

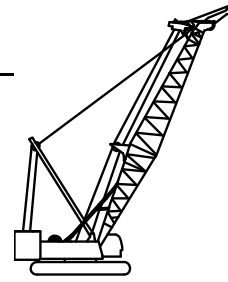
Liftcrane Boom Capacities

Boom No. 74

121,500 lb Crane Counterweight

35,300 lb Carbody Counterweight

360 Degree Rating



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. 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. 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, 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. 9290-A**.



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

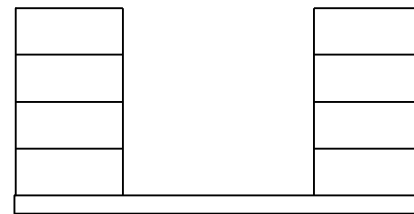


BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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

MACHINE EQUIPMENT: Machine equipped with 26 ft 2 in. crawlers, 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 **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

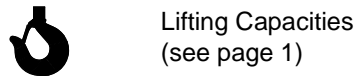
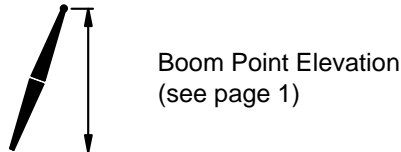
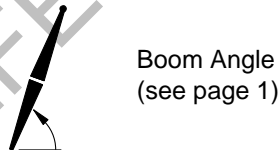
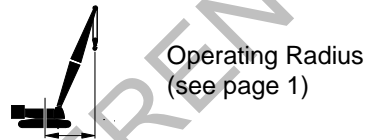
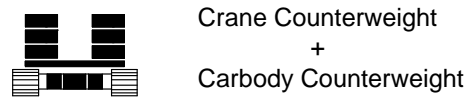
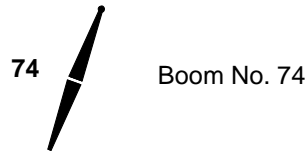
Raising Ability Over End or Side of Crawlers							
Boom Length (ft)	Fixed Jib No. 134						
	—	30.0 ft	40.0 ft	50.0 ft	60.0 ft	70.0 ft	80.0 ft
	Block Weight (lb)						
49.2 - 78.7	7,700	—	—	—	—	—	—
88.6 - 137.8	7,700	7,700	7,700	7,700	7,700	7,700	7,700
147.6	7,700	7,700	7,700	7,700	7,700	7,700	5,800
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.

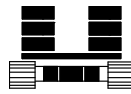
Explanation of Symbols



REFERENCE ONLY!

MLC165 S-2

ASME B30.5



121,500 lb
+
35,300 lb



49.2 ft

ft	o	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	189,100
30	61.7	49.1	170,000
32	58.9	47.8	154,300
34	56.1	46.4	141,000
36	53.1	44.9	129,800
38	50.0	43.1	120,100
40	46.8	41.2	111,600
42	43.3	39.0	104,200
44	39.6	36.5	97,600
46	35.6	33.6	91,700
48	31.0	30.3	86,300
50	25.6	26.1	81,500

59.1 ft

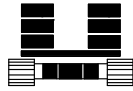
ft	o	ft	lb
16	81.1	64.8	337,800 *d
17	80.1	64.6	322,500 *d
18	79.1	64.4	305,000 *c
19	78.1	64.2	289,300 *c
20	77.1	63.9	275,100 *c
22	75.1	63.3	250,400 *c
24	73.1	62.7	229,700 *c
26	71.0	62.0	212,000 *b
28	68.9	61.1	189,600
30	66.8	60.2	170,500
32	64.6	59.2	154,800
34	62.4	58.1	141,500
36	60.2	56.9	130,300
38	57.8	55.6	120,600
40	55.5	54.2	112,100
42	53.0	52.7	104,700
44	50.4	50.9	98,100
46	47.8	49.1	92,200
48	45.0	47.0	86,900
50	42.1	44.8	82,200
55	33.8	37.8	72,000
60	22.7	27.6	63,800

68.9 ft

ft	o	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	189,600
30	70.3	71.0	170,500
32	68.5	70.1	154,700
34	66.7	69.2	141,500
36	64.8	68.2	130,200
38	62.9	67.2	120,500
40	61.0	66.0	112,000
42	59.1	64.8	104,600
44	57.1	63.5	98,000
46	55.0	62.0	92,200
48	52.9	60.5	86,900
50	50.7	58.8	82,100
55	45.0	53.9	72,000
60	38.5	47.9	63,900
65	30.8	40.2	57,200
70	20.4	28.8	51,400

MLC165 S-2

ASME B30.5



121,500 lb
+
35,300 lb



78.7 ft

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	189,800 b
30	72.9	81.4	170,600
32	71.3	80.7	154,800
34	69.8	80.0	141,500
36	68.2	79.1	130,200
38	66.6	78.2	120,500
40	65.0	77.2	112,100
42	63.3	76.2	104,600
44	61.7	75.1	98,000
46	60.0	73.9	92,200
48	58.3	72.6	86,900
50	56.5	71.3	82,200
55	51.9	67.4	72,100
60	47.0	62.9	64,000
65	41.6	57.5	57,300
70	35.6	50.8	51,700
75	28.4	42.3	46,900
80	18.6	29.8	42,600

88.6 ft

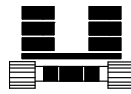
ft	°	ft	lb
20	81.5	94.1	272,700 *c
22	80.2	93.7	249,400 *b
24	78.8	93.3	228,600 *b
26	77.5	92.8	210,900 *b
28	76.2	92.3	189,900 b
30	74.8	91.8	170,700
32	73.5	91.1	154,900
34	72.1	90.5	141,600
36	70.7	89.7	130,300
38	69.4	88.9	120,600
40	67.9	88.1	112,100
42	66.5	87.2	104,700
44	65.1	86.2	98,100
46	63.6	85.2	92,200
48	62.2	84.1	87,000
50	60.7	83.0	82,200
55	56.8	79.8	72,200
60	52.8	76.1	64,100
65	48.5	71.7	57,400
70	43.9	66.7	51,800
75	38.9	60.7	47,000
80	33.2	53.5	42,900
85	26.4	44.2	39,300
90	17.1	30.7	36,100

98.4 ft

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	189,900 b
30	76.4	102.0	170,700
32	75.2	101.4	154,800
34	74.0	100.8	141,500
36	72.7	100.2	130,200
38	71.5	99.5	120,500
40	70.3	98.7	112,000
42	69.0	97.9	104,600
44	67.8	97.1	98,000
46	66.5	96.2	92,100
48	65.2	95.2	86,800
50	63.9	94.2	82,100
55	60.6	91.5	72,000
60	57.1	88.3	63,900
65	53.5	84.6	57,200
70	49.7	80.5	51,700
75	45.7	75.7	46,900
80	41.4	70.2	42,800
85	36.6	63.7	39,300
90	31.2	55.9	36,100
95	24.7	46.0	33,300
100	15.7	31.4	30,700

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	189,900
30	77.7	112.1	170,700
32	76.6	111.6	154,800
34	75.5	111.1	141,500
36	74.4	110.5	130,200
38	73.3	109.9	120,500
40	72.1	109.2	112,000
42	71.0	108.5	104,600
44	69.9	107.7	98,000
46	68.7	106.9	92,100
48	67.6	106.1	86,800
50	66.4	105.2	82,100
55	63.5	102.7	72,000
60	60.5	99.9	63,900
65	57.3	96.8	57,300
70	54.1	93.2	51,700
75	50.7	89.2	47,000
80	47.1	84.6	42,900
85	43.3	79.5	39,300
90	39.2	73.5	36,200
95	34.7	66.6	33,500
100	29.5	58.2	31,000
105	23.3	47.6	28,700

118.1 ft

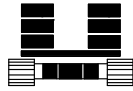
ft	°	ft	lb
24	81.7	123.4	213,200 *b
26	80.7	123.0	207,100 *b
28	79.7	122.6	189,900
30	78.7	122.2	170,600
32	77.7	121.8	154,700
34	76.7	121.3	141,400
36	75.7	120.7	130,100
38	74.7	120.2	120,300
40	73.7	119.6	111,800
42	72.7	118.9	104,400
44	71.6	118.2	97,800
46	70.6	117.5	91,900
48	69.6	116.7	86,600
50	68.5	115.9	81,900
55	65.9	113.7	71,800
60	63.2	111.2	63,700
65	60.4	108.4	57,000
70	57.5	105.3	51,500
75	54.5	101.8	46,700
80	51.5	97.8	42,700
85	48.2	93.5	39,100
90	44.8	88.5	36,000
95	41.2	83.0	33,300
100	37.3	76.6	30,800
105	32.9	69.2	28,600
110	28.0	60.3	26,600
115	22.0	49.0	24,700

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	170,500
32	78.7	131.9	154,600
34	77.8	131.4	141,300
36	76.8	130.9	129,900
38	75.9	130.4	120,200
40	75.0	129.8	111,700
42	74.0	129.3	104,200
44	73.1	128.6	97,600
46	72.2	128.0	91,700
48	71.2	127.3	86,500
50	70.3	126.5	81,700
55	67.8	124.5	71,600
60	65.4	122.2	63,500
65	62.9	119.7	56,800
70	60.3	116.9	51,300
75	57.7	113.8	46,600
80	54.9	110.3	42,500
85	52.1	106.5	39,000
90	49.2	102.2	35,900
95	46.1	97.5	33,100
100	42.8	92.2	30,700
105	39.4	86.3	28,400
110	35.6	79.5	26,500
115	31.4	71.7	24,600
120	26.7	62.3	23,000
125	20.9	50.4	21,400

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	170,400
32	79.5	141.9	154,500
34	78.6	141.5	141,100
36	77.8	141.0	129,800
38	76.9	140.6	120,000
40	76.1	140.1	111,500
42	75.2	139.5	104,000
44	74.3	138.9	97,400
46	73.5	138.3	91,500
48	72.6	137.7	86,200
50	71.7	137.0	81,400
55	69.5	135.1	71,300
60	67.3	133.1	63,200
65	65.0	130.7	56,600
70	62.6	128.2	51,000
75	60.2	125.4	46,300
80	57.8	122.2	42,200
85	55.3	118.8	38,700
90	52.7	115.1	35,600
95	50.0	110.9	32,800
100	47.2	106.4	30,400
105	44.2	101.3	28,200
110	41.1	95.7	26,200
115	37.7	89.4	24,400
120	34.1	82.3	22,700
125	30.1	74.0	21,200
130	25.5	64.1	19,800
135	19.9	51.6	18,500

147.6 ft

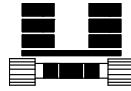
ft	°	ft	lb
30	81.0	152.3	165,200*
32	80.2	151.9	154,700
34	79.4	151.6	141,400
36	78.6	151.1	130,000
38	77.8	150.7	120,200
40	77.0	150.2	111,700
42	76.2	149.7	104,300
44	75.4	149.2	97,700
46	74.6	148.6	91,800
48	73.8	148.0	86,500
50	73.0	147.4	81,700
55	70.9	145.7	71,600
60	68.9	143.7	63,500
65	66.8	141.6	56,900
70	64.6	139.3	51,300
75	62.4	136.7	46,600
80	60.2	133.8	42,500
85	57.9	130.7	39,000
90	55.6	127.3	35,900
95	53.1	123.6	33,100
100	50.7	119.6	30,700
105	48.1	115.2	28,500
110	45.4	110.3	26,500
115	42.5	105.0	24,700
120	39.5	99.0	23,100
125	36.3	92.4	21,600
130	32.8	84.9	20,200
135	28.9	76.2	18,900
140	24.4	65.9	17,700
145	19.0	52.7	16,600

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	141,200
36	79.3	161.2	129,900
38	78.6	160.8	120,100
40	77.9	160.3	111,500
42	77.1	159.9	104,100
44	76.4	159.4	97,400
46	75.6	158.8	91,500
48	74.8	158.3	86,300
50	74.1	157.7	81,500
55	72.2	156.1	71,400
60	70.2	154.3	63,200
65	68.3	152.3	56,600
70	66.3	150.1	51,000
75	64.3	147.8	46,300
80	62.2	145.2	42,200
85	60.1	142.3	38,700
90	58.0	139.2	35,600
95	55.8	135.9	32,800
100	53.6	132.2	30,400
105	51.2	128.2	28,200
110	48.8	123.9	26,200
115	46.3	119.2	24,400
120	43.7	114.1	22,800
125	41.0	108.4	21,300
130	38.1	102.2	19,900
135	35.0	95.3	18,600
140	31.6	87.4	17,500
145	27.8	78.3	16,400
150	23.5	67.5	15,300
155	18.2	53.8	14,300

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	141,000
36	80.0	171.2	129,700
38	79.3	170.8	119,900
40	78.6	170.4	111,300
42	77.9	170.0	103,800
44	77.2	169.5	97,200
46	76.5	169.0	91,300
48	75.8	168.5	86,000
50	75.0	167.9	81,200
55	73.3	166.4	71,100
60	71.5	164.8	63,000
65	69.6	162.9	56,300
70	67.8	160.9	50,700
75	65.9	158.7	46,000
80	64.0	156.3	41,900
85	62.1	153.6	38,400
90	60.1	150.8	35,300
95	58.1	147.7	32,600
100	56.0	144.4	30,100
105	53.9	140.8	28,000
110	51.8	136.9	26,000
115	49.5	132.7	24,200
120	47.2	128.1	22,600
125	44.8	123.1	21,100
130	42.3	117.7	19,700
135	39.6	111.8	18,400
140	36.8	105.3	17,200
145	33.8	98.0	16,100
150	30.5	89.8	15,100
155	26.8	80.3	14,200
160	22.6	69.1	13,300
165	17.4	54.7	12,400

177.2 ft

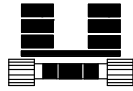
ft	o	ft	lb
34	81.2	181.6	132,400*
36	80.5	181.2	129,500
38	79.9	180.9	119,700
40	79.2	180.5	111,100
42	78.6	180.0	103,600
44	77.9	179.6	97,000
46	77.2	179.1	91,100
48	76.6	178.6	85,800
50	75.9	178.1	81,000
55	74.2	176.7	70,800
60	72.5	175.2	62,700
65	70.8	173.4	56,000
70	69.1	171.5	50,400
75	67.3	169.5	45,700
80	65.6	167.2	41,600
85	63.8	164.8	38,100
90	61.9	162.1	35,000
95	60.1	159.3	32,200
100	58.2	156.2	29,800
105	56.2	152.9	27,600
110	54.2	149.3	25,600
115	52.2	145.5	23,800
120	50.1	141.3	22,200
125	47.9	136.9	20,700
130	45.7	132.1	19,300
135	43.4	126.9	18,100
140	40.9	121.2	16,900
145	38.3	115.0	15,800
150	35.6	108.2	14,800
155	32.7	100.6	13,900
160	29.5	92.1	13,000
165	25.9	82.2	12,100
170	21.8	70.5	11,300
175	16.7	55.6	10,500

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	119,400
40	79.8	190.5	110,900
42	79.2	190.1	103,400
44	78.5	189.7	96,700
46	77.9	189.2	90,800
48	77.3	188.8	85,500
50	76.7	188.3	80,700
55	75.1	187.0	70,600
60	73.5	185.5	62,500
65	71.9	183.9	55,800
70	70.2	182.1	50,200
75	68.6	180.1	45,500
80	66.9	178.0	41,400
85	65.2	175.7	37,900
90	63.5	173.3	34,800
95	61.8	170.6	32,000
100	60.0	167.7	29,600
105	58.2	164.7	27,400
110	56.4	161.4	25,400
115	54.5	157.8	23,700
120	52.6	154.1	22,000
125	50.6	150.0	20,500
130	48.6	145.7	19,200
135	46.5	141.0	17,900
140	44.3	135.9	16,700
145	42.1	130.5	15,700
150	39.7	124.5	14,600
155	37.2	118.1	13,700
160	34.5	111.0	12,800
165	31.7	103.1	12,000
170	28.6	94.3	11,200
175	25.1	84.1	10,400
180	21.0	71.9	9,700
185	16.0	56.4	9,100

MLC165 S-2

ASME B30.5



121,500 lb
+
35,300 lb



196.9 ft

ft	°	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	103,200
44	79.1	199.7	96,500
46	78.5	199.3	90,600
48	77.9	198.9	85,300
50	77.3	198.4	80,500
55	75.8	197.2	70,300
60	74.3	195.8	62,200
65	72.8	194.2	55,500
70	71.3	192.6	49,900
75	69.7	190.7	45,200
80	68.2	188.7	41,100
85	66.6	186.6	37,600
90	65.0	184.3	34,400
95	63.3	181.8	31,700
100	61.7	179.1	29,300
105	60.0	176.2	27,100
110	58.3	173.2	25,100
115	56.6	169.9	23,300
120	54.8	166.4	21,700
125	53.0	162.6	20,200
130	51.1	158.7	18,800
135	49.2	154.4	17,600
140	47.2	149.8	16,400
145	45.2	144.9	15,300
150	43.1	139.6	14,300
155	40.9	133.9	13,400
160	38.6	127.8	12,500
165	36.1	121.1	11,600
170	33.5	113.7	10,900
175	30.7	105.5	10,100
180	27.7	96.3	9,400
185	24.3	85.8	8,800
190	20.4	73.2	8,100
195	15.4	57.1	7,500

206.7 ft

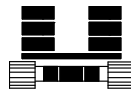
ft	°	ft	lb
38	81.3	210.8	97,600*
40	80.8	210.5	96,300*
42	80.2	210.2	95,100*
44	79.7	209.8	94,000*
46	79.1	209.4	90,300
48	78.5	209.0	85,000
50	78.0	208.5	80,200
55	76.5	207.3	70,100
60	75.1	206.0	61,900
65	73.7	204.5	55,200
70	72.2	203.0	49,600
75	70.7	201.2	44,900
80	69.2	199.3	40,800
85	67.8	197.3	37,300
90	66.2	195.1	34,200
95	64.7	192.8	31,400
100	63.2	190.3	29,000
105	61.6	187.6	26,800
110	60.0	184.7	24,800
115	58.4	181.6	23,000
120	56.7	178.4	21,400
125	55.0	174.9	19,900
130	53.3	171.2	18,500
135	51.5	167.3	17,300
140	49.7	163.1	16,100
145	47.9	158.6	15,000
150	45.9	153.8	14,000
155	44.0	148.7	13,100
160	41.9	143.2	12,200
165	39.8	137.3	11,400
170	37.5	130.9	10,600
175	35.1	123.9	9,900
180	32.6	116.3	9,200
185	29.9	107.9	8,500
190	26.9	98.4	7,900
195	23.6	87.5	7,300
200	19.7	74.4	6,700

216.5 ft

ft	°	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	80,000
55	77.2	217.5	69,800
60	75.8	216.2	61,600
65	74.4	214.8	54,900
70	73.0	213.3	49,300
75	71.6	211.7	44,600
80	70.2	209.9	40,500
85	68.8	207.9	36,900
90	67.4	205.9	33,800
95	65.9	203.6	31,100
100	64.5	201.3	28,600
105	63.0	198.7	26,400
110	61.5	196.0	24,400
115	60.0	193.2	22,700
120	58.4	190.1	21,000
125	56.8	186.9	19,500
130	55.2	183.4	18,200
135	53.6	179.8	16,900
140	51.9	175.9	15,700
145	50.2	171.8	14,700
150	48.4	167.4	13,600
155	46.6	162.7	12,700
160	44.8	157.7	11,800
165	42.8	152.4	11,000
170	40.8	146.7	10,200
175	38.7	140.6	9,500
180	36.5	133.9	8,800
185	34.2	126.7	8,200
190	31.7	118.8	7,500
195	29.1	110.1	7,000
200	26.2	100.3	6,400
205	22.9	89.0	5,800
210	19.1	75.6	5,300

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	69,500
60	76.4	226.4	61,300
65	75.1	225.0	54,600
70	73.8	223.6	49,000
75	72.5	222.0	44,300
80	71.1	220.3	40,200
85	69.8	218.5	36,700
90	68.4	216.5	33,600
95	67.0	214.4	30,800
100	65.7	212.2	28,400
105	64.3	209.8	26,200
110	62.8	207.2	24,200
115	61.4	204.5	22,400
120	59.9	201.7	20,800
125	58.5	198.6	19,300
130	57.0	195.4	17,900
135	55.4	192.0	16,700
140	53.9	188.3	15,500
145	52.3	184.5	14,400
150	50.6	180.4	13,400
155	49.0	176.1	12,500
160	47.2	171.5	11,600
165	45.5	166.7	10,800
170	43.7	161.5	10,000
175	41.8	156.0	9,300
180	39.8	150.1	8,600
185	37.8	143.7	7,900
190	35.6	136.8	7,300
195	33.3	129.4	6,700
200	30.9	121.3	6,200
205	28.3	112.3	5,700
210	25.5	102.2	5,200
215	22.3	90.6	4,700
220	18.5	76.7	4,200

236.2 ft

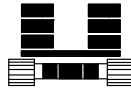
ft	o	ft	lb
42	81.5	240.1	75,100*
44	81.0	239.8	74,300*
46	80.5	239.4	73,600*
48	80.0	239.1	72,900*
50	79.5	238.7	72,000*
55	78.2	237.7	69,100
60	77.0	236.5	60,900
65	75.7	235.2	54,200
70	74.5	233.9	48,600
75	73.2	232.4	43,800
80	71.9	230.7	39,700
85	70.7	229.0	36,200
90	69.4	227.1	33,000
95	68.1	225.1	30,300
100	66.7	223.0	27,800
105	65.4	220.7	25,600
110	64.1	218.3	23,700
115	62.7	215.7	21,900
120	61.3	213.0	20,200
125	59.9	210.1	18,700
130	58.5	207.1	17,400
135	57.1	203.9	16,100
140	55.6	200.5	14,900
145	54.1	196.9	13,900
150	52.6	193.1	12,900
155	51.0	189.1	11,900
160	49.4	184.8	11,000
165	47.8	180.3	10,200
170	46.1	175.6	9,400
175	44.4	170.5	8,700
180	42.6	165.2	8,000
185	40.8	159.4	7,400
190	38.9	153.3	6,800
195	36.9	146.8	6,200
200	34.8	139.7	5,600
205	32.5	132.0	5,100
210	30.2	123.6	4,600
215	27.6	114.4	4,100
220	24.8	104.0	3,700
225	21.7	92.0	3,200

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	68,800
60	77.5	246.6	60,600
65	76.3	245.4	53,900
70	75.1	244.1	48,300
75	73.9	242.7	43,500
80	72.7	241.1	39,400
85	71.5	239.4	35,800
90	70.2	237.6	32,700
95	69.0	235.7	30,000
100	67.7	233.7	27,500
105	66.5	231.5	25,300
110	65.2	229.2	23,300
115	63.9	226.8	21,500
120	62.6	224.2	19,900
125	61.2	221.5	18,400
130	59.9	218.6	17,100
135	58.5	215.6	15,800
140	57.2	212.4	14,600
145	55.8	209.0	13,500
150	54.3	205.4	12,500
155	52.9	201.7	11,600
160	51.4	197.7	10,700
165	49.9	193.5	9,900
170	48.3	189.1	9,100
175	46.7	184.4	8,400
180	45.1	179.5	7,700
185	43.4	174.3	7,100
190	41.7	168.7	6,500
195	39.9	162.8	5,900
200	38.0	156.5	5,300
205	36.0	149.7	4,800
210	34.0	142.4	4,300
215	31.8	134.6	3,800
220	29.5	125.9	3,400

MLC165 S-2

ASME B30.5



121,500 lb
+
35,300 lb



255.9 ft			
ft	°	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	60,300
65	76.9	255.5	53,600
70	75.7	254.3	48,000
75	74.5	252.9	43,200
80	73.4	251.4	39,100
85	72.2	249.8	35,500
90	71.0	248.1	32,400
95	69.8	246.3	29,600
100	68.6	244.3	27,200
105	67.4	242.3	25,000
110	66.2	240.1	23,000
115	65.0	237.8	21,200
120	63.7	235.3	19,600
125	62.5	232.7	18,100
130	61.2	230.0	16,700
135	59.9	227.1	15,400
140	58.6	224.0	14,300
145	57.2	220.8	13,200
150	55.9	217.5	12,200
155	54.5	213.9	11,200
160	53.1	210.2	10,300
165	51.7	206.3	9,500
170	50.3	202.2	8,800
175	48.8	197.8	8,000
180	47.3	193.3	7,300
185	45.7	188.4	6,700
190	44.1	183.3	6,100
195	42.4	177.9	5,500
200	40.7	172.2	4,900
205	39.0	166.1	4,400
210	37.1	159.6	3,900
215	35.2	152.6	3,400
220	33.2	145.1	3,000

265.8 ft			
ft	°	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	53,300
70	76.3	264.4	47,700
75	75.1	263.1	42,900
80	74.0	261.7	38,800
85	72.9	260.2	35,200
90	71.8	258.5	32,100
95	70.6	256.8	29,300
100	69.5	254.9	26,900
105	68.3	252.9	24,700
110	67.1	250.8	22,700
115	66.0	248.6	20,900
120	64.8	246.3	19,300
125	63.6	243.8	17,800
130	62.3	241.2	16,400
135	61.1	238.4	15,100
140	59.9	235.6	14,000
145	58.6	232.5	12,900
150	57.3	229.3	11,900
155	56.0	226.0	10,900
160	54.7	222.5	10,100
165	53.4	218.8	9,200
170	52.0	214.9	8,500
175	50.6	210.8	7,700
180	49.2	206.6	7,100
185	47.8	202.0	6,400
190	46.3	197.3	5,800
195	44.7	192.3	5,200
200	43.2	187.0	4,700
205	41.6	181.5	4,100
210	39.9	175.6	3,600
215	38.2	169.3	3,200

275.6 ft			
ft	°	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	47,300
75	75.7	273.3	42,600
80	74.6	271.9	38,400
85	73.5	270.5	34,900
90	72.4	268.9	31,700
95	71.3	267.2	29,000
100	70.2	265.4	26,500
105	69.1	263.5	24,300
110	68.0	261.5	22,300
115	66.9	259.4	20,500
120	65.7	257.2	18,900
125	64.6	254.8	17,400
130	63.4	252.3	16,000
135	62.2	249.7	14,800
140	61.1	246.9	13,600
145	59.9	244.0	12,500
150	58.6	241.0	11,500
155	57.4	237.8	10,600
160	56.2	234.5	9,700
165	54.9	231.0	8,900
170	53.6	227.3	8,100
175	52.3	223.5	7,400
180	51.0	219.5	6,700
185	49.6	215.3	6,000
190	48.2	210.8	5,400
195	46.8	206.2	4,800
200	45.3	201.3	4,300
205	43.8	196.1	3,800
210	42.3	190.7	3,300