


Liftcrane Boom Capacities

Boom No. B10:350
75,200 lb Crane Counterweight
0 lb Carbody Counterweight
360 Degree Rating

MLC150-1 SERIES 1

 **LIFTING CAPACITIES:** Lifting capacities for various boom lengths and operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components. Capacities must be reduced by applicable deducts.

Upper boom point capacity for liftcrane service with single part whip line from Drum 3 is 20,000 lb or 40,000 lb with two part whip line. When Drum 1 or Drum 2 is used, capacity with single part whip line is 29,600 lb or 59,200 lb 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 and jib point sheaves is considered part of 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, level, and uniformly supporting surface. Refer to Boom Rigging No. 80117858, Wire Rope Specifications chart No. 9834-A, Counterweight Arrangements chart No. 9828-A, and Wind Conditions chart No. 9833-A. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to the Operator Manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level, and uniformly supporting surface. Boom must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specifications chart No. 9832-A.



OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.



BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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

MACHINE EQUIPMENT: Machine equipped with 26 ft 2 in. crawlers, 48 in. treads, 17 ft 5 in. gantry, load drums 1 and 2, 10 part boom hoist reeving, boom straps, 75,200 lb crane counterweight, 0 lb carbody counterweight.

Consult chart No. 9837-A when Jib No. 134 is attached.

Upper Boom Point Deduct	
Deduct 1,200 lb from capacities when upper boom point is attached. Deduct does not apply to 49.2 ft boom length.	

Third Line Deduct	
Deduct 400 lb from capacities when boom top is equipped with optional 3rd sheave wire rope guide.	

Deduct From Capacities When Jib No. 134 Is Attached			
Jib Length (ft)	Jib Offset Angle		
	5°	15°	25°
Deduct (lb)			
30.0	5,000	5,500	6,600
40.0	5,700	7,000	8,500
50.0	6,500	8,500	10,600
60.0	7,500	10,100	12,700
70.0	8,200	11,300	14,500
80.0	8,900	12,700	16,600

Weight of jib and 2,000 lb suspended beneath jib point have been included in determination of deduct.

Refer to Table 1 for raising ability with the maximum weight of all load blocks, hooks, weight ball, slings, and hoist lines beneath boom point sheaves. For block weights shown with #, load blocks, hooks, weight ball, and slings must remain on ground until combined weights are within rated capacity of chart. Raising is not permitted in shaded areas of table.


Combined weight beneath boom point sheaves must not exceed block weight shown.

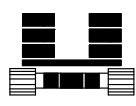
Table 1


Boom Length (ft)	Over End or Side of Crawlers	Over End of Blocked Crawlers
	Block Weight (lb)	
49.2 - 147.6	7,700	7,700
157.5	6,500	7,700
167.3	4,800	6,900
177.2	3,200	5,500
187.0	1,900	4,300
196.9	#	3,000
206.7		1,600
216.5		#
<p>Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. <i>Crane tipping or structural damage can occur.</i></p>		


REFERENCE ONLY!


Explanation of Symbols


B10  Boom No. B10:350


 Crane Counterweight
+
Carbody Counterweight


 360° 360 Degree Rating

 Boom Length

 Operating Radius
(see page 1)

 Boom Angle
(see page 1)

 Boom Point Elevation
(see page 1)

 Lifting Capacities
(see page 1)

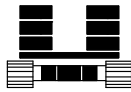
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MLC150-1 S-1

ASME B30.5



B10



75,200 lb
+
0 lb



360°

49.2 ft

ft	°	ft	lb
14	80.4	55.2	322,500
15	79.2	55.0	302,700
16	78.0	54.8	285,100
17	76.8	54.5	269,500
18	75.6	54.2	255,400
19	74.4	53.9	242,600
20	73.2	53.6	223,500
22	70.7	52.8	187,500
24	68.2	52.0	161,200
26	65.6	51.1	141,200
28	63.0	50.0	125,400
30	60.3	48.8	112,600
32	57.5	47.5	102,000
34	54.6	46.1	93,200
36	51.6	44.4	85,700
38	48.5	42.6	79,200
40	45.2	40.6	73,500
42	41.6	38.3	68,500
44	37.8	35.7	64,100
46	33.6	32.7	60,200
48	28.8	29.1	56,700
49	26.1	27.0	55,000

59.1 ft

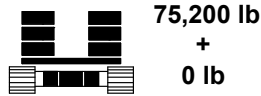
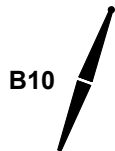
ft	°	ft	lb
16	80.1	64.8	285,500
17	79.1	64.6	269,800
18	78.1	64.4	255,800
19	77.1	64.1	243,000
20	76.1	63.9	224,700
22	74.0	63.3	188,600
24	72.0	62.6	162,200
26	69.9	61.8	142,100
28	67.8	61.0	126,300
30	65.7	60.1	113,500
32	63.5	59.0	102,900
34	61.3	57.9	94,100
36	59.0	56.7	86,500
38	56.6	55.3	80,000
40	54.2	53.8	74,400
42	51.7	52.2	69,400
44	49.2	50.5	65,000
46	46.5	48.6	61,100
48	43.6	46.4	57,500
50	40.6	44.1	54,400
55	32.1	36.8	47,600
58	25.7	31.0	44,200

68.9 ft

ft	°	ft	lb
18	79.8	74.5	255,500
19	79.0	74.3	242,800
20	78.1	74.0	224,900
22	76.4	73.5	188,800
24	74.7	73.0	162,400
26	72.9	72.3	142,200
28	71.1	71.6	126,400
30	69.4	70.8	113,600
32	67.6	70.0	103,000
34	65.7	69.0	94,100
36	63.9	68.0	86,600
38	62.0	66.9	80,100
40	60.0	65.8	74,400
42	58.1	64.5	69,400
44	56.0	63.1	65,000
46	54.0	61.6	61,100
48	51.8	60.0	57,600
50	49.7	58.3	54,400
55	43.8	53.4	47,600
60	37.2	47.2	42,200
65	29.3	39.1	37,700
67	25.4	34.9	36,200

MLC150-1 S-1

ASME B30.5



78.7 ft

ft	o	ft	lb
19	80.4	84.3	242,400
20	79.6	84.1	225,100
22	78.1	83.7	188,900
24	76.6	83.2	162,400
26	75.1	82.6	142,300
28	73.6	82.0	126,400
30	72.1	81.3	113,500
32	70.5	80.6	102,900
34	68.9	79.8	94,000
36	67.4	79.0	86,500
38	65.8	78.0	80,000
40	64.1	77.0	74,300
42	62.5	76.0	69,300
44	60.8	74.8	64,900
46	59.1	73.6	61,000
48	57.4	72.3	57,400
50	55.6	70.9	54,200
55	51.0	67.0	47,500
60	46.0	62.4	42,100
65	40.6	56.8	37,600
70	34.4	50.0	33,800
75	27.0	41.1	30,600
76	25.2	38.9	30,100

88.6 ft

ft	o	ft	lb
21	80.1	94.0	205,500
22	79.5	93.8	188,900
24	78.1	93.3	162,400
26	76.8	92.8	142,200
28	75.5	92.3	126,300
30	74.1	91.7	113,400
32	72.8	91.1	102,800
34	71.4	90.4	93,900
36	70.0	89.6	86,400
38	68.6	88.8	79,900
40	67.2	88.0	74,200
42	65.8	87.0	69,200
44	64.3	86.1	64,800
46	62.9	85.0	60,800
48	61.4	83.9	57,300
50	59.9	82.7	54,100
55	56.0	79.4	47,400
60	52.0	75.7	41,900
65	47.7	71.3	37,400
70	43.0	66.1	33,700
75	37.9	60.0	30,500
80	32.1	52.5	27,800
85	25.1	42.9	25,400

98.4 ft

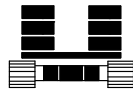
ft	o	ft	lb
23	79.9	103.6	174,700
24	79.3	103.4	162,400
26	78.2	102.9	142,100
28	77.0	102.5	126,200
30	75.8	101.9	113,300
32	74.5	101.4	102,700
34	73.3	100.8	93,800
36	72.1	100.1	86,200
38	70.9	99.4	79,700
40	69.6	98.6	74,000
42	68.4	97.8	69,000
44	67.1	96.9	64,600
46	65.8	96.0	60,600
48	64.5	95.1	57,100
50	63.2	94.0	53,900
55	59.9	91.2	47,100
60	56.4	88.0	41,700
65	52.8	84.3	37,200
70	49.0	80.0	33,500
75	44.9	75.2	30,300
80	40.5	69.6	27,500
85	35.7	62.9	25,200
90	30.2	54.9	23,100
93	26.4	49.1	21,900

MLC150-1 S-1

ASME B30.5



B10



75,200 lb
+
0 lb



360°

108.3 ft

ft	°	ft	lb
24	80.3	113.4	162,400
26	79.2	113.0	142,100
28	78.2	112.6	126,200
30	77.1	112.1	113,300
32	76.0	111.6	102,600
34	74.9	111.0	93,700
36	73.8	110.4	86,100
38	72.7	109.8	79,600
40	71.6	109.1	73,900
42	70.4	108.4	68,900
44	69.3	107.6	64,500
46	68.1	106.8	60,500
48	67.0	105.9	57,000
50	65.8	105.0	53,800
55	62.9	102.5	47,000
60	59.8	99.7	41,600
65	56.7	96.5	37,100
70	53.4	92.8	33,400
75	50.0	88.8	30,200
80	46.4	84.1	27,400
85	42.5	78.9	25,100
90	38.4	72.8	23,000
95	33.8	65.7	21,100
100	28.5	57.1	19,500
102	26.1	53.1	18,900

118.1 ft

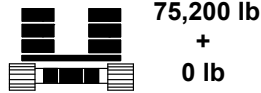
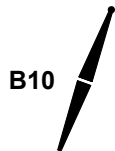
ft	°	ft	lb
26	80.2	123.1	142,000
28	79.2	122.7	126,000
30	78.2	122.2	113,100
32	77.2	121.8	102,500
34	76.2	121.2	93,500
36	75.2	120.7	85,900
38	74.2	120.1	79,400
40	73.1	119.5	73,700
42	72.1	118.8	68,700
44	71.1	118.1	64,200
46	70.1	117.4	60,300
48	69.0	116.6	56,700
50	68.0	115.8	53,500
55	65.3	113.5	46,700
60	62.6	111.0	41,300
65	59.8	108.2	36,800
70	56.9	105.0	33,100
75	53.9	101.4	29,900
80	50.8	97.4	27,100
85	47.6	93.0	24,800
90	44.2	88.0	22,700
95	40.5	82.3	20,800
100	36.5	75.8	19,200
105	32.1	68.3	17,700
110	27.1	59.1	16,400
111	26.0	57.0	16,100

128.0 ft

ft	°	ft	lb
27	80.5	132.9	133,400
28	80.0	132.7	125,900
30	79.1	132.3	112,900
32	78.2	131.9	102,300
34	77.3	131.4	93,300
36	76.3	130.9	85,700
38	75.4	130.4	79,100
40	74.5	129.8	73,400
42	73.5	129.2	68,400
44	72.6	128.6	64,000
46	71.7	127.9	60,000
48	70.7	127.2	56,500
50	69.8	126.4	53,300
55	67.3	124.4	46,500
60	64.9	122.1	41,000
65	62.4	119.5	36,500
70	59.8	116.6	32,800
75	57.1	113.5	29,600
80	54.4	109.9	26,900
85	51.6	106.1	24,500
90	48.6	101.8	22,400
95	45.5	97.0	20,600
100	42.2	91.6	18,900
105	38.7	85.6	17,500
110	34.9	78.7	16,100
115	30.7	70.7	14,900
120	25.8	61.0	13,800

MLC150-1 S-1

ASME B30.5



137.8 ft

ft	o	ft	lb
29	80.3	142.5	118,900
30	79.9	142.3	112,800
32	79.0	141.9	102,100
34	78.2	141.5	93,100
36	77.3	141.0	85,500
38	76.5	140.5	78,900
40	75.6	140.0	73,200
42	74.8	139.5	68,200
44	73.9	138.9	63,700
46	73.0	138.2	59,800
48	72.1	137.6	56,200
50	71.3	136.9	53,000
55	69.0	135.0	46,200
60	66.8	132.9	40,700
65	64.5	130.6	36,200
70	62.1	128.0	32,500
75	59.8	125.1	29,300
80	57.3	122.0	26,600
85	54.8	118.5	24,200
90	52.2	114.7	22,100
95	49.4	110.5	20,200
100	46.6	105.9	18,600
105	43.6	100.8	17,100
110	40.5	95.1	15,800
115	37.1	88.7	14,600
120	33.4	81.4	13,500
125	29.4	73.0	12,500
129	25.7	65.0	11,700

147.6 ft

ft	o	ft	lb
31	80.2	152.2	107,000
32	79.8	152.0	101,900
34	79.0	151.6	92,900
36	78.2	151.1	85,300
38	77.4	150.7	78,700
40	76.6	150.2	73,000
42	75.8	149.7	68,000
44	75.0	149.1	63,500
46	74.2	148.5	59,600
48	73.4	147.9	56,000
50	72.6	147.3	52,800
55	70.5	145.6	46,000
60	68.4	143.6	40,500
65	66.3	141.5	36,000
70	64.2	139.1	32,300
75	62.0	136.5	29,100
80	59.7	133.6	26,300
85	57.4	130.4	24,000
90	55.1	127.0	21,900
95	52.7	123.3	20,000
100	50.2	119.2	18,400
105	47.6	114.7	16,900
110	44.8	109.8	15,600
115	42.0	104.4	14,400
120	38.9	98.3	13,300
125	35.7	91.6	12,300
130	32.1	84.0	11,300
135	28.2	75.1	10,500
138	25.5	69.0	10,000

157.5 ft

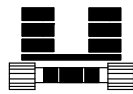
ft	o	ft	lb
32	80.4	162.0	101,700
34	79.7	161.6	92,700
36	78.9	161.2	85,100
38	78.2	160.8	78,500
40	77.5	160.3	72,800
42	76.7	159.8	67,700
44	76.0	159.3	63,300
46	75.2	158.8	59,300
48	74.4	158.2	55,700
50	73.7	157.6	52,500
55	71.8	156.0	45,700
60	69.8	154.2	40,200
65	67.9	152.2	35,700
70	65.9	150.0	32,000
75	63.9	147.6	28,800
80	61.8	144.9	26,000
85	59.7	142.1	23,600
90	57.6	138.9	21,500
95	55.4	135.5	19,700
100	53.1	131.8	18,100
105	50.8	127.8	16,600
110	48.4	123.5	15,200
115	45.9	118.7	14,000
120	43.2	113.5	12,900
125	40.5	107.8	11,900
130	37.5	101.5	11,000
135	34.4	94.4	10,100
140	31.0	86.4	9,400
145	27.1	77.2	8,600
147	25.4	73.0	8,300

MLC150-1 S-1

ASME B30.5



B10



75,200 lb
+
0 lb



360°

167.3 ft

ft	o	ft	lb
34	80.3	171.6	92,500
36	79.6	171.2	84,800
38	78.9	170.8	78,200
40	78.2	170.4	72,500
42	77.5	170.0	67,500
44	76.8	169.5	63,000
46	76.1	169.0	59,000
48	75.4	168.4	55,400
50	74.7	167.9	52,200
55	72.9	166.4	45,400
60	71.1	164.7	39,900
65	69.3	162.8	35,400
70	67.4	160.8	31,600
75	65.5	158.5	28,500
80	63.6	156.1	25,700
85	61.7	153.4	23,300
90	59.7	150.5	21,200
95	57.7	147.4	19,400
100	55.6	144.1	17,700
105	53.5	140.4	16,300
110	51.3	136.5	14,900
115	49.1	132.2	13,700
120	46.7	127.6	12,600
125	44.3	122.6	11,600
130	41.8	117.1	10,700
135	39.1	111.1	9,800
140	36.3	104.5	9,100
145	33.2	97.1	8,300
150	29.9	88.8	7,600
155	26.2	79.1	7,000
156	25.3	77.0	6,900

177.2 ft

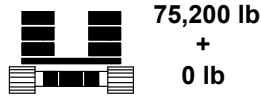
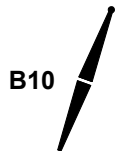
ft	o	ft	lb
36	80.2	181.3	84,600
38	79.5	180.9	78,000
40	78.9	180.5	72,200
42	78.2	180.0	67,200
44	77.5	179.6	62,700
46	76.9	179.1	58,700
48	76.2	178.6	55,200
50	75.5	178.1	51,900
55	73.9	176.7	45,100
60	72.2	175.1	39,600
65	70.5	173.3	35,100
70	68.7	171.4	31,300
75	67.0	169.3	28,100
80	65.2	167.0	25,400
85	63.4	164.6	23,000
90	61.6	161.9	20,900
95	59.7	159.0	19,000
100	57.8	155.9	17,400
105	55.8	152.6	15,900
110	53.8	149.0	14,600
115	51.8	145.1	13,400
120	49.7	140.9	12,300
125	47.5	136.4	11,300
130	45.3	131.6	10,300
135	42.9	126.3	9,500
140	40.5	120.6	8,700
145	37.9	114.3	8,000
150	35.1	107.4	7,300
155	32.1	99.7	6,600
160	28.9	91.0	6,000
165	25.3	81.0	5,500

187.0 ft

ft	o	ft	lb
37	80.4	191.1	80,900
38	80.1	190.9	77,800
40	79.5	190.5	72,000
42	78.8	190.1	66,900
44	78.2	189.7	62,500
46	77.6	189.2	58,500
48	77.0	188.8	54,900
50	76.3	188.3	51,700
55	74.7	186.9	44,800
60	73.1	185.4	39,300
65	71.5	183.8	34,800
70	69.9	182.0	31,100
75	68.3	180.0	27,900
80	66.6	177.9	25,100
85	64.9	175.6	22,700
90	63.2	173.1	20,600
95	61.4	170.4	18,800
100	59.7	167.5	17,100
105	57.9	164.4	15,600
110	56.0	161.1	14,300
115	54.2	157.5	13,100
120	52.2	153.7	12,000
125	50.2	149.6	11,000
130	48.2	145.2	10,100
135	46.1	140.5	9,200
140	43.9	135.4	8,400
145	41.6	129.9	7,700
150	39.2	123.9	7,000
155	36.7	117.3	6,400
160	34.0	110.1	5,800
165	31.1	102.2	5,200
170	28.0	93.1	4,700
174	25.2	84.9	4,300

MLC150-1 S-1

ASME B30.5



196.9 ft

ft	o	ft	lb
39	80.3	200.7	74,500
40	80.0	200.5	71,800
42	79.4	200.2	66,700
44	78.8	199.7	62,200
46	78.2	199.3	58,200
48	77.6	198.9	54,600
50	77.0	198.4	51,400
55	75.5	197.1	44,500
60	74.0	195.7	39,000
65	72.5	194.2	34,500
70	70.9	192.5	30,700
75	69.4	190.6	27,500
80	67.8	188.6	24,800
85	66.2	186.4	22,400
90	64.6	184.1	20,300
95	63.0	181.6	18,400
100	61.3	178.9	16,800
105	59.7	176.0	15,300
110	58.0	172.9	14,000
115	56.2	169.6	12,700
120	54.4	166.0	11,600
125	52.6	162.3	10,600
130	50.7	158.3	9,700
135	48.8	153.9	8,900
140	46.8	149.3	8,100
145	44.8	144.4	7,300
150	42.7	139.0	6,700
155	40.4	133.3	6,000
160	38.1	127.1	5,400
165	35.7	120.3	4,900
170	33.1	112.8	4,300
175	30.2	104.5	3,800
180	27.2	95.2	3,200

206.7 ft

ft	o	ft	lb
40	80.5	210.5	71,500
42	79.9	210.2	66,400
44	79.4	209.8	61,900
46	78.8	209.4	57,900
48	78.2	209.0	54,300
50	77.7	208.5	51,100
55	76.2	207.3	44,200
60	74.8	206.0	38,700
65	73.3	204.5	34,200
70	71.9	202.9	30,400
75	70.4	201.1	27,200
80	68.9	199.2	24,400
85	67.4	197.2	22,000
90	65.9	195.0	19,900
95	64.4	192.6	18,100
100	62.8	190.1	16,400
105	61.3	187.3	15,000
110	59.7	184.4	13,600
115	58.0	181.4	12,400
120	56.4	178.1	11,300
125	54.7	174.6	10,300
130	53.0	170.9	9,400
135	51.2	166.9	8,500
140	49.4	162.7	7,700
145	47.5	158.1	7,000
150	45.6	153.3	6,300
155	43.6	148.2	5,700
160	41.5	142.6	5,100
165	39.4	136.6	4,500
170	37.1	130.2	4,000
175	34.7	123.1	3,400

216.5 ft

ft	o	ft	lb
42	80.4	220.2	66,100
44	79.8	219.8	61,600
46	79.3	219.4	57,600
48	78.8	219.0	54,000
50	78.2	218.6	50,800
55	76.9	217.4	43,900
60	75.5	216.2	38,400
65	74.1	214.8	33,900
70	72.7	213.2	30,100
75	71.3	211.6	26,900
80	69.9	209.8	24,100
85	68.5	207.8	21,700
90	67.1	205.7	19,600
95	65.6	203.5	17,700
100	64.2	201.1	16,100
105	62.7	198.5	14,600
110	61.2	195.8	13,300
115	59.7	192.9	12,000
120	58.1	189.8	10,900
125	56.5	186.6	9,900
130	54.9	183.1	9,000
135	53.3	179.4	8,200
140	51.6	175.5	7,400
145	49.9	171.3	6,600
150	48.1	166.9	6,000
155	46.3	162.2	5,300
160	44.4	157.2	4,700
165	42.5	151.8	4,100
170	40.4	146.0	3,500