

Liftcrane Boom Capacities

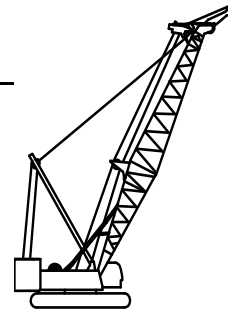
Boom No. 74

121,500 lb Crane Counterweight

35,300 lb Carbody Counterweight

Rating Over Front of Blocked Crawlers

No Travel - Limited Swing



MLC165 SERIES 2



LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load over front of machine with crawlers blocked. Capacities based on structural competence are denoted by an asterisk (*).

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 on Operating Range Diagram **No. 9294-A**. Refer to Boom Rigging **No. 81019793** or **No. 83004083**, Wire Rope Specification chart **No. 9292-A**, and Wind Conditions chart **No. 9289-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.

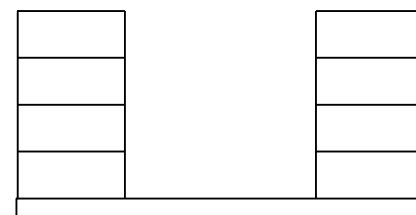


BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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, four 28 mm boom pendants, 121,500 lb crane counterweight, and two 17,650 lb carbody counterweights.



121,500 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.

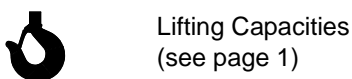
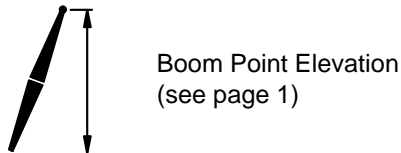
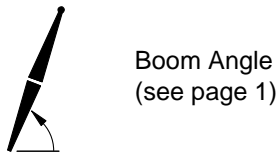
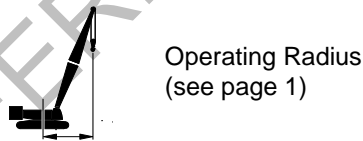
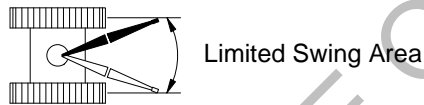
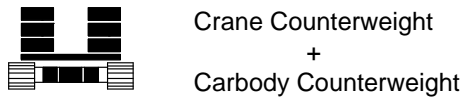
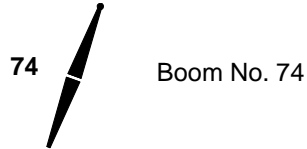
Caution: Combined weight beneath lower and/or upper boom point and jib point sheaves must not exceed block weight shown. Total weight beneath jib point must not exceed 4,000 lb.

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						

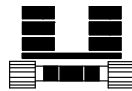
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius and crane configuration is within 360 degree chart.

Explanation of Symbols

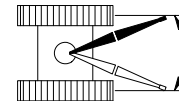
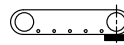


MLC165 S-2

ASME B30.5



121,500 lb
+
35,300 lb



49.2 ft

ft	°	ft	lb
14	81.7	55.2	363,800 *d
15	80.5	55.0	363,800 *d
16	79.3	54.8	342,100 *d
17	78.1	54.5	322,600 *d
18	76.9	54.3	305,100 *d
19	75.7	54.0	289,400 *d
20	74.5	53.7	275,200 *d
22	72.0	53.0	250,500 *c
24	69.5	52.2	229,700 *c
26	66.9	51.2	212,000 *b
28	64.3	50.2	196,700 *
30	61.7	49.1	183,200 *
32	58.9	47.8	171,300 *
34	56.1	46.4	160,800 *
36	53.1	44.9	151,400 *
38	50.0	43.1	143,000 *
40	46.8	41.2	135,300 *
42	43.3	39.0	126,900
44	39.6	36.5	118,600
46	35.6	33.6	111,100
48	31.0	30.3	104,500
50	25.6	26.1	98,500

59.1 ft

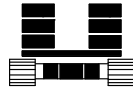
ft	°	ft	lb
16	81.1	64.8	337,800 *d
17	80.1	64.6	322,500 *d
18	79.1	64.4	305,000 *c
19	78.1	64.2	289,300 *c
20	77.1	63.9	275,100 *c
22	75.1	63.3	250,400 *c
24	73.1	62.7	229,700 *c
26	71.0	62.0	212,000 *b
28	68.9	61.1	196,700 *
30	66.8	60.2	183,300 *
32	64.6	59.2	171,400 *
34	62.4	58.1	160,800 *
36	60.2	56.9	151,500 *
38	57.8	55.6	143,100 *
40	55.5	54.2	135,500 *
42	53.0	52.7	127,500
44	50.4	50.9	119,200
46	47.8	49.1	111,800
48	45.0	47.0	105,200
50	42.1	44.8	99,200
55	33.8	37.8	86,700
60	22.7	27.6	76,600

68.9 ft

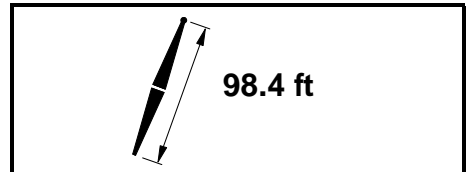
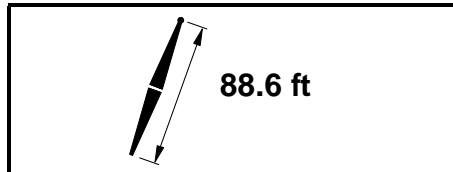
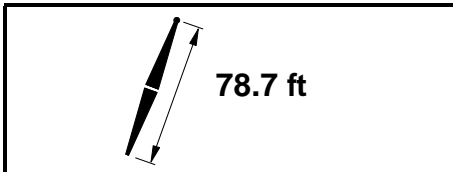
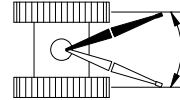
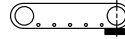
ft	°	ft	lb
17	81.6	74.7	315,200 *d
18	80.7	74.5	304,400 *c
19	79.9	74.3	288,700 *c
20	79.0	74.1	274,600 *c
22	77.3	73.6	249,900 *c
24	75.6	73.0	229,100 *c
26	73.8	72.4	211,400 *b
28	72.1	71.7	196,200 *
30	70.3	71.0	182,800 *
32	68.5	70.1	170,900 *
34	66.7	69.2	160,400 *
36	64.8	68.2	151,000 *
38	62.9	67.2	142,600 *
40	61.0	66.0	135,100 *
42	59.1	64.8	127,600
44	57.1	63.5	119,200
46	55.0	62.0	111,800
48	52.9	60.5	105,200
50	50.7	58.8	99,200
55	45.0	53.9	86,800
60	38.5	47.9	76,800
65	30.8	40.2	68,600
70	20.4	28.8	61,700

MLC165 S-2

ASME B30.5



121,500 lb
+
35,300 lb



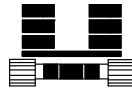
ft	°	ft	lb
19	81.1	84.3	288,400 *c
20	80.4	84.1	274,200 *c
22	78.9	83.7	249,500 *c
24	77.4	83.2	228,800 *c
26	75.9	82.7	211,100 *b
28	74.4	82.1	195,900 *b
30	72.9	81.4	182,500 *
32	71.3	80.7	170,600 *
34	69.8	80.0	160,100 *
36	68.2	79.1	150,800 *
38	66.6	78.2	142,400 *
40	65.0	77.2	134,800 *
42	63.3	76.2	127,600
44	61.7	75.1	119,300
46	60.0	73.9	111,900
48	58.3	72.6	105,200
50	56.5	71.3	99,300
55	51.9	67.4	86,800
60	47.0	62.9	76,900
65	41.6	57.5	68,800
70	35.6	50.8	62,000
75	28.4	42.3	56,200
80	18.6	29.8	51,200

ft	°	ft	lb
20	81.5	94.1	272,700 *c
22	80.2	93.7	249,400 *b
24	78.8	93.3	228,600 *b
26	77.5	92.8	210,900 *b
28	76.2	92.3	195,700 *b
30	74.8	91.8	182,400 *
32	73.5	91.1	170,500 *
34	72.1	90.5	160,000 *
36	70.7	89.7	150,600 *
38	69.4	88.9	142,200 *
40	67.9	88.1	134,700 *
42	66.5	87.2	127,700
44	65.1	86.2	119,400
46	63.6	85.2	112,000
48	62.2	84.1	105,300
50	60.7	83.0	99,400
55	56.8	79.8	86,900
60	52.8	76.1	77,000
65	48.5	71.7	68,900
70	43.9	66.7	62,100
75	38.9	60.7	56,400
80	33.2	53.5	51,500
85	26.4	44.2	47,200
90	17.1	30.7	43,400

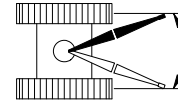
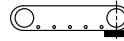
ft	°	ft	lb
22	81.2	103.8	248,900 *b
24	80.0	103.4	228,200 *b
26	78.8	103.0	210,600 *b
28	77.6	102.5	195,300 *b
30	76.4	102.0	182,000 *
32	75.2	101.4	170,100 *
34	74.0	100.8	159,600 *
36	72.7	100.2	150,300 *
38	71.5	99.5	141,900 *
40	70.3	98.7	134,300 *
42	69.0	97.9	127,500 *
44	67.8	97.1	119,300
46	66.5	96.2	111,900
48	65.2	95.2	105,200
50	63.9	94.2	99,300
55	60.6	91.5	86,800
60	57.1	88.3	76,900
65	53.5	84.6	68,800
70	49.7	80.5	62,000
75	45.7	75.7	56,300
80	41.4	70.2	51,400
85	36.6	63.7	47,200
90	31.2	55.9	43,500
95	24.7	46.0	40,200
100	15.7	31.4	37,100

MLC165 S-2

ASME B30.5



121,500 lb
+
35,300 lb



108.3 ft

ft	°	ft	lb
24	80.9	113.4	227,500* ^b
26	79.8	113.0	210,400* ^b
28	78.7	112.6	195,200*
30	77.7	112.1	181,800*
32	76.6	111.6	170,000*
34	75.5	111.1	159,500*
36	74.4	110.5	150,100*
38	73.3	109.9	141,800*
40	72.1	109.2	134,200*
42	71.0	108.5	127,400*
44	69.9	107.7	119,300
46	68.7	106.9	111,900
48	67.6	106.1	105,300
50	66.4	105.2	99,300
55	63.5	102.7	86,800
60	60.5	99.9	76,900
65	57.3	96.8	68,800
70	54.1	93.2	62,100
75	50.7	89.2	56,400
80	47.1	84.6	51,500
85	43.3	79.5	47,300
90	39.2	73.5	43,600
95	34.7	66.6	40,300
100	29.5	58.2	37,400
105	23.3	47.6	34,800

118.1 ft

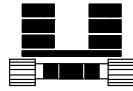
ft	°	ft	lb
24	81.7	123.4	213,200* ^b
26	80.7	123.0	207,100* ^b
28	79.7	122.6	194,800*
30	78.7	122.2	181,400*
32	77.7	121.8	169,600*
34	76.7	121.3	159,100*
36	75.7	120.7	149,700*
38	74.7	120.2	141,400*
40	73.7	119.6	133,800*
42	72.7	118.9	127,000*
44	71.6	118.2	119,200
46	70.6	117.5	111,700
48	69.6	116.7	105,100
50	68.5	115.9	99,200
55	65.9	113.7	86,700
60	63.2	111.2	76,700
65	60.4	108.4	68,600
70	57.5	105.3	61,900
75	54.5	101.8	56,200
80	51.5	97.8	51,300
85	48.2	93.5	47,100
90	44.8	88.5	43,400
95	41.2	83.0	40,100
100	37.3	76.6	37,200
105	32.9	69.2	34,600
110	28.0	60.3	32,300
115	22.0	49.0	30,100

128.0 ft

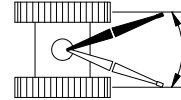
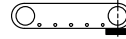
ft	°	ft	lb
26	81.4	133.0	195,000*
28	80.5	132.7	189,800*
30	79.6	132.3	181,100*
32	78.7	131.9	169,300*
34	77.8	131.4	158,800*
36	76.8	130.9	149,400*
38	75.9	130.4	141,100*
40	75.0	129.8	133,500*
42	74.0	129.3	126,700*
44	73.1	128.6	119,000
46	72.2	128.0	111,600
48	71.2	127.3	105,000
50	70.3	126.5	99,000
55	67.8	124.5	86,500
60	65.4	122.2	76,600
65	62.9	119.7	68,400
70	60.3	116.9	61,700
75	57.7	113.8	56,000
80	54.9	110.3	51,200
85	52.1	106.5	46,900
90	49.2	102.2	43,300
95	46.1	97.5	40,000
100	42.8	92.2	37,100
105	39.4	86.3	34,500
110	35.6	79.5	32,200
115	31.4	71.7	30,100
120	26.7	62.3	28,100
125	20.9	50.4	26,300

MLC165 S-2

ASME B30.5



121,500 lb
+
35,300 lb



137.8 ft

ft	°	ft	lb
28	81.2	142.7	181,100*
30	80.3	142.3	176,300*
32	79.5	141.9	168,800*
34	78.6	141.5	158,400*
36	77.8	141.0	149,000*
38	76.9	140.6	140,700*
40	76.1	140.1	133,100*
42	75.2	139.5	126,300*
44	74.3	138.9	118,900
46	73.5	138.3	111,400
48	72.6	137.7	104,800
50	71.7	137.0	98,800
55	69.5	135.1	86,300
60	67.3	133.1	76,300
65	65.0	130.7	68,200
70	62.6	128.2	61,400
75	60.2	125.4	55,800
80	57.8	122.2	50,900
85	55.3	118.8	46,700
90	52.7	115.1	43,000
95	50.0	110.9	39,700
100	47.2	106.4	36,800
105	44.2	101.3	34,300
110	41.1	95.7	31,900
115	37.7	89.4	29,800
120	34.1	82.3	27,900
125	30.1	74.0	26,100
130	25.5	64.1	24,500
135	19.9	51.6	22,900

147.6 ft

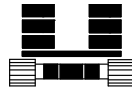
ft	°	ft	lb
30	81.0	152.3	165,200*
32	80.2	151.9	161,400*
34	79.4	151.6	157,800*
36	78.6	151.1	149,300*
38	77.8	150.7	140,900*
40	77.0	150.2	133,400*
42	76.2	149.7	126,500*
44	75.4	149.2	119,100
46	74.6	148.6	111,700
48	73.8	148.0	105,000
50	73.0	147.4	99,100
55	70.9	145.7	86,600
60	68.9	143.7	76,600
65	66.8	141.6	68,500
70	64.6	139.3	61,800
75	62.4	136.7	56,100
80	60.2	133.8	51,200
85	57.9	130.7	47,000
90	55.6	127.3	43,300
95	53.1	123.6	40,100
100	50.7	119.6	37,200
105	48.1	115.2	34,600
110	45.4	110.3	32,300
115	42.5	105.0	30,200
120	39.5	99.0	28,300
125	36.3	92.4	26,500
130	32.8	84.9	24,900
135	28.9	76.2	23,400
140	24.4	65.9	22,000
145	19.0	52.7	20,700

157.5 ft

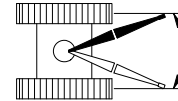
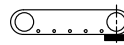
ft	°	ft	lb
30	81.6	162.3	156,600*
32	80.8	162.0	153,200*
34	80.1	161.6	149,900*
36	79.3	161.2	146,800*
38	78.6	160.8	140,500*
40	77.9	160.3	132,900*
42	77.1	159.9	126,100*
44	76.4	159.4	119,000
46	75.6	158.8	111,500
48	74.8	158.3	104,900
50	74.1	157.7	98,900
55	72.2	156.1	86,300
60	70.2	154.3	76,400
65	68.3	152.3	68,200
70	66.3	150.1	61,500
75	64.3	147.8	55,800
80	62.2	145.2	50,900
85	60.1	142.3	46,700
90	58.0	139.2	43,000
95	55.8	135.9	39,800
100	53.6	132.2	36,900
105	51.2	128.2	34,300
110	48.8	123.9	32,000
115	46.3	119.2	29,900
120	43.7	114.1	28,000
125	41.0	108.4	26,200
130	38.1	102.2	24,600
135	35.0	95.3	23,100
140	31.6	87.4	21,700
145	27.8	78.3	20,500
150	23.5	67.5	19,300
155	18.2	53.8	18,100

MLC165 S-2

ASME B30.5



121,500 lb
+
35,300 lb



167.3 ft

ft	o	ft	lb
32	81.4	171.9	144,500*
34	80.7	171.6	141,600*
36	80.0	171.2	138,700*
38	79.3	170.8	135,900*
40	78.6	170.4	132,600*
42	77.9	170.0	125,800*
44	77.2	169.5	118,800
46	76.5	169.0	111,300
48	75.8	168.5	104,600
50	75.0	167.9	98,700
55	73.3	166.4	86,100
60	71.5	164.8	76,100
65	69.6	162.9	68,000
70	67.8	160.9	61,200
75	65.9	158.7	55,500
80	64.0	156.3	50,700
85	62.1	153.6	46,500
90	60.1	150.8	42,800
95	58.1	147.7	39,500
100	56.0	144.4	36,600
105	53.9	140.8	34,100
110	51.8	136.9	31,700
115	49.5	132.7	29,600
120	47.2	128.1	27,700
125	44.8	123.1	26,000
130	42.3	117.7	24,400
135	39.6	111.8	22,900
140	36.8	105.3	21,500
145	33.8	98.0	20,300
150	30.5	89.8	19,100
155	26.8	80.3	18,000
160	22.6	69.1	16,900
165	17.4	54.7	15,900

177.2 ft

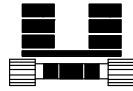
ft	o	ft	lb
34	81.2	181.6	132,400*
36	80.5	181.2	129,700*
38	79.9	180.9	127,100*
40	79.2	180.5	124,400*
42	78.6	180.0	121,800*
44	77.9	179.6	118,600
46	77.2	179.1	111,100
48	76.6	178.6	104,400
50	75.9	178.1	98,400
55	74.2	176.7	85,900
60	72.5	175.2	75,900
65	70.8	173.4	67,700
70	69.1	171.5	61,000
75	67.3	169.5	55,300
80	65.6	167.2	50,400
85	63.8	164.8	46,200
90	61.9	162.1	42,500
95	60.1	159.3	39,200
100	58.2	156.2	36,300
105	56.2	152.9	33,700
110	54.2	149.3	31,400
115	52.2	145.5	29,300
120	50.1	141.3	27,400
125	47.9	136.9	25,700
130	45.7	132.1	24,100
135	43.4	126.9	22,600
140	40.9	121.2	21,200
145	38.3	115.0	19,900
150	35.6	108.2	18,800
155	32.7	100.6	17,700
160	29.5	92.1	16,600
165	25.9	82.2	15,700
170	21.8	70.5	14,700
175	16.7	55.6	13,900

187.0 ft

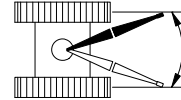
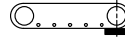
ft	o	ft	lb
34	81.7	191.6	125,400*
36	81.0	191.2	122,800*
38	80.4	190.9	120,300*
40	79.8	190.5	117,900*
42	79.2	190.1	115,400*
44	78.5	189.7	112,900*
46	77.9	189.2	110,400*
48	77.3	188.8	104,200
50	76.7	188.3	98,200
55	75.1	187.0	85,600
60	73.5	185.5	75,600
65	71.9	183.9	67,500
70	70.2	182.1	60,700
75	68.6	180.1	55,000
80	66.9	178.0	50,200
85	65.2	175.7	45,900
90	63.5	173.3	42,300
95	61.8	170.6	39,000
100	60.0	167.7	36,100
105	58.2	164.7	33,500
110	56.4	161.4	31,200
115	54.5	157.8	29,100
120	52.6	154.1	27,200
125	50.6	150.0	25,500
130	48.6	145.7	23,900
135	46.5	141.0	22,400
140	44.3	135.9	21,000
145	42.1	130.5	19,800
150	39.7	124.5	18,600
155	37.2	118.1	17,500
160	34.5	111.0	16,500
165	31.7	103.1	15,500
170	28.6	94.3	14,600
175	25.1	84.1	13,800
180	21.0	71.9	12,900
185	16.0	56.4	12,200

MLC165 S-2

ASME B30.5



121,500 lb
+
35,300 lb



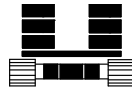
196.9 ft			
ft	o	ft	lb
36	81.5	201.2	110,900*
38	80.9	200.9	109,600*
40	80.3	200.5	108,200*
42	79.7	200.1	106,900*
44	79.1	199.7	105,600*
46	78.5	199.3	104,400*
48	77.9	198.9	102,200*
50	77.3	198.4	98,000
55	75.8	197.2	85,400
60	74.3	195.8	75,400
65	72.8	194.2	67,200
70	71.3	192.6	60,500
75	69.7	190.7	54,700
80	68.2	188.7	49,900
85	66.6	186.6	45,600
90	65.0	184.3	41,900
95	63.3	181.8	38,700
100	61.7	179.1	35,800
105	60.0	176.2	33,200
110	58.3	173.2	30,900
115	56.6	169.9	28,800
120	54.8	166.4	26,900
125	53.0	162.6	25,100
130	51.1	158.7	23,500
135	49.2	154.4	22,100
140	47.2	149.8	20,700
145	45.2	144.9	19,400
150	43.1	139.6	18,300
155	40.9	133.9	17,200
160	38.6	127.8	16,200
165	36.1	121.1	15,200
170	33.5	113.7	14,300
175	30.7	105.5	13,400
180	27.7	96.3	12,600
185	24.3	85.8	11,900
190	20.4	73.2	11,100
195	15.4	57.1	10,400

206.7 ft			
ft	o	ft	lb
38	81.3	210.8	97,600*
40	80.8	210.5	96,300*
42	80.2	210.2	95,100*
44	79.7	209.8	94,000*
46	79.1	209.4	92,900*
48	78.5	209.0	91,800*
50	78.0	208.5	90,700*
55	76.5	207.3	85,200
60	75.1	206.0	75,100
65	73.7	204.5	67,000
70	72.2	203.0	60,200
75	70.7	201.2	54,500
80	69.2	199.3	49,600
85	67.8	197.3	45,400
90	66.2	195.1	41,700
95	64.7	192.8	38,400
100	63.2	190.3	35,500
105	61.6	187.6	32,900
110	60.0	184.7	30,600
115	58.4	181.6	28,500
120	56.7	178.4	26,600
125	55.0	174.9	24,800
130	53.3	171.2	23,200
135	51.5	167.3	21,800
140	49.7	163.1	20,400
145	47.9	158.6	19,200
150	45.9	153.8	18,000
155	44.0	148.7	16,900
160	41.9	143.2	15,900
165	39.8	137.3	14,900
170	37.5	130.9	14,000
175	35.1	123.9	13,200
180	32.6	116.3	12,400
185	29.9	107.9	11,600
190	26.9	98.4	10,900
195	23.6	87.5	10,200
200	19.7	74.4	9,600

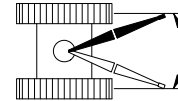
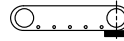
216.5 ft			
ft	o	ft	lb
40	81.2	220.5	86,500*
42	80.7	220.2	85,400*
44	80.1	219.8	84,300*
46	79.6	219.4	83,300*
48	79.0	219.0	82,200*
50	78.5	218.6	81,300*
55	77.2	217.5	78,900*
60	75.8	216.2	74,900
65	74.4	214.8	66,700
70	73.0	213.3	59,900
75	71.6	211.7	54,200
80	70.2	209.9	49,300
85	68.8	207.9	45,000
90	67.4	205.9	41,300
95	65.9	203.6	38,100
100	64.5	201.3	35,200
105	63.0	198.7	32,600
110	61.5	196.0	30,300
115	60.0	193.2	28,200
120	58.4	190.1	26,200
125	56.8	186.9	24,500
130	55.2	183.4	22,900
135	53.6	179.8	21,400
140	51.9	175.9	20,100
145	50.2	171.8	18,800
150	48.4	167.4	17,600
155	46.6	162.7	16,500
160	44.8	157.7	15,500
165	42.8	152.4	14,600
170	40.8	146.7	13,700
175	38.7	140.6	12,800
180	36.5	133.9	12,000
185	34.2	126.7	11,300
190	31.7	118.8	10,600
195	29.1	110.1	9,900
200	26.2	100.3	9,200
205	22.9	89.0	8,600
210	19.1	75.6	8,000

MLC165 S-2

ASME B30.5



121,500 lb
+
35,300 lb



226.4 ft

ft	o	ft	lb
40	81.6	230.5	77,200*
42	81.1	230.1	76,200*
44	80.6	229.8	75,300*
46	80.0	229.4	74,300*
48	79.5	229.0	73,400*
50	79.0	228.6	72,500*
55	77.7	227.6	70,400*
60	76.4	226.4	68,400*
65	75.1	225.0	66,400
70	73.8	223.6	59,600
75	72.5	222.0	53,900
80	71.1	220.3	49,000
85	69.8	218.5	44,800
90	68.4	216.5	41,100
95	67.0	214.4	37,800
100	65.7	212.2	34,900
105	64.3	209.8	32,300
110	62.8	207.2	30,000
115	61.4	204.5	27,900
120	59.9	201.7	26,000
125	58.5	198.6	24,300
130	57.0	195.4	22,700
135	55.4	192.0	21,200
140	53.9	188.3	19,800
145	52.3	184.5	18,600
150	50.6	180.4	17,400
155	49.0	176.1	16,300
160	47.2	171.5	15,300
165	45.5	166.7	14,300
170	43.7	161.5	13,500
175	41.8	156.0	12,600
180	39.8	150.1	11,800
185	37.8	143.7	11,100
190	35.6	136.8	10,400
195	33.3	129.4	9,700
200	30.9	121.3	9,000
205	28.3	112.3	8,400
210	25.5	102.2	7,900
215	22.3	90.6	7,300
220	18.5	76.7	6,800

236.2 ft

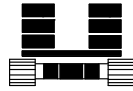
ft	o	ft	lb
42	81.5	240.1	75,100*
44	81.0	239.8	74,300*
46	80.5	239.4	73,600*
48	80.0	239.1	72,900*
50	79.5	238.7	72,000*
55	78.2	237.7	69,900*
60	77.0	236.5	67,900*
65	75.7	235.2	66,000
70	74.5	233.9	59,200
75	73.2	232.4	53,500
80	71.9	230.7	48,500
85	70.7	229.0	44,300
90	69.4	227.1	40,600
95	68.1	225.1	37,300
100	66.7	223.0	34,400
105	65.4	220.7	31,800
110	64.1	218.3	29,500
115	62.7	215.7	27,400
120	61.3	213.0	25,500
125	59.9	210.1	23,700
130	58.5	207.1	22,100
135	57.1	203.9	20,700
140	55.6	200.5	19,300
145	54.1	196.9	18,000
150	52.6	193.1	16,900
155	51.0	189.1	15,800
160	49.4	184.8	14,800
165	47.8	180.3	13,800
170	46.1	175.6	12,900
175	44.4	170.5	12,100
180	42.6	165.2	11,300
185	40.8	159.4	10,500
190	38.9	153.3	9,800
195	36.9	146.8	9,100
200	34.8	139.7	8,500
205	32.5	132.0	7,900
210	30.2	123.6	7,300
215	27.6	114.4	6,800
220	24.8	104.0	6,200
225	21.7	92.0	5,700
230	18.0	77.7	5,200

246.1 ft

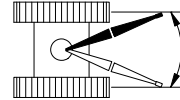
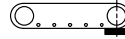
ft	o	ft	lb
44	81.3	249.8	73,100*
46	80.9	249.4	72,600*
48	80.4	249.1	72,100*
50	79.9	248.7	71,200*
55	78.7	247.7	69,100*
60	77.5	246.6	67,200*
65	76.3	245.4	65,300*
70	75.1	244.1	58,900
75	73.9	242.7	53,200
80	72.7	241.1	48,200
85	71.5	239.4	44,000
90	70.2	237.6	40,300
95	69.0	235.7	37,000
100	67.7	233.7	34,100
105	66.5	231.5	31,500
110	65.2	229.2	29,200
115	63.9	226.8	27,100
120	62.6	224.2	25,200
125	61.2	221.5	23,400
130	59.9	218.6	21,800
135	58.5	215.6	20,300
140	57.2	212.4	19,000
145	55.8	209.0	17,700
150	54.3	205.4	16,500
155	52.9	201.7	15,500
160	51.4	197.7	14,400
165	49.9	193.5	13,500
170	48.3	189.1	12,600
175	46.7	184.4	11,700
180	45.1	179.5	11,000
185	43.4	174.3	10,200
190	41.7	168.7	9,500
195	39.9	162.8	8,800
200	38.0	156.5	8,200
205	36.0	149.7	7,600
210	34.0	142.4	7,000
215	31.8	134.6	6,500
220	29.5	125.9	5,900
225	27.0	116.4	5,400
230	24.2	105.7	4,900
235	21.1	93.4	4,500
240	17.5	78.7	4,000

MLC165 S-2

ASME B30.5



121,500 lb
+
35,300 lb



255.9 ft

ft	o	ft	lb
44	81.7	259.7	66,300*
46	81.2	259.4	65,900*
48	80.8	259.1	65,400*
50	80.3	258.7	64,900*
55	79.2	257.8	63,800*
60	78.0	256.7	62,700*
65	76.9	255.5	61,700*
70	75.7	254.3	58,600
75	74.5	252.9	52,900
80	73.4	251.4	47,900
85	72.2	249.8	43,700
90	71.0	248.1	40,000
95	69.8	246.3	36,700
100	68.6	244.3	33,800
105	67.4	242.3	31,200
110	66.2	240.1	28,800
115	65.0	237.8	26,700
120	63.7	235.3	24,800
125	62.5	232.7	23,100
130	61.2	230.0	21,500
135	59.9	227.1	20,000
140	58.6	224.0	18,600
145	57.2	220.8	17,400
150	55.9	217.5	16,200
155	54.5	213.9	15,100
160	53.1	210.2	14,100
165	51.7	206.3	13,100
170	50.3	202.2	12,200
175	48.8	197.8	11,400
180	47.3	193.3	10,600
185	45.7	188.4	9,800
190	44.1	183.3	9,100
195	42.4	177.9	8,500
200	40.7	172.2	7,800
205	39.0	166.1	7,200
210	37.1	159.6	6,600
215	35.2	152.6	6,100
220	33.2	145.1	5,600
225	31.1	137.0	5,100
230	28.8	128.1	4,600
235	26.3	118.4	4,100
240	23.6	107.4	3,700
245	20.6	94.8	3,300

265.8 ft

ft	o	ft	lb
46	81.5	269.4	61,600*
48	81.1	269.0	61,100*
50	80.7	268.7	60,700*
55	79.6	267.8	59,700*
60	78.5	266.8	58,600*
65	77.4	265.7	57,600*
70	76.3	264.4	56,700*
75	75.1	263.1	52,600
80	74.0	261.7	47,600
85	72.9	260.2	43,400
90	71.8	258.5	39,700
95	70.6	256.8	36,400
100	69.5	254.9	33,500
105	68.3	252.9	30,900
110	67.1	250.8	28,600
115	66.0	248.6	26,400
120	64.8	246.3	24,500
125	63.6	243.8	22,800
130	62.3	241.2	21,200
135	61.1	238.4	19,700
140	59.9	235.6	18,300
145	58.6	232.5	17,100
150	57.3	229.3	15,900
155	56.0	226.0	14,800
160	54.7	222.5	13,800
165	53.4	218.8	12,800
170	52.0	214.9	11,900
175	50.6	210.8	11,100
180	49.2	206.6	10,300
185	47.8	202.0	9,600
190	46.3	197.3	8,900
195	44.7	192.3	8,200
200	43.2	187.0	7,600
205	41.6	181.5	7,000
210	39.9	175.6	6,400
215	38.2	169.3	5,800
220	36.4	162.6	5,300
225	34.5	155.4	4,800
230	32.5	147.7	4,300
235	30.4	139.4	3,900
240	28.2	130.3	3,400
245	25.7	120.3	3,000

275.6 ft

ft	o	ft	lb
48	81.4	279.0	54,900*
50	81.0	278.7	54,500*
55	79.9	277.8	53,600*
60	78.9	276.8	52,700*
65	77.8	275.8	51,800*
70	76.8	274.6	50,900*
75	75.7	273.3	50,100*
80	74.6	271.9	47,300
85	73.5	270.5	43,100
90	72.4	268.9	39,300
95	71.3	267.2	36,100
100	70.2	265.4	33,100
105	69.1	263.5	30,500
110	68.0	261.5	28,200
115	66.9	259.4	26,100
120	65.7	257.2	24,200
125	64.6	254.8	22,400
130	63.4	252.3	20,800
135	62.2	249.7	19,300
140	61.1	246.9	18,000
145	59.9	244.0	16,700
150	58.6	241.0	15,500
155	57.4	237.8	14,400
160	56.2	234.5	13,400
165	54.9	231.0	12,500
170	53.6	227.3	11,600
175	52.3	223.5	10,700
180	51.0	219.5	9,900
185	49.6	215.3	9,200
190	48.2	210.8	8,500
195	46.8	206.2	7,800
200	45.3	201.3	7,200
205	43.8	196.1	6,600
210	42.3	190.7	6,000
215	40.7	184.9	5,500
220	39.1	178.8	4,900
225	37.4	172.4	4,400
230	35.6	165.5	4,000
235	33.8	158.2	3,500
240	31.8	150.3	3,100