



Liftcrane Boom Extended Upper Point Capacities

Boom No. 58 HL with 23.0 ft Extended
Upper Boom Point
224,000 lb Crane Counterweight
0 lb Carbody Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Static Machine List
No Travel - 360 Degree Rating - Two Swing Drives



16000 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 (*).

Upper boom point (upper sheave) capacity for liftcrane service with single part whip line is 30,000 lb. In all cases, upper boom point capacities cannot exceed those listed for extended upper boom point (lower sheave) capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath upper boom point sheaves, is considered part of extended upper boom point 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 machine list not to exceed degrees noted. Refer to boom rigging **No. A10415**, Wire Rope Specification chart **No. 8674-B**, Counterweight Arrangement chart **No. 8682-A** and Wind Conditions chart **No. 8688-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 Operator's 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: Boom angle in degrees ($^{\circ}$) 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.

EXTENDED UPPER BOOM POINT ELEVATION: Extended upper boom point elevation is vertical distance from barge deck to centerline of extended upper boom point (lower sheave) shaft.

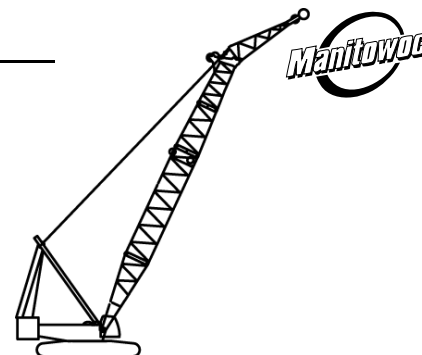
MACHINE EQUIPMENT: Machine equipped with two swing drives, 34 ft crawlers, 60 in. treads, 32 ft live mast, 26 part boom hoist reeving, boom support straps, 224,000 lb crane counterweight, and 0 lb carbody counterweight.

Maximum Boom Lengths Lifted Unassisted		
List	Over End of Blocked Crawlers	Over Side of Crawlers
	Boom Length	Boom Length
0 Degree	236.2 ft	216.5 ft
1 Degree	236.2 ft	216.5 ft
2 Degree	236.2 ft	216.5 ft
3 Degree	236.2 ft	216.5 ft
Load block, hook and weight ball on barge deck at start.		

Lower boom point must be removed when extended upper boom point is attached.

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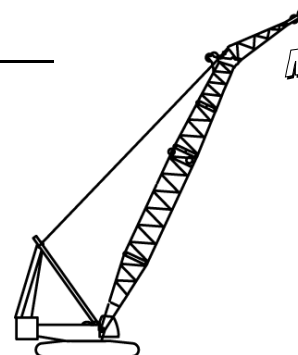
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
137.8 ft							
45	80.5	164.0	215,200 *	191,600 *	182,400 *		45
50	78.7	162.6	213,900	191,600 *	179,900	156,000 *	50
55	76.8	161.1	185,200	171,000	158,300	147,000	55
60	74.9	159.4	162,600	151,100	140,800	131,400	60
65	73.0	157.4	144,200	134,800	126,200	118,300	65
70	71.0	155.3	129,000	121,200	113,900	107,200	70
75	69.1	153.0	116,200	109,600	103,400	97,700	75
80	67.1	150.5	105,300	99,700	94,300	89,300	80
85	65.0	147.7	95,900	91,000	86,400	82,000	85
90	62.9	144.7	87,700	83,500	79,400	75,500	90
95	60.8	141.4	80,500	76,800	73,200	69,800	95
100	58.6	137.9	74,100	70,800	67,600	64,600	100
105	56.4	134.1	68,300	65,400	62,600	59,900	105
110	54.0	129.9	63,100	60,600	58,000	55,600	110
115	51.6	125.4	58,500	56,200	53,900	51,700	115
120	49.1	120.5	54,200	52,200	50,100	48,200	120
125	46.5	115.1	50,300	48,500	46,700	44,900	125
130	43.7	109.2	46,700	45,100	43,500	41,900	130
135	40.8	102.6	43,400	41,900	40,500	39,100	135
140	37.6	95.2	40,300	39,000	37,700	36,500	140



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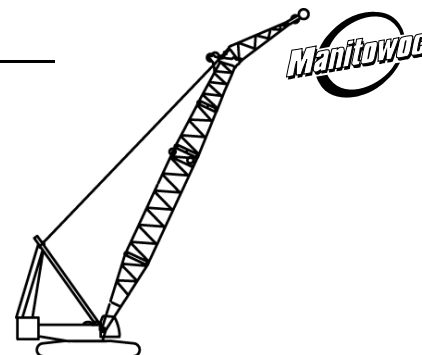
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Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
157.5 ft							
45	81.6	184.2	215,200 *	198,100 *			45
50	79.9	183.0	213,600	193,400	176,000	149,900 *	50
55	78.3	181.6	184,800	169,000	155,000	142,700	55
60	76.6	180.1	162,100	149,300	137,800	127,600	60
65	74.9	178.4	143,600	133,100	123,500	114,900	65
70	73.2	176.6	128,300	119,500	111,400	104,100	70
75	71.5	174.5	115,500	108,000	101,100	94,800	75
80	69.8	172.3	104,500	98,100	92,200	86,600	80
85	68.0	169.9	95,100	89,500	84,300	79,500	85
90	66.2	167.4	86,800	82,000	77,400	73,100	90
95	64.4	164.6	79,600	75,300	71,300	67,500	95
100	62.6	161.6	73,100	69,400	65,800	62,400	100
105	60.7	158.4	67,400	64,000	60,800	57,800	105
110	58.7	154.9	62,200	59,200	56,300	53,600	110
115	56.7	151.2	57,500	54,900	52,200	49,800	115
120	54.7	147.2	53,300	50,900	48,500	46,300	120
125	52.6	142.9	49,400	47,200	45,100	43,000	125
130	50.4	138.2	45,800	43,900	41,900	40,100	130
135	48.2	133.2	42,500	40,800	39,000	37,300	135
140	45.8	127.7	39,500	37,900	36,300	34,700	140
145	43.3	121.8	36,600	35,200	33,800	32,400	145
150	40.7	115.3	34,000	32,700	31,400	30,100	150
155	37.9	108.2	31,500	30,300	29,200	28,000	155

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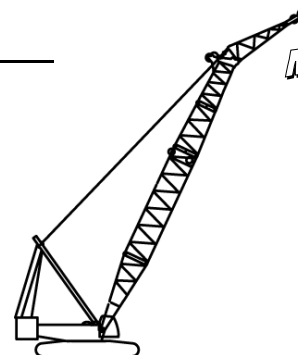
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177.2 ft							
45	82.4	204.3	215,200 *				45
50	81.0	203.2	213,500	191,300	170,800 *		50
55	79.5	202.0	184,600	167,100	151,900	138,700	55
60	78.0	200.6	161,700	147,600	135,100	124,200	60
65	76.5	199.1	143,200	131,600	121,100	111,900	65
70	75.0	197.5	127,900	118,100	109,300	101,300	70
75	73.5	195.7	115,000	106,700	99,100	92,300	75
80	71.9	193.7	104,000	96,900	90,300	84,300	80
85	70.4	191.6	94,500	88,400	82,600	77,300	85
90	68.8	189.3	86,300	80,900	75,800	71,100	90
95	67.2	186.9	79,000	74,200	69,700	65,600	95
100	65.6	184.3	72,500	68,300	64,300	60,600	100
105	63.9	181.5	66,800	63,000	59,400	56,000	105
110	62.2	178.5	61,600	58,200	55,000	51,900	110
115	60.5	175.3	56,900	53,900	51,000	48,200	115
120	58.8	171.9	52,600	49,900	47,300	44,700	120
125	57.0	168.2	48,800	46,300	43,900	41,600	125
130	55.2	164.4	45,200	43,000	40,800	38,700	130
135	53.3	160.2	41,900	39,900	37,900	35,900	135
140	51.4	155.8	38,900	37,000	35,200	33,400	140
145	49.4	151.0	36,100	34,400	32,700	31,100	145
150	47.4	145.9	33,500	31,900	30,400	28,900	150
155	45.3	140.4	31,000	29,600	28,200	26,800	155
160	43.0	134.5	28,700	27,400	26,100	24,900	160
165	40.7	128.1	26,600	25,400	24,200	23,000	165
170	38.2	121.0	24,500	23,500	22,400	21,300	170
175	35.6	113.3	22,600	21,600	20,700	19,700	175



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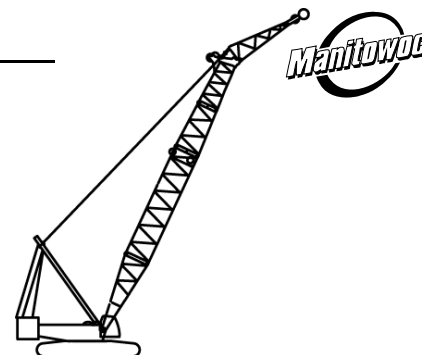
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Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
196.9 ft							
50	81.8	223.3	213,100	188,900			50
55	80.4	222.2	184,100	164,900	148,600		55
60	79.1	221.0	161,100	145,600	132,100	120,400	60
65	77.7	219.6	142,400	129,700	118,400	108,500	65
70	76.4	218.1	127,000	116,300	106,800	98,200	70
75	75.0	216.5	114,100	105,000	96,800	89,400	75
80	73.6	214.8	103,000	95,200	88,100	81,600	80
85	72.2	212.9	93,500	86,700	80,400	74,700	85
90	70.8	210.8	85,200	79,300	73,700	68,600	90
95	69.4	208.7	77,900	72,600	67,700	63,200	95
100	67.9	206.3	71,400	66,700	62,300	58,300	100
105	66.5	203.9	65,600	61,500	57,500	53,800	105
110	65.0	201.2	60,400	56,700	53,100	49,800	110
115	63.5	198.4	55,700	52,400	49,100	46,100	115
120	62.0	195.4	51,500	48,400	45,500	42,700	120
125	60.4	192.2	47,600	44,800	42,100	39,600	125
130	58.9	188.9	44,000	41,500	39,000	36,700	130
135	57.3	185.3	40,700	38,400	36,100	34,000	135
140	55.6	181.5	37,700	35,600	33,500	31,500	140
145	53.9	177.5	34,800	32,900	31,000	29,200	145
150	52.2	173.2	32,200	30,500	28,700	27,000	150
155	50.4	168.6	29,800	28,200	26,500	25,000	155
160	48.6	163.8	27,500	26,000	24,500	23,100	160
165	46.8	158.6	25,400	24,000	22,600	21,300	165
170	44.8	153.1	23,400	22,100	20,800	19,600	170
175	42.8	147.2	21,500	20,300	19,100	18,000	175
180	40.7	140.8	19,700	18,600	17,500	16,400	180
185	38.4	133.9	18,000	17,000	16,000	15,000	185
190	36.1	126.4	16,400	15,500	14,500	13,600	190

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216.5 ft							
50	82.5	243.4	212,800				50
55	81.2	242.3	183,600	162,900			55
60	80.0	241.2	160,500	143,800	129,400	117,000	60
65	78.8	240.0	141,800	128,000	115,900	105,400	65
70	77.5	238.6	126,400	114,800	104,500	95,400	70
75	76.3	237.1	113,400	103,500	94,600	86,800	75
80	75.0	235.6	102,300	93,800	86,100	79,200	80
85	73.8	233.8	92,700	85,300	78,600	72,500	85
90	72.5	232.0	84,400	77,900	71,900	66,500	90
95	71.2	230.0	77,100	71,300	66,000	61,100	95
100	69.9	227.9	70,600	65,500	60,700	56,300	100
105	68.6	225.7	64,800	60,200	55,900	51,900	105
110	67.3	223.3	59,600	55,400	51,600	48,000	110
115	65.9	220.8	54,800	51,100	47,600	44,300	115
120	64.5	218.1	50,600	47,200	44,000	41,000	120
125	63.2	215.3	46,700	43,600	40,700	37,900	125
130	61.8	212.3	43,100	40,300	37,600	35,100	130
135	60.4	209.2	39,800	37,200	34,800	32,400	135
140	58.9	205.8	36,800	34,400	32,100	30,000	140
145	57.4	202.3	33,900	31,800	29,700	27,700	145
150	56.0	198.6	31,300	29,300	27,400	25,500	150
155	54.4	194.7	28,900	27,100	25,300	23,500	155
160	52.9	190.5	26,600	24,900	23,200	21,600	160
165	51.3	186.1	24,500	22,900	21,400	19,900	165
170	49.6	181.5	22,500	21,000	19,600	18,200	170
175	48.0	176.6	20,600	19,200	17,900	16,600	175
180	46.2	171.4	18,800	17,600	16,300	15,100	180
185	44.4	165.8	17,100	16,000	14,800	13,700	185
190	42.6	159.9	15,500	14,500	13,400	12,300	190
195	40.6	153.5	14,000	13,000	12,000	11,000	195
200	38.6	146.7	12,600	11,700	10,700	9,800	200
205	36.5	139.4	11,200	10,400	9,500	8,600	205



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236.2 ft							
55	81.9	262.4	183,000	160,700			55
60	80.8	261.4	159,800	141,700	126,400		60
65	79.7	260.2	141,000	126,100	113,200	102,100	65
70	78.5	259.0	125,500	112,900	101,900	92,300	70
75	77.4	257.6	112,400	101,700	92,200	83,900	75
80	76.2	256.2	101,300	92,000	83,800	76,400	80
85	75.0	254.6	91,700	83,600	76,400	69,900	85
90	73.9	252.9	83,300	76,200	69,800	64,000	90
95	72.7	251.1	75,900	69,700	63,900	58,700	95
100	71.5	249.2	69,400	63,800	58,700	54,000	100
105	70.3	247.2	63,500	58,600	53,900	49,700	105
110	69.1	245.0	58,300	53,800	49,600	45,800	110
115	67.9	242.7	53,600	49,500	45,700	42,200	115
120	66.7	240.3	49,300	45,600	42,100	38,900	120
125	65.4	237.8	45,300	42,000	38,800	35,800	125
130	64.2	235.1	41,700	38,700	35,800	33,000	130
135	62.9	232.2	38,400	35,600	32,900	30,400	135
140	61.6	229.2	35,400	32,800	30,300	28,000	140
145	60.3	226.1	32,600	30,200	27,900	25,700	145
150	59.0	222.8	30,000	27,800	25,600	23,600	150
155	57.6	219.3	27,500	25,500	23,500	21,600	155
160	56.2	215.7	25,200	23,300	21,500	19,700	160
165	54.8	211.8	23,100	21,300	19,600	18,000	165
170	53.4	207.8	21,100	19,500	17,900	16,300	170
175	52.0	203.5	19,200	17,700	16,200	14,800	175
180	50.5	199.1	17,400	16,000	14,600	13,300	180
185	48.9	194.3	15,800	14,400	13,100	11,900	185
190	47.4	189.3	14,200	12,900	11,700	10,500	190
195	45.8	184.1	12,700	11,500	10,400	9,300	195
200	44.1	178.5	11,200	10,200	9,100	8,100	200
205	42.4	172.6	9,900	8,900	7,900		205
210	40.6	166.3	8,600	7,600			210
215	38.8	159.5	7,300				215