	4,100			185

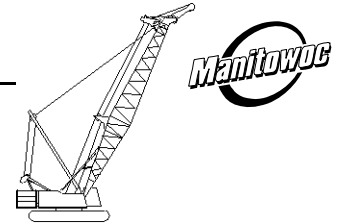


Liftcrane Boom Capacities

Boom No. 82 or 22EL
149,600 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

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
230 Ft. BOOM							
36	82.8	236.0	139,300 *				36
38	82.3	235.7	134,800				38
40	81.8	235.4	124,500	94,500 *			40
42	81.3	235.1	115,400	94,300 *			42
44	80.8	234.7	107,400	93,000	69,100 *		44
46	80.3	234.4	100,300	87,400	69,000 *		46
48	79.8	234.0	94,000	82,300	68,800 *	52,700 *	48
50	79.3	233.6	88,300	77,600	68,700 *	52,600 *	50
55	78.0	232.6	76,200	67,600	60,400	52,400 *	55
60	76.7	231.4	66,500	59,500	53,500	48,300	60
65	75.4	230.1	58,600	52,800	47,700	43,200	65
70	74.1	228.7	52,000	47,100	42,700	38,800	70
75	72.8	227.2	46,400	42,200	38,400	35,000	75
80	71.5	225.5	41,600	38,000	34,700	31,700	80
85	70.2	223.7	37,500	34,300	31,400	28,700	85
90	68.9	221.8	33,800	31,000	28,400	26,100	90
95	67.5	219.7	30,600	28,100	25,800	23,700	95
100	66.2	217.5	27,800	25,500	23,500	21,600	100
105	64.8	215.2	25,200	23,200	21,300	19,600	105
110	63.4	212.7	22,900	21,100	19,400	17,800	110
115	62.0	210.1	20,800	19,200	17,700	16,200	115
120	60.6	207.3	18,900	17,400	16,000	14,700	120
125	59.1	204.3	17,200	15,800	14,600	13,400	125
130	57.6	201.1	15,600	14,400	13,200	12,100	130
135	56.1	197.8	14,200	13,000	11,900	10,900	135
140	54.6	194.3	12,800	11,800	10,800	9,800	140
145	53.1	190.6	11,600	10,600	9,700	8,800	145
150	51.5	186.6	10,400	9,500	8,600	7,800	150
155	49.9	182.4	9,300	8,500	7,700	6,900	155
160	48.2	178.0	8,300	7,500	6,800	6,100	160
165	46.5	173.3	7,300	6,600	5,900	5,300	165
170	44.7	168.3	6,400	5,800	5,200	4,500	170
175	42.9	163.0	5,600	5,000	4,400		175
180	41.0	157.3	4,800	4,200			180
185	39.1	151.3	4,100				185

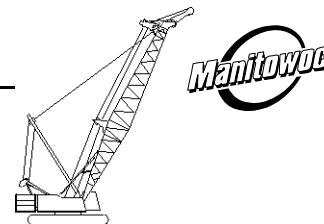


Liftcrane Boom Capacities

Boom No. 82 or 22EL
149,600 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

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	Oper. Radius Feet
240 Ft. BOOM						
38	82.6	245.8	126,300 *			38
40	82.2	245.5	124,200			40
42	81.7	245.2	115,100	85,000 *		42
44	81.2	244.9	107,100	84,800 *		44
46	80.7	244.6	100,000	84,600 *	61,600 *	46
48	80.2	244.2	93,600	81,500	61,500 *	48
50	79.7	243.8	87,900	76,900	61,300 *	50
55	78.5	242.8	75,800	66,900	59,500	55
60	77.3	241.7	66,100	58,900	52,700	60
65	76.1	240.5	58,200	52,100	46,900	65
70	74.8	239.1	51,600	46,500	42,000	70
75	73.6	237.6	46,000	41,600	37,700	75
80	72.3	236.1	41,200	37,400	34,000	80
85	71.1	234.4	37,100	33,700	30,700	85
90	69.8	232.5	33,400	30,500	27,800	90
95	68.5	230.6	30,200	27,600	25,200	95
100	67.2	228.5	27,400	25,000	22,900	100
105	65.9	226.3	24,800	22,700	20,800	105
110	64.6	223.9	22,500	20,600	18,800	110
115	63.3	221.4	20,400	18,700	17,100	115
120	61.9	218.7	18,500	17,000	15,500	120
125	60.5	215.9	16,800	15,400	14,000	125
130	59.2	213.0	15,200	13,900	12,700	130
135	57.7	209.8	13,700	12,500	11,400	135
140	56.3	206.5	12,400	11,300	10,200	140
145	54.9	203.0	11,100	10,100	9,100	145
150	53.4	199.3	10,000	9,000	8,100	150
155	51.9	195.4	8,900	8,000	7,200	155
160	50.3	191.3	7,900	7,000	6,300	160
165	48.7	187.0	6,900	6,200	5,400	165
170	47.1	182.4	6,000	5,300	4,600	170
175	45.4	177.5	5,200	4,500		175
180	43.7	172.3	4,400			180



Liftcrane Boom Capacities

Boom No. 82 or 22EL
149,600 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds
250 Ft. BOOM			
38	82.9	255.9	114,500 *
40	82.5	255.6	114,100 *
42	82.0	255.3	113,800 *
44	81.5	255.0	107,500
46	81.1	254.7	100,400
48	80.6	254.4	94,000
50	80.1	254.0	88,300
55	79.0	253.0	76,200
60	77.8	252.0	66,500
65	76.6	250.8	58,600
70	75.4	249.5	52,000
75	74.3	248.1	46,400
80	73.1	246.6	41,600
85	71.9	244.9	37,400
90	70.6	243.2	33,800
95	69.4	241.3	30,600
100	68.2	239.3	27,700
105	66.9	237.2	25,100
110	65.7	235.0	22,800
115	64.4	232.6	20,800
120	63.1	230.1	18,900
125	61.8	227.4	17,100
130	60.5	224.6	15,500
135	59.2	221.6	14,100
140	57.8	218.5	12,700
145	56.5	215.2	11,500
150	55.1	211.7	10,300
155	53.6	208.1	9,200
160	52.2	204.2	8,200
165	50.7	200.2	7,300
170	49.2	195.9	6,400
175	47.7	191.4	5,500
180	46.1	186.6	4,700
185	44.5	181.6	4,000