

# Liftcrane Boom Capacities

**Boom No. B10:76A**  
**114,600 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**

## MLC200 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 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 1 or Drum 2 is 31,500 lb or 60,000 lb with two part whip line. When Drum 3 is used, capacity with single part whip line is 20,000 lb or 40,000 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.

**BOOM BACKWARD STABILITY:** Capacities indicated by (b) require 10,000 lb minimum weight. **Caution: Do not operate in areas indicated by (b) without required minimum weight. Boom may not lower and boom hoist wire rope may go slack causing wire rope damage or failure.**

**OPERATING CONDITIONS:** Machine to operate on a firm and uniformly supporting surface with gantry up and machine list not to exceed degrees noted. Refer to Boom Rigging **No. 80149429**, Wire Rope Specifications chart **No. A018-A**, Counterweight Arrangements chart **No. A004-A**, and Wind Conditions chart **No. A017-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 the Operator Manual for operating guidelines.

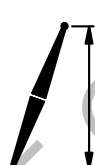
**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation at barge deck to center of vertical hoist line or load block.



**BOOM ANGLE:** Boom angle in degrees (°) 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 27 ft 2 in. crawlers, 48 in. treads, 10 ft 3 in. retractable gantry, 27 ft live mast, 20 part boom hoist reeving, and boom support straps.

Consult chart **No. A038-A** when Jib No. 134 is attached.

Deduct From Capacities When Jib No. 134 Is Attached			
Jib Length (ft)	Jib Offset Angle		
	5°	15°	25°
Deduct (lb)			
30.0	5,800	6,300	7,500
40.0	6,600	7,800	9,500
50.0	7,400	9,300	11,600
60.0	8,200	10,800	13,600
70.0	8,900	12,000	15,400
80.0	9,800	13,200	17,400

Weight of jib and 3,000 lb suspended beneath jib point have been included in determination of deduct.

Upper Boom Point Deduct
Deduct 1,100 lb from capacities when upper boom point is attached.

Refer to Tables 1 and 2 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 barge deck until combined weights are within rated capacity of chart. For boom lengths shown with (a), upper boom point must be removed. Raising is not permitted in shaded areas of table.

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

**Table 1**

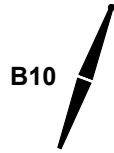
Over End or Side of Crawlers					
Boom Length (ft)	Maximum Number of Lower Boom Point Sheaves	Machine List			
		0°	1°	2°	3°
		Block Weight (lb)			
65.6 - 144.4	7	8,000	8,000	8,000	8,000
154.2	7	8,000	7,500	7,500	7,500
164.0	7	6,000	5,300	5,300	5,300
173.9	7	3,800	3,200	3,200	3,200
183.7	7	#	#	#	#
193.6	7	#	#	#	#
203.4	7	<b>Raising Not Permitted</b>			
213.3	7				
223.1 (a)	7				

**Table 2**

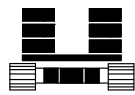
Over End of Blocked Crawlers					
Boom Length (ft)	Maximum Number of Lower Boom Point Sheaves	Machine List			
		0°	1°	2°	3°
		Block Weight (lb)			
65.6 - 144.4	7	8,000	8,000	8,000	8,000
154.2	7	8,000	8,000	8,000	8,000
164.0	7	7,000	6,200	6,200	6,200
173.9	7	5,300	4,500	4,500	4,500
183.7	7	4,200	4,000	4,000	4,000
193.6	7	3,600	3,000	3,000	3,000
203.4	7	#	#	#	#
213.3	7	#	#	#	#
223.1 (a)	7	#	<b>Raising Not Permitted</b>		

**Warning:** Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. Crane tipping or structural damage can occur.

## Explanation of Symbols



Boom No. B10:76A



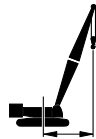
Crane Counterweight  
+  
Carbody Counterweight



360 Degree Rating



Boom Length



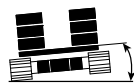
Operating Radius  
(see page 1)



Boom Angle  
(see page 1)



Boom Point Elevation  
(see page 1)



Machine List

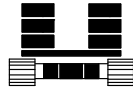


Lifting Capacities  
(see page 1)

# MLC200 S-1



B10



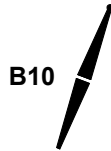
114,600 lb  
+  
0 lb



360°

ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	
15	83.2	72.9	369,600 b					15
16	82.3	72.7	348,300 b					16
17	81.4	72.5	329,200 b	308,600 b				17
18	80.5	72.3	312,000 b	293,400 b	276,800 b			18
19	79.7	72.1	296,500 b	279,600 b	264,500 b	244,300b		19
20	78.8	71.9	282,400 b	267,000 b	251,100 b	226,500b		20
21	77.9	71.6	269,600 b	255,500 b	232,500 b	211,100b		21
22	77.0	71.4	257,800 b	238,400 b	216,300 b	197,500b		22
23	76.1	71.1	244,400 b	221,500 b	202,100 b	185,500b		23
24	75.1	70.8	226,700	206,700	189,600	174,800		24
25	74.2	70.5	211,300	193,700	178,500	165,300		25
26	73.3	70.2	197,800	182,200	168,600	156,600		26
27	72.4	69.8	185,800	171,800	159,600	148,800		27
28	71.5	69.5	175,100	162,600	151,500	141,600		28
29	70.5	69.1	165,500	154,200	144,100	135,100		29
30	69.6	68.7	156,800	146,500	137,400	129,100		30
31	68.6	68.3	148,900	139,600	131,200	123,600		31
32	67.7	67.8	141,700	133,200	125,500	118,500		32
33	66.7	67.4	135,200	127,400	120,300	113,800		33
34	65.8	66.9	129,200	122,000	115,400	109,400		34
36	63.8	65.8	118,500	112,300	106,700	101,400		36
38	61.8	64.7	109,300	104,000	99,000	94,500		38
40	59.8	63.5	101,300	96,700	92,400	88,300		40
42	57.7	62.2	94,200	90,200	86,400	82,900		42
44	55.5	60.8	88,000	84,500	81,100	78,000		44
46	53.3	59.3	82,500	79,300	76,400	73,500		46
48	51.1	57.6	77,500	74,700	72,100	69,500		48
50	48.7	55.8	73,000	70,600	68,200	65,900		50
55	42.4	50.5	63,500	61,600	59,800	58,100		55
60	35.1	43.8	55,800	54,400	53,000	51,700		60
65	25.9	34.6	49,500	48,400	47,400	46,400		65
68	18.3	26.5	46,100	45,300	44,500	43,700		68

# MLC200 S-1

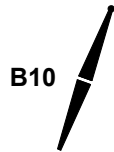


**114,600 lb**  
 +  
**0 lb**



 <b>75.5 ft</b>								
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	
17	82.6	82.5	328,800 b					17
18	81.8	82.3	311,600 b	290,500 b				18
19	81.0	82.2	296,100 b	276,900 b				19
20	80.3	82.0	282,000 b	264,500 b	244,600 b			20
21	79.5	81.7	269,200 b	253,200 b	226,800 b	203,900b		21
22	78.7	81.5	257,400 b	235,600 b	211,300 b	191,100b		22
23	77.9	81.3	244,800 b	219,100 b	197,800 b	179,800b		23
24	77.1	81.0	227,100	204,600	185,700	169,700		24
25	76.3	80.8	211,600	191,800	175,000	160,600		25
26	75.6	80.5	198,100	180,500	165,400	152,400		26
27	74.8	80.2	186,000	170,300	156,700	144,900		27
28	74.0	79.9	175,300	161,200	148,900	138,100		28
29	73.2	79.5	165,700	152,900	141,700	131,800		29
30	72.4	79.2	157,000	145,400	135,200	126,100		30
31	71.6	78.8	149,100	138,500	129,100	120,700		31
32	70.8	78.5	141,900	132,200	123,600	115,800		32
33	69.9	78.1	135,300	126,400	118,500	111,300		33
34	69.1	77.7	129,300	121,100	113,700	107,000		34
36	67.5	76.8	118,600	111,600	105,200	99,400		36
38	65.8	75.9	109,400	103,300	97,700	92,600		38
40	64.1	74.9	101,400	96,100	91,200	86,600		40
42	62.4	73.8	94,300	89,700	85,300	81,300		42
44	60.6	72.6	88,100	84,000	80,100	76,500		44
46	58.8	71.4	82,600	78,900	75,500	72,200		46
48	57.0	70.0	77,600	74,300	71,200	68,300		48
50	55.1	68.6	73,100	70,200	67,400	64,800		50
55	50.2	64.5	63,600	61,300	59,200	57,100		55
60	44.9	59.7	56,000	54,200	52,500	50,800		60
65	39.1	53.8	49,700	48,300	46,900	45,600		65
70	32.3	46.4	44,400	43,300	42,200	41,200		70
75	23.7	36.2	39,800	39,000	38,200	37,400		75
78	16.5	27.2	37,400	36,700	36,100	35,400		78

# MLC200 S-1

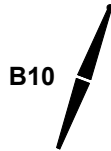


**114,600 lb**  
 +  
**0 lb**



 <b>85.3 ft</b>								
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	
18	82.8	92.3	311,400				18	
19	82.1	92.1	295,900				19	
20	81.4	92.0	281,900	262,300			20	
21	80.7	91.8	269,000	251,100	221,400		21	
22	80.0	91.6	257,200	232,900	206,600		22	
23	79.3	91.4	245,200	216,700	193,600	174,500	23	
24	78.6	91.2	227,400	202,500	182,000	164,900	24	
25	78.0	90.9	212,000	190,000	171,700	156,300	25	
26	77.3	90.7	198,400	178,800	162,400	148,400	26	
27	76.6	90.4	186,300	168,800	154,000	141,300	27	
28	75.9	90.1	175,600	159,800	146,400	134,800	28	
29	75.2	89.9	165,900	151,700	139,400	128,800	29	
30	74.5	89.6	157,200	144,300	133,100	123,200	30	
31	73.8	89.2	149,300	137,500	127,200	118,100	31	
32	73.1	88.9	142,100	131,300	121,800	113,400	32	
33	72.4	88.6	135,500	125,600	116,800	109,000	33	
34	71.6	88.2	129,500	120,300	112,200	104,900	34	
36	70.2	87.5	118,800	110,900	103,800	97,500	36	
38	68.8	86.7	109,500	102,700	96,500	90,900	38	
40	67.3	85.8	101,500	95,500	90,100	85,100	40	
42	65.8	84.9	94,500	89,200	84,400	80,000	42	
44	64.3	83.9	88,300	83,600	79,300	75,300	44	
46	62.8	82.8	82,700	78,500	74,700	71,100	46	
48	61.3	81.7	77,700	74,000	70,500	67,300	48	
50	59.7	80.5	73,300	69,900	66,800	63,800	50	
55	55.6	77.1	63,800	61,100	58,600	56,300	55	
60	51.4	73.2	56,100	54,000	52,000	50,100	60	
65	46.8	68.6	49,900	48,200	46,600	45,000	65	
70	41.9	63.3	44,600	43,200	41,900	40,600	70	
75	36.4	56.8	40,100	39,000	37,900	36,900	75	
80	30.0	48.7	36,200	35,400	34,500	33,700	80	
85	21.9	37.7	32,800	32,200	31,500	30,800	85	
87	17.6	31.6	31,600	31,000	30,400	29,800	87	

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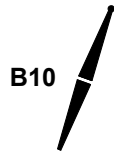


114,600 lb  
+  
0 lb



ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
19	82.9	102.1	295,400				19
20	82.3	102.0	281,400				20
21	81.7	101.8	268,500	248,300			21
22	81.1	101.6	256,700	230,000			22
23	80.5	101.4	245,400	214,200	189,400		23
24	79.8	101.2	227,600	200,300	178,300	160,200	24
25	79.2	101.0	212,100	188,000	168,300	152,000	25
26	78.6	100.8	198,500	177,000	159,300	144,500	26
27	78.0	100.6	186,400	167,200	151,200	137,600	27
28	77.4	100.3	175,600	158,300	143,800	131,400	28
29	76.8	100.1	165,900	150,300	137,000	125,600	29
30	76.1	99.8	157,200	143,000	130,800	120,300	30
31	75.5	99.5	149,300	136,300	125,100	115,400	31
32	74.9	99.2	142,100	130,200	119,900	110,800	32
33	74.2	98.9	135,500	124,500	115,000	106,600	33
34	73.6	98.6	129,400	119,300	110,500	102,600	34
36	72.3	98.0	118,700	110,000	102,300	95,400	36
38	71.1	97.2	109,400	101,900	95,100	89,100	38
40	69.8	96.5	101,400	94,800	88,800	83,400	40
42	68.5	95.7	94,300	88,500	83,200	78,400	42
44	67.2	94.8	88,100	82,900	78,200	73,900	44
46	65.8	93.9	82,600	77,900	73,700	69,700	46
48	64.5	92.9	77,600	73,400	69,600	66,000	48
50	63.1	91.8	73,100	69,300	65,800	62,600	50
55	59.7	88.9	63,600	60,600	57,900	55,200	55
60	56.1	85.6	56,000	53,600	51,300	49,200	60
65	52.3	81.8	49,700	47,700	45,900	44,100	65
70	48.3	77.5	44,400	42,800	41,300	39,800	70
75	44.0	72.4	40,000	38,700	37,400	36,200	75
80	39.4	66.6	36,100	35,000	34,000	32,900	80
85	34.2	59.5	32,800	31,900	31,000	30,100	85
90	28.1	50.8	29,800	29,100	28,400	27,700	90
95	20.3	38.9	27,100	26,600	26,000	25,500	95
97	16.2	32.3	26,100	25,600	25,100	24,600	97

# MLC200 S-1



**114,600 lb**  
 +  
**0 lb**



 <b>105.0 ft</b>							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
20	83.0	111.9	281,300				20
21	82.5	111.8	268,400				21
22	81.9	111.6	256,700	227,300			22
23	81.4	111.4	245,600	211,800			23
24	80.8	111.2	227,800	198,200	174,800		24
25	80.3	111.1	212,300	186,100	165,200		25
26	79.7	110.9	198,600	175,400	156,500	140,900	26
27	79.1	110.7	186,600	165,700	148,600	134,300	27
28	78.6	110.4	175,800	157,000	141,400	128,400	28
29	78.0	110.2	166,100	149,100	134,900	122,800	29
30	77.5	110.0	157,400	141,900	128,900	117,700	30
31	76.9	109.7	149,400	135,300	123,300	113,000	31
32	76.3	109.5	142,200	129,300	118,200	108,600	32
33	75.8	109.2	135,600	123,700	113,400	104,500	33
34	75.2	108.9	129,600	118,500	109,000	100,700	34
36	74.1	108.3	118,800	109,300	101,000	93,700	36
38	72.9	107.7	109,600	101,300	94,000	87,500	38
40	71.8	107.0	101,500	94,300	87,800	82,100	40
42	70.6	106.2	94,500	88,100	82,300	77,200	42
44	69.4	105.5	88,200	82,500	77,400	72,700	44
46	68.2	104.6	82,700	77,600	73,000	68,700	46
48	67.1	103.8	77,700	73,100	68,900	65,100	48
50	65.9	102.9	73,200	69,100	65,300	61,800	50
55	62.8	100.3	63,700	60,400	57,400	54,500	55
60	59.6	97.4	56,100	53,400	50,900	48,600	60
65	56.4	94.2	49,800	47,600	45,600	43,600	65
70	53.0	90.4	44,600	42,800	41,100	39,400	70
75	49.4	86.2	40,100	38,600	37,200	35,800	75
80	45.7	81.5	36,300	35,000	33,800	32,600	80
85	41.6	76.0	32,900	31,900	30,800	29,800	85
90	37.2	69.6	30,000	29,100	28,200	27,400	90
95	32.2	62.1	27,400	26,700	25,900	25,200	95
100	26.5	52.7	25,100	24,400	23,800	23,200	100
105	19.0	40.0	22,900	22,400	22,000	21,500	105
106	17.1	36.7	22,500	22,100	21,600	21,200	106



# MLC200 S-1

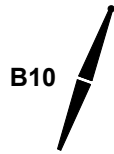


**114,600 lb**  
 +  
**0 lb**



 <b>114.8 ft</b>							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
21	83.1	121.7	267,900				21
22	82.6	121.6	256,200				22
23	82.1	121.4	245,300				23
24	81.6	121.2	227,900	196,000			24
25	81.1	121.1	212,400	184,100			25
26	80.6	120.9	198,700	173,600	153,600		26
27	80.1	120.7	186,600	164,100	145,900		27
28	79.6	120.5	175,800	155,500	138,900	125,200	28
29	79.1	120.3	166,100	147,700	132,600	119,900	29
30	78.6	120.1	157,300	140,600	126,700	115,000	30
31	78.0	119.8	149,400	134,100	121,300	110,400	31
32	77.5	119.6	142,100	128,100	116,300	106,200	32
33	77.0	119.4	135,500	122,600	111,600	102,200	33
34	76.5	119.1	129,400	117,500	107,300	98,500	34
36	75.5	118.6	118,700	108,400	99,500	91,700	36
38	74.4	118.0	109,400	100,400	92,600	85,700	38
40	73.4	117.4	101,300	93,500	86,600	80,400	40
42	72.3	116.7	94,300	87,300	81,200	75,600	42
44	71.3	116.0	88,000	81,800	76,300	71,300	44
46	70.2	115.3	82,400	76,900	71,900	67,400	46
48	69.1	114.5	77,500	72,500	68,000	63,800	48
50	68.1	113.6	73,000	68,400	64,300	60,600	50
55	65.3	111.4	63,400	59,900	56,600	53,500	55
60	62.5	108.8	55,800	52,900	50,200	47,700	60
65	59.6	105.9	49,500	47,100	44,900	42,800	65
70	56.7	102.7	44,300	42,300	40,400	38,600	70
75	53.6	99.0	39,800	38,100	36,500	35,000	75
80	50.4	95.0	36,000	34,600	33,200	31,900	80
85	47.0	90.4	32,700	31,500	30,300	29,200	85
90	43.4	85.2	29,700	28,700	27,700	26,700	90
95	39.5	79.3	27,200	26,300	25,400	24,600	95
100	35.3	72.5	24,800	24,100	23,300	22,600	100
105	30.6	64.5	22,700	22,100	21,500	20,900	105
110	25.0	54.5	20,800	20,300	19,800	19,300	110
115	17.8	41.0	19,100	18,700	18,200	17,800	115
116	16.0	37.5	18,700	18,300	17,900	17,500	116

# MLC200 S-1

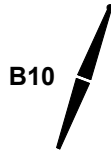


114,600 lb  
+  
0 lb



ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	
22	83.2	131.5	255,800					22
23	82.7	131.4	245,000					23
24	82.3	131.2	228,000					24
25	81.8	131.0	212,400	182,200				25
26	81.3	130.9	198,700	171,800				26
27	80.9	130.7	186,600	162,400	143,300			27
28	80.4	130.5	175,700	154,000	136,500			28
29	79.9	130.3	166,000	146,300	130,300	117,100		29
30	79.5	130.1	157,300	139,300	124,600	112,400		30
31	79.0	129.9	149,300	132,900	119,400	108,000		31
32	78.5	129.7	142,100	127,000	114,500	103,900		32
33	78.1	129.5	135,400	121,600	109,900	100,000		33
34	77.6	129.2	129,300	116,500	105,700	96,400		34
36	76.6	128.7	118,500	107,500	98,100	89,900		36
38	75.7	128.2	109,300	99,700	91,300	84,100		38
40	74.7	127.7	101,200	92,800	85,400	78,900		40
42	73.8	127.0	94,100	86,600	80,100	74,200		42
44	72.8	126.4	87,900	81,200	75,300	70,000		44
46	71.8	125.7	82,300	76,300	71,000	66,200		46
48	70.9	125.0	77,300	71,900	67,100	62,700		48
50	69.9	124.3	72,800	67,900	63,500	59,500		50
55	67.4	122.2	63,300	59,400	55,800	52,600		55
60	64.9	119.9	55,600	52,500	49,600	46,900		60
65	62.3	117.3	49,300	46,700	44,300	42,000		65
70	59.6	114.4	44,100	41,900	39,900	37,900		70
75	56.9	111.2	39,600	37,800	36,100	34,400		75
80	54.1	107.6	35,800	34,200	32,700	31,300		80
85	51.1	103.6	32,500	31,100	29,800	28,600		85
90	48.1	99.2	29,600	28,400	27,300	26,200		90
95	44.8	94.3	27,000	26,000	25,000	24,100		95
100	41.4	88.7	24,700	23,800	23,000	22,100		100
105	37.7	82.5	22,600	21,800	21,100	20,400		105
110	33.7	75.2	20,700	20,100	19,400	18,800		110
115	29.1	66.7	19,000	18,500	17,900	17,400		115
120	23.8	56.2	17,400	17,000	16,500	16,100		120
125	16.8	41.9	16,000	15,600	15,200	14,800		125
126	15.0	38.1	15,700	15,300	15,000	14,600		126

# MLC200 S-1

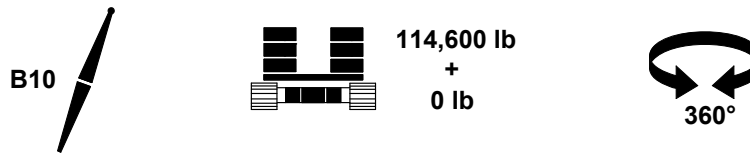



114,600 lb  
+  
0 lb



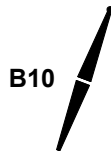
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
24	82.8	141.2	228,000				24
25	82.4	141.0	212,400				25
26	82.0	140.9	198,700	170,000			26
27	81.6	140.7	186,500	160,800			27
28	81.1	140.5	175,700	152,500			28
29	80.7	140.3	165,900	144,900	128,100		29
30	80.3	140.2	157,100	138,000	122,500		30
31	79.8	140.0	149,200	131,700	117,400	105,500	31
32	79.4	139.8	141,900	125,800	112,600	101,500	32
33	78.9	139.6	135,300	120,500	108,200	97,800	33
34	78.5	139.3	129,200	115,500	104,000	94,300	34
36	77.6	138.9	118,400	106,500	96,600	88,000	36
38	76.8	138.4	109,000	98,800	90,000	82,300	38
40	75.9	137.9	101,000	91,900	84,100	77,300	40
42	75.0	137.3	93,900	85,900	78,900	72,700	42
44	74.1	136.7	87,600	80,500	74,200	68,600	44
46	73.2	136.1	82,000	75,600	69,900	64,900	46
48	72.3	135.4	77,000	71,200	66,100	61,500	48
50	71.4	134.8	72,500	67,300	62,600	58,300	50
55	69.1	132.9	63,000	58,800	55,000	51,500	55
60	66.8	130.7	55,300	51,900	48,800	45,900	60
65	64.5	128.4	49,000	46,200	43,600	41,200	65
70	62.1	125.8	43,700	41,400	39,200	37,100	70
75	59.6	122.9	39,300	37,300	35,400	33,600	75
80	57.1	119.7	35,500	33,700	32,100	30,600	80
85	54.5	116.1	32,100	30,600	29,200	27,900	85
90	51.8	112.3	29,200	27,900	26,700	25,500	90
95	49.0	108.0	26,600	25,500	24,400	23,400	95
100	46.0	103.2	24,300	23,300	22,400	21,500	100
105	42.9	98.0	22,300	21,400	20,600	19,800	105
110	39.7	92.1	20,400	19,600	18,900	18,200	110
115	36.1	85.4	18,700	18,000	17,400	16,800	115
120	32.2	77.8	17,100	16,600	16,000	15,400	120
125	27.8	68.8	15,700	15,200	14,700	14,200	125
130	22.7	57.7	14,400	14,000	13,500	13,100	130
135	15.9	42.6	13,100	12,800	12,400	12,100	135

# MLC200 S-1



							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
25	82.9	151.0	212,400				25
26	82.5	150.8	198,600				26
27	82.1	150.7	186,500				27
28	81.7	150.5	175,600	151,000			28
29	81.3	150.3	165,900	143,600			29
30	80.9	150.2	157,100	136,800	120,600		30
31	80.5	150.0	149,100	130,500	115,600		31
32	80.1	149.8	141,800	124,800	110,900		32
33	79.7	149.6	135,200	119,500	106,600	95,800	33
34	79.3	149.4	129,100	114,500	102,500	92,500	34
36	78.5	149.0	118,300	105,700	95,200	86,300	36
38	77.7	148.5	109,000	98,000	88,800	80,800	38
40	76.9	148.0	100,900	91,300	83,000	75,900	40
42	76.0	147.5	93,800	85,300	77,900	71,500	42
44	75.2	147.0	87,500	79,900	73,300	67,500	44
46	74.4	146.4	81,900	75,100	69,100	63,800	46
48	73.6	145.8	76,900	70,800	65,300	60,500	48
50	72.7	145.2	72,400	66,800	61,800	57,400	50
55	70.6	143.4	62,800	58,400	54,400	50,700	55
60	68.5	141.5	55,200	51,600	48,200	45,200	60
65	66.3	139.3	48,900	45,900	43,100	40,500	65
70	64.1	136.9	43,600	41,100	38,800	36,600	70
75	61.9	134.2	39,200	37,000	35,000	33,100	75
80	59.6	131.3	35,400	33,500	31,800	30,100	80
85	57.2	128.2	32,000	30,400	28,900	27,500	85
90	54.8	124.7	29,100	27,700	26,400	25,100	90
95	52.3	120.9	26,500	25,300	24,100	23,000	95
100	49.7	116.7	24,200	23,200	22,100	21,100	100
105	47.1	112.1	22,200	21,200	20,300	19,400	105
110	44.2	107.1	20,300	19,500	18,700	17,900	110
115	41.3	101.5	18,600	17,900	17,200	16,500	115
120	38.1	95.3	17,100	16,400	15,800	15,200	120
125	34.7	88.2	15,700	15,100	14,500	14,000	125
130	30.9	80.2	14,400	13,900	13,400	12,900	130
135	26.7	70.8	13,200	12,700	12,300	11,800	135
140	21.7	59.1	12,000	11,600	11,300	10,900	140
145	15.0	43.2	10,900	10,600	10,300	10,000	145

# MLC200 S-1

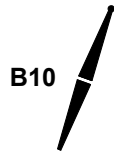


114,600 lb  
+  
0 lb



154.2 ft								
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	
26	83.0	160.8	198,600					26
27	82.6	160.6	186,400					27
28	82.3	160.5	175,500					28
29	81.9	160.3	165,800	142,200				29
30	81.5	160.1	157,000	135,500				30
31	81.1	160.0	149,000	129,300				31
32	80.8	159.8	141,700	123,600	109,100			32
33	80.4	159.6	135,000	118,400	104,900			33
34	80.0	159.4	128,900	113,500	100,900	90,500		34
36	79.2	159.0	118,100	104,800	93,800	84,500		36
38	78.5	158.6	108,700	97,100	87,400	79,200		38
40	77.7	158.2	100,600	90,400	81,800	74,400		40
42	77.0	157.7	93,500	84,500	76,700	70,000		42
44	76.2	157.2	87,200	79,200	72,200	66,100		44
46	75.4	156.6	81,600	74,400	68,100	62,500		46
48	74.6	156.1	76,600	70,100	64,300	59,300		48
50	73.9	155.5	72,100	66,200	60,900	56,300		50
55	71.9	153.9	62,500	57,800	53,500	49,700		55
60	69.9	152.0	54,800	51,000	47,500	44,300		60
65	67.9	150.0	48,500	45,300	42,400	39,700		65
70	65.9	147.8	43,300	40,600	38,100	35,800		70
75	63.8	145.4	38,800	36,500	34,400	32,400		75
80	61.7	142.7	35,000	33,000	31,100	29,400		80
85	59.6	139.8	31,700	29,900	28,300	26,800		85
90	57.4	136.6	28,700	27,200	25,800	24,400		90
95	55.1	133.2	26,200	24,800	23,600	22,400		95
100	52.8	129.5	23,900	22,700	21,600	20,500		100
105	50.4	125.4	21,800	20,800	19,800	18,800		105
110	47.9	120.9	19,900	19,000	18,100	17,300		110
115	45.3	116.1	18,300	17,400	16,600	15,900		115
120	42.6	110.7	16,700	16,000	15,300	14,600		120
125	39.8	104.8	15,300	14,600	14,000	13,400		125
130	36.7	98.3	14,000	13,400	12,800	12,300		130
135	33.4	90.9	12,800	12,300	11,800	11,300		135
140	29.7	82.5	11,700	11,200	10,800	10,300		140
145	25.6	72.6	10,600	10,200	9,800	9,500		145
150	20.7	60.5	9,600	9,300	9,000	8,600		150
154	15.8	47.7	8,900	8,600	8,300	8,000		154

# MLC200 S-1

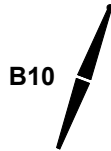


114,600 lb  
+  
0 lb



ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	
27	83.1	170.5	186,300					27
28	82.7	170.4	175,400					28
29	82.4	170.3	165,600					29
30	82.0	170.1	156,800					30
31	81.7	170.0	148,800	128,100				31
32	81.3	169.8	141,500	122,500				32
33	81.0	169.6	134,900	117,300	103,300			33
34	80.6	169.4	128,700	112,500	99,400			34
36	79.9	169.1	117,900	103,800	92,400	82,800		36
38	79.2	168.7	108,500	96,300	86,100	77,600		38
40	78.5	168.3	100,400	89,600	80,600	72,900		40
42	77.8	167.8	93,300	83,700	75,600	68,700		42
44	77.0	167.3	87,000	78,500	71,200	64,800		44
46	76.3	166.8	81,400	73,700	67,100	61,400		46
48	75.6	166.3	76,400	69,400	63,400	58,100		48
50	74.9	165.7	71,800	65,600	60,100	55,200		50
55	73.0	164.2	62,300	57,200	52,800	48,800		55
60	71.2	162.5	54,600	50,500	46,800	43,400		60
65	69.3	160.7	48,300	44,900	41,700	38,900		65
70	67.4	158.6	43,000	40,100	37,500	35,000		70
75	65.5	156.3	38,500	36,100	33,800	31,700		75
80	63.6	153.9	34,700	32,600	30,600	28,800		80
85	61.6	151.2	31,400	29,500	27,800	26,200		85
90	59.6	148.3	28,400	26,800	25,300	23,900		90
95	57.5	145.1	25,900	24,400	23,100	21,800		95
100	55.4	141.7	23,600	22,300	21,100	20,000		100
105	53.2	138.0	21,500	20,400	19,300	18,300		105
110	51.0	134.0	19,600	18,600	17,700	16,800		110
115	48.7	129.7	18,000	17,100	16,200	15,400		115
120	46.3	125.0	16,400	15,600	14,800	14,100		120
125	43.8	119.8	15,000	14,300	13,600	12,900		125
130	41.2	114.2	13,700	13,100	12,400	11,800		130
135	38.4	108.0	12,500	11,900	11,400	10,800		135
140	35.4	101.2	11,400	10,900	10,400	9,900		140
145	32.2	93.5	10,400	9,900	9,500	9,000		145
150	28.7	84.7	9,400	9,000	8,600	8,200		150
155	24.7	74.4	8,500	8,100	7,800	7,400		155
160	19.9	61.7	7,600	7,300	7,000	6,700		160
164	15.1	48.4	7,000	6,700	6,400	6,200		164

# MLC200 S-1

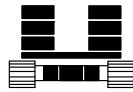


114,600 lb  
+  
0 lb



173.9 ft							
ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
28	83.1	180.3	175,300				28
29	82.8	180.2	165,500				29
30	82.5	180.1	156,700				30
31	82.1	179.9	148,700				31
32	81.8	179.8	141,400	121,300			32
33	81.5	179.6	134,700	116,200			33
34	81.1	179.4	128,500	111,400			34
35	80.8	179.3	123,100	107,200	94,300		35
36	80.5	179.1	117,700	102,900	90,900		36
38	79.8	178.7	108,300	95,400	84,800	76,000	38
40	79.1	178.3	100,200	88,800	79,400	71,400	40
42	78.5	177.9	93,000	83,000	74,500	67,300	42
44	77.8	177.4	86,700	77,700	70,100	63,500	44
46	77.1	177.0	81,100	73,000	66,100	60,100	46
48	76.4	176.5	76,100	68,800	62,500	57,000	48
50	75.7	175.9	71,500	64,900	59,100	54,100	50
55	74.0	174.5	61,900	56,600	51,900	47,800	55
60	72.3	172.9	54,200	49,900	46,000	42,500	60
65	70.6	171.2	47,900	44,300	41,000	38,100	65
70	68.8	169.3	42,600	39,600	36,800	34,200	70
75	67.0	167.2	38,100	35,500	33,100	30,900	75
80	65.2	164.9	34,300	32,000	30,000	28,000	80
85	63.4	162.4	31,000	29,000	27,200	25,500	85
90	61.5	159.7	28,000	26,300	24,700	23,200	90
95	59.6	156.8	25,500	23,900	22,500	21,100	95
100	57.6	153.6	23,200	21,800	20,500	19,300	100
105	55.6	150.2	21,100	19,900	18,700	17,700	105
110	53.6	146.6	19,200	18,100	17,100	16,100	110
115	51.5	142.7	17,500	16,600	15,600	14,800	115
120	49.3	138.4	16,000	15,100	14,300	13,500	120
125	47.1	133.8	14,600	13,800	13,000	12,300	125
130	44.8	128.9	13,300	12,600	11,900	11,200	130
135	42.4	123.5	12,100	11,500	10,800	10,200	135
140	39.8	117.6	11,000	10,400	9,900	9,300	140
145	37.1	111.1	10,000	9,500	8,900	8,400	145
150	34.3	104.0	9,000	8,500	8,100	7,600	150
155	31.1	96.0	8,100	7,700	7,300	6,900	155
160	27.7	86.8	7,300	6,900	6,500	6,200	160
165	23.8	76.1	6,500	6,100	5,800	5,500	165
170	19.2	62.9	5,700	5,400	5,100	4,900	170
173	15.7	52.9	5,300	5,000	4,800	4,500	173

# MLC200 S-1



114,600 lb  
+  
0 lb



ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	
29	83.2	190.1	165,400					29
30	82.9	190.0	156,500					30
31	82.6	189.9	148,500					31
32	82.3	189.7	141,200					32
33	81.9	189.6	134,500	115,200				33
34	81.6	189.4	128,400	110,500				34
36	81.0	189.1	117,500	102,000	89,600			36
38	80.4	188.7	108,100	94,600	83,600			38
40	79.7	188.3	100,000	88,100	78,300	70,100		40
42	79.1	187.9	92,800	82,300	73,500	66,000		42
44	78.5	187.5	86,500	77,100	69,100	62,400		44
46	77.8	187.1	80,900	72,400	65,200	59,000		46
48	77.2	186.6	75,900	68,200	61,600	56,000		48
50	76.5	186.1	71,300	64,400	58,400	53,100		50
55	74.9	184.8	61,700	56,100	51,200	46,900		55
60	73.3	183.3	54,000	49,400	45,400	41,800		60
65	71.6	181.6	47,700	43,900	40,500	37,400		65
70	70.0	179.8	42,400	39,200	36,300	33,600		70
75	68.3	177.9	37,900	35,200	32,700	30,400		75
80	66.6	175.7	34,100	31,700	29,500	27,500		80
85	64.9	173.4	30,700	28,700	26,800	25,000		85
90	63.2	170.9	27,800	26,000	24,300	22,700		90
95	61.4	168.2	25,200	23,600	22,100	20,700		95
100	59.6	165.2	22,900	21,500	20,200	18,900		100
105	57.7	162.1	20,900	19,600	18,400	17,200		105
110	55.9	158.8	19,000	17,900	16,800	15,700		110
115	53.9	155.1	17,300	16,300	15,300	14,400		115
120	52.0	151.3	15,800	14,900	14,000	13,100		120
125	49.9	147.1	14,400	13,500	12,700	12,000		125
130	47.8	142.6	13,100	12,300	11,600	10,900		130
135	45.7	137.8	11,900	11,200	10,500	9,900		135
140	43.4	132.6	10,800	10,200	9,600	9,000		140
145	41.1	127.0	9,800	9,200	8,700	8,100		145
150	38.6	120.8	8,800	8,300	7,800	7,300		150
155	36.0	114.1	7,900	7,500	7,000	6,600		155
160	33.2	106.6	7,100	6,700	6,300	5,800		160
165	30.2	98.3	6,300	5,900	5,600	5,200		165
170	26.8	88.8	5,600	5,200	4,900	4,600		170
175	23.0	77.7	4,900	4,600	4,300	4,000		175
180	18.4	64.0	4,200					180



# MLC200 S-1

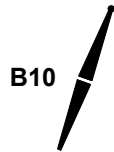


114,600 lb  
+  
0 lb



ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
31	83.0	199.8	148,400				31
32	82.7	199.7	141,000				32
33	82.4	199.5	134,300				33
34	82.1	199.4	128,200				34
35	81.8	199.2	122,700	105,100			35
36	81.5	199.1	117,300	101,100			36
38	80.9	198.7	107,900	93,700	82,300		38
40	80.3	198.4	99,700	87,200	77,100		40
41	80.0	198.2	96,100	84,400	74,700	66,600	41
42	79.7	198.0	92,600	81,500	72,400	64,700	42
44	79.0	197.6	86,200	76,300	68,100	61,100	44
46	78.4	197.2	80,600	71,700	64,200	57,800	46
48	77.8	196.7	75,500	67,500	60,700	54,800	48
50	77.2	196.3	71,000	63,700	57,400	52,000	50
55	75.7	195.0	61,400	55,500	50,400	46,000	55
60	74.2	193.6	53,600	48,900	44,600	40,900	60
65	72.6	192.0	47,300	43,300	39,800	36,500	65
70	71.1	190.3	42,000	38,600	35,600	32,800	70
75	69.5	188.5	37,500	34,600	32,000	29,600	75
80	67.9	186.4	33,700	31,200	28,900	26,800	80
85	66.3	184.2	30,300	28,200	26,100	24,300	85
90	64.6	181.9	27,400	25,500	23,700	22,000	90
95	63.0	179.4	24,800	23,100	21,500	20,000	95
100	61.3	176.6	22,500	21,000	19,600	18,200	100
105	59.6	173.7	20,500	19,100	17,800	16,600	105
110	57.8	170.6	18,600	17,400	16,200	15,100	110
115	56.0	167.3	16,900	15,800	14,800	13,800	115
120	54.2	163.7	15,400	14,400	13,400	12,500	120
125	52.4	159.9	14,000	13,100	12,200	11,400	125
130	50.5	155.8	12,700	11,900	11,100	10,300	130
135	48.5	151.4	11,500	10,700	10,000	9,300	135
140	46.5	146.7	10,400	9,700	9,000	8,400	140
145	44.4	141.7	9,400	8,700	8,100	7,600	145
150	42.2	136.2	8,400	7,800	7,300	6,800	150
155	39.9	130.3	7,500	7,000	6,500	6,000	155
160	37.5	123.9	6,700	6,200	5,800	5,300	160
165	34.9	116.9	5,900	5,500	5,100	4,600	165
170	32.2	109.2	5,200	4,800	4,400	4,000	170
175	29.2	100.6	4,500	4,100			175

# MLC200 S-1



114,600 lb  
+  
0 lb



ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
32	83.0	209.6	140,800				32
33	82.7	209.5	134,100				33
34	82.4	209.3	127,900				34
36	81.9	209.0	117,000	100,100			36
38	81.3	208.7	107,600	92,900			38
40	80.7	208.4	99,400	86,400	75,900		40
42	80.2	208.0	92,300	80,700	71,300		42
43	79.9	207.8	89,100	78,200	69,200	61,600	43
44	79.6	207.6	85,900	75,600	67,100	59,900	44
46	79.0	207.2	80,300	71,000	63,300	56,700	46
48	78.4	206.8	75,300	66,900	59,800	53,700	48
50	77.9	206.4	70,700	63,100	56,600	51,000	50
55	76.4	205.2	61,100	54,900	49,600	45,000	55
60	75.0	203.8	53,300	48,300	43,900	40,000	60
65	73.5	202.3	47,000	42,800	39,100	35,800	65
70	72.0	200.7	41,700	38,100	35,000	32,100	70
75	70.5	199.0	37,200	34,200	31,400	28,900	75
80	69.0	197.1	33,300	30,700	28,300	26,100	80
85	67.5	195.0	30,000	27,700	25,600	23,700	85
90	65.9	192.8	27,100	25,000	23,200	21,400	90
95	64.4	190.4	24,500	22,700	21,000	19,500	95
100	62.8	187.8	22,200	20,600	19,100	17,700	100
105	61.2	185.1	20,100	18,700	17,300	16,100	105
110	59.6	182.2	18,200	17,000	15,700	14,600	110
115	57.9	179.1	16,600	15,400	14,300	13,200	115
120	56.2	175.8	15,000	14,000	13,000	12,000	120
125	54.5	172.2	13,600	12,700	11,700	10,900	125
130	52.7	168.5	12,300	11,400	10,600	9,800	130
135	50.9	164.4	11,100	10,300	9,600	8,800	135
140	49.1	160.1	10,000	9,300	8,600	7,900	140
145	47.1	155.6	9,000	8,300	7,700	7,100	145
150	45.2	150.6	8,100	7,500	6,900	6,300	150
155	43.1	145.4	7,200	6,600	6,100	5,500	155
160	41.0	139.7	6,300	5,800	5,300	4,800	160
165	38.8	133.6	5,600	5,100	4,600	4,200	165
170	36.4	127.0	4,800	4,400	4,000		170
175	34.0	119.7	4,100				175

# MLC200 S-1



114,600 lb  
+  
0 lb

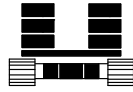


ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
33	83.1	219.4	133,900				33
34	82.8	219.3	127,700				34
36	82.3	219.0	116,800				36
37	82.0	218.8	112,100	95,500			37
38	81.7	218.7	107,400	92,000			38
40	81.2	218.3	99,200	85,600			40
41	80.9	218.2	95,600	82,800	72,400		41
42	80.6	218.0	92,000	80,000	70,200		42
44	80.1	217.6	85,700	74,900	66,000		44
45	79.8	217.4	82,800	72,600	64,200	57,100	45
46	79.5	217.3	80,000	70,300	62,300	55,500	46
48	79.0	216.9	74,900	66,200	58,800	52,600	48
50	78.4	216.4	70,400	62,400	55,700	49,900	50
55	77.0	215.3	60,700	54,300	48,800	44,100	55
60	75.7	214.0	53,000	47,700	43,100	39,100	60
65	74.3	212.6	46,600	42,200	38,400	34,900	65
70	72.9	211.1	41,300	37,600	34,300	31,300	70
75	71.4	209.4	36,800	33,600	30,800	28,200	75
80	70.0	207.6	32,900	30,200	27,700	25,400	80
85	68.6	205.7	29,600	27,200	25,000	23,000	85
90	67.1	203.6	26,600	24,500	22,600	20,800	90
95	65.6	201.3	24,100	22,200	20,400	18,800	95
100	64.2	198.9	21,700	20,100	18,500	17,000	100
105	62.6	196.3	19,700	18,200	16,800	15,400	105
110	61.1	193.6	17,800	16,400	15,200	14,000	110
115	59.6	190.7	16,100	14,900	13,700	12,600	115
120	58.0	187.6	14,600	13,500	12,400	11,400	120
125	56.4	184.3	13,200	12,200	11,200	10,300	125
130	54.7	180.8	11,900	11,000	10,100	9,200	130
135	53.1	177.0	10,700	9,800	9,000	8,300	135
140	51.3	173.1	9,600	8,800	8,100	7,300	140
145	49.6	168.9	8,600	7,900	7,200	6,500	145
150	47.8	164.4	7,600	7,000	6,300	5,700	150
155	45.9	159.6	6,700	6,100	5,500	5,000	155
160	44.0	154.5	5,900	5,300	4,800	4,300	160
165	42.0	149.0	5,100	4,600	4,100		165
170	39.9	143.1	4,400				170

# MLC200 S-1



B10



114,600 lb  
+  
0 lb



<p>223.1 ft</p>			
ft	°	ft	lb
34	83.1	229.2	127,400
36	82.6	228.9	116,400
38	82.1	228.6	107,000
40	81.6	228.3	98,800
42	81.0	228.0	91,600
44	80.5	227.6	85,300
46	80.0	227.3	79,600
48	79.5	226.9	74,500
50	78.9	226.5	70,000
55	77.6	225.4	60,300
60	76.3	224.2	52,600
65	75.0	222.9	46,200
70	73.6	221.4	40,900
75	72.3	219.8	36,400
80	70.9	218.1	32,500
85	69.6	216.2	29,200
90	68.2	214.3	26,200
95	66.8	212.1	23,600
100	65.4	209.8	21,300
105	64.0	207.4	19,300
110	62.5	204.8	17,400
115	61.0	202.1	15,700
120	59.6	199.2	14,200
125	58.0	196.1	12,800
130	56.5	192.8	11,500
135	54.9	189.3	10,300
140	53.3	185.6	9,200
145	51.7	181.7	8,200
150	50.0	177.5	7,200
155	48.3	173.1	6,300
160	46.6	168.4	5,500
165	44.8	163.5	4,700
170	42.9	158.1	4,000