

Liftcrane Boom Capacities

Boom No. 74A

123,400 lb Crane Counterweight

45,100 lb Carbody Counterweight

360 Degree Rating

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 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. 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, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's 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 Specification chart **No. 9404-A**.



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

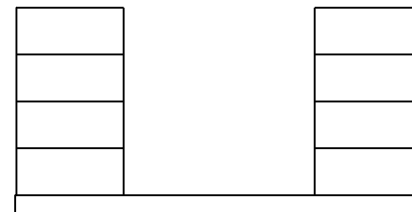


BOOM ANGLE: Boom angle in degrees ($^{\circ}$) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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 **Tables 1 and 2** 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 End or Side of 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	#	#	#	a		
226.4	1,600	#	a				
236.2	#						
246.1	b						
255.9	a, b						
265.9 - 275.6							

Table 2

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		
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



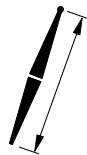
Boom No. 74A



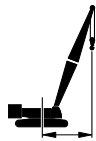
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)

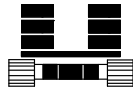


Lifting Capacities
(see page 1)

REFERENCE ONLY!

MLC165-1 S-2

ASME B30.5



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	188,300
30	61.7	48.9	169,300
32	58.9	47.7	153,600
34	56.1	46.3	140,500
36	53.1	44.7	129,300
38	50.0	43.0	119,600
40	46.8	41.0	111,200
42	43.3	38.8	103,800
44	39.6	36.4	97,300
46	35.6	33.5	91,400
48	31.0	30.1	86,100
50	25.6	26.0	81,300

59.1 ft

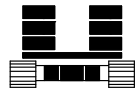
ft	°	ft	lb
16	81.1	64.7	334,800 d
17	80.1	64.5	318,800 d
18	79.1	64.3	302,100 d
19	78.1	64.0	287,000 c
20	77.1	63.8	273,300 c
22	75.1	63.2	249,400 c
24	73.1	62.5	229,200 b
26	71.0	61.8	211,900 b
28	68.9	61.0	188,700
30	66.8	60.1	169,700
32	64.6	59.1	154,000
34	62.4	58.0	140,800
36	60.2	56.8	129,600
38	57.8	55.5	120,000
40	55.5	54.1	111,500
42	53.0	52.5	104,200
44	50.4	50.8	97,600
46	47.8	48.9	91,800
48	45.0	46.9	86,500
50	42.1	44.6	81,800
55	33.8	37.7	71,700
60	22.7	27.4	63,500

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	188,400
30	70.3	70.8	169,300
32	68.5	70.0	153,600
34	66.7	69.1	140,500
36	64.8	68.1	129,300
38	62.9	67.0	119,600
40	61.0	65.9	111,200
42	59.1	64.6	103,800
44	57.1	63.3	97,300
46	55.0	61.9	91,500
48	52.9	60.3	86,200
50	50.7	58.6	81,500
55	45.0	53.8	71,500
60	38.5	47.8	63,400
65	30.8	40.0	56,700
70	20.5	28.7	51,100

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



360°

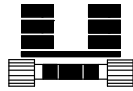
78.7 ft			
ft	°	ft	lb
19	81.2	84.2	286,000 c
20	80.4	84.0	272,300 c
22	78.9	83.5	248,400 b
24	77.4	83.1	228,200 b
26	75.9	82.5	211,000 b
28	74.4	81.9	188,500
30	72.9	81.3	169,400
32	71.3	80.6	153,700
34	69.8	79.8	140,500
36	68.2	79.0	129,300
38	66.6	78.1	119,700
40	65.0	77.1	111,200
42	63.3	76.1	103,900
44	61.7	74.9	97,300
46	60.0	73.8	91,500
48	58.3	72.5	86,300
50	56.5	71.1	81,500
55	51.9	67.3	71,500
60	47.0	62.8	63,500
65	41.6	57.3	56,800
70	35.6	50.7	51,300
75	28.4	42.2	46,500
80	18.6	29.7	42,300

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	188,600
30	74.8	91.6	169,600
32	73.5	91.0	153,800
34	72.1	90.3	140,600
36	70.7	89.6	129,400
38	69.4	88.8	119,700
40	68.0	88.0	111,300
42	66.5	87.1	103,900
44	65.1	86.1	97,400
46	63.6	85.1	91,600
48	62.2	84.0	86,300
50	60.7	82.8	81,600
55	56.8	79.6	71,600
60	52.8	75.9	63,600
65	48.5	71.6	56,900
70	43.9	66.6	51,400
75	38.9	60.6	46,700
80	33.2	53.3	42,600
85	26.4	44.1	39,000
90	17.1	30.6	35,900

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	188,600
30	76.4	101.8	169,500
32	75.2	101.3	153,800
34	74.0	100.7	140,500
36	72.8	100.0	129,300
38	71.5	99.3	119,600
40	70.3	98.6	111,200
42	69.0	97.8	103,800
44	67.8	97.0	97,300
46	66.5	96.1	91,400
48	65.2	95.1	86,200
50	63.9	94.1	81,500
55	60.6	91.3	71,500
60	57.1	88.1	63,400
65	53.5	84.5	56,800
70	49.7	80.3	51,300
75	45.7	75.6	46,600
80	41.4	70.1	42,500
85	36.6	63.6	39,000
90	31.2	55.8	35,900
95	24.7	45.8	33,100
100	15.8	31.3	30,600

MLC165-1 S-2

ASME B30.5



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	188,700
30	77.7	112.0	169,600
32	76.6	111.5	153,800
34	75.5	110.9	140,600
36	74.4	110.4	129,400
38	73.3	109.7	119,700
40	72.1	109.1	111,300
42	71.0	108.4	103,900
44	69.9	107.6	97,300
46	68.8	106.8	91,500
48	67.6	105.9	86,200
50	66.4	105.0	81,500
55	63.5	102.6	71,500
60	60.5	99.8	63,500
65	57.3	96.6	56,800
70	54.1	93.1	51,300
75	50.7	89.0	46,600
80	47.1	84.5	42,600
85	43.3	79.3	39,100
90	39.2	73.4	36,000
95	34.7	66.4	33,200
100	29.5	58.1	30,800
105	23.3	47.4	28,500

118.1 ft

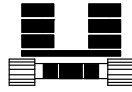
ft	°	ft	lb
24	81.7	123.2	215,500 b
26	80.7	122.9	209,500
28	79.7	122.5	188,700
30	78.7	122.1	169,500
32	77.7	121.6	153,700
34	76.7	121.1	140,500
36	75.7	120.6	129,200
38	74.7	120.0	119,500
40	73.7	119.4	111,100
42	72.7	118.8	103,700
44	71.6	118.1	97,100
46	70.6	117.4	91,300
48	69.6	116.6	86,000
50	68.5	115.8	81,300
55	65.9	113.6	71,300
60	63.2	111.1	63,200
65	60.4	108.3	56,600
70	57.5	105.1	51,100
75	54.6	101.6	46,400
80	51.5	97.7	42,400
85	48.2	93.3	38,800
90	44.8	88.4	35,800
95	41.2	82.8	33,000
100	37.3	76.5	30,600
105	32.9	69.0	28,400
110	28.0	60.2	26,400
115	22.0	48.9	24,600

128.0 ft

ft	°	ft	lb
26	81.4	132.9	197,100
28	80.5	132.5	188,600
30	79.6	132.1	169,400
32	78.7	131.7	153,600
34	77.8	131.3	140,400
36	76.8	130.8	129,100
38	75.9	130.3	119,400
40	75.0	129.7	110,900
42	74.0	129.1	103,500
44	73.1	128.5	97,000
46	72.2	127.8	91,100
48	71.2	127.1	85,900
50	70.3	126.4	81,100
55	67.8	124.4	71,100
60	65.4	122.1	63,100
65	62.9	119.6	56,500
70	60.3	116.7	50,900
75	57.7	113.6	46,200
80	54.9	110.1	42,200
85	52.1	106.3	38,700
90	49.2	102.1	35,600
95	46.1	97.3	32,900
100	42.9	92.1	30,500
105	39.4	86.1	28,300
110	35.6	79.4	26,300
115	31.4	71.5	24,500
120	26.7	62.1	22,900
125	20.9	50.2	21,300

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



137.8 ft

ft	°	ft	lb
28	81.2	142.5	183,300
30	80.3	142.2	169,300
32	79.5	141.8	153,500
34	78.6	141.4	140,200
36	77.8	140.9	128,900
38	76.9	140.4	119,200
40	76.1	139.9	110,700
42	75.2	139.4	103,300
44	74.4	138.8	96,700
46	73.5	138.2	90,900
48	72.6	137.5	85,600
50	71.7	136.8	80,900
55	69.5	135.0	70,900
60	67.3	132.9	62,800
65	65.0	130.6	56,200
70	62.6	128.0	50,700
75	60.2	125.2	46,000
80	57.8	122.1	41,900
85	55.3	118.7	38,400
90	52.7	114.9	35,300
95	50.0	110.8	32,600
100	47.2	106.2	30,200
105	44.2	101.2	28,000
110	41.1	95.6	26,000
115	37.7	89.3	24,200
120	34.1	82.1	22,600
125	30.1	73.9	21,100
130	25.5	64.0	19,700
135	19.9	51.5	18,400

147.6 ft

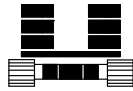
ft	°	ft	lb
30	81.0	152.2	168,900
32	80.2	151.8	153,900
34	79.4	151.4	140,600
36	78.6	151.0	129,300
38	77.8	150.5	119,600
40	77.0	150.1	111,100
42	76.2	149.6	103,700
44	75.4	149.0	97,100
46	74.6	148.5	91,300
48	73.8	147.9	86,000
50	73.0	147.2	81,300
55	70.9	145.5	71,300
60	68.9	143.6	63,200
65	66.8	141.5	56,600
70	64.6	139.1	51,000
75	62.4	136.5	46,300
80	60.2	133.7	42,300
85	57.9	130.6	38,800
90	55.6	127.2	35,700
95	53.2	123.5	33,000
100	50.7	119.5	30,600
105	48.1	115.0	28,400
110	45.4	110.2	26,500
115	42.5	104.8	24,700
120	39.5	98.9	23,100
125	36.3	92.3	21,600
130	32.8	84.8	20,200
135	28.9	76.1	18,900
140	24.4	65.7	17,700
145	19.0	52.6	16,600

157.5 ft

ft	°	ft	lb
30	81.6	162.1	158,300
32	80.8	161.8	153,700
34	80.1	161.4	140,400
36	79.3	161.0	129,100
38	78.6	160.6	119,400
40	77.9	160.2	110,900
42	77.1	159.7	103,500
44	76.4	159.2	96,900
46	75.6	158.7	91,000
48	74.8	158.1	85,800
50	74.1	157.5	81,000
55	72.2	155.9	71,000
60	70.3	154.2	62,900
65	68.3	152.2	56,300
70	66.3	150.0	50,700
75	64.3	147.6	46,000
80	62.2	145.0	42,000
85	60.2	142.2	38,500
90	58.0	139.1	35,400
95	55.8	135.7	32,700
100	53.6	132.1	30,300
105	51.2	128.1	28,100
110	48.8	123.8	26,200
115	46.3	119.1	24,400
120	43.7	113.9	22,800
125	41.0	108.3	21,300
130	38.1	102.1	19,900
135	35.0	95.1	18,600
140	31.6	87.2	17,500
145	27.8	78.2	16,400
150	23.5	67.4	15,400
155	18.2	53.6	14,400

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	140,200
36	80.0	171.1	128,900
38	79.3	170.7	119,200
40	78.6	170.3	110,700
42	77.9	169.8	103,300
44	77.2	169.4	96,700
46	76.5	168.9	90,800
48	75.8	168.3	85,600
50	75.1	167.8	80,800
55	73.3	166.3	70,800
60	71.5	164.6	62,700
65	69.6	162.8	56,100
70	67.8	160.8	50,500
75	65.9	158.5	45,800
80	64.0	156.1	41,800
85	62.1	153.5	38,300
90	60.1	150.6	35,200
95	58.1	147.6	32,500
100	56.0	144.2	30,000
105	53.9	140.6	27,900
110	51.8	136.7	25,900
115	49.5	132.5	24,100
120	47.2	127.9	22,500
125	44.8	123.0	21,000
130	42.3	117.6	19,700
135	39.6	111.6	18,400
140	36.8	105.1	17,300
145	33.8	97.8	16,200
150	30.5	89.6	15,200
155	26.8	80.2	14,200
160	22.6	68.9	13,300
165	17.4	54.6	12,500

177.2 ft

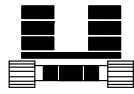
ft	°	ft	lb
34	81.2	181.4	134,100
36	80.5	181.1	128,700
38	79.9	180.7	119,000
40	79.2	180.3	110,500
42	78.6	179.9	103,000
44	77.9	179.5	96,400
46	77.2	179.0	90,600
48	76.6	178.5	85,300
50	75.9	178.0	80,500
55	74.2	176.6	70,500
60	72.5	175.0	62,400
65	70.8	173.3	55,700
70	69.1	171.4	50,200
75	67.3	169.3	45,500
80	65.6	167.1	41,400
85	63.8	164.6	37,900
90	61.9	162.0	34,900
95	60.1	159.1	32,100
100	58.2	156.0	29,700
105	56.2	152.7	27,500
110	54.3	149.2	25,600
115	52.2	145.3	23,800
120	50.1	141.2	22,200
125	48.0	136.7	20,700
130	45.7	131.9	19,300
135	43.4	126.7	18,100
140	40.9	121.1	16,900
145	38.4	114.9	15,800
150	35.6	108.0	14,800
155	32.7	100.5	13,900
160	29.5	91.9	13,000
165	25.9	82.1	12,200
170	21.8	70.4	11,400
175	16.7	55.5	10,600

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	118,800
40	79.8	190.4	110,300
42	79.2	190.0	102,900
44	78.6	189.5	96,300
46	77.9	189.1	90,400
48	77.3	188.6	85,100
50	76.7	188.1	80,400
55	75.1	186.8	70,300
60	73.5	185.3	62,200
65	71.9	183.7	55,600
70	70.2	181.9	50,000
75	68.6	180.0	45,300
80	66.9	177.9	41,300
85	65.3	175.6	37,700
90	63.5	173.1	34,700
95	61.8	170.5	31,900
100	60.0	167.6	29,500
105	58.2	164.5	27,300
110	56.4	161.2	25,400
115	54.5	157.7	23,600
120	52.6	153.9	22,000
125	50.6	149.9	20,500
130	48.6	145.5	19,200
135	46.5	140.8	17,900
140	44.3	135.8	16,700
145	42.1	130.3	15,700
150	39.7	124.4	14,700
155	37.2	117.9	13,700
160	34.5	110.8	12,900
165	31.7	103.0	12,000
170	28.6	94.1	11,300
175	25.1	83.9	10,500
180	21.1	71.8	9,800
185	16.1	56.2	9,200

MLC165-1 S-2

ASME B30.5



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	110,100
42	79.7	200.0	102,600
44	79.1	199.6	96,000
46	78.5	199.2	90,100
48	77.9	198.7	84,800
50	77.3	198.3	80,100
55	75.8	197.0	70,000
60	74.3	195.6	61,900
65	72.8	194.1	55,200
70	71.3	192.4	49,700
75	69.7	190.6	45,000
80	68.2	188.6	40,900
85	66.6	186.4	37,400
90	65.0	184.1	34,300
95	63.3	181.6	31,600
100	61.7	178.9	29,200
105	60.0	176.1	27,000
110	58.3	173.0	25,000
115	56.6	169.7	23,300
120	54.8	166.2	21,700
125	53.0	162.5	20,200
130	51.1	158.5	18,800
135	49.2	154.2	17,600
140	47.2	149.7	16,400
145	45.2	144.8	15,300
150	43.1	139.5	14,300
155	40.9	133.8	13,400
160	38.6	127.6	12,500
165	36.1	120.9	11,700
170	33.5	113.6	10,900
175	30.7	105.4	10,200
180	27.7	96.2	9,500
185	24.3	85.6	8,900
190	20.4	73.1	8,200
195	15.4	57.0	7,600

206.7 ft

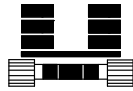
ft	°	ft	lb
38	81.3	210.7	101,600
40	80.8	210.4	100,400
42	80.2	210.0	99,300
44	79.7	209.6	95,800
46	79.1	209.2	89,900
48	78.5	208.8	84,600
50	78.0	208.4	79,800
55	76.5	207.2	69,700
60	75.1	205.9	61,600
65	73.7	204.4	55,000
70	72.2	202.8	49,400
75	70.7	201.1	44,700
80	69.3	199.2	40,600
85	67.8	197.2	37,100
90	66.2	195.0	34,000
95	64.7	192.6	31,300
100	63.2	190.1	28,900
105	61.6	187.4	26,700
110	60.0	184.6	24,800
115	58.4	181.5	23,000
120	56.7	178.2	21,400
125	55.0	174.8	19,900
130	53.3	171.1	18,500
135	51.5	167.1	17,300
140	49.7	162.9	16,100
145	47.9	158.5	15,100
150	45.9	153.7	14,100
155	44.0	148.6	13,100
160	41.9	143.1	12,200
165	39.8	137.2	11,400
170	37.5	130.8	10,700
175	35.1	123.8	9,900
180	32.6	116.2	9,300
185	29.9	107.7	8,600
190	26.9	98.2	8,000
195	23.6	87.3	7,400
200	19.7	74.3	6,800

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	84,300
50	78.5	218.4	79,600
55	77.2	217.3	69,400
60	75.8	216.1	61,300
65	74.4	214.7	54,700
70	73.0	213.2	49,100
75	71.6	211.5	44,400
80	70.2	209.7	40,300
85	68.8	207.8	36,800
90	67.4	205.7	33,700
95	65.9	203.5	31,000
100	64.5	201.1	28,500
105	63.0	198.6	26,400
110	61.5	195.9	24,400
115	60.0	193.0	22,600
120	58.4	190.0	21,000
125	56.8	186.7	19,500
130	55.2	183.3	18,200
135	53.6	179.6	16,900
140	51.9	175.7	15,800
145	50.2	171.6	14,700
150	48.4	167.2	13,700
155	46.6	162.6	12,800
160	44.8	157.6	11,900
165	42.8	152.2	11,100
170	40.8	146.5	10,300
175	38.7	140.4	9,600
180	36.5	133.8	8,900
185	34.2	126.6	8,300
190	31.7	118.7	7,600
195	29.1	110.0	7,100
200	26.2	100.2	6,500
205	22.9	88.9	6,000
210	19.1	75.5	5,500

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



226.4 ft

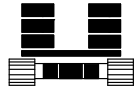
ft	°	ft	lb
40	81.6	230.3	81,000
42	81.1	230.0	80,000
44	80.6	229.6	79,100
46	80.1	229.3	78,100
48	79.5	228.9	77,200
50	79.0	228.5	76,400
55	77.7	227.4	69,200
60	76.4	226.2	61,100
65	75.1	224.9	54,400
70	73.8	223.5	48,900
75	72.5	221.9	44,100
80	71.1	220.2	40,100
85	69.8	218.4	36,600
90	68.4	216.4	33,500
95	67.1	214.3	30,700
100	65.7	212.0	28,300
105	64.3	209.6	26,100
110	62.8	207.1	24,200
115	61.4	204.4	22,400
120	59.9	201.5	20,800
125	58.5	198.5	19,300
130	57.0	195.2	17,900
135	55.4	191.8	16,700
140	53.9	188.2	15,500
145	52.3	184.3	14,500
150	50.6	180.3	13,500
155	49.0	176.0	12,500
160	47.2	171.4	11,700
165	45.5	166.5	10,800
170	43.7	161.3	10,100
175	41.8	155.8	9,400
180	39.8	149.9	8,700
185	37.8	143.6	8,000
190	35.6	136.7	7,400
195	33.4	129.3	6,900
200	30.9	121.1	6,300
205	28.3	112.1	5,800
210	25.5	102.0	5,300
215	22.3	90.4	4,700
220	18.5	76.6	4,100

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	68,500
60	77.0	236.4	60,400
65	75.8	235.1	53,700
70	74.5	233.7	48,100
75	73.2	232.2	43,400
80	72.0	230.6	39,300
85	70.7	228.9	35,800
90	69.4	227.0	32,700
95	68.1	225.0	30,000
100	66.7	222.8	27,500
105	65.4	220.6	25,400
110	64.1	218.1	23,400
115	62.7	215.6	21,600
120	61.3	212.9	20,000
125	59.9	210.0	18,500
130	58.5	206.9	17,100
135	57.1	203.7	15,900
140	55.6	200.3	14,700
145	54.1	196.7	13,700
150	52.6	192.9	12,700
155	51.0	188.9	11,700
160	49.4	184.7	10,900
165	47.8	180.2	10,000
170	46.1	175.4	9,300
175	44.4	170.4	8,600
180	42.6	165.0	7,900
185	40.8	159.3	7,200
190	38.9	153.2	6,600
195	36.9	146.6	6,000
200	34.8	139.5	5,400
205	32.5	131.9	4,800
210	30.2	123.5	4,200
215	27.6	114.2	3,600
220	24.8	103.8	3,100

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	68,200
60	77.5	246.5	60,100
65	76.3	245.3	53,400
70	75.1	243.9	47,800
75	73.9	242.5	43,100
80	72.7	241.0	39,000
85	71.5	239.3	35,500
90	70.2	237.5	32,400
95	69.0	235.6	29,700
100	67.7	233.6	27,200
105	66.5	231.4	25,000
110	65.2	229.1	23,100
115	63.9	226.6	21,300
120	62.6	224.1	19,700
125	61.3	221.3	18,200
130	59.9	218.5	16,800
135	58.5	215.4	15,600
140	57.2	212.2	14,400
145	55.8	208.8	13,300
150	54.3	205.3	12,300
155	52.9	201.5	11,400
160	51.4	197.5	10,500
165	49.9	193.4	9,700
170	48.3	189.0	9,000
175	46.7	184.3	8,200
180	45.1	179.4	7,600
185	43.4	174.1	6,900
190	41.7	168.6	6,300
195	39.9	162.7	5,600
200	38.0	156.3	4,900
205	36.0	149.6	4,300
210	34.0	142.3	3,700
215	31.8	134.4	3,200



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	59,800
65	76.9	255.4	53,100
70	75.7	254.1	47,500
75	74.6	252.8	42,800
80	73.4	251.3	38,700
85	72.2	249.7	35,100
90	71.0	248.0	32,000
95	69.8	246.1	29,300
100	68.6	244.2	26,900
105	67.4	242.1	24,700
110	66.2	239.9	22,700
115	65.0	237.6	20,900
120	63.7	235.2	19,300
125	62.5	232.6	17,800
130	61.2	229.8	16,400
135	59.9	226.9	15,200
140	58.6	223.9	14,000
145	57.3	220.7	13,000
150	55.9	217.3	12,000
155	54.5	213.8	11,000
160	53.1	210.1	10,200
165	51.7	206.2	9,300
170	50.3	202.0	8,600
175	48.8	197.7	7,900
180	47.3	193.1	7,200
185	45.7	188.3	6,400
190	44.1	183.2	5,700
195	42.5	177.8	5,000
200	40.8	172.0	4,400
205	39.0	165.9	3,800
210	37.2	159.4	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	59,500
65	77.4	265.5	52,800
70	76.3	264.3	47,200
75	75.1	263.0	42,400
80	74.0	261.6	38,400
85	72.9	260.0	34,800
90	71.8	258.4	31,700
95	70.6	256.6	29,000
100	69.5	254.8	26,600
105	68.3	252.8	24,400
110	67.1	250.7	22,400
115	66.0	248.5	20,600
120	64.8	246.1	19,000
125	63.6	243.7	17,500
130	62.3	241.0	16,100
135	61.1	238.3	14,900
140	59.9	235.4	13,700
145	58.6	232.4	12,700
150	57.3	229.2	11,700
155	56.0	225.8	10,700
160	54.7	222.3	9,900
165	53.4	218.6	9,000
170	52.0	214.8	8,300
175	50.6	210.7	7,500
180	49.2	206.4	6,700
185	47.8	201.9	6,000
190	46.3	197.2	5,300
195	44.7	192.2	4,600
200	43.2	186.9	4,000
205	41.6	181.3	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	52,500
70	76.8	274.4	46,900
75	75.7	273.2	42,100
80	74.6	271.8	38,000
85	73.5	270.3	34,500
90	72.4	268.8	31,400
95	71.3	267.1	28,600
100	70.2	265.3	26,200
105	69.1	263.4	24,000
110	68.0	261.4	22,000
115	66.9	259.2	20,200
120	65.7	257.0	18,600
125	64.6	254.6	17,100
130	63.4	252.2	15,800
135	62.2	249.5	14,500
140	61.1	246.8	13,400
145	59.9	243.9	12,300
150	58.6	240.9	11,300
155	57.4	237.7	10,300
160	56.2	234.4	9,500
165	54.9	230.9	8,700
170	53.6	227.2	7,800
175	52.3	223.4	7,000
180	51.0	219.3	6,200
185	49.6	215.1	5,400
190	48.2	210.7	4,700
195	46.8	206.0	4,000
200	45.3	201.1	3,400