

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 74A
Luffing Jib No. 135
101,400 lb Crane Counterweight
0 lb Carbody Counterweight
360 Degree Rating

MLC165-1 SERIES 1



LIFTING CAPACITIES: Lifting capacities for various boom lengths, boom-to-luffing jib angles, luffing jib lengths, and operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves is considered part of main boom load. Weight of luffing jib and 2,825 lb suspended beneath luffing jib point sheaves have been included in capacity determination. 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 on a firm uniformly supporting surface and bearing turntable level within a tolerance of 1/2 in. in 10 ft and properly supported. During operation, boom must be maintained at one of the selected angles shown in chart. Refer to Luffing Jib Assembly No. 81042733, Wire Rope Specification chart No. 9412-A, Luffing Jib Raising Procedure chart No. 9418-A, and Wind Conditions chart No. 9419-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.

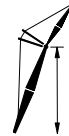
MACHINE TRAVEL: Machine to travel on a firm, level, and uniformly supporting surface. Boom and luffing jib must be within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart No. 9417-A.



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.

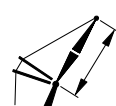
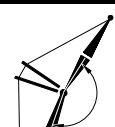
MACHINE EQUIPMENT: Machine equipped with 26 ft 2 in. crawlers, 43 in. treads, 23 ft 7 in. live mast, 18 part boom hoist reeving, boom support straps, 8 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants and backstays, 101,400 lb crane counterweight, and 0 lb carbody counterweight.

Consult chart No. 9416-A for main luffing jib capacities.

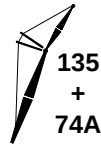


101,400 lb Crane Counterweight
6 Side Boxes

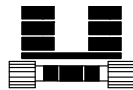
WARNING: Free fall operation is limited to 13,000 lb per part of line when lowering load with free fall clutch/brake pedal. Hydraulic power must be used for full line pull.

Luffing Jib Position During Operation	
	
Luffing Jib Length Feet	Boom-to-Luffing Jib Angle Degrees
70 - 80	150
90 - 100	160
110 - 170	168

Explanation of Symbols



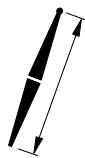
Luffing Jib No. 135
+
Boom No. 74A



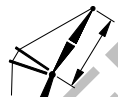
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



Luffing Jib Length

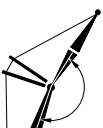


Boom Angle
(see page 1)

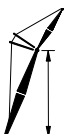
Explanation of Symbols (continued)



Operating Radius
(see page 1)



Boom-to-Luffing Jib Angle
(see page 1)

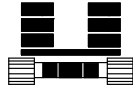
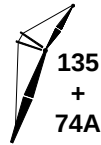


Boom Point Elevation
(see page 1)

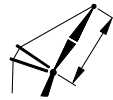


Lifting Capacities
(see page 1)

REFERENCE ONLY!



101,400 lb
+
0 lb



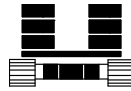
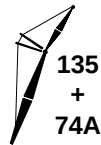
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	275,700
18	80.7	74.3	259,800
19	79.9	74.1	245,500
20	79.0	73.9	232,500
22	77.3	73.4	194,400
24	75.6	72.9	163,600
26	73.8	72.3	140,100
28	72.1	71.6	121,600
30	70.3	70.8	106,600
32	68.5	70.0	94,300
34	66.7	69.1	84,000
36	64.8	68.1	75,200

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	245,600
20	80.4	84.0	232,700
22	78.9	83.5	195,800
24	77.4	83.1	164,800
26	75.9	82.5	141,200
28	74.4	81.9	122,600
30	72.9	81.3	107,700
32	71.3	80.6	95,300
34	69.8	79.8	84,900
36	68.2	79.0	76,100
38	66.6	78.1	68,500
40	65.0	77.1	61,900

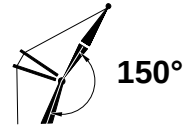
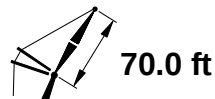
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	232,900
22	80.2	93.6	196,800
24	78.9	93.2	165,800
26	77.5	92.7	142,100
28	76.2	92.2	123,500
30	74.8	91.6	108,500
32	73.5	91.0	96,100
34	72.1	90.3	85,700
36	70.7	89.6	76,900
38	69.4	88.8	69,300
40	68.0	88.0	62,700
45	64.4	85.6	49,400

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ASME B30.5



101,400 lb
+
0 lb



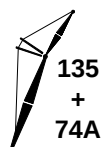
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	197,700
24	80.0	103.2	166,500
26	78.8	102.8	142,800
28	77.6	102.3	124,200
30	76.4	101.8	109,100
32	75.2	101.3	96,700
34	74.0	100.7	86,200
36	72.8	100.0	77,400
38	71.5	99.3	69,800
40	70.3	98.6	63,100
45	67.1	96.5	49,800

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	167,100
26	79.8	112.9	143,400
28	78.7	112.4	124,700
30	77.7	112.0	109,600
32	76.6	111.5	97,200
34	75.5	110.9	86,700
36	74.4	110.4	77,900
38	73.3	109.7	70,200
40	72.1	109.1	63,600
45	69.3	107.2	50,200
50	66.4	105.0	40,100

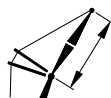
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	167,600
26	80.7	122.9	143,800
28	79.7	122.5	125,100
30	78.7	122.1	109,900
32	77.7	121.6	97,500
34	76.7	121.1	87,000
36	75.7	120.6	78,100
38	74.7	120.0	70,400
40	73.7	119.4	63,800
45	71.1	117.7	50,400
50	68.5	115.8	40,300
55	65.9	113.6	32,300

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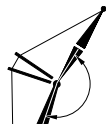
ASME B30.5



101,400 lb
+
0 lb



70.0 ft



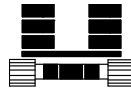
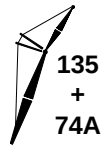
150°

26	81.4	132.9	144,100
28	80.5	132.5	125,300
30	79.6	132.1	110,200
32	78.7	131.7	97,700
34	77.8	131.3	87,200
36	76.8	130.8	78,300
38	75.9	130.3	70,600
40	75.0	129.7	63,900
45	72.6	128.2	50,500
50	70.3	126.4	40,400
55	67.8	124.4	32,500
60	65.4	122.1	26,100

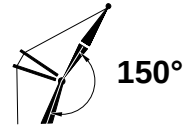
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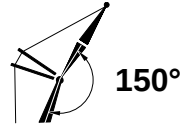
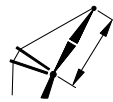
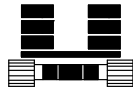
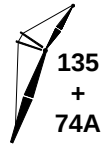
101,400 lb
+
0 lb



68.9 ft			
ft	o	ft	lb
17	81.6	74.5	271,900
18	80.7	74.3	256,200
19	79.9	74.1	241,900
20	79.0	73.9	229,000
22	77.3	73.4	189,200
24	75.6	72.9	158,800
26	73.8	72.3	135,700
28	72.1	71.6	117,500
30	70.3	70.8	102,800
32	68.5	70.0	90,700
34	66.7	69.1	80,500
36	64.8	68.1	71,900

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	242,200
20	80.4	84.0	229,300
22	78.9	83.5	190,700
24	77.4	83.1	160,200
26	75.9	82.5	137,000
28	74.4	81.9	118,700
30	72.9	81.3	103,900
32	71.3	80.6	91,800
34	69.8	79.8	81,600
36	68.2	79.0	72,900
38	66.6	78.1	65,500
40	65.0	77.1	59,000

88.6 ft			
ft	o	ft	lb
20	81.5	94.0	229,500
22	80.2	93.6	191,900
24	78.9	93.2	161,300
26	77.5	92.7	138,000
28	76.2	92.2	119,700
30	74.8	91.6	104,900
32	73.5	91.0	92,700
34	72.1	90.3	82,500
36	70.7	89.6	73,800
38	69.4	88.8	66,300
40	68.0	88.0	59,800
45	64.4	85.6	46,700



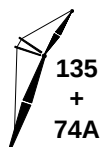
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	192,800
24	80.0	103.2	162,200
26	78.8	102.8	138,800
28	77.6	102.3	120,400
30	76.4	101.8	105,600
32	75.2	101.3	93,300
34	74.0	100.7	83,100
36	72.8	100.0	74,400
38	71.5	99.3	66,800
40	70.3	98.6	60,300
45	67.1	96.5	47,200

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	162,800
26	79.8	112.9	139,400
28	78.7	112.4	121,000
30	77.7	112.0	106,100
32	76.6	111.5	93,900
34	75.5	110.9	83,600
36	74.4	110.4	74,900
38	73.3	109.7	67,400
40	72.1	109.1	60,800
45	69.3	107.2	47,700
50	66.4	105.0	37,700

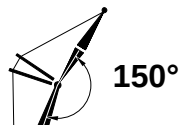
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	163,400
26	80.7	122.9	139,900
28	79.7	122.5	121,500
30	78.7	122.1	106,500
32	77.7	121.6	94,300
34	76.7	121.1	84,000
36	75.7	120.6	75,200
38	74.7	120.0	67,600
40	73.7	119.4	61,100
45	71.1	117.7	47,900
50	68.5	115.8	37,900
55	65.9	113.6	30,100

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ASME B30.5

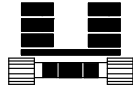
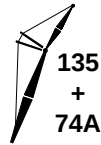


101,400 lb
+
0 lb

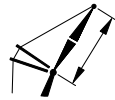


ft	°	ft	lb
26	81.4	132.9	140,300
28	80.5	132.5	121,800
30	79.6	132.1	106,800
32	78.7	131.7	94,500
34	77.8	131.3	84,200
36	76.8	130.8	75,400
38	75.9	130.3	67,900
40	75.0	129.7	61,300
45	72.6	128.2	48,100
50	70.3	126.4	38,100
55	67.8	124.4	30,300
60	65.4	122.1	24,000

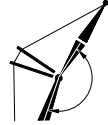
REFERENCE ONLY!



101,400 lb
+
0 lb



90.0 ft



160°

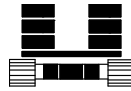
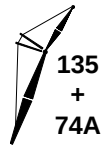
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	274,100
18	80.7	74.3	258,100
19	79.9	74.1	243,700
20	79.0	73.9	230,600
22	77.3	73.4	191,700
24	75.6	72.9	160,700
26	73.8	72.3	137,100
28	72.1	71.6	118,500
30	70.3	70.8	103,500
32	68.5	70.0	91,100
34	66.7	69.1	80,700
36	64.8	68.1	71,900
38	62.9	67.0	64,300
40	61.0	65.9	57,700

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	244,000
20	80.4	84.0	230,900
22	78.9	83.5	193,400
24	77.4	83.1	162,300
26	75.9	82.5	138,600
28	74.4	81.9	119,900
30	72.9	81.3	104,900
32	71.3	80.6	92,500
34	69.8	79.8	82,000
36	68.2	79.0	73,200
38	66.6	78.1	65,600
40	65.0	77.1	58,900
45	60.8	74.4	45,600

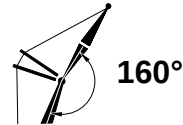
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	231,300
22	80.2	93.6	194,800
24	78.9	93.2	163,600
26	77.5	92.7	139,800
28	76.2	92.2	121,100
30	74.8	91.6	106,000
32	73.5	91.0	93,600
34	72.1	90.3	83,100
36	70.7	89.6	74,300
38	69.4	88.8	66,600
40	68.0	88.0	60,000
45	64.4	85.6	46,600
50	60.7	82.8	36,500

MLC165-1 S-1

ASME B30.5



101,400 lb
+
0 lb



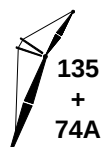
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	195,900
24	80.0	103.2	164,600
26	78.8	102.8	140,800
28	77.6	102.3	122,000
30	76.4	101.8	106,900
32	75.2	101.3	94,400
34	74.0	100.7	83,900
36	72.8	100.0	75,000
38	71.5	99.3	67,300
40	70.3	98.6	60,600
45	67.1	96.5	47,200
50	63.9	94.1	37,100
55	60.6	91.3	29,200
60	57.1	88.1	22,800

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	165,400
26	79.8	112.9	141,500
28	78.7	112.4	122,700
30	77.7	112.0	107,600
32	76.6	111.5	95,100
34	75.5	110.9	84,600
36	74.4	110.4	75,700
38	73.3	109.7	68,000
40	72.1	109.1	61,300
45	69.3	107.2	47,900
50	66.4	105.0	37,700
55	63.5	102.6	29,800
60	60.5	99.8	23,400
65	57.3	96.6	17,600

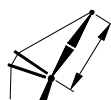
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	166,100
26	80.7	122.9	142,100
28	79.7	122.5	123,300
30	78.7	122.1	108,100
32	77.7	121.6	95,500
34	76.7	121.1	85,000
36	75.7	120.6	76,100
38	74.7	120.0	68,400
40	73.7	119.4	61,700
45	71.1	117.7	48,200
50	68.5	115.8	38,000
55	65.9	113.6	30,000
60	63.2	111.1	23,600
65	60.4	108.3	17,700
70	57.5	105.1	12,600

MLC165-1 S-1

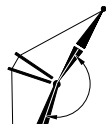
ASME B30.5



101,400 lb
+
0 lb



90.0 ft



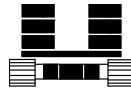
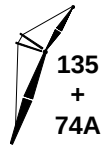
160°

ft	ft	ft	lb
26	81.4	132.9	142,600
28	80.5	132.5	123,700
30	79.6	132.1	108,500
32	78.7	131.7	95,900
34	77.8	131.3	85,400
36	76.8	130.8	76,400
38	75.9	130.3	68,700
40	75.0	129.7	62,000
45	72.6	128.2	48,500
50	70.3	126.4	38,300
55	67.8	124.4	30,300
60	65.4	122.1	23,700
65	62.9	119.6	17,700
70	60.3	116.7	12,700
75	57.7	113.6	8,400

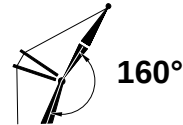
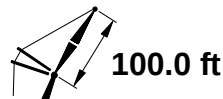
REFERENCE ONLY!

MLC165-1 S-1

ASME B30.5



101,400 lb
+
0 lb



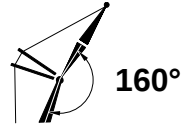
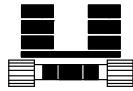
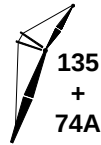
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	270,800
18	80.7	74.3	254,900
19	79.9	74.1	240,500
20	79.0	73.9	227,400
22	77.3	73.4	187,000
24	75.6	72.9	156,300
26	73.8	72.3	133,000
28	72.1	71.6	114,600
30	70.3	70.8	99,800
32	68.5	70.0	87,600
34	66.7	69.1	77,400
36	64.8	68.1	68,600
38	62.9	67.0	61,100
40	61.0	65.9	54,600

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	240,900
20	80.4	84.0	227,900
22	78.9	83.5	188,900
24	77.4	83.1	158,100
26	75.9	82.5	134,700
28	74.4	81.9	116,300
30	72.9	81.3	101,400
32	71.3	80.6	89,100
34	69.8	79.8	78,900
36	68.2	79.0	70,100
38	66.6	78.1	62,600
40	65.0	77.1	56,000
45	60.8	74.4	42,800

88.6 ft			
ft	o	ft	lb
20	81.5	94.0	228,400
22	80.2	93.6	190,400
24	78.9	93.2	159,600
26	77.5	92.7	136,100
28	76.2	92.2	117,600
30	74.8	91.6	102,700
32	73.5	91.0	90,400
34	72.1	90.3	80,100
36	70.7	89.6	71,300
38	69.4	88.8	63,700
40	68.0	88.0	57,200
45	64.4	85.6	44,000
50	60.7	82.8	34,000

MLC165-1 S-1

ASME B30.5



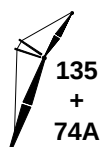
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	191,700
24	80.0	103.2	160,700
26	78.8	102.8	137,200
28	77.6	102.3	118,600
30	76.4	101.8	103,600
32	75.2	101.3	91,300
34	74.0	100.7	80,900
36	72.8	100.0	72,100
38	71.5	99.3	64,600
40	70.3	98.6	58,000
45	67.1	96.5	44,700
50	63.9	94.1	34,700
55	60.6	91.3	26,900
60	57.1	88.1	20,100

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	161,600
26	79.8	112.9	138,000
28	78.7	112.4	119,400
30	77.7	112.0	104,400
32	76.6	111.5	92,100
34	75.5	110.9	81,700
36	74.4	110.4	72,900
38	73.3	109.7	65,300
40	72.1	109.1	58,700
45	69.3	107.2	45,400
50	66.4	105.0	35,400
55	63.5	102.6	27,600
60	60.5	99.8	20,800
65	57.3	96.6	14,900

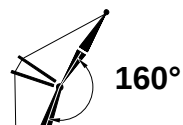
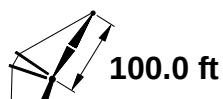
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	162,400
26	80.7	122.9	138,700
28	79.7	122.5	120,100
30	78.7	122.1	105,000
32	77.7	121.6	92,600
34	76.7	121.1	82,200
36	75.7	120.6	73,400
38	74.7	120.0	65,800
40	73.7	119.4	59,100
45	71.1	117.7	45,800
50	68.5	115.8	35,800
55	65.9	113.6	27,900
60	63.2	111.1	20,900
65	60.4	108.3	15,000
70	57.5	105.1	10,100

MLC165-1 S-1

ASME B30.5

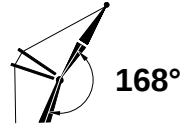
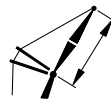
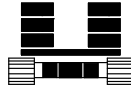
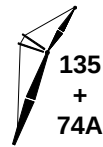


101,400 lb
+
0 lb



ft	°	ft	lb
26	81.4	132.9	139,200
28	80.5	132.5	120,500
30	79.6	132.1	105,500
32	78.7	131.7	93,000
34	77.8	131.3	82,600
36	76.8	130.8	73,800
38	75.9	130.3	66,100
40	75.0	129.7	59,500
45	72.6	128.2	46,200
50	70.3	126.4	36,100
55	67.8	124.4	28,100
60	65.4	122.1	21,100
65	62.9	119.6	15,200
70	60.3	116.7	10,200
75	57.7	113.6	6,000

REFERENCE ONLY!



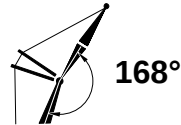
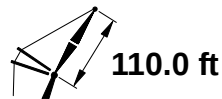
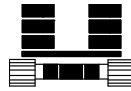
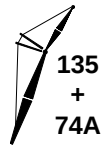
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	274,500
18	80.7	74.3	258,300
19	79.9	74.1	243,700
20	79.0	73.9	230,400
22	77.3	73.4	191,500
24	75.6	72.9	160,000
26	73.8	72.3	136,000
28	72.1	71.6	117,200
30	70.3	70.8	101,900
32	68.5	70.0	89,400
34	66.7	69.1	78,800
36	64.8	68.1	69,900
38	62.9	67.0	62,100
40	61.0	65.9	55,400
45	56.1	62.6	41,900

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	244,200
20	80.4	84.0	231,000
22	78.9	83.5	193,600
24	77.4	83.1	162,000
26	75.9	82.5	138,000
28	74.4	81.9	119,000
30	72.9	81.3	103,800
32	71.3	80.6	91,100
34	69.8	79.8	80,600
36	68.2	79.0	71,600
38	66.6	78.1	63,800
40	65.0	77.1	57,100
45	60.8	74.4	43,500
50	56.5	71.1	33,200
55	51.9	67.3	25,200

88.6 ft			
ft	o	ft	lb
20	81.5	94.0	231,600
22	80.2	93.6	195,300
24	78.9	93.2	163,700
26	77.5	92.7	139,500
28	76.2	92.2	120,500
30	74.8	91.6	105,200
32	73.5	91.0	92,600
34	72.1	90.3	82,000
36	70.7	89.6	73,000
38	69.4	88.8	65,200
40	68.0	88.0	58,400
45	64.4	85.6	44,800
50	60.7	82.8	34,600
55	56.8	79.6	26,500
60	52.8	75.9	19,600

MLC165-1 S-1

ASME B30.5



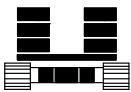
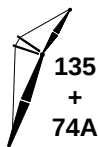
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	196,700
24	80.0	103.2	164,900
26	78.8	102.8	140,700
28	77.6	102.3	121,700
30	76.4	101.8	106,300
32	75.2	101.3	93,600
34	74.0	100.7	83,000
36	72.8	100.0	74,000
38	71.5	99.3	66,200
40	70.3	98.6	59,400
45	67.1	96.5	45,700
50	63.9	94.1	35,400
55	60.6	91.3	27,400
60	57.1	88.1	20,400
65	53.5	84.5	14,300

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	165,900
26	79.8	112.9	141,700
28	78.7	112.4	122,600
30	77.7	112.0	107,200
32	76.6	111.5	94,500
34	75.5	110.9	83,900
36	74.4	110.4	74,800
38	73.3	109.7	67,000
40	72.1	109.1	60,200
45	69.3	107.2	46,600
50	66.4	105.0	36,300
55	63.5	102.6	28,200
60	60.5	99.8	21,300
65	57.3	96.6	15,200
70	54.1	93.1	10,000

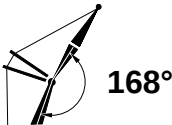
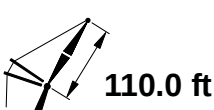
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	166,800
26	80.7	122.9	142,500
28	79.7	122.5	123,300
30	78.7	122.1	107,900
32	77.7	121.6	95,200
34	76.7	121.1	84,500
36	75.7	120.6	75,400
38	74.7	120.0	67,600
40	73.7	119.4	60,800
45	71.1	117.7	47,100
50	68.5	115.8	36,700
55	65.9	113.6	28,700
60	63.2	111.1	21,500
65	60.4	108.3	15,500
70	57.5	105.1	10,300
75	54.6	101.6	6,000

MLC165-1 S-1

ASME B30.5



101,400 lb
+
0 lb

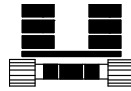
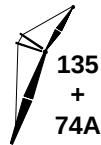


26	81.4	132.9	143,100
28	80.5	132.5	123,900
30	79.6	132.1	108,400
32	78.7	131.7	95,700
34	77.8	131.3	85,000
36	76.8	130.8	75,900
38	75.9	130.3	68,000
40	75.0	129.7	61,200
45	72.6	128.2	47,500
50	70.3	126.4	37,100
55	67.8	124.4	29,000
60	65.4	122.1	21,800
65	62.9	119.6	15,700
70	60.3	116.7	10,600
75	57.7	113.6	6,300

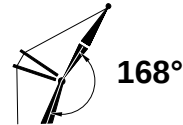
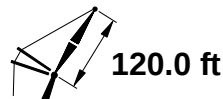
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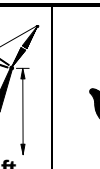
MLC165-1 S-1

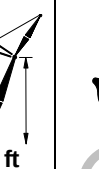
ASME B30.5

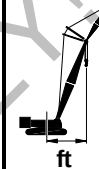
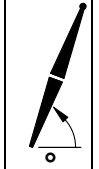
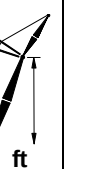


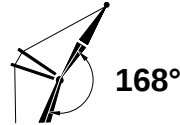
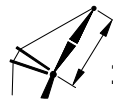
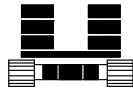
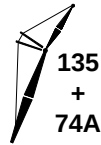
101,400 lb
+
0 lb



68.9 ft			
 ft	 o	 ft	 lb
17	81.6	74.5	271,800
18	80.7	74.3	255,600
19	79.9	74.1	241,000
20	79.0	73.9	227,700
22	77.3	73.4	187,500
24	75.6	72.9	156,200
26	73.8	72.3	132,500
28	72.1	71.6	113,800
30	70.3	70.8	98,600
32	68.5	70.0	86,200
34	66.7	69.1	75,700
36	64.8	68.1	66,800
38	62.9	67.0	59,200
40	61.0	65.9	52,500
45	56.1	62.6	39,100

78.7 ft			
 ft	 o	 ft	 lb
19	81.2	84.2	241,700
20	80.4	84.0	228,500
22	78.9	83.5	189,900
24	77.4	83.1	158,500
26	75.9	82.5	134,600
28	74.4	81.9	115,800
30	72.9	81.3	100,700
32	71.3	80.6	88,200
34	69.8	79.8	77,700
36	68.2	79.0	68,700
38	66.6	78.1	61,100
40	65.0	77.1	54,400
45	60.8	74.4	40,900
50	56.5	71.1	30,700
55	51.9	67.3	22,400

88.6 ft			
 ft	 o	 ft	 lb
20	81.5	94.0	229,100
22	80.2	93.6	191,800
24	78.9	93.2	160,300
26	77.5	92.7	136,400
28	76.2	92.2	117,500
30	74.8	91.6	102,300
32	73.5	91.0	89,800
34	72.1	90.3	79,200
36	70.7	89.6	70,300
38	69.4	88.8	62,600
40	68.0	88.0	55,900
45	64.4	85.6	42,400
50	60.7	82.8	32,200
55	56.8	79.6	24,000
60	52.8	75.9	16,600



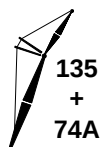
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	193,300
24	80.0	103.2	161,700
26	78.8	102.8	137,700
28	77.6	102.3	118,800
30	76.4	101.8	103,500
32	75.2	101.3	90,900
34	74.0	100.7	80,400
36	72.8	100.0	71,400
38	71.5	99.3	63,700
40	70.3	98.6	56,900
45	67.1	96.5	43,400
50	63.9	94.1	33,200
55	60.6	91.3	25,000
60	57.1	88.1	17,600
65	53.5	84.5	11,500

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	162,800
26	79.8	112.9	138,800
28	78.7	112.4	119,800
30	77.7	112.0	104,500
32	76.6	111.5	91,900
34	75.5	110.9	81,400
36	74.4	110.4	72,400
38	73.3	109.7	64,600
40	72.1	109.1	57,900
45	69.3	107.2	44,400
50	66.4	105.0	34,100
55	63.5	102.6	25,900
60	60.5	99.8	18,600
65	57.3	96.6	12,500
70	54.1	93.1	7,400

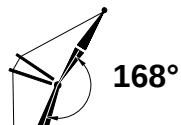
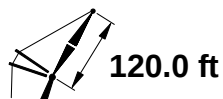
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	163,800
26	80.7	122.9	139,600
28	79.7	122.5	120,600
30	78.7	122.1	105,300
32	77.7	121.6	92,700
34	76.7	121.1	82,100
36	75.7	120.6	73,000
38	74.7	120.0	65,300
40	73.7	119.4	58,500
45	71.1	117.7	44,900
50	68.5	115.8	34,700
55	65.9	113.6	26,200
60	63.2	111.1	19,000
65	60.4	108.3	12,900
70	57.5	105.1	7,900

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ASME B30.5

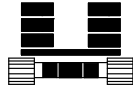
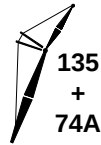


101,400 lb
+
0 lb

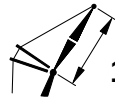


 128.0 ft			
ft	°	ft	lb
26	81.4	132.9	140,300
28	80.5	132.5	121,300
30	79.6	132.1	105,900
32	78.7	131.7	93,200
34	77.8	131.3	82,600
36	76.8	130.8	73,600
38	75.9	130.3	65,800
40	75.0	129.7	59,000
45	72.6	128.2	45,400
50	70.3	126.4	35,100
55	67.8	124.4	26,500
60	65.4	122.1	19,300
65	62.9	119.6	13,300
70	60.3	116.7	8,200

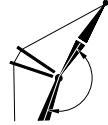
REFERENCE ONLY!



101,400 lb
+
0 lb



130.0 ft



168°

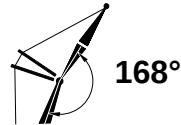
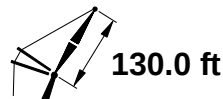
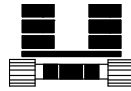
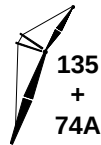
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	269,300
18	80.7	74.3	253,200
19	79.9	74.1	238,600
20	79.0	73.9	225,300
22	77.3	73.4	183,700
24	75.6	72.9	152,700
26	73.8	72.3	129,200
28	72.1	71.6	110,600
30	70.3	70.8	95,600
32	68.5	70.0	83,300
34	66.7	69.1	72,900
36	64.8	68.1	64,100
38	62.9	67.0	56,500
40	61.0	65.9	49,900
45	56.1	62.6	36,600

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	239,400
20	80.4	84.0	226,200
22	78.9	83.5	186,300
24	77.4	83.1	155,200
26	75.9	82.5	131,500
28	74.4	81.9	112,900
30	72.9	81.3	97,900
32	71.3	80.6	85,400
34	69.8	79.8	75,000
36	68.2	79.0	66,200
38	66.6	78.1	58,600
40	65.0	77.1	51,900
45	60.8	74.4	38,600
50	56.5	71.1	28,500
55	51.9	67.3	19,600

88.6 ft			
ft	o	ft	lb
20	81.5	94.0	226,900
22	80.2	93.6	188,400
24	78.9	93.2	157,200
26	77.5	92.7	133,400
28	76.2	92.2	114,700
30	74.8	91.6	99,600
32	73.5	91.0	87,200
34	72.1	90.3	76,800
36	70.7	89.6	67,900
38	69.4	88.8	60,200
40	68.0	88.0	53,600
45	64.4	85.6	40,200
50	60.7	82.8	30,100
55	56.8	79.6	21,400
60	52.8	75.9	14,100

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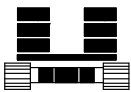
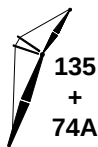
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	190,000
24	80.0	103.2	158,700
26	78.8	102.8	134,900
28	77.6	102.3	116,100
30	76.4	101.8	101,000
32	75.2	101.3	88,500
34	74.0	100.7	78,000
36	72.8	100.0	69,100
38	71.5	99.3	61,500
40	70.3	98.6	54,800
45	67.1	96.5	41,400
50	63.9	94.1	31,200
55	60.6	91.3	22,500
60	57.1	88.1	15,200
65	53.5	84.5	9,200

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	159,900
26	79.8	112.9	136,100
28	78.7	112.4	117,300
30	77.7	112.0	102,100
32	76.6	111.5	89,600
34	75.5	110.9	79,100
36	74.4	110.4	70,200
38	73.3	109.7	62,500
40	72.1	109.1	55,800
45	69.3	107.2	42,400
50	66.4	105.0	32,200
55	63.5	102.6	23,500
60	60.5	99.8	16,300
65	57.3	96.6	10,300
70	54.1	93.1	5,200

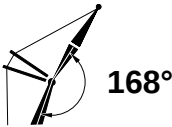
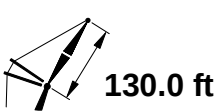
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	160,900
26	80.7	122.9	137,000
28	79.7	122.5	118,200
30	78.7	122.1	102,900
32	77.7	121.6	90,400
34	76.7	121.1	79,900
36	75.7	120.6	70,900
38	74.7	120.0	63,200
40	73.7	119.4	56,500
45	71.1	117.7	43,000
50	68.5	115.8	32,800
55	65.9	113.6	24,000
60	63.2	111.1	16,800
65	60.4	108.3	10,800
70	57.5	105.1	5,800

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ASME B30.5



101,400 lb
+
0 lb

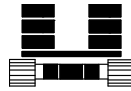
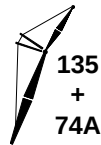


26	81.4	132.9	137,800
28	80.5	132.5	118,900
30	79.6	132.1	103,600
32	78.7	131.7	91,100
34	77.8	131.3	80,500
36	76.8	130.8	71,600
38	75.9	130.3	63,800
40	75.0	129.7	57,100
45	72.6	128.2	43,600
50	70.3	126.4	33,100
55	67.8	124.4	24,300
60	65.4	122.1	17,200
65	62.9	119.6	11,200
70	60.3	116.7	6,200

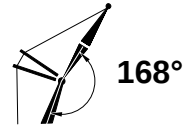
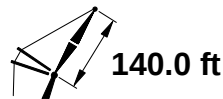
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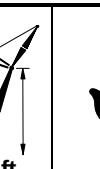
MLC165-1 S-1

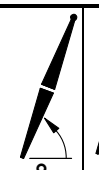
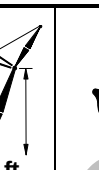
ASME B30.5

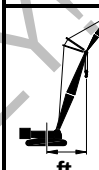
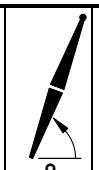
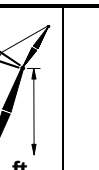


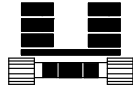
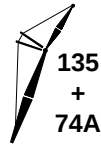
101,400 lb
+
0 lb



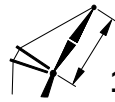
68.9 ft			
 ft	 °	 ft	 lb
17	81.6	74.5	266,400
18	80.7	74.3	250,200
19	79.9	74.1	235,700
20	79.0	73.9	221,400
22	77.3	73.4	179,400
24	75.6	72.9	148,700
26	73.8	72.3	125,300
28	72.1	71.6	106,900
30	70.3	70.8	92,100
32	68.5	70.0	79,800
34	66.7	69.1	69,600
36	64.8	68.1	60,800
38	62.9	67.0	53,300
40	61.0	65.9	46,700
45	56.1	62.6	33,600

78.7 ft			
 ft	 °	 ft	 lb
19	81.2	84.2	236,600
20	80.4	84.0	223,400
22	78.9	83.5	182,200
24	77.4	83.1	151,400
26	75.9	82.5	127,900
28	74.4	81.9	109,400
30	72.9	81.3	94,500
32	71.3	80.6	82,200
34	69.8	79.8	71,900
36	68.2	79.0	63,100
38	66.6	78.1	55,600
40	65.0	77.1	49,000
45	60.8	74.4	35,800
50	56.5	71.1	25,100
55	51.9	67.3	16,200

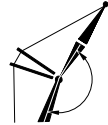
88.6 ft			
 ft	 °	 ft	 lb
20	81.5	94.0	223,900
22	80.2	93.6	184,400
24	78.9	93.2	153,500
26	77.5	92.7	130,000
28	76.2	92.2	111,400
30	74.8	91.6	96,500
32	73.5	91.0	84,100
34	72.1	90.3	73,800
36	70.7	89.6	65,000
38	69.4	88.8	57,400
40	68.0	88.0	50,800
45	64.4	85.6	37,600
50	60.7	82.8	27,000
55	56.8	79.6	18,100
60	52.8	75.9	10,900



101,400 lb
+
0 lb



140.0 ft



168°

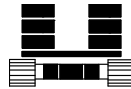
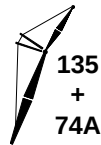
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	186,000
24	80.0	103.2	155,200
26	78.8	102.8	131,600
28	77.6	102.3	113,000
30	76.4	101.8	98,000
32	75.2	101.3	85,600
34	74.0	100.7	75,200
36	72.8	100.0	66,400
38	71.5	99.3	58,800
40	70.3	98.6	52,200
45	67.1	96.5	38,800
50	63.9	94.1	28,200
55	60.6	91.3	19,400
60	57.1	88.1	12,200
65	53.5	84.5	6,200

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	156,600
26	79.8	112.9	132,900
28	78.7	112.4	114,200
30	77.7	112.0	99,200
32	76.6	111.5	86,800
34	75.5	110.9	76,400
36	74.4	110.4	67,600
38	73.3	109.7	59,900
40	72.1	109.1	53,300
45	69.3	107.2	40,000
50	66.4	105.0	29,400
55	63.5	102.6	20,600
60	60.5	99.8	13,400
65	57.3	96.6	7,500

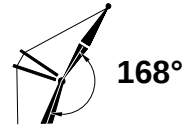
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	156,900
26	80.7	122.9	133,900
28	79.7	122.5	115,200
30	78.7	122.1	100,100
32	77.7	121.6	87,700
34	76.7	121.1	77,300
36	75.7	120.6	68,400
38	74.7	120.0	60,700
40	73.7	119.4	54,100
45	71.1	117.7	40,700
50	68.5	115.8	29,900
55	65.9	113.6	21,100
60	63.2	111.1	14,000
65	60.4	108.3	8,100

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ASME B30.5

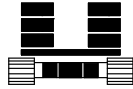
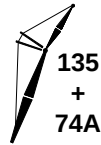


101,400 lb
+
0 lb

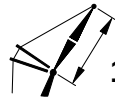


ft	°	ft	lb
26	81.4	132.9	134,500
28	80.5	132.5	116,000
30	79.6	132.1	100,900
32	78.7	131.7	88,400
34	77.8	131.3	78,000
36	76.8	130.8	69,100
38	75.9	130.3	61,400
40	75.0	129.7	54,800
45	72.6	128.2	41,300
50	70.3	126.4	30,300
55	67.8	124.4	21,600
60	65.4	122.1	14,500
65	62.9	119.6	8,600

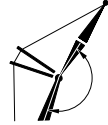
REFERENCE ONLY!



101,400 lb
+
0 lb



150.0 ft



168°

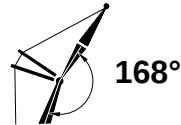
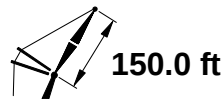
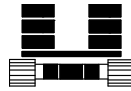
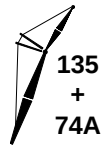
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	264,200
18	80.7	74.3	248,100
19	79.9	74.1	233,600
20	79.0	73.9	217,700
22	77.3	73.4	175,900
24	75.6	72.9	145,500
26	73.8	72.3	122,400
28	72.1	71.6	104,100
30	70.3	70.8	89,400
32	68.5	70.0	77,300
34	66.7	69.1	67,100
36	64.8	68.1	58,500
38	62.9	67.0	51,000
40	61.0	65.9	44,500
45	56.1	62.6	31,300

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	234,600
20	80.4	84.0	219,900
22	78.9	83.5	179,000
24	77.4	83.1	148,400
26	75.9	82.5	125,200
28	74.4	81.9	106,800
30	72.9	81.3	92,100
32	71.3	80.6	79,900
34	69.8	79.8	69,600
36	68.2	79.0	61,000
38	66.6	78.1	53,500
40	65.0	77.1	47,000
45	60.8	74.4	33,900
50	56.5	71.1	22,700
55	51.9	67.3	13,900

88.6 ft			
ft	o	ft	lb
20	81.5	94.0	219,800
22	80.2	93.6	181,400
24	78.9	93.2	150,700
26	77.5	92.7	127,400
28	76.2	92.2	109,000
30	74.8	91.6	94,200
32	73.5	91.0	81,900
34	72.1	90.3	71,700
36	70.7	89.6	62,900
38	69.4	88.8	55,400
40	68.0	88.0	48,900
45	64.4	85.6	35,800
50	60.7	82.8	24,800
55	56.8	79.6	16,000
60	52.8	75.9	8,900

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ASME B30.5



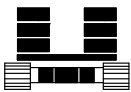
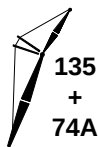
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	182,400
24	80.0	103.2	152,500
26	78.8	102.8	129,100
28	77.6	102.3	110,600
30	76.4	101.8	95,800
32	75.2	101.3	83,500
34	74.0	100.7	73,200
36	72.8	100.0	64,400
38	71.5	99.3	56,900
40	70.3	98.6	50,300
45	67.1	96.5	37,100
50	63.9	94.1	26,100
55	60.6	91.3	17,400
60	57.1	88.1	10,300
65	53.5	84.5	4,400

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	154,000
26	79.8	112.9	130,500
28	78.7	112.4	112,000
30	77.7	112.0	97,100
32	76.6	111.5	84,800
34	75.5	110.9	74,500
36	74.4	110.4	65,700
38	73.3	109.7	58,200
40	72.1	109.1	51,600
45	69.3	107.2	38,300
50	66.4	105.0	27,300
55	63.5	102.6	18,600
60	60.5	99.8	11,600
65	57.3	96.6	5,700

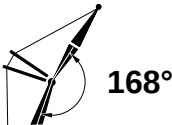
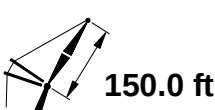
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	153,800
26	80.7	122.9	131,600
28	79.7	122.5	113,100
30	78.7	122.1	98,100
32	77.7	121.6	85,800
34	76.7	121.1	75,400
36	75.7	120.6	66,600
38	74.7	120.0	59,000
40	73.7	119.4	52,400
45	71.1	117.7	38,900
50	68.5	115.8	28,000
55	65.9	113.6	19,300
60	63.2	111.1	12,200
65	60.4	108.3	6,400

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ASME B30.5



101,400 lb
+
0 lb

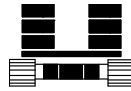
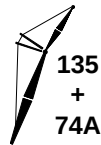


26	81.4	132.9	131,700
28	80.5	132.5	113,900
30	79.6	132.1	98,900
32	78.7	131.7	86,600
34	77.8	131.3	76,200
36	76.8	130.8	67,400
38	75.9	130.3	59,800
40	75.0	129.7	53,200
45	72.6	128.2	39,400
50	70.3	126.4	28,500
55	67.8	124.4	19,800
60	65.4	122.1	12,800
65	62.9	119.6	7,000

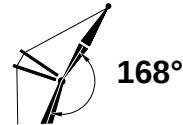
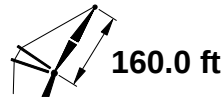
REFERENCE ONLY!

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ASME B30.5



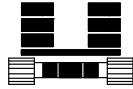
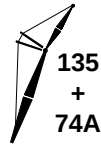
101,400 lb
+
0 lb



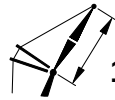
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	261,100
18	80.7	74.3	245,100
19	79.9	74.1	230,500
20	79.0	73.9	212,700
22	77.3	73.4	171,300
24	75.6	72.9	141,200
26	73.8	72.3	118,300
28	72.1	71.6	100,200
30	70.3	70.8	85,700
32	68.5	70.0	73,700
34	66.7	69.1	63,600
36	64.8	68.1	55,000
38	62.9	67.0	47,600
40	61.0	65.9	41,200
45	56.1	62.6	27,200

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	231,700
20	80.4	84.0	214,200
22	78.9	83.5	174,700
24	77.4	83.1	144,400
26	75.9	82.5	121,300
28	74.4	81.9	103,200
30	72.9	81.3	88,500
32	71.3	80.6	76,500
34	69.8	79.8	66,300
36	68.2	79.0	57,700
38	66.6	78.1	50,300
40	65.0	77.1	43,900
45	60.8	74.4	30,000
50	56.5	71.1	19,000
55	51.9	67.3	10,300

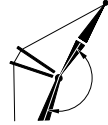
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	214,300
22	80.2	93.6	177,200
24	78.9	93.2	146,900
26	77.5	92.7	123,700
28	76.2	92.2	105,500
30	74.8	91.6	90,800
32	73.5	91.0	78,700
34	72.1	90.3	68,500
36	70.7	89.6	59,900
38	69.4	88.8	52,500
40	68.0	88.0	46,000
45	64.4	85.6	32,300
50	60.7	82.8	21,300
55	56.8	79.6	12,600
60	52.8	75.9	5,500



101,400 lb
+
0 lb



160.0 ft



168°

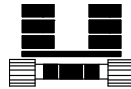
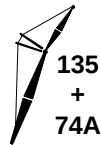
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	177,500
24	80.0	103.2	148,800
26	78.8	102.8	125,600
28	77.6	102.3	107,300
30	76.4	101.8	92,600
32	75.2	101.3	80,400
34	74.0	100.7	70,200
36	72.8	100.0	61,500
38	71.5	99.3	54,100
40	70.3	98.6	47,600
45	67.1	96.5	33,700
50	63.9	94.1	22,800
55	60.6	91.3	14,100
60	57.1	88.1	7,100

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	149,800
26	79.8	112.9	127,100
28	78.7	112.4	108,800
30	77.7	112.0	94,000
32	76.6	111.5	81,800
34	75.5	110.9	71,600
36	74.4	110.4	62,900
38	73.3	109.7	55,400
40	72.1	109.1	48,900
45	69.3	107.2	35,000
50	66.4	105.0	24,200
55	63.5	102.6	15,500
60	60.5	99.8	8,500

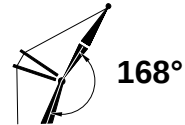
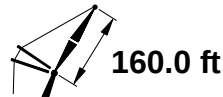
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	149,500
26	80.7	122.9	128,000
28	79.7	122.5	110,000
30	78.7	122.1	95,200
32	77.7	121.6	82,900
34	76.7	121.1	72,700
36	75.7	120.6	63,900
38	74.7	120.0	56,400
40	73.7	119.4	49,800
45	71.1	117.7	35,700
50	68.5	115.8	24,900
55	65.9	113.6	16,300
60	63.2	111.1	9,300

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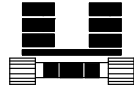
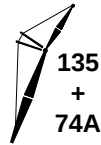


101,400 lb
+
0 lb

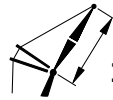


 128.0 ft			
ft	°	ft	lb
26	81.4	132.9	127,800
28	80.5	132.5	110,500
30	79.6	132.1	96,100
32	78.7	131.7	83,800
34	77.8	131.3	73,500
36	76.8	130.8	64,800
38	75.9	130.3	57,200
40	75.0	129.7	50,300
45	72.6	128.2	36,300
50	70.3	126.4	25,500
55	67.8	124.4	17,000
60	65.4	122.1	10,000
65	62.9	119.6	4,300

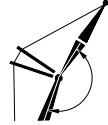
REFERENCE ONLY!



101,400 lb
+
0 lb



170.0 ft



168°

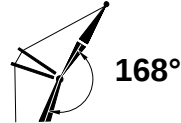
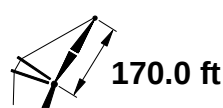
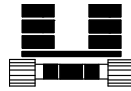
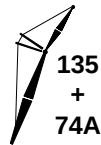
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	258,300
18	80.7	74.3	242,200
19	79.9	74.1	227,700
20	79.0	73.9	207,400
22	77.3	73.4	166,900
24	75.6	72.9	137,100
26	73.8	72.3	114,400
28	72.1	71.6	96,600
30	70.3	70.8	82,200
32	68.5	70.0	70,300
34	66.7	69.1	60,300
36	64.8	68.1	51,800
38	62.9	67.0	44,500
40	61.0	65.9	37,700
45	56.1	62.6	23,500

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	229,000
20	80.4	84.0	208,700
22	78.9	83.5	170,500
24	77.4	83.1	140,500
26	75.9	82.5	117,700
28	74.4	81.9	99,800
30	72.9	81.3	85,300
32	71.3	80.6	73,300
34	69.8	79.8	63,300
36	68.2	79.0	54,800
38	66.6	78.1	47,400
40	65.0	77.1	40,800
45	60.8	74.4	26,600
50	56.5	71.1	15,700
55	51.9	67.3	7,100

88.6 ft			
ft	o	ft	lb
20	81.5	94.0	209,100
22	80.2	93.6	172,500
24	78.9	93.2	143,200
26	77.5	92.7	120,300
28	76.2	92.2	102,300
30	74.8	91.6	87,700
32	73.5	91.0	75,700
34	72.1	90.3	65,700
36	70.7	89.6	57,100
38	69.4	88.8	49,800
40	68.0	88.0	43,200
45	64.4	85.6	29,000
50	60.7	82.8	18,200
55	56.8	79.6	9,600

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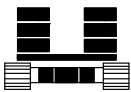
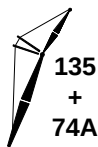
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	172,900
24	80.0	103.2	145,300
26	78.8	102.8	122,300
28	77.6	102.3	104,200
30	76.4	101.8	89,600
32	75.2	101.3	77,600
34	74.0	100.7	67,500
36	72.8	100.0	58,900
38	71.5	99.3	51,500
40	70.3	98.6	44,800
45	67.1	96.5	30,700
50	63.9	94.1	19,900
55	60.6	91.3	11,300
60	57.1	88.1	4,300

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	145,600
26	79.8	112.9	124,000
28	78.7	112.4	105,800
30	77.7	112.0	91,200
32	76.6	111.5	79,100
34	75.5	110.9	69,000
36	74.4	110.4	60,400
38	73.3	109.7	53,000
40	72.1	109.1	46,100
45	69.3	107.2	32,100
50	66.4	105.0	21,400
55	63.5	102.6	12,800
60	60.5	99.8	5,900

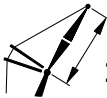
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	145,500
26	80.7	122.9	124,200
28	79.7	122.5	106,900
30	78.7	122.1	92,400
32	77.7	121.6	80,300
34	76.7	121.1	70,200
36	75.7	120.6	61,400
38	74.7	120.0	53,700
40	73.7	119.4	46,900
45	71.1	117.7	32,900
50	68.5	115.8	22,200
55	65.9	113.6	13,700
60	63.2	111.1	6,800

MLC165-1 S-1

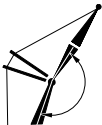
ASME B30.5



101,400 lb
+
0 lb



170.0 ft



168°

ft	o	ft	lb
26	81.4	132.9	124,100
28	80.5	132.5	107,000
30	79.6	132.1	92,900
32	78.7	131.7	80,900
34	77.8	131.3	70,700
36	76.8	130.8	61,900
38	75.9	130.3	54,200
40	75.0	129.7	47,400
45	72.6	128.2	33,600
50	70.3	126.4	22,900
55	67.8	124.4	14,500
60	65.4	122.1	7,600

REFERENCE ONLY!