

Liftcrane Boom Capacities

Boom No. 74A

123,400 lb Crane Counterweight

45,100 lb Carbody Counterweight

Rating Over Front of Blocked Crawlers

No Travel - Limited Swing

MLC165-1 SERIES 2



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 over front of machine with crawlers blocked or strength of structural components.

Boom Backward Stability: A minimum of 4 parts hoist line is required for capacities denoted by (b), (c), and (d) for boom lengths 49.2 ft thru 98.4 ft. Capacities indicated by (b) require 3,000 lb minimum weight, (c) requires 7,500 lb minimum weight, and (d) requires 15,000 lb minimum weight.

Caution: Do not operate in areas indicated by (b), (c), or (d) without required minimum weights. Boom will not boom down and boom hoist wire rope may go slack causing wire rope damage or failure.

Upper boom point capacity for liftcrane service with single part whip line is 27,558 lb or 55,116 lb with two part whip line. When boom butt mounted auxiliary drum 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.

206.7 ft thru 275.6 ft boom lengths require only the middle three sheaves in lower boom point. All other sheaves must be removed from lower boom point.

Weight of upper boom point, jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib 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 in a level position on a firm uniformly supporting surface with front idler tumbler properly blocked so that centerline of idler tumbler becomes tipping fulcrum. Drive motors must be to rear of machine. Swing is limited to that sector shown in Operating Range Diagram **No. 9403-A**. Refer to Boom Rigging **No. 81023602**, Wire Rope Specification chart **No. 9408-A**, and Wind Conditions chart **No. 9407-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 to center of vertical hoist line or load block.

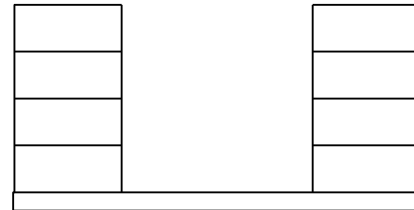


BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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, 43 in. treads, 23 ft 7 in. live mast, 18 part boom hoist reeving, boom support straps, 123,400 lb crane counterweight, and two 22,550 lb carbody counterweights.



123,400 lb Crane Counterweight
8 Side Boxes

WARNING: Free fall operation is limited to 13,000 lb per part of line when lowering load with free fall clutch/brake pedal. Hydraulic power must be used for full line pull.

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 134
30.0 ft	3,800 lb
40.0 ft	4,600 lb
50.0 ft	5,400 lb
60.0 ft	6,300 lb
70.0 ft	6,900 lb
80.0 ft	7,900 lb

Upper Boom Point Deduct
Deduct 1,300 lb from capacities when upper boom point, and adapter frame if equipped, is attached.

Lower Boom Point Sheave Deduct
Deduct 700 lb from capacities for boom lengths 147.6 ft thru 196.9 ft when lower boom point is equipped with outer sheave clusters.

Auxiliary Drum Deduct
Deduct 1,800 lb from capacities when boom butt is equipped with auxiliary drum, and 6.0 m (19.7 ft) insert is equipped with wire rope guide sheaves.

Third Line Deduct
Deduct 400 lb from capacities when boom is equipped for three line operation.

Refer to **Table 1** for raising ability with the maximum weight of all load blocks, hooks, weight balls, slings, and hoist lines beneath lower and/or upper boom point and jib point sheaves. For block weights shown with #, a, or b, load blocks, hooks, weight balls, and slings must remain on ground until combined weights are within rated capacity of chart. For block weights shown with (a), auxiliary drum mounted in boom butt, wire rope guide sheaves in 6.0 m (19.7 ft) insert, and boom lights must be removed. For block weights shown with (b), upper boom point must be removed. Raising is not permitted in shaded areas of table.

Caution: Combined weight beneath lower and/or upper boom point and jib point sheaves must not exceed block weight shown. Total weight beneath jib point must not exceed 4,000 lb.

Table 1

Raising Ability Over Front of Blocked Crawlers								
Boom Length (ft)	Fixed Jib No. 134							
	—	30.0 ft	40.0 ft	50.0 ft	60.0 ft	70.0 ft	80.0 ft	
	Block Weight (lb)							
49.2 - 78.7	7,700	—	—	—	—	—	—	
88.6 - 137.8	7,700	7,700	7,700	7,700	7,700	7,700	7,700	
147.6	7,700	7,700	7,700	7,700	7,700	7,700	5,800	
157.5	7,700	7,700	7,700	7,700	7,700	5,800	5,800	
167.3	7,700	7,700	7,700	5,800	5,800	1,600	1,600	
177.2	7,700	5,800	5,800	1,600	1,600	1,600	1,600	
187.0	7,700	1,600	1,600	1,600	1,600	1,600	1,600	
196.9	5,800	1,600	1,600	1,600	1,600	1,600	#	
206.7	1,600	1,600	1,600	#	#	#	#	
216.5	1,600	#	#	#	#	#	#	
226.4	1,600	#	#	#	#	#	#	
236.2	#	#	#	#	a	RAISING NOT PERMITTED		
246.1	#	#	a					
255.9	#							
265.9	b							
275.6	a, b							
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius and crane configuration is within 360 degree chart.								

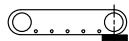
Explanation of Symbols



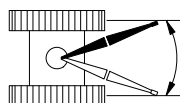
Boom No. 74A



Crane Counterweight
+
Carbody Counterweight



Rating Over Front of
Blocked Crawlers



Limited Swing Area



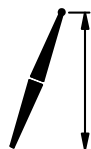
Boom Length



Operating Radius
(see page 1)



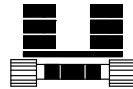
Boom Angle
(see page 1)



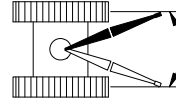
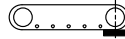
Boom Point Elevation
(see page 1)



Lifting Capacities
(see page 1)



123,400 lb
+
45,100 lb



49.2 ft			
ft	°	ft	lb
14	81.7	55.1	363,800 d
15	80.5	54.9	358,500 d
16	79.3	54.6	337,600 d
17	78.1	54.4	319,000 d
18	76.9	54.1	302,300 d
19	75.7	53.8	287,200 c
20	74.5	53.5	273,500 c
22	72.0	52.8	249,600 c
24	69.5	52.0	229,400 b
26	66.9	51.1	211,900 b
28	64.3	50.1	196,700
30	61.7	48.9	183,600
32	58.9	47.7	172,100
34	56.1	46.3	162,000
36	53.1	44.7	153,000
38	50.0	43.0	144,900
40	46.8	41.0	135,500
42	43.3	38.8	126,000
44	39.6	36.4	117,700
46	35.6	33.5	110,400
48	31.0	30.1	103,800
50	25.6	26.0	97,800

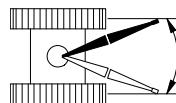
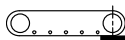
59.1 ft			
ft	°	ft	lb
16	81.1	64.7	334,800 d
17	80.1	64.5	318,800 d
18	79.1	64.3	302,100 d
19	78.1	64.0	287,000 c
20	77.1	63.8	273,300 c
22	75.1	63.2	249,400 c
24	73.1	62.5	229,200 b
26	71.0	61.8	211,900 b
28	68.9	61.0	196,700
30	66.8	60.1	183,600
32	64.6	59.1	172,100
34	62.4	58.0	162,000
36	60.2	56.8	153,000
38	57.8	55.5	144,900
40	55.5	54.1	135,900
42	53.0	52.5	126,500
44	50.4	50.8	118,200
46	47.8	48.9	110,800
48	45.0	46.9	104,300
50	42.1	44.6	98,400
55	33.8	37.7	86,000
60	22.7	27.4	76,000

68.9 ft			
ft	°	ft	lb
17	81.6	74.5	312,800 d
18	80.7	74.3	301,400 c
19	79.9	74.1	286,300 c
20	79.0	73.9	272,600 c
22	77.3	73.4	248,700 c
24	75.6	72.9	228,600 b
26	73.8	72.3	211,300 b
28	72.1	71.6	196,400
30	70.3	70.8	183,300
32	68.5	70.0	171,800
34	66.7	69.1	161,600
36	64.8	68.1	152,500
38	62.9	67.0	144,300
40	61.0	65.9	135,600
42	59.1	64.6	126,200
44	57.1	63.3	117,900
46	55.0	61.9	110,600
48	52.9	60.3	104,000
50	50.7	58.6	98,100
55	45.0	53.8	85,800
60	38.5	47.8	75,900
65	30.8	40.0	67,800
70	20.5	28.7	61,000

74A



123,400 lb
+
45,100 lb



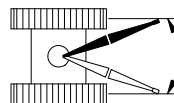
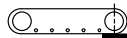
78.7 ft			
ft	°	ft	lb
19	81.2	84.2	286,000 c
20	80.4	84.0	272,300 c
22	78.9	83.5	248,400 b
24	77.4	83.1	228,200 b
26	75.9	82.5	211,000 b
28	74.4	81.9	196,100
30	72.9	81.3	183,000
32	71.3	80.6	171,500
34	69.8	79.8	161,300
36	68.2	79.0	152,200
38	66.6	78.1	144,000
40	65.0	77.1	135,700
42	63.3	76.1	126,300
44	61.7	74.9	118,000
46	60.0	73.8	110,600
48	58.3	72.5	104,100
50	56.5	71.1	98,200
55	51.9	67.3	85,900
60	47.0	62.8	76,000
65	41.6	57.3	68,000
70	35.6	50.7	61,300
75	28.4	42.2	55,600
80	18.6	29.7	50,700

88.6 ft			
ft	°	ft	lb
20	81.5	94.0	272,100 c
22	80.2	93.6	248,200 b
24	78.9	93.2	228,100 b
26	77.5	92.7	210,800 b
28	76.2	92.2	195,900
30	74.8	91.6	182,900
32	73.5	91.0	171,400
34	72.1	90.3	161,200
36	70.7	89.6	152,100
38	69.4	88.8	143,900
40	68.0	88.0	135,800
42	66.5	87.1	126,400
44	65.1	86.1	118,100
46	63.6	85.1	110,800
48	62.2	84.0	104,200
50	60.7	82.8	98,300
55	56.8	79.6	86,000
60	52.8	75.9	76,200
65	48.5	71.6	68,100
70	43.9	66.6	61,500
75	38.9	60.6	55,800
80	33.2	53.3	51,000
85	26.4	44.1	46,700
90	17.1	30.6	43,000

98.4 ft			
ft	°	ft	lb
22	81.2	103.6	247,800 b
24	80.0	103.2	227,600 b
26	78.8	102.8	210,400
28	77.6	102.3	195,500
30	76.4	101.8	182,500
32	75.2	101.3	171,000
34	74.0	100.7	160,800
36	72.8	100.0	151,700
38	71.5	99.3	143,500
40	70.3	98.6	135,800
42	69.0	97.8	126,300
44	67.8	97.0	118,000
46	66.5	96.1	110,700
48	65.2	95.1	104,100
50	63.9	94.1	98,200
55	60.6	91.3	85,900
60	57.1	88.1	76,000
65	53.5	84.5	68,000
70	49.7	80.3	61,300
75	45.7	75.6	55,700
80	41.4	70.1	50,900
85	36.6	63.6	46,700
90	31.2	55.8	43,000
95	24.7	45.8	39,700
100	15.8	31.3	36,800



123,400 lb
+
45,100 lb



108.3 ft			
ft	°	ft	lb
24	80.9	113.3	227,500 b
26	79.8	112.9	210,300
28	78.7	112.4	195,400
30	77.7	112.0	182,400
32	76.6	111.5	170,900
34	75.5	110.9	160,700
36	74.4	110.4	151,600
38	73.3	109.7	143,400
40	72.1	109.1	135,900
42	71.0	108.4	126,400
44	69.9	107.6	118,100
46	68.8	106.8	110,700
48	67.6	105.9	104,200
50	66.4	105.0	98,300
55	63.5	102.6	85,900
60	60.5	99.8	76,100
65	57.3	96.6	68,100
70	54.1	93.1	61,400
75	50.7	89.0	55,800
80	47.1	84.5	51,000
85	43.3	79.3	46,800
90	39.2	73.4	43,100
95	34.7	66.4	39,900
100	29.5	58.1	37,000
105	23.3	47.4	34,400

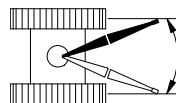
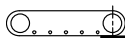
118.1 ft			
ft	°	ft	lb
24	81.7	123.2	215,500 b
26	80.7	122.9	209,500
28	79.7	122.5	195,000
30	78.7	122.1	181,900
32	77.7	121.6	170,500
34	76.7	121.1	160,300
36	75.7	120.6	151,200
38	74.7	120.0	143,000
40	73.7	119.4	135,600
42	72.7	118.8	126,300
44	71.6	118.1	118,000
46	70.6	117.4	110,600
48	69.6	116.6	104,000
50	68.5	115.8	98,100
55	65.9	113.6	85,800
60	63.2	111.1	75,900
65	60.4	108.3	67,900
70	57.5	105.1	61,200
75	54.6	101.6	55,600
80	51.5	97.7	50,800
85	48.2	93.3	46,600
90	44.8	88.4	42,900
95	41.2	82.8	39,700
100	37.3	76.5	36,800
105	32.9	69.0	34,300
110	28.0	60.2	31,900
115	22.0	48.9	29,800

128.0 ft			
ft	°	ft	lb
26	81.4	132.9	197,100
28	80.5	132.5	192,000
30	79.6	132.1	181,600
32	78.7	131.7	170,200
34	77.8	131.3	160,000
36	76.8	130.8	150,900
38	75.9	130.3	142,700
40	75.0	129.7	135,300
42	74.0	129.1	126,200
44	73.1	128.5	117,800
46	72.2	127.8	110,500
48	71.2	127.1	103,900
50	70.3	126.4	98,000
55	67.8	124.4	85,600
60	65.4	122.1	75,800
65	62.9	119.6	67,700
70	60.3	116.7	61,100
75	57.7	113.6	55,400
80	54.9	110.1	50,600
85	52.1	106.3	46,400
90	49.2	102.1	42,800
95	46.1	97.3	39,600
100	42.9	92.1	36,700
105	39.4	86.1	34,200
110	35.6	79.4	31,800
115	31.4	71.5	29,800
120	26.7	62.1	27,800
125	20.9	50.2	26,100

74A



123,400 lb
+
45,100 lb



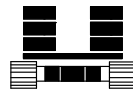
137.8 ft			
ft	°	ft	lb
28	81.2	142.5	183,300
30	80.3	142.2	178,700
32	79.5	141.8	169,700
34	78.6	141.4	159,500
36	77.8	140.9	150,500
38	76.9	140.4	142,300
40	76.1	139.9	134,900
42	75.2	139.4	126,000
44	74.4	138.8	117,700
46	73.5	138.2	110,300
48	72.6	137.5	103,700
50	71.7	136.8	97,800
55	69.5	135.0	85,400
60	67.3	132.9	75,500
65	65.0	130.6	67,500
70	62.6	128.0	60,800
75	60.2	125.2	55,200
80	57.8	122.1	50,400
85	55.3	118.7	46,200
90	52.7	114.9	42,500
95	50.0	110.8	39,300
100	47.2	106.2	36,500
105	44.2	101.2	33,900
110	41.1	95.6	31,600
115	37.7	89.3	29,500
120	34.1	82.1	27,600
125	30.1	73.9	25,900
130	25.5	64.0	24,300
135	19.9	51.5	22,800

147.6 ft			
ft	°	ft	lb
30	81.0	152.2	168,900
32	80.2	151.8	165,100
34	79.4	151.4	159,900
36	78.6	151.0	150,800
38	77.8	150.5	142,600
40	77.0	150.1	135,200
42	76.2	149.6	126,400
44	75.4	149.0	118,100
46	74.6	148.5	110,700
48	73.8	147.9	104,100
50	73.0	147.2	98,200
55	70.9	145.5	85,800
60	68.9	143.6	75,900
65	66.8	141.5	67,900
70	64.6	139.1	61,200
75	62.4	136.5	55,600
80	60.2	133.7	50,800
85	57.9	130.6	46,600
90	55.6	127.2	42,900
95	53.2	123.5	39,700
100	50.7	119.5	36,900
105	48.1	115.0	34,300
110	45.4	110.2	32,000
115	42.5	104.8	29,900
120	39.5	98.9	28,000
125	36.3	92.3	26,300
130	32.8	84.8	24,700
135	28.9	76.1	23,200
140	24.4	65.7	21,900
145	19.0	52.6	20,600

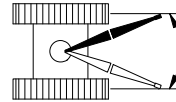
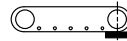
157.5 ft			
ft	°	ft	lb
30	81.6	162.1	158,300
32	80.8	161.8	155,000
34	80.1	161.4	151,800
36	79.3	161.0	148,600
38	78.6	160.6	142,200
40	77.9	160.2	134,800
42	77.1	159.7	126,200
44	76.4	159.2	117,900
46	75.6	158.7	110,500
48	74.8	158.1	103,900
50	74.1	157.5	98,000
55	72.2	155.9	85,600
60	70.3	154.2	75,700
65	68.3	152.2	67,600
70	66.3	150.0	60,900
75	64.3	147.6	55,300
80	62.2	145.0	50,500
85	60.2	142.2	46,300
90	58.0	139.1	42,700
95	55.8	135.7	39,400
100	53.6	132.1	36,600
105	51.2	128.1	34,000
110	48.8	123.8	31,700
115	46.3	119.1	29,700
120	43.7	113.9	27,800
125	41.0	108.3	26,000
130	38.1	102.1	24,400
135	35.0	95.1	23,000
140	31.6	87.2	21,600
145	27.8	78.2	20,400
150	23.5	67.4	19,200
155	18.2	53.6	18,100

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



167.3 ft			
ft	°	ft	lb
32	81.4	171.8	145,900
34	80.7	171.4	143,100
36	80.0	171.1	140,400
38	79.3	170.7	137,600
40	78.6	170.3	134,400
42	77.9	169.8	126,000
44	77.2	169.4	117,700
46	76.5	168.9	110,300
48	75.8	168.3	103,700
50	75.1	167.8	97,800
55	73.3	166.3	85,300
60	71.5	164.6	75,500
65	69.6	162.8	67,400
70	67.8	160.8	60,700
75	65.9	158.5	55,100
80	64.0	156.1	50,200
85	62.1	153.5	46,100
90	60.1	150.6	42,400
95	58.1	147.6	39,200
100	56.0	144.2	36,400
105	53.9	140.6	33,800
110	51.8	136.7	31,500
115	49.5	132.5	29,400
120	47.2	127.9	27,500
125	44.8	123.0	25,800
130	42.3	117.6	24,200
135	39.6	111.6	22,800
140	36.8	105.1	21,400
145	33.8	97.8	20,200
150	30.5	89.6	19,000
155	26.8	80.2	17,900
160	22.6	68.9	16,900
165	17.4	54.6	15,900

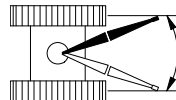
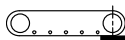
177.2 ft			
ft	°	ft	lb
34	81.2	181.4	134,100
36	80.5	181.1	131,500
38	79.9	180.7	128,900
40	79.2	180.3	126,400
42	78.6	179.9	123,800
44	77.9	179.5	117,500
46	77.2	179.0	110,100
48	76.6	178.5	103,500
50	75.9	178.0	97,500
55	74.2	176.6	85,100
60	72.5	175.0	75,200
65	70.8	173.3	67,100
70	69.1	171.4	60,400
75	67.3	169.3	54,800
80	65.6	167.1	49,900
85	63.8	164.6	45,800
90	61.9	162.0	42,100
95	60.1	159.1	38,900
100	58.2	156.0	36,000
105	56.2	152.7	33,500
110	54.3	149.2	31,200
115	52.2	145.3	29,100
120	50.1	141.2	27,200
125	48.0	136.7	25,500
130	45.7	131.9	23,900
135	43.4	126.7	22,400
140	40.9	121.1	21,100
145	38.4	114.9	19,800
150	35.6	108.0	18,700
155	32.7	100.5	17,600
160	29.5	91.9	16,600
165	25.9	82.1	15,600
170	21.8	70.4	14,700
175	16.7	55.5	13,900

187.0 ft			
ft	°	ft	lb
34	81.7	191.4	127,000
36	81.0	191.1	124,400
38	80.4	190.7	121,900
40	79.8	190.4	119,600
42	79.2	190.0	117,200
44	78.6	189.5	114,800
46	77.9	189.1	109,900
48	77.3	188.6	103,300
50	76.7	188.1	97,400
55	75.1	186.8	84,900
60	73.5	185.3	75,000
65	71.9	183.7	66,900
70	70.2	181.9	60,200
75	68.6	180.0	54,600
80	66.9	177.9	49,800
85	65.3	175.6	45,600
90	63.5	173.1	41,900
95	61.8	170.5	38,700
100	60.0	167.6	35,800
105	58.2	164.5	33,300
110	56.4	161.2	31,000
115	54.5	157.7	28,900
120	52.6	153.9	27,000
125	50.6	149.9	25,300
130	48.6	145.5	23,700
135	46.5	140.8	22,300
140	44.3	135.8	20,900
145	42.1	130.3	19,700
150	39.7	124.4	18,500
155	37.2	117.9	17,400
160	34.5	110.8	16,400
165	31.7	103.0	15,500
170	28.6	94.1	14,600
175	25.1	83.9	13,700
180	21.1	71.8	12,900
185	16.1	56.2	12,200

74A



123,400 lb
+
45,100 lb



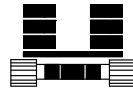
196.9 ft			
ft	°	ft	lb
36	81.5	201.1	114,600
38	80.9	200.7	113,300
40	80.3	200.4	112,000
42	79.7	200.0	110,600
44	79.1	199.6	108,400
46	78.5	199.2	106,300
48	77.9	198.7	103,100
50	77.3	198.3	97,100
55	75.8	197.0	84,700
60	74.3	195.6	74,700
65	72.8	194.1	66,700
70	71.3	192.4	59,900
75	69.7	190.6	54,300
80	68.2	188.6	49,400
85	66.6	186.4	45,300
90	65.0	184.1	41,600
95	63.3	181.6	38,400
100	61.7	178.9	35,500
105	60.0	176.1	33,000
110	58.3	173.0	30,700
115	56.6	169.7	28,600
120	54.8	166.2	26,700
125	53.0	162.5	25,000
130	51.1	158.5	23,400
135	49.2	154.2	21,900
140	47.2	149.7	20,600
145	45.2	144.8	19,300
150	43.1	139.5	18,200
155	40.9	133.8	17,100
160	38.6	127.6	16,100
165	36.1	120.9	15,100
170	33.5	113.6	14,300
175	30.7	105.4	13,400
180	27.7	96.2	12,600
185	24.3	85.6	11,900
190	20.4	73.1	11,200
195	15.4	57.0	10,500

206.7 ft			
ft	°	ft	lb
38	81.3	210.7	101,600
40	80.8	210.4	100,400
42	80.2	210.0	99,300
44	79.7	209.6	98,200
46	79.1	209.2	97,100
48	78.5	208.8	96,100
50	78.0	208.4	95,000
55	76.5	207.2	84,400
60	75.1	205.9	74,500
65	73.7	204.4	66,400
70	72.2	202.8	59,700
75	70.7	201.1	54,000
80	69.3	199.2	49,200
85	67.8	197.2	45,000
90	66.2	195.0	41,300
95	64.7	192.6	38,100
100	63.2	190.1	35,200
105	61.6	187.4	32,700
110	60.0	184.6	30,400
115	58.4	181.5	28,300
120	56.7	178.2	26,400
125	55.0	174.8	24,700
130	53.3	171.1	23,100
135	51.5	167.1	21,700
140	49.7	162.9	20,300
145	47.9	158.5	19,100
150	45.9	153.7	17,900
155	44.0	148.6	16,800
160	41.9	143.1	15,800
165	39.8	137.2	14,900
170	37.5	130.8	14,000
175	35.1	123.8	13,200
180	32.6	116.2	12,400
185	29.9	107.7	11,600
190	26.9	98.2	10,900
195	23.6	87.3	10,200
200	19.7	74.3	9,600

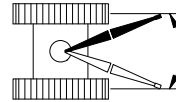
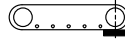
216.5 ft			
ft	°	ft	lb
40	81.2	220.3	89,700
42	80.7	220.0	88,700
44	80.1	219.6	87,600
46	79.6	219.3	86,700
48	79.1	218.9	85,700
50	78.5	218.4	84,700
55	77.2	217.3	82,500
60	75.8	216.1	74,200
65	74.4	214.7	66,100
70	73.0	213.2	59,400
75	71.6	211.5	53,700
80	70.2	209.7	48,900
85	68.8	207.8	44,700
90	67.4	205.7	41,000
95	65.9	203.5	37,800
100	64.5	201.1	34,900
105	63.0	198.6	32,400
110	61.5	195.9	30,100
115	60.0	193.0	28,000
120	58.4	190.0	26,100
125	56.8	186.7	24,300
130	55.2	183.3	22,800
135	53.6	179.6	21,300
140	51.9	175.7	20,000
145	50.2	171.6	18,700
150	48.4	167.2	17,600
155	46.6	162.6	16,500
160	44.8	157.6	15,500
165	42.8	152.2	14,500
170	40.8	146.5	13,700
175	38.7	140.4	12,800
180	36.5	133.8	12,000
185	34.2	126.6	11,300
190	31.7	118.7	10,600
195	29.1	110.0	9,900
200	26.2	100.2	9,300
205	22.9	88.9	8,700
210	19.1	75.5	8,100

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb

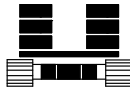


226.4 ft			
ft	°	ft	lb
40	81.6	230.3	81,000
42	81.1	230.0	80,000
44	80.6	229.6	79,100
46	80.1	229.3	78,100
48	79.5	228.9	77,200
50	79.0	228.5	76,400
55	77.7	227.4	74,300
60	76.4	226.2	72,300
65	75.1	224.9	65,900
70	73.8	223.5	59,200
75	72.5	221.9	53,500
80	71.1	220.2	48,600
85	69.8	218.4	44,400
90	68.4	216.4	40,800
95	67.1	214.3	37,500
100	65.7	212.0	34,700
105	64.3	209.6	32,100
110	62.8	207.1	29,800
115	61.4	204.4	27,700
120	59.9	201.5	25,800
125	58.5	198.5	24,100
130	57.0	195.2	22,500
135	55.4	191.8	21,100
140	53.9	188.2	19,700
145	52.3	184.3	18,500
150	50.6	180.3	17,300
155	49.0	176.0	16,300
160	47.2	171.4	15,200
165	45.5	166.5	14,300
170	43.7	161.3	13,400
175	41.8	155.8	12,600
180	39.8	149.9	11,800
185	37.8	143.6	11,100
190	35.6	136.7	10,400
195	33.4	129.3	9,700
200	30.9	121.1	9,100
205	28.3	112.1	8,500
210	25.5	102.0	7,900
215	22.3	90.4	7,300
220	18.5	76.6	6,800

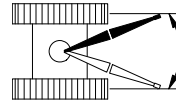
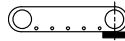
236.2 ft			
ft	°	ft	lb
42	81.5	240.0	79,200
44	81.0	239.6	79,000
46	80.5	239.3	78,900
48	80.0	238.9	78,700
50	79.5	238.5	78,600
55	78.2	237.5	78,100
60	77.0	236.4	73,300
65	75.8	235.1	65,200
70	74.5	233.7	58,400
75	73.2	232.2	52,800
80	72.0	230.6	47,900
85	70.7	228.9	43,700
90	69.4	227.0	40,000
95	68.1	225.0	36,800
100	66.7	222.8	33,900
105	65.4	220.6	31,400
110	64.1	218.1	29,000
115	62.7	215.6	27,000
120	61.3	212.9	25,100
125	59.9	210.0	23,300
130	58.5	206.9	21,700
135	57.1	203.7	20,300
140	55.6	200.3	18,900
145	54.1	196.7	17,700
150	52.6	192.9	16,500
155	51.0	188.9	15,500
160	49.4	184.7	14,500
165	47.8	180.2	13,500
170	46.1	175.4	12,600
175	44.4	170.4	11,800
180	42.6	165.0	11,000
185	40.8	159.3	10,300
190	38.9	153.2	9,600
195	36.9	146.6	8,900
200	34.8	139.5	8,300
205	32.5	131.9	7,700
210	30.2	123.5	7,000
215	27.6	114.2	6,400
220	24.8	103.8	5,800
225	21.7	91.9	5,200
230	18.0	77.6	4,600

246.1 ft			
ft	°	ft	lb
44	81.3	249.6	71,900
46	80.9	249.3	71,700
48	80.4	248.9	71,600
50	79.9	248.6	71,400
55	78.7	247.6	71,000
60	77.5	246.5	70,600
65	76.3	245.3	64,900
70	75.1	243.9	58,200
75	73.9	242.5	52,500
80	72.7	241.0	47,600
85	71.5	239.3	43,400
90	70.2	237.5	39,700
95	69.0	235.6	36,500
100	67.7	233.6	33,600
105	66.5	231.4	31,000
110	65.2	229.1	28,700
115	63.9	226.6	26,600
120	62.6	224.1	24,700
125	61.3	221.3	23,000
130	59.9	218.5	21,400
135	58.5	215.4	20,000
140	57.2	212.2	18,600
145	55.8	208.8	17,400
150	54.3	205.3	16,200
155	52.9	201.5	15,100
160	51.4	197.5	14,100
165	49.9	193.4	13,200
170	48.3	189.0	12,300
175	46.7	184.3	11,500
180	45.1	179.4	10,700
185	43.4	174.1	10,000
190	41.7	168.6	9,300
195	39.9	162.7	8,600
200	38.0	156.3	8,000
205	36.0	149.6	7,300
210	34.0	142.3	6,600
215	31.8	134.4	6,000
220	29.5	125.8	5,400
225	27.0	116.3	4,800
230	24.2	105.6	4,200
235	21.1	93.3	3,700
240	17.5	78.6	3,100

74A



123,400 lb
+
45,100 lb



255.9 ft			
ft	°	ft	lb
44	81.7	259.6	65,500
46	81.2	259.3	65,400
48	80.8	258.9	65,200
50	80.3	258.6	65,000
55	79.2	257.6	64,600
60	78.0	256.6	64,200
65	76.9	255.4	63,300
70	75.7	254.1	57,800
75	74.6	252.8	52,100
80	73.4	251.3	47,300
85	72.2	249.7	43,100
90	71.0	248.0	39,400
95	69.8	246.1	36,100
100	68.6	244.2	33,300
105	67.4	242.1	30,700
110	66.2	239.9	28,400
115	65.0	237.6	26,300
120	63.7	235.2	24,400
125	62.5	232.6	22,700
130	61.2	229.8	21,100
135	59.9	226.9	19,600
140	58.6	223.9	18,300
145	57.3	220.7	17,000
150	55.9	217.3	15,900
155	54.5	213.8	14,800
160	53.1	210.1	13,800
165	51.7	206.2	12,800
170	50.3	202.0	11,900
175	48.8	197.7	11,100
180	47.3	193.1	10,300
185	45.7	188.3	9,600
190	44.1	183.2	8,900
195	42.5	177.8	8,100
200	40.8	172.0	7,400
205	39.0	165.9	6,700
210	37.2	159.4	6,100
215	35.2	152.5	5,400
220	33.2	145.0	4,800
225	31.1	136.9	4,200
230	28.8	128.0	3,700
235	26.3	118.2	3,200

265.7 ft			
ft	°	ft	lb
46	81.5	269.2	60,600
48	81.1	268.9	60,500
50	80.7	268.6	60,400
55	79.6	267.6	60,000
60	78.5	266.6	59,700
65	77.4	265.5	59,300
70	76.3	264.3	57,600
75	75.1	263.0	51,900
80	74.0	261.6	47,000
85	72.9	260.0	42,800
90	71.8	258.4	39,100
95	70.6	256.6	35,800
100	69.5	254.8	33,000
105	68.3	252.8	30,400
110	67.1	250.7	28,100
115	66.0	248.5	26,000
120	64.8	246.1	24,100
125	63.6	243.7	22,400
130	62.3	241.0	20,800
135	61.1	238.3	19,300
140	59.9	235.4	18,000
145	58.6	232.4	16,700
150	57.3	229.2	15,600
155	56.0	225.8	14,500
160	54.7	222.3	13,500
165	53.4	218.6	12,500
170	52.0	214.8	11,600
175	50.6	210.7	10,800
180	49.2	206.4	10,000
185	47.8	201.9	9,300
190	46.3	197.2	8,500
195	44.7	192.2	7,700
200	43.2	186.9	7,000
205	41.6	181.3	6,300
210	39.9	175.4	5,600
215	38.2	169.1	5,000
220	36.4	162.4	4,400
225	34.5	155.3	3,800
230	32.5	147.6	3,300

275.6 ft			
ft	°	ft	lb
48	81.4	278.9	54,900
50	81.0	278.5	54,800
55	79.9	277.7	54,400
60	78.9	276.7	54,100
65	77.8	275.6	53,400
70	76.8	274.4	52,500
75	75.7	273.2	51,500
80	74.6	271.8	46,700
85	73.5	270.3	42,400
90	72.4	268.8	38,700
95	71.3	267.1	35,500
100	70.2	265.3	32,600
105	69.1	263.4	30,000
110	68.0	261.4	27,700
115	66.9	259.2	25,600
120	65.7	257.0	23,700
125	64.6	254.6	22,000
130	63.4	252.2	20,400
135	62.2	249.5	18,900
140	61.1	246.8	17,600
145	59.9	243.9	16,300
150	58.6	240.9	15,200
155	57.4	237.7	14,100
160	56.2	234.4	13,100
165	54.9	230.9	12,200
170	53.6	227.2	11,300
175	52.3	223.4	10,400
180	51.0	219.3	9,600
185	49.6	215.1	8,700
190	48.2	210.7	7,900
195	46.8	206.0	7,200
200	45.3	201.1	6,400
205	43.8	196.0	5,700
210	42.3	190.5	5,100
215	40.7	184.8	4,500
220	39.1	178.7	3,900
225	37.4	172.2	3,300