

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 74A
Luffing Jib No. 135
123,400 lb Crane Counterweight
45,100 lb Carbody Counterweight
360 Degree Rating

MLC165-1 SERIES 2



LIFTING CAPACITIES: Lifting capacities for various boom lengths, 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.

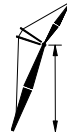
MACHINE TRAVEL: Machine to travel on a firm, level, and uniformly supporting surface. Boom and luffing jib must be within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 9417-A**.



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



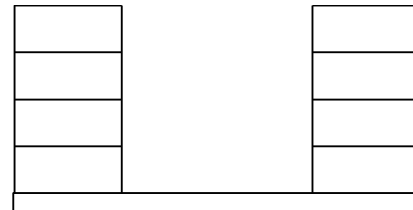
BOOM ANGLE: Boom angle in degrees ($^{\circ}$) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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, 123,400 lb crane counterweight, and two 22,550 lb carbody counterweights.

Consult chart **No. 9415-A** for main luffing jib capacities.



123,400 lb Crane Counterweight
8 Side Boxes

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

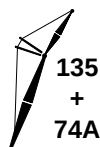
Lower Boom Point Sheave Deduct

Deduct 500 lb from capacities for boom lengths 147.6 ft thru 157.5 ft when lower boom point is equipped with outer sheave clusters.

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



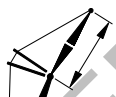
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



Luffing Jib Length

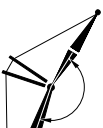


Boom Angle
(see page 1)

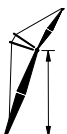
Explanation of Symbols (continued)



Operating Radius
(see page 1)



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

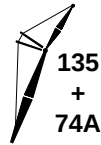


Boom Point Elevation
(see page 1)

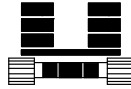


Lifting Capacities
(see page 1)

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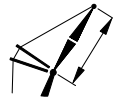
135
+
74A



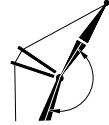
123,400 lb
+
45,100 lb



360°



70.0 ft



150°

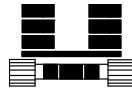
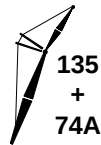
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	286,100
18	80.7	74.3	272,100
19	79.9	74.1	257,200
20	79.0	73.9	243,700
22	77.3	73.4	220,000
24	75.6	72.9	200,100
26	73.8	72.3	182,900
28	72.1	71.6	159,900
30	70.3	70.8	141,300
32	68.5	70.0	125,900
34	66.7	69.1	113,000
36	64.8	68.1	102,100

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	257,300
20	80.4	84.0	243,800
22	78.9	83.5	220,200
24	77.4	83.1	200,300
26	75.9	82.5	183,200
28	74.4	81.9	160,900
30	72.9	81.3	142,300
32	71.3	80.6	126,900
34	69.8	79.8	114,000
36	68.2	79.0	103,000
38	66.6	78.1	93,500
40	65.0	77.1	85,300

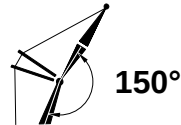
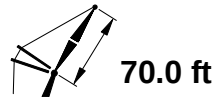
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	244,000
22	80.2	93.6	220,400
24	78.9	93.2	200,500
26	77.5	92.7	183,500
28	76.2	92.2	161,800
30	74.8	91.6	143,100
32	73.5	91.0	127,700
34	72.1	90.3	114,700
36	70.7	89.6	103,700
38	69.4	88.8	94,300
40	68.0	88.0	86,000
45	64.4	85.6	69,500

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ASME B30.5



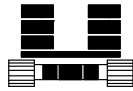
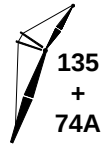
123,400 lb
+
45,100 lb



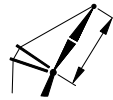
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	220,400
24	80.0	103.2	200,500
26	78.8	102.8	183,500
28	77.6	102.3	162,500
30	76.4	101.8	143,700
32	75.2	101.3	128,200
34	74.0	100.7	115,300
36	72.8	100.0	104,200
38	71.5	99.3	94,700
40	70.3	98.6	86,500
45	67.1	96.5	69,900

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	200,700
26	79.8	112.9	183,700
28	78.7	112.4	163,000
30	77.7	112.0	144,200
32	76.6	111.5	128,700
34	75.5	110.9	115,700
36	74.4	110.4	104,700
38	73.3	109.7	95,200
40	72.1	109.1	86,900
45	69.3	107.2	70,300
50	66.4	105.0	57,800

118.1 ft			
ft	o	ft	lb
24	81.7	123.2	192,400
26	80.7	122.9	183,500
28	79.7	122.5	163,400
30	78.7	122.1	144,500
32	77.7	121.6	129,000
34	76.7	121.1	116,000
36	75.7	120.6	104,900
38	74.7	120.0	95,400
40	73.7	119.4	87,100
45	71.1	117.7	70,500
50	68.5	115.8	57,900
55	65.9	113.6	48,000



123,400 lb
+
45,100 lb



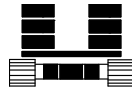
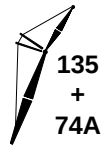
128.0 ft			
ft	o	ft	lb
26	81.4	132.9	174,100
28	80.5	132.5	163,600
30	79.6	132.1	144,800
32	78.7	131.7	129,300
34	77.8	131.3	116,200
36	76.8	130.8	105,100
38	75.9	130.3	95,600
40	75.0	129.7	87,300
45	72.6	128.2	70,600
50	70.3	126.4	58,000
55	67.8	124.4	48,200
60	65.4	122.1	40,300

137.8 ft			
ft	o	ft	lb
28	81.2	142.5	160,300
30	80.3	142.2	145,000
32	79.5	141.8	129,400
34	78.6	141.4	116,400
36	77.8	140.9	105,200
38	76.9	140.4	95,700
40	76.1	139.9	87,400
45	73.9	138.5	70,600
50	71.7	136.8	58,000
55	69.5	135.0	48,100
60	67.3	132.9	40,200
65	65.0	130.6	33,700

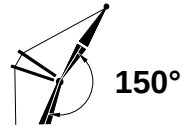
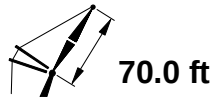
147.6 ft			
ft	o	ft	lb
30	81.0	152.2	145,600
32	80.2	151.8	130,100
34	79.4	151.4	117,000
36	78.6	151.0	105,900
38	77.8	150.5	96,300
40	77.0	150.1	88,000
45	75.0	148.7	71,300
50	73.0	147.2	58,700
55	70.9	145.5	48,800
60	68.9	143.6	40,900
65	66.8	141.5	34,400
70	64.6	139.1	28,900

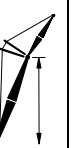
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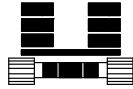
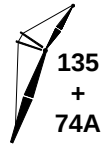


123,400 lb
+
45,100 lb

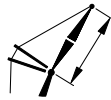


 157.5 ft			
 ft	 °	 ft	 lb
30	81.6	162.1	137,300
32	80.8	161.8	130,200
34	80.1	161.4	117,100
36	79.3	161.0	105,900
38	78.6	160.6	96,300
40	77.9	160.2	88,000
45	76.0	158.9	71,200
50	74.1	157.5	58,600
55	72.2	155.9	48,700
60	70.3	154.2	40,800
65	68.3	152.2	34,200
70	66.3	150.0	28,800
75	64.3	147.6	24,200

REFERENCE ONLY!



123,400 lb
+
45,100 lb



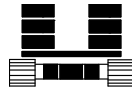
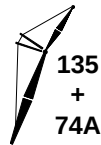
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	282,000
18	80.7	74.3	268,500
19	79.9	74.1	253,600
20	79.0	73.9	240,200
22	77.3	73.4	216,700
24	75.6	72.9	196,800
26	73.8	72.3	178,600
28	72.1	71.6	155,800
30	70.3	70.8	137,400
32	68.5	70.0	122,300
34	66.7	69.1	109,600
36	64.8	68.1	98,700

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	253,900
20	80.4	84.0	240,400
22	78.9	83.5	216,900
24	77.4	83.1	197,100
26	75.9	82.5	179,800
28	74.4	81.9	157,000
30	72.9	81.3	138,600
32	71.3	80.6	123,400
34	69.8	79.8	110,600
36	68.2	79.0	99,800
38	66.6	78.1	90,400
40	65.0	77.1	82,300

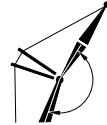
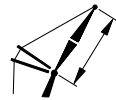
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	240,700
22	80.2	93.6	217,300
24	78.9	93.2	197,500
26	77.5	92.7	180,600
28	76.2	92.2	158,000
30	74.8	91.6	139,500
32	73.5	91.0	124,300
34	72.1	90.3	111,500
36	70.7	89.6	100,600
38	69.4	88.8	91,300
40	68.0	88.0	83,100
45	64.4	85.6	66,800

MLC165-1 S-2

ASME B30.5



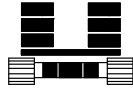
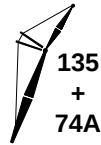
123,400 lb
+
45,100 lb



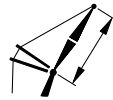
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	217,300
24	80.0	103.2	197,500
26	78.8	102.8	180,600
28	77.6	102.3	158,700
30	76.4	101.8	140,200
32	75.2	101.3	124,900
34	74.0	100.7	112,100
36	72.8	100.0	101,200
38	71.5	99.3	91,800
40	70.3	98.6	83,700
45	67.1	96.5	67,300

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	197,700
26	79.8	112.9	180,900
28	78.7	112.4	159,300
30	77.7	112.0	140,800
32	76.6	111.5	125,500
34	75.5	110.9	112,600
36	74.4	110.4	101,700
38	73.3	109.7	92,400
40	72.1	109.1	84,200
45	69.3	107.2	67,800
50	66.4	105.0	55,400

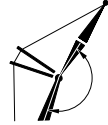
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	190,000
26	80.7	122.9	180,700
28	79.7	122.5	159,700
30	78.7	122.1	141,200
32	77.7	121.6	125,800
34	76.7	121.1	113,000
36	75.7	120.6	102,000
38	74.7	120.0	92,600
40	73.7	119.4	84,400
45	71.1	117.7	68,000
50	68.5	115.8	55,500
55	65.9	113.6	45,800



123,400 lb
+
45,100 lb



80.0 ft



150°

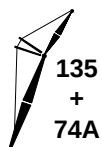
128.0 ft			
ft	°	ft	lb
26	81.4	132.9	171,600
28	80.5	132.5	160,100
30	79.6	132.1	141,500
32	78.7	131.7	126,100
34	77.8	131.3	113,200
36	76.8	130.8	102,300
38	75.9	130.3	92,900
40	75.0	129.7	84,700
45	72.6	128.2	68,200
50	70.3	126.4	55,700
55	67.8	124.4	46,000
60	65.4	122.1	38,200

137.8 ft			
ft	°	ft	lb
28	81.2	142.5	157,900
30	80.3	142.2	141,700
32	79.5	141.8	126,300
34	78.6	141.4	113,400
36	77.8	140.9	102,400
38	76.9	140.4	93,000
40	76.1	139.9	84,800
45	73.9	138.5	68,200
50	71.7	136.8	55,800
55	69.5	135.0	46,000
60	67.3	132.9	38,200
65	65.0	130.6	31,800

147.6 ft			
ft	°	ft	lb
30	81.0	152.2	142,400
32	80.2	151.8	127,000
34	79.4	151.4	114,100
36	78.6	151.0	103,100
38	77.8	150.5	93,700
40	77.0	150.1	85,400
45	75.0	148.7	68,900
50	73.0	147.2	56,400
55	70.9	145.5	46,700
60	68.9	143.6	38,900
65	66.8	141.5	32,400
70	64.6	139.1	27,100

MLC165-1 S-2

ASME B30.5



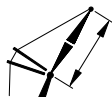
135
+
74A



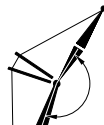
123,400 lb
+
45,100 lb



360°



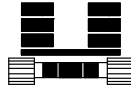
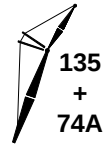
80.0 ft



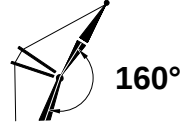
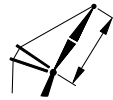
150°

157.5 ft			
ft	°	ft	lb
30	81.6	162.1	135,200
32	80.8	161.8	127,100
34	80.1	161.4	114,200
36	79.3	161.0	103,200
38	78.6	160.6	93,700
40	77.9	160.2	85,500
45	76.0	158.9	68,900
50	74.1	157.5	56,400
55	72.2	155.9	46,600
60	70.3	154.2	38,800
65	68.3	152.2	32,300
70	66.3	150.0	27,000
75	64.3	147.6	22,300

REFERENCE ONLY!



123,400 lb
+
45,100 lb



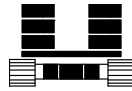
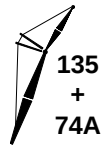
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	284,700
18	80.7	74.3	270,400
19	79.9	74.1	255,400
20	79.0	73.9	241,700
22	77.3	73.4	217,900
24	75.6	72.9	197,800
26	73.8	72.3	179,900
28	72.1	71.6	156,800
30	70.3	70.8	138,100
32	68.5	70.0	122,700
34	66.7	69.1	109,700
36	64.8	68.1	98,700
38	62.9	67.0	89,300
40	61.0	65.9	81,000

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	255,700
20	80.4	84.0	242,100
22	78.9	83.5	218,300
24	77.4	83.1	198,200
26	75.9	82.5	181,100
28	74.4	81.9	158,200
30	72.9	81.3	139,500
32	71.3	80.6	124,000
34	69.8	79.8	111,100
36	68.2	79.0	100,000
38	66.6	78.1	90,500
40	65.0	77.1	82,300
45	60.8	74.4	65,700

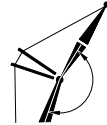
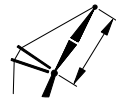
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	242,500
22	80.2	93.6	218,700
24	78.9	93.2	198,700
26	77.5	92.7	181,600
28	76.2	92.2	159,400
30	74.8	91.6	140,600
32	73.5	91.0	125,100
34	72.1	90.3	112,200
36	70.7	89.6	101,100
38	69.4	88.8	91,600
40	68.0	88.0	83,300
45	64.4	85.6	66,700
50	60.7	82.8	54,100

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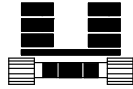
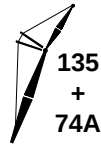
123,400 lb
+
45,100 lb



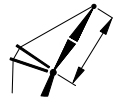
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	218,800
24	80.0	103.2	198,800
26	78.8	102.8	181,700
28	77.6	102.3	160,300
30	76.4	101.8	141,500
32	75.2	101.3	125,900
34	74.0	100.7	112,900
36	72.8	100.0	101,800
38	71.5	99.3	92,300
40	70.3	98.6	84,000
45	67.1	96.5	67,300
50	63.9	94.1	54,700
55	60.6	91.3	44,900
60	57.1	88.1	36,900

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	199,100
26	79.8	112.9	182,000
28	78.7	112.4	161,000
30	77.7	112.0	142,200
32	76.6	111.5	126,600
34	75.5	110.9	113,600
36	74.4	110.4	102,500
38	73.3	109.7	93,000
40	72.1	109.1	84,700
45	69.3	107.2	68,000
50	66.4	105.0	55,300
55	63.5	102.6	45,500
60	60.5	99.8	37,600
65	57.3	96.6	31,100

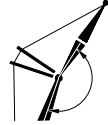
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	191,400
26	80.7	122.9	181,900
28	79.7	122.5	161,600
30	78.7	122.1	142,700
32	77.7	121.6	127,100
34	76.7	121.1	114,000
36	75.7	120.6	102,900
38	74.7	120.0	93,300
40	73.7	119.4	85,000
45	71.1	117.7	68,300
50	68.5	115.8	55,600
55	65.9	113.6	45,700
60	63.2	111.1	37,800
65	60.4	108.3	31,300
70	57.5	105.1	25,800



123,400 lb
+
45,100 lb



90.0 ft



160°

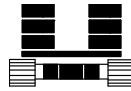
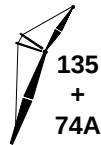
128.0 ft			
ft	o	ft	lb
26	81.4	132.9	173,000
28	80.5	132.5	162,000
30	79.6	132.1	143,100
32	78.7	131.7	127,500
34	77.8	131.3	114,400
36	76.8	130.8	103,200
38	75.9	130.3	93,700
40	75.0	129.7	85,300
45	72.6	128.2	68,600
50	70.3	126.4	55,900
55	67.8	124.4	46,000
60	65.4	122.1	38,100
65	62.9	119.6	31,500
70	60.3	116.7	26,100
75	57.7	113.6	21,400

137.8 ft			
ft	o	ft	lb
28	81.2	142.5	159,200
30	80.3	142.2	143,400
32	79.5	141.8	127,700
34	78.6	141.4	114,600
36	77.8	140.9	103,500
38	76.9	140.4	93,900
40	76.1	139.9	85,500
45	73.9	138.5	68,700
50	71.7	136.8	56,000
55	69.5	135.0	46,100
60	67.3	132.9	38,100
65	65.0	130.6	31,600
70	62.6	128.0	26,100
75	60.2	125.2	21,400
80	57.8	122.1	16,800

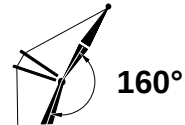
147.6 ft			
ft	o	ft	lb
30	81.0	152.2	144,100
32	80.2	151.8	128,500
34	79.4	151.4	115,400
36	78.6	151.0	104,200
38	77.8	150.5	94,600
40	77.0	150.1	86,300
45	75.0	148.7	69,400
50	73.0	147.2	56,800
55	70.9	145.5	46,800
60	68.9	143.6	38,900
65	66.8	141.5	32,300
70	64.6	139.1	26,900
75	62.4	136.5	22,200
80	60.2	133.7	17,600
85	57.9	130.6	13,700

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ASME B30.5

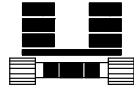
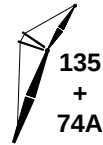


123,400 lb
+
45,100 lb

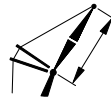


157.5 ft			
ft	°	ft	lb
30	81.6	162.1	136,200
32	80.8	161.8	128,700
34	80.1	161.4	115,500
36	79.3	161.0	104,300
38	78.6	160.6	94,700
40	77.9	160.2	86,300
45	76.0	158.9	69,500
50	74.1	157.5	56,800
55	72.2	155.9	46,800
60	70.3	154.2	38,900
65	68.3	152.2	32,300
70	66.3	150.0	26,800
75	64.3	147.6	21,900
80	62.2	145.0	17,400
85	60.2	142.2	13,400
90	58.0	139.1	9,900

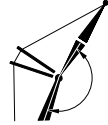
REFERENCE ONLY!



123,400 lb
+
45,100 lb



100.0 ft



160°

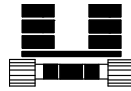
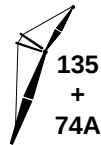
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	281,100
18	80.7	74.3	267,200
19	79.9	74.1	252,200
20	79.0	73.9	238,600
22	77.3	73.4	214,800
24	75.6	72.9	194,800
26	73.8	72.3	175,900
28	72.1	71.6	152,900
30	70.3	70.8	134,400
32	68.5	70.0	119,200
34	66.7	69.1	106,400
36	64.8	68.1	95,500
38	62.9	67.0	86,100
40	61.0	65.9	78,000

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	252,600
20	80.4	84.0	239,100
22	78.9	83.5	215,400
24	77.4	83.1	195,400
26	75.9	82.5	177,600
28	74.4	81.9	154,600
30	72.9	81.3	136,000
32	71.3	80.6	120,700
34	69.8	79.8	107,900
36	68.2	79.0	97,000
38	66.6	78.1	87,600
40	65.0	77.1	79,400
45	60.8	74.4	62,900

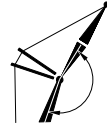
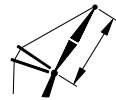
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	239,500
22	80.2	93.6	215,900
24	78.9	93.2	195,900
26	77.5	92.7	178,900
28	76.2	92.2	155,900
30	74.8	91.6	137,300
32	73.5	91.0	122,000
34	72.1	90.3	109,100
36	70.7	89.6	98,100
38	69.4	88.8	88,700
40	68.0	88.0	80,500
45	64.4	85.6	64,000
50	60.7	82.8	51,600

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ASME B30.5



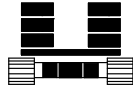
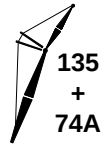
123,400 lb
+
45,100 lb



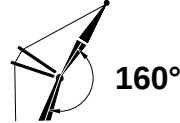
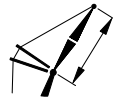
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	216,000
24	80.0	103.2	196,100
26	78.8	102.8	179,100
28	77.6	102.3	156,900
30	76.4	101.8	138,200
32	75.2	101.3	122,900
34	74.0	100.7	110,000
36	72.8	100.0	99,000
38	71.5	99.3	89,500
40	70.3	98.6	81,300
45	67.1	96.5	64,800
50	63.9	94.1	52,300
55	60.6	91.3	42,600
60	57.1	88.1	34,700

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	196,500
26	79.8	112.9	179,500
28	78.7	112.4	157,700
30	77.7	112.0	139,000
32	76.6	111.5	123,600
34	75.5	110.9	110,700
36	74.4	110.4	99,700
38	73.3	109.7	90,300
40	72.1	109.1	82,100
45	69.3	107.2	65,500
50	66.4	105.0	53,000
55	63.5	102.6	43,300
60	60.5	99.8	35,400
65	57.3	96.6	29,000

118.1 ft			
ft	o	ft	lb
24	81.7	123.2	189,200
26	80.7	122.9	179,400
28	79.7	122.5	158,400
30	78.7	122.1	139,600
32	77.7	121.6	124,200
34	76.7	121.1	111,200
36	75.7	120.6	100,200
38	74.7	120.0	90,700
40	73.7	119.4	82,500
45	71.1	117.7	65,900
50	68.5	115.8	53,400
55	65.9	113.6	43,600
60	63.2	111.1	35,700
65	60.4	108.3	29,300
70	57.5	105.1	23,900



123,400 lb
+
45,100 lb



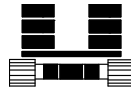
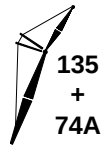
128.0 ft			
ft	o	ft	lb
26	81.4	132.9	170,700
28	80.5	132.5	158,800
30	79.6	132.1	140,100
32	78.7	131.7	124,600
34	77.8	131.3	111,600
36	76.8	130.8	100,600
38	75.9	130.3	91,100
40	75.0	129.7	82,900
45	72.6	128.2	66,200
50	70.3	126.4	53,700
55	67.8	124.4	43,900
60	65.4	122.1	36,000
65	62.9	119.6	29,600
70	60.3	116.7	24,200
75	57.7	113.6	19,100

137.8 ft			
ft	o	ft	lb
28	81.2	142.5	157,000
30	80.3	142.2	140,500
32	79.5	141.8	124,900
34	78.6	141.4	111,900
36	77.8	140.9	100,900
38	76.9	140.4	91,400
40	76.1	139.9	83,100
45	73.9	138.5	66,400
50	71.7	136.8	53,900
55	69.5	135.0	44,000
60	67.3	132.9	36,200
65	65.0	130.6	29,700
70	62.6	128.0	24,200
75	60.2	125.2	19,000
80	57.8	122.1	14,500

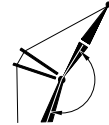
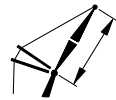
147.6 ft			
ft	o	ft	lb
30	81.0	152.2	141,200
32	80.2	151.8	125,700
34	79.4	151.4	112,700
36	78.6	151.0	101,700
38	77.8	150.5	92,200
40	77.0	150.1	83,900
45	75.0	148.7	67,200
50	73.0	147.2	54,700
55	70.9	145.5	44,800
60	68.9	143.6	37,000
65	66.8	141.5	30,500
70	64.6	139.1	25,100
75	62.4	136.5	19,900
80	60.2	133.7	15,400
85	57.9	130.6	11,400

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ASME B30.5

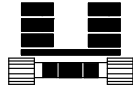
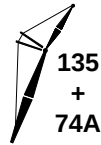


123,400 lb
+
45,100 lb

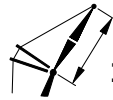


 157.5 ft			
ft	°	ft	lb
30	81.6	162.1	134,300
32	80.8	161.8	126,000
34	80.1	161.4	112,900
36	79.3	161.0	101,900
38	78.6	160.6	92,300
40	77.9	160.2	84,000
45	76.0	158.9	67,300
50	74.1	157.5	54,700
55	72.2	155.9	44,900
60	70.3	154.2	37,000
65	68.3	152.2	30,500
70	66.3	150.0	24,800
75	64.3	147.6	19,600
80	62.2	145.0	15,100
85	60.2	142.2	11,200
90	58.0	139.1	7,700

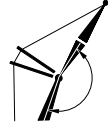
REFERENCE ONLY!



123,400 lb
+
45,100 lb



110.0 ft



168°

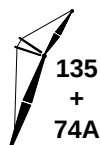
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	284,800
18	80.7	74.3	270,600
19	79.9	74.1	255,400
20	79.0	73.9	241,600
22	77.3	73.4	217,400
24	75.6	72.9	197,000
26	73.8	72.3	178,900
28	72.1	71.6	155,500
30	70.3	70.8	136,500
32	68.5	70.0	120,900
34	66.7	69.1	107,800
36	64.8	68.1	96,700
38	62.9	67.0	87,100
40	61.0	65.9	78,800
45	56.1	62.6	62,000

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	255,900
20	80.4	84.0	242,200
22	78.9	83.5	218,100
24	77.4	83.1	197,800
26	75.9	82.5	180,400
28	74.4	81.9	157,300
30	72.9	81.3	138,400
32	71.3	80.6	122,700
34	69.8	79.8	109,600
36	68.2	79.0	98,400
38	66.6	78.1	88,800
40	65.0	77.1	80,400
45	60.8	74.4	63,600
50	56.5	71.1	50,900
55	51.9	67.3	40,900

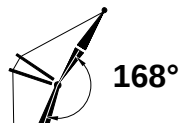
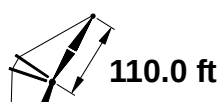
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	242,700
22	80.2	93.6	218,700
24	78.9	93.2	198,400
26	77.5	92.7	181,100
28	76.2	92.2	158,800
30	74.8	91.6	139,800
32	73.5	91.0	124,100
34	72.1	90.3	111,000
36	70.7	89.6	99,800
38	69.4	88.8	90,200
40	68.0	88.0	81,800
45	64.4	85.6	64,900
50	60.7	82.8	52,200
55	56.8	79.6	42,200
60	52.8	75.9	34,200

MLC165-1 S-2

ASME B30.5



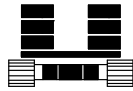
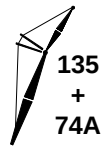
123,400 lb
+
45,100 lb



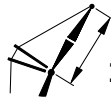
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	218,900
24	80.0	103.2	198,700
26	78.8	102.8	181,400
28	77.6	102.3	160,000
30	76.4	101.8	140,900
32	75.2	101.3	125,200
34	74.0	100.7	112,000
36	72.8	100.0	100,800
38	71.5	99.3	91,100
40	70.3	98.6	82,700
45	67.1	96.5	65,800
50	63.9	94.1	53,100
55	60.6	91.3	43,100
60	57.1	88.1	35,000
65	53.5	84.5	28,400

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	199,200
26	79.8	112.9	181,900
28	78.7	112.4	160,900
30	77.7	112.0	141,800
32	76.6	111.5	126,100
34	75.5	110.9	112,900
36	74.4	110.4	101,700
38	73.3	109.7	92,000
40	72.1	109.1	83,600
45	69.3	107.2	66,700
50	66.4	105.0	53,900
55	63.5	102.6	43,900
60	60.5	99.8	35,900
65	57.3	96.6	29,300
70	54.1	93.1	23,800

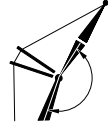
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	191,000
26	80.7	122.9	181,900
28	79.7	122.5	161,600
30	78.7	122.1	142,500
32	77.7	121.6	126,700
34	76.7	121.1	113,500
36	75.7	120.6	102,200
38	74.7	120.0	92,600
40	73.7	119.4	84,100
45	71.1	117.7	67,200
50	68.5	115.8	54,400
55	65.9	113.6	44,400
60	63.2	111.1	36,300
65	60.4	108.3	29,700
70	57.5	105.1	24,200
75	54.6	101.6	19,100
80	51.5	97.7	14,400



123,400 lb
+
45,100 lb



110.0 ft



168°

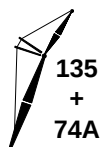
128.0 ft			
ft	o	ft	lb
26	81.4	132.9	172,700
28	80.5	132.5	162,200
30	79.6	132.1	143,000
32	78.7	131.7	127,200
34	77.8	131.3	114,000
36	76.8	130.8	102,700
38	75.9	130.3	93,000
40	75.0	129.7	84,600
45	72.6	128.2	67,600
50	70.3	126.4	54,800
55	67.8	124.4	44,700
60	65.4	122.1	36,700
65	62.9	119.6	30,100
70	60.3	116.7	24,500
75	57.7	113.6	19,400
80	54.9	110.1	14,700
85	52.1	106.3	10,600

137.8 ft			
ft	o	ft	lb
28	81.2	142.5	158,800
30	80.3	142.2	143,500
32	79.5	141.8	127,600
34	78.6	141.4	114,400
36	77.8	140.9	103,100
38	76.9	140.4	93,300
40	76.1	139.9	84,900
45	73.9	138.5	67,900
50	71.7	136.8	55,000
55	69.5	135.0	45,000
60	67.3	132.9	36,900
65	65.0	130.6	30,300
70	62.6	128.0	24,700
75	60.2	125.2	19,400
80	57.8	122.1	14,700
85	55.3	118.7	10,700
90	52.7	114.9	7,100

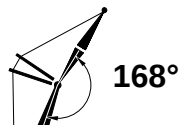
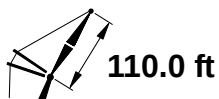
147.6 ft			
ft	o	ft	lb
30	81.0	152.2	144,300
32	80.2	151.8	128,500
34	79.4	151.4	115,200
36	78.6	151.0	103,900
38	77.8	150.5	94,200
40	77.0	150.1	85,700
45	75.0	148.7	68,700
50	73.0	147.2	55,900
55	70.9	145.5	45,800
60	68.9	143.6	37,800
65	66.8	141.5	31,100
70	64.6	139.1	25,600
75	62.4	136.5	20,300
80	60.2	133.7	15,700
85	57.9	130.6	11,700
90	55.6	127.2	8,100
95	53.2	123.5	4,900

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ASME B30.5

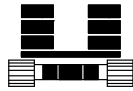
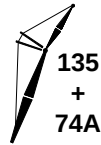


123,400 lb
+
45,100 lb

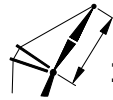


 157.5 ft			
ft	°	ft	lb
30	81.6	162.1	135,600
32	80.8	161.8	128,800
34	80.1	161.4	115,500
36	79.3	161.0	104,100
38	78.6	160.6	94,400
40	77.9	160.2	85,900
45	76.0	158.9	68,900
50	74.1	157.5	56,000
55	72.2	155.9	45,900
60	70.3	154.2	37,800
65	68.3	152.2	31,200
70	66.3	150.0	25,500
75	64.3	147.6	20,200
80	62.2	145.0	15,600
85	60.2	142.2	11,500
90	58.0	139.1	8,000
95	55.8	135.7	4,800

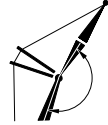
REFERENCE ONLY!



123,400 lb
+
45,100 lb



120.0 ft



168°

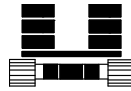
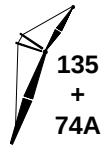
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	281,700
18	80.7	74.3	267,900
19	79.9	74.1	252,700
20	79.0	73.9	238,900
22	77.3	73.4	214,800
24	75.6	72.9	194,400
26	73.8	72.3	175,300
28	72.1	71.6	152,100
30	70.3	70.8	133,200
32	68.5	70.0	117,700
34	66.7	69.1	104,700
36	64.8	68.1	93,700
38	62.9	67.0	84,100
40	61.0	65.9	75,900
45	56.1	62.6	59,200

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	253,400
20	80.4	84.0	239,600
22	78.9	83.5	215,600
24	77.4	83.1	195,300
26	75.9	82.5	177,500
28	74.4	81.9	154,100
30	72.9	81.3	135,300
32	71.3	80.6	119,700
34	69.8	79.8	106,700
36	68.2	79.0	95,600
38	66.6	78.1	86,000
40	65.0	77.1	77,700
45	60.8	74.4	61,000
50	56.5	71.1	48,300
55	51.9	67.3	38,400

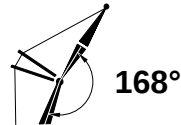
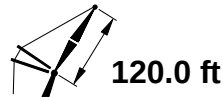
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	240,300
22	80.2	93.6	216,300
24	78.9	93.2	196,100
26	77.5	92.7	178,700
28	76.2	92.2	155,800
30	74.8	91.6	136,900
32	73.5	91.0	121,300
34	72.1	90.3	108,300
36	70.7	89.6	97,100
38	69.4	88.8	87,600
40	68.0	88.0	79,200
45	64.4	85.6	62,500
50	60.7	82.8	49,800
55	56.8	79.6	39,900
60	52.8	75.9	31,900

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ASME B30.5



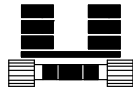
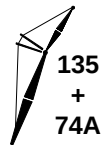
123,400 lb
+
45,100 lb



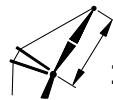
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	216,600
24	80.0	103.2	196,400
26	78.8	102.8	179,100
28	77.6	102.3	157,100
30	76.4	101.8	138,100
32	75.2	101.3	122,500
34	74.0	100.7	109,400
36	72.8	100.0	98,300
38	71.5	99.3	88,700
40	70.3	98.6	80,300
45	67.1	96.5	63,500
50	63.9	94.1	50,800
55	60.6	91.3	40,900
60	57.1	88.1	32,900
65	53.5	84.5	26,400

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	196,900
26	79.8	112.9	179,700
28	78.7	112.4	158,100
30	77.7	112.0	139,200
32	76.6	111.5	123,500
34	75.5	110.9	110,400
36	74.4	110.4	99,200
38	73.3	109.7	89,600
40	72.1	109.1	81,300
45	69.3	107.2	64,400
50	66.4	105.0	51,700
55	63.5	102.6	41,800
60	60.5	99.8	33,800
65	57.3	96.6	27,300
70	54.1	93.1	21,600

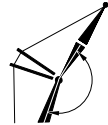
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	189,100
26	80.7	122.9	179,700
28	79.7	122.5	158,900
30	78.7	122.1	139,900
32	77.7	121.6	124,200
34	76.7	121.1	111,100
36	75.7	120.6	99,900
38	74.7	120.0	90,300
40	73.7	119.4	81,900
45	71.1	117.7	65,000
50	68.5	115.8	52,300
55	65.9	113.6	42,300
60	63.2	111.1	34,300
65	60.4	108.3	27,800
70	57.5	105.1	22,000
75	54.6	101.6	16,600
80	51.5	97.7	12,000



123,400 lb
+
45,100 lb



120.0 ft



168°

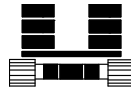
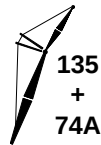
128.0 ft			
ft	o	ft	lb
26	81.4	132.9	170,600
28	80.5	132.5	159,600
30	79.6	132.1	140,500
32	78.7	131.7	124,800
34	77.8	131.3	111,600
36	76.8	130.8	100,400
38	75.9	130.3	90,800
40	75.0	129.7	82,400
45	72.6	128.2	65,500
50	70.3	126.4	52,800
55	67.8	124.4	42,800
60	65.4	122.1	34,800
65	62.9	119.6	28,200
70	60.3	116.7	22,300
75	57.7	113.6	17,000
80	54.9	110.1	12,400
85	52.1	106.3	8,300

137.8 ft			
ft	o	ft	lb
28	81.2	142.5	156,800
30	80.3	142.2	141,000
32	79.5	141.8	125,300
34	78.6	141.4	112,100
36	77.8	140.9	100,800
38	76.9	140.4	91,200
40	76.1	139.9	82,800
45	73.9	138.5	65,800
50	71.7	136.8	53,100
55	69.5	135.0	43,100
60	67.3	132.9	35,000
65	65.0	130.6	28,500
70	62.6	128.0	22,400
75	60.2	125.2	17,100
80	57.8	122.1	12,400
85	55.3	118.7	8,400
90	52.7	114.9	4,900

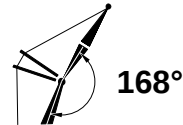
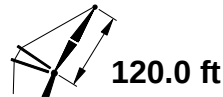
147.6 ft			
ft	o	ft	lb
30	81.0	152.2	141,900
32	80.2	151.8	126,200
34	79.4	151.4	113,000
36	78.6	151.0	101,800
38	77.8	150.5	92,100
40	77.0	150.1	83,700
45	75.0	148.7	66,700
50	73.0	147.2	54,000
55	70.9	145.5	44,000
60	68.9	143.6	36,000
65	66.8	141.5	29,400
70	64.6	139.1	23,400
75	62.4	136.5	18,100
80	60.2	133.7	13,500
85	57.9	130.6	9,500
90	55.6	127.2	6,000

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ASME B30.5

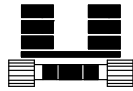
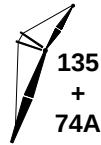


123,400 lb
+
45,100 lb

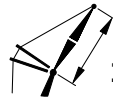


 157.5 ft			
ft	°	ft	lb
30	81.6	162.1	133,900
32	80.8	161.8	126,500
34	80.1	161.4	113,300
36	79.3	161.0	102,000
38	78.6	160.6	92,300
40	77.9	160.2	83,900
45	76.0	158.9	66,900
50	74.1	157.5	54,100
55	72.2	155.9	44,100
60	70.3	154.2	36,100
65	68.3	152.2	29,500
70	66.3	150.0	23,300
75	64.3	147.6	18,000
80	62.2	145.0	13,400
85	60.2	142.2	9,400
90	58.0	139.1	5,900

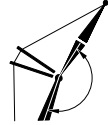
REFERENCE ONLY!



123,400 lb
+
45,100 lb



130.0 ft



168°

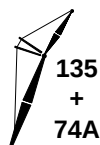
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	279,200
18	80.7	74.3	265,500
19	79.9	74.1	250,300
20	79.0	73.9	236,500
22	77.3	73.4	212,400
24	75.6	72.9	192,100
26	73.8	72.3	172,000
28	72.1	71.6	148,900
30	70.3	70.8	130,200
32	68.5	70.0	114,800
34	66.7	69.1	101,900
36	64.8	68.1	90,900
38	62.9	67.0	81,500
40	61.0	65.9	73,200
45	56.1	62.6	56,700

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	251,100
20	80.4	84.0	237,300
22	78.9	83.5	213,300
24	77.4	83.1	193,100
26	75.9	82.5	174,400
28	74.4	81.9	151,200
30	72.9	81.3	132,500
32	71.3	80.6	117,000
34	69.8	79.8	104,100
36	68.2	79.0	93,000
38	66.6	78.1	83,600
40	65.0	77.1	75,300
45	60.8	74.4	58,700
50	56.5	71.1	46,100
55	51.9	67.3	36,300

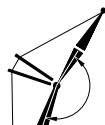
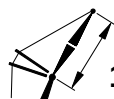
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	238,100
22	80.2	93.6	214,200
24	78.9	93.2	194,000
26	77.5	92.7	176,300
28	76.2	92.2	153,000
30	74.8	91.6	134,200
32	73.5	91.0	118,800
34	72.1	90.3	105,800
36	70.7	89.6	94,700
38	69.4	88.8	85,200
40	68.0	88.0	77,000
45	64.4	85.6	60,300
50	60.7	82.8	47,700
55	56.8	79.6	37,900
60	52.8	75.9	30,000

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ASME B30.5



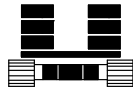
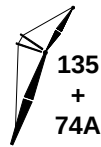
123,400 lb
+
45,100 lb



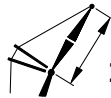
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	214,500
24	80.0	103.2	194,400
26	78.8	102.8	177,100
28	77.6	102.3	154,400
30	76.4	101.8	135,600
32	75.2	101.3	120,100
34	74.0	100.7	107,000
36	72.8	100.0	96,000
38	71.5	99.3	86,400
40	70.3	98.6	78,100
45	67.1	96.5	61,400
50	63.9	94.1	48,800
55	60.6	91.3	39,000
60	57.1	88.1	31,100
65	53.5	84.5	24,600

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	195,000
26	79.8	112.9	177,800
28	78.7	112.4	155,600
30	77.7	112.0	136,700
32	76.6	111.5	121,200
34	75.5	110.9	108,100
36	74.4	110.4	97,000
38	73.3	109.7	87,500
40	72.1	109.1	79,200
45	69.3	107.2	62,500
50	66.4	105.0	49,900
55	63.5	102.6	40,000
60	60.5	99.8	32,100
65	57.3	96.6	25,600
70	54.1	93.1	19,400

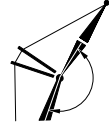
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	187,700
26	80.7	122.9	177,900
28	79.7	122.5	156,500
30	78.7	122.1	137,600
32	77.7	121.6	122,000
34	76.7	121.1	108,900
36	75.7	120.6	97,800
38	74.7	120.0	88,200
40	73.7	119.4	79,900
45	71.1	117.7	63,100
50	68.5	115.8	50,500
55	65.9	113.6	40,600
60	63.2	111.1	32,700
65	60.4	108.3	26,100
70	57.5	105.1	19,900
75	54.6	101.6	14,600
80	51.5	97.7	10,000



123,400 lb
+
45,100 lb



130.0 ft



168°

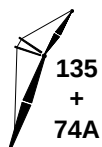
128.0 ft			
ft	o	ft	lb
26	81.4	132.9	169,200
28	80.5	132.5	157,200
30	79.6	132.1	138,200
32	78.7	131.7	122,600
34	77.8	131.3	109,500
36	76.8	130.8	98,400
38	75.9	130.3	88,800
40	75.0	129.7	80,500
45	72.6	128.2	63,700
50	70.3	126.4	51,000
55	67.8	124.4	41,100
60	65.4	122.1	33,200
65	62.9	119.6	26,500
70	60.3	116.7	20,300
75	57.7	113.6	15,000
80	54.9	110.1	10,400
85	52.1	106.3	6,400

137.8 ft			
ft	o	ft	lb
28	81.2	142.5	155,300
30	80.3	142.2	138,800
32	79.5	141.8	123,200
34	78.6	141.4	110,000
36	77.8	140.9	98,900
38	76.9	140.4	89,300
40	76.1	139.9	80,900
45	73.9	138.5	64,100
50	71.7	136.8	51,400
55	69.5	135.0	41,500
60	67.3	132.9	33,500
65	65.0	130.6	26,600
70	62.6	128.0	20,400
75	60.2	125.2	15,200
80	57.8	122.1	10,600
85	55.3	118.7	6,600

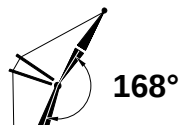
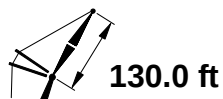
147.6 ft			
ft	o	ft	lb
30	81.0	152.2	139,800
32	80.2	151.8	124,100
34	79.4	151.4	111,000
36	78.6	151.0	99,800
38	77.8	150.5	90,200
40	77.0	150.1	81,900
45	75.0	148.7	65,000
50	73.0	147.2	52,300
55	70.9	145.5	42,400
60	68.9	143.6	34,500
65	66.8	141.5	27,700
70	64.6	139.1	21,500
75	62.4	136.5	16,200
80	60.2	133.7	11,700
85	57.9	130.6	7,700
90	55.6	127.2	4,200

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ASME B30.5

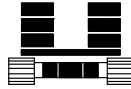
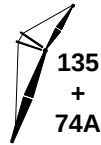


123,400 lb
+
45,100 lb

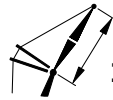


 157.5 ft			
ft	°	ft	lb
30	81.6	162.1	132,600
32	80.8	161.8	124,500
34	80.1	161.4	111,300
36	79.3	161.0	100,100
38	78.6	160.6	90,500
40	77.9	160.2	82,100
45	76.0	158.9	65,300
50	74.1	157.5	52,500
55	72.2	155.9	42,600
60	70.3	154.2	34,600
65	68.3	152.2	27,600
70	66.3	150.0	21,400
75	64.3	147.6	16,200
80	62.2	145.0	11,600
85	60.2	142.2	7,700
90	58.0	139.1	4,200

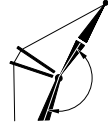
REFERENCE ONLY!



123,400 lb
+
45,100 lb



140.0 ft



168°

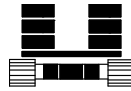
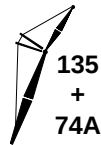
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	275,900
18	80.7	74.3	262,500
19	79.9	74.1	247,400
20	79.0	73.9	233,600
22	77.3	73.4	209,600
24	75.6	72.9	189,300
26	73.8	72.3	168,200
28	72.1	71.6	145,200
30	70.3	70.8	126,700
32	68.5	70.0	111,400
34	66.7	69.1	98,600
36	64.8	68.1	87,700
38	62.9	67.0	78,300
40	61.0	65.9	70,100
45	56.1	62.6	53,700

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	248,300
20	80.4	84.0	234,600
22	78.9	83.5	210,600
24	77.4	83.1	190,400
26	75.9	82.5	170,800
28	74.4	81.9	147,700
30	72.9	81.3	129,100
32	71.3	80.6	113,800
34	69.8	79.8	100,900
36	68.2	79.0	90,000
38	66.6	78.1	80,600
40	65.0	77.1	72,400
45	60.8	74.4	55,900
50	56.5	71.1	43,400
55	51.9	67.3	33,700

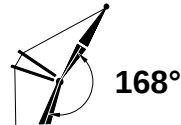
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	235,500
22	80.2	93.6	211,600
24	78.9	93.2	191,400
26	77.5	92.7	172,800
28	76.2	92.2	149,700
30	74.8	91.6	131,100
32	73.5	91.0	115,700
34	72.1	90.3	102,800
36	70.7	89.6	91,800
38	69.4	88.8	82,400
40	68.0	88.0	74,200
45	64.4	85.6	57,700
50	60.7	82.8	45,200
55	56.8	79.6	35,400
60	52.8	75.9	27,600

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ASME B30.5



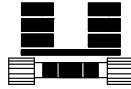
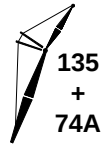
123,400 lb
+
45,100 lb



98.4 ft			
ft	o	ft	lb
22	81.2	103.6	212,000
24	80.0	103.2	191,900
26	78.8	102.8	174,500
28	77.6	102.3	151,300
30	76.4	101.8	132,600
32	75.2	101.3	117,200
34	74.0	100.7	104,200
36	72.8	100.0	93,200
38	71.5	99.3	83,700
40	70.3	98.6	75,500
45	67.1	96.5	58,900
50	63.9	94.1	46,400
55	60.6	91.3	36,600
60	57.1	88.1	28,800
65	53.5	84.5	21,700

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	192,600
26	79.8	112.9	175,400
28	78.7	112.4	152,500
30	77.7	112.0	133,800
32	76.6	111.5	118,400
34	75.5	110.9	105,400
36	74.4	110.4	94,400
38	73.3	109.7	84,900
40	72.1	109.1	76,700
45	69.3	107.2	60,100
50	66.4	105.0	47,600
55	63.5	102.6	37,800
60	60.5	99.8	29,900
65	57.3	96.6	22,900
70	54.1	93.1	16,700

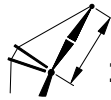
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	185,600
26	80.7	122.9	175,600
28	79.7	122.5	153,500
30	78.7	122.1	134,800
32	77.7	121.6	119,300
34	76.7	121.1	106,300
36	75.7	120.6	95,200
38	74.7	120.0	85,700
40	73.7	119.4	77,500
45	71.1	117.7	60,800
50	68.5	115.8	48,300
55	65.9	113.6	38,400
60	63.2	111.1	30,600
65	60.4	108.3	23,400
70	57.5	105.1	17,200
75	54.6	101.6	11,900
80	51.5	97.7	7,400



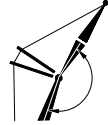
123,400 lb
+
45,100 lb



360°



140.0 ft



168°

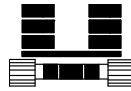
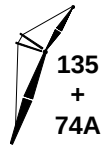
128.0 ft			
ft	o	ft	lb
26	81.4	132.9	167,000
28	80.5	132.5	154,300
30	79.6	132.1	135,500
32	78.7	131.7	120,000
34	77.8	131.3	107,000
36	76.8	130.8	95,900
38	75.9	130.3	86,400
40	75.0	129.7	78,100
45	72.6	128.2	61,500
50	70.3	126.4	48,900
55	67.8	124.4	39,000
60	65.4	122.1	31,100
65	62.9	119.6	23,900
70	60.3	116.7	17,800
75	57.7	113.6	12,500
80	54.9	110.1	7,900
85	52.1	106.3	4,000

137.8 ft			
ft	o	ft	lb
28	81.2	142.5	153,200
30	80.3	142.2	136,200
32	79.5	141.8	120,600
34	78.6	141.4	107,600
36	77.8	140.9	96,500
38	76.9	140.4	86,900
40	76.1	139.9	78,600
45	73.9	138.5	61,900
50	71.7	136.8	49,300
55	69.5	135.0	39,400
60	67.3	132.9	31,400
65	65.0	130.6	24,100
70	62.6	128.0	18,000
75	60.2	125.2	12,700
80	57.8	122.1	8,200
85	55.3	118.7	4,200

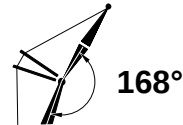
147.6 ft			
ft	o	ft	lb
30	81.0	152.2	137,200
32	80.2	151.8	121,600
34	79.4	151.4	108,600
36	78.6	151.0	97,500
38	77.8	150.5	87,900
40	77.0	150.1	79,600
45	75.0	148.7	62,900
50	73.0	147.2	50,300
55	70.9	145.5	40,500
60	68.9	143.6	32,500
65	66.8	141.5	25,200
70	64.6	139.1	19,100
75	62.4	136.5	13,900
80	60.2	133.7	9,400
85	57.9	130.6	5,400

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ASME B30.5

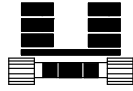
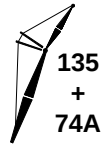


123,400 lb
+
45,100 lb

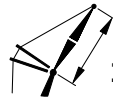


 157.5 ft			
ft	°	ft	lb
30	81.6	162.1	130,700
32	80.8	161.8	122,100
34	80.1	161.4	109,000
36	79.3	161.0	97,900
38	78.6	160.6	88,300
40	77.9	160.2	80,000
45	76.0	158.9	63,200
50	74.1	157.5	50,600
55	72.2	155.9	40,700
60	70.3	154.2	32,400
65	68.3	152.2	25,200
70	66.3	150.0	19,100
75	64.3	147.6	13,900
80	62.2	145.0	9,400
85	60.2	142.2	5,400

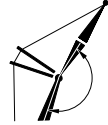
REFERENCE ONLY!



123,400 lb
+
45,100 lb



150.0 ft



168°

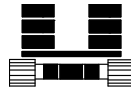
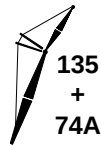
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	273,200
18	80.7	74.3	260,400
19	79.9	74.1	245,300
20	79.0	73.9	231,500
22	77.3	73.4	207,500
24	75.6	72.9	187,300
26	73.8	72.3	165,200
28	72.1	71.6	142,400
30	70.3	70.8	124,000
32	68.5	70.0	108,900
34	66.7	69.1	96,100
36	64.8	68.1	85,300
38	62.9	67.0	76,000
40	61.0	65.9	67,900
45	56.1	62.6	51,600

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	246,300
20	80.4	84.0	232,600
22	78.9	83.5	208,700
24	77.4	83.1	188,500
26	75.9	82.5	168,000
28	74.4	81.9	145,100
30	72.9	81.3	126,700
32	71.3	80.6	111,400
34	69.8	79.8	98,700
36	68.2	79.0	87,800
38	66.6	78.1	78,400
40	65.0	77.1	70,300
45	60.8	74.4	53,900
50	56.5	71.1	41,600
55	51.9	67.3	31,900

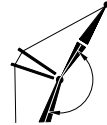
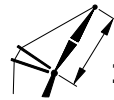
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	233,600
22	80.2	93.6	209,700
24	78.9	93.2	189,600
26	77.5	92.7	170,200
28	76.2	92.2	147,300
30	74.8	91.6	128,800
32	73.5	91.0	113,500
34	72.1	90.3	100,700
36	70.7	89.6	89,800
38	69.4	88.8	80,400
40	68.0	88.0	72,300
45	64.4	85.6	55,900
50	60.7	82.8	43,500
55	56.8	79.6	33,800
60	52.8	75.9	25,800

MLC165-1 S-2

ASME B30.5



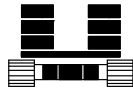
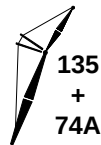
123,400 lb
+
45,100 lb



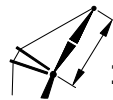
98.4 ft			
ft	°	ft	lb
22	81.2	103.6	210,300
24	80.0	103.2	190,200
26	78.8	102.8	172,000
28	77.6	102.3	148,900
30	76.4	101.8	130,400
32	75.2	101.3	115,000
34	74.0	100.7	102,200
36	72.8	100.0	91,300
38	71.5	99.3	81,900
40	70.3	98.6	73,700
45	67.1	96.5	57,200
50	63.9	94.1	44,800
55	60.6	91.3	35,100
60	57.1	88.1	27,100
65	53.5	84.5	19,800

108.3 ft			
ft	°	ft	lb
24	80.9	113.3	190,900
26	79.8	112.9	173,400
28	78.7	112.4	150,300
30	77.7	112.0	131,700
32	76.6	111.5	116,400
34	75.5	110.9	103,500
36	74.4	110.4	92,600
38	73.3	109.7	83,100
40	72.1	109.1	74,900
45	69.3	107.2	58,500
50	66.4	105.0	46,000
55	63.5	102.6	36,300
60	60.5	99.8	28,400
65	57.3	96.6	21,100
70	54.1	93.1	14,900

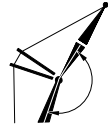
118.1 ft			
ft	°	ft	lb
24	81.7	123.2	184,100
26	80.7	122.9	174,000
28	79.7	122.5	151,400
30	78.7	122.1	132,700
32	77.7	121.6	117,300
34	76.7	121.1	104,400
36	75.7	120.6	93,500
38	74.7	120.0	84,000
40	73.7	119.4	75,800
45	71.1	117.7	59,300
50	68.5	115.8	46,800
55	65.9	113.6	37,000
60	63.2	111.1	29,000
65	60.4	108.3	21,700
70	57.5	105.1	15,600
75	54.6	101.6	10,300
80	51.5	97.7	5,800



123,400 lb
+
45,100 lb



150.0 ft



168°

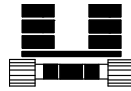
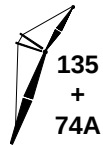
128.0 ft			
ft	o	ft	lb
26	81.4	132.9	165,400
28	80.5	132.5	152,200
30	79.6	132.1	133,500
32	78.7	131.7	118,100
34	77.8	131.3	105,200
36	76.8	130.8	94,200
38	75.9	130.3	84,800
40	75.0	129.7	76,500
45	72.6	128.2	60,000
50	70.3	126.4	47,500
55	67.8	124.4	37,700
60	65.4	122.1	29,500
65	62.9	119.6	22,300
70	60.3	116.7	16,200
75	57.7	113.6	11,000
80	54.9	110.1	6,400

137.8 ft			
ft	o	ft	lb
28	81.2	142.5	151,600
30	80.3	142.2	134,200
32	79.5	141.8	118,800
34	78.6	141.4	105,800
36	77.8	140.9	94,800
38	76.9	140.4	85,300
40	76.1	139.9	77,100
45	73.9	138.5	60,500
50	71.7	136.8	47,900
55	69.5	135.0	38,200
60	67.3	132.9	29,800
65	65.0	130.6	22,500
70	62.6	128.0	16,400
75	60.2	125.2	11,200
80	57.8	122.1	6,700

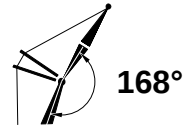
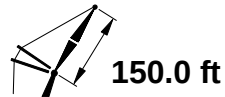
147.6 ft			
ft	o	ft	lb
30	81.0	152.2	135,300
32	80.2	151.8	119,900
34	79.4	151.4	106,900
36	78.6	151.0	95,900
38	77.8	150.5	86,400
40	77.0	150.1	78,100
45	75.0	148.7	61,500
50	73.0	147.2	49,000
55	70.9	145.5	39,200
60	68.9	143.6	30,900
65	66.8	141.5	23,700
70	64.6	139.1	17,600
75	62.4	136.5	12,500
80	60.2	133.7	8,000
85	57.9	130.6	4,100

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ASME B30.5

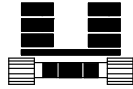
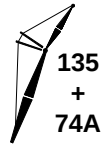


123,400 lb
+
45,100 lb

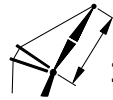


 157.5 ft			
30	81.6	162.1	129,400
32	80.8	161.8	120,300
34	80.1	161.4	107,300
36	79.3	161.0	96,300
38	78.6	160.6	86,800
40	77.9	160.2	78,500
45	76.0	158.9	61,900
50	74.1	157.5	49,300
55	72.2	155.9	39,500
60	70.3	154.2	30,900
65	68.3	152.2	23,700
70	66.3	150.0	17,700
75	64.3	147.6	12,500
80	62.2	145.0	8,000
85	60.2	142.2	4,100

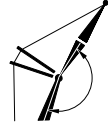
REFERENCE ONLY!



123,400 lb
+
45,100 lb



160.0 ft



168°

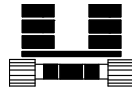
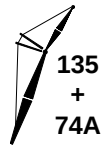
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	269,600
18	80.7	74.3	257,400
19	79.9	74.1	242,200
20	79.0	73.9	228,500
22	77.3	73.4	204,600
24	75.6	72.9	184,300
26	73.8	72.3	161,100
28	72.1	71.6	138,500
30	70.3	70.8	120,300
32	68.5	70.0	105,200
34	66.7	69.1	92,600
36	64.8	68.1	81,900
38	62.9	67.0	72,600
40	61.0	65.9	64,600
45	56.1	62.6	48,400

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	243,400
20	80.4	84.0	229,700
22	78.9	83.5	205,900
24	77.4	83.1	185,700
26	75.9	82.5	164,200
28	74.4	81.9	141,500
30	72.9	81.3	123,100
32	71.3	80.6	108,000
34	69.8	79.8	95,400
36	68.2	79.0	84,600
38	66.6	78.1	75,300
40	65.0	77.1	67,200
45	60.8	74.4	51,000
50	56.5	71.1	38,700
55	51.9	67.3	29,000

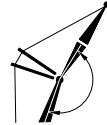
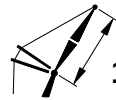
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	230,800
22	80.2	93.6	207,000
24	78.9	93.2	186,900
26	77.5	92.7	166,600
28	76.2	92.2	143,800
30	74.8	91.6	125,400
32	73.5	91.0	110,300
34	72.1	90.3	97,600
36	70.7	89.6	86,800
38	69.4	88.8	77,500
40	68.0	88.0	69,400
45	64.4	85.6	53,100
50	60.7	82.8	40,800
55	56.8	79.6	31,200
60	52.8	75.9	22,500

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ASME B30.5



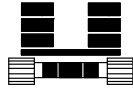
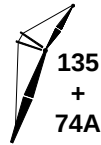
123,400 lb
+
45,100 lb



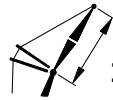
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	207,700
24	80.0	103.2	187,600
26	78.8	102.8	168,500
28	77.6	102.3	145,600
30	76.4	101.8	127,200
32	75.2	101.3	112,000
34	74.0	100.7	99,200
36	72.8	100.0	88,400
38	71.5	99.3	79,000
40	70.3	98.6	70,900
45	67.1	96.5	54,600
50	63.9	94.1	42,300
55	60.6	91.3	32,600
60	57.1	88.1	24,000
65	53.5	84.5	16,700

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	188,400
26	79.8	112.9	170,000
28	78.7	112.4	147,100
30	77.7	112.0	128,600
32	76.6	111.5	113,400
34	75.5	110.9	100,600
36	74.4	110.4	89,800
38	73.3	109.7	80,400
40	72.1	109.1	72,300
45	69.3	107.2	55,900
50	66.4	105.0	43,600
55	63.5	102.6	33,900
60	60.5	99.8	25,400
65	57.3	96.6	18,100
70	54.1	93.1	12,000

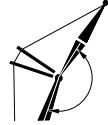
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	181,900
26	80.7	122.9	171,200
28	79.7	122.5	148,300
30	78.7	122.1	129,800
32	77.7	121.6	114,500
34	76.7	121.1	101,700
36	75.7	120.6	90,800
38	74.7	120.0	81,400
40	73.7	119.4	73,300
45	71.1	117.7	56,800
50	68.5	115.8	44,500
55	65.9	113.6	34,800
60	63.2	111.1	26,100
65	60.4	108.3	18,900
70	57.5	105.1	12,800
75	54.6	101.6	7,600



123,400 lb
+
45,100 lb



160.0 ft



168°

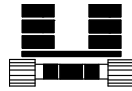
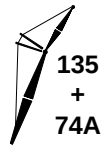
128.0 ft			
ft	o	ft	lb
26	81.4	132.9	163,100
28	80.5	132.5	149,200
30	79.6	132.1	130,700
32	78.7	131.7	115,400
34	77.8	131.3	102,500
36	76.8	130.8	91,600
38	75.9	130.3	82,200
40	75.0	129.7	74,100
45	72.6	128.2	57,600
50	70.3	126.4	45,200
55	67.8	124.4	35,400
60	65.4	122.1	26,800
65	62.9	119.6	19,600
70	60.3	116.7	13,500
75	57.7	113.6	8,300

137.8 ft			
ft	o	ft	lb
28	81.2	142.5	149,300
30	80.3	142.2	131,500
32	79.5	141.8	116,100
34	78.6	141.4	103,200
36	77.8	140.9	92,300
38	76.9	140.4	82,900
40	76.1	139.9	74,700
45	73.9	138.5	58,200
50	71.7	136.8	45,800
55	69.5	135.0	35,700
60	67.3	132.9	27,100
65	65.0	130.6	19,900
70	62.6	128.0	13,900
75	60.2	125.2	8,700
80	57.8	122.1	4,200

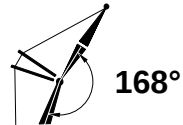
147.6 ft			
ft	o	ft	lb
30	81.0	152.2	132,600
32	80.2	151.8	117,200
34	79.4	151.4	104,400
36	78.6	151.0	93,400
38	77.8	150.5	84,000
40	77.0	150.1	75,800
45	75.0	148.7	59,300
50	73.0	147.2	46,900
55	70.9	145.5	36,900
60	68.9	143.6	28,300
65	66.8	141.5	21,100
70	64.6	139.1	15,100
75	62.4	136.5	10,000
80	60.2	133.7	5,500

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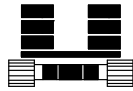
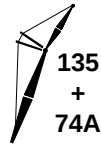


123,400 lb
+
45,100 lb

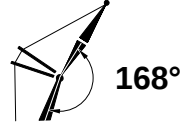
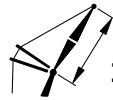


 157.5 ft			
ft	°	ft	lb
30	81.6	162.1	127,400
32	80.8	161.8	117,800
34	80.1	161.4	104,900
36	79.3	161.0	93,900
38	78.6	160.6	84,400
40	77.9	160.2	76,200
45	76.0	158.9	59,700
50	74.1	157.5	47,200
55	72.2	155.9	36,900
60	70.3	154.2	28,300
65	68.3	152.2	21,200
70	66.3	150.0	15,200
75	64.3	147.6	10,100
80	62.2	145.0	5,700

REFERENCE ONLY!



123,400 lb
+
45,100 lb



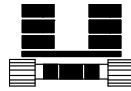
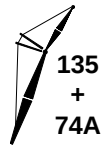
68.9 ft			
ft	o	ft	lb
17	81.6	74.5	266,700
18	80.7	74.3	254,500
19	79.9	74.1	239,400
20	79.0	73.9	225,700
22	77.3	73.4	201,800
24	75.6	72.9	181,700
26	73.8	72.3	157,300
28	72.1	71.6	134,900
30	70.3	70.8	116,800
32	68.5	70.0	101,800
34	66.7	69.1	89,300
36	64.8	68.1	78,700
38	62.9	67.0	69,500
40	61.0	65.9	61,600
45	56.1	62.6	45,500

78.7 ft			
ft	o	ft	lb
19	81.2	84.2	240,700
20	80.4	84.0	227,100
22	78.9	83.5	203,300
24	77.4	83.1	183,200
26	75.9	82.5	160,600
28	74.4	81.9	138,100
30	72.9	81.3	119,900
32	71.3	80.6	104,900
34	69.8	79.8	92,300
36	68.2	79.0	81,600
38	66.6	78.1	72,400
40	65.0	77.1	64,400
45	60.8	74.4	48,300
50	56.5	71.1	36,200
55	51.9	67.3	25,800

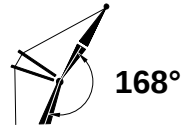
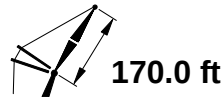
88.6 ft			
ft	o	ft	lb
20	81.5	94.0	228,300
22	80.2	93.6	204,500
24	78.9	93.2	184,500
26	77.5	92.7	163,200
28	76.2	92.2	140,600
30	74.8	91.6	122,300
32	73.5	91.0	107,300
34	72.1	90.3	94,700
36	70.7	89.6	84,000
38	69.4	88.8	74,800
40	68.0	88.0	66,700
45	64.4	85.6	50,600
50	60.7	82.8	38,400
55	56.8	79.6	28,300
60	52.8	75.9	19,500

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ASME B30.5



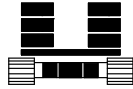
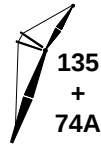
123,400 lb
+
45,100 lb



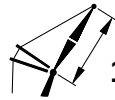
98.4 ft			
ft	o	ft	lb
22	81.2	103.6	205,300
24	80.0	103.2	185,300
26	78.8	102.8	165,200
28	77.6	102.3	142,500
30	76.4	101.8	124,200
32	75.2	101.3	109,200
34	74.0	100.7	96,500
36	72.8	100.0	85,700
38	71.5	99.3	76,500
40	70.3	98.6	68,400
45	67.1	96.5	52,200
50	63.9	94.1	40,000
55	60.6	91.3	29,900
60	57.1	88.1	21,200
65	53.5	84.5	14,000

108.3 ft			
ft	o	ft	lb
24	80.9	113.3	186,200
26	79.8	112.9	166,800
28	78.7	112.4	144,100
30	77.7	112.0	125,800
32	76.6	111.5	110,700
34	75.5	110.9	98,000
36	74.4	110.4	87,300
38	73.3	109.7	78,000
40	72.1	109.1	69,900
45	69.3	107.2	53,700
50	66.4	105.0	41,400
55	63.5	102.6	31,400
60	60.5	99.8	22,700
65	57.3	96.6	15,600
70	54.1	93.1	9,500

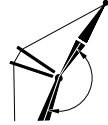
118.1 ft			
ft	o	ft	lb
24	81.7	123.2	180,200
26	80.7	122.9	168,200
28	79.7	122.5	145,400
30	78.7	122.1	127,000
32	77.7	121.6	111,900
34	76.7	121.1	99,200
36	75.7	120.6	88,400
38	74.7	120.0	79,100
40	73.7	119.4	71,000
45	71.1	117.7	54,700
50	68.5	115.8	42,400
55	65.9	113.6	32,200
60	63.2	111.1	23,600
65	60.4	108.3	16,400
70	57.5	105.1	10,400
75	54.6	101.6	5,300



123,400 lb
+
45,100 lb



170.0 ft



168°

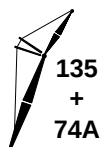
128.0 ft			
ft	o	ft	lb
26	81.4	132.9	161,200
28	80.5	132.5	146,500
30	79.6	132.1	128,000
32	78.7	131.7	112,900
34	77.8	131.3	100,100
36	76.8	130.8	89,300
38	75.9	130.3	80,000
40	75.0	129.7	71,900
45	72.6	128.2	55,600
50	70.3	126.4	43,200
55	67.8	124.4	32,900
60	65.4	122.1	24,300
65	62.9	119.6	17,200
70	60.3	116.7	11,200
75	57.7	113.6	6,100

137.8 ft			
ft	o	ft	lb
28	81.2	142.5	147,400
30	80.3	142.2	128,900
32	79.5	141.8	113,700
34	78.6	141.4	100,900
36	77.8	140.9	90,000
38	76.9	140.4	80,700
40	76.1	139.9	72,500
45	73.9	138.5	56,200
50	71.7	136.8	43,800
55	69.5	135.0	33,300
60	67.3	132.9	24,700
65	65.0	130.6	17,600
70	62.6	128.0	11,600
75	60.2	125.2	6,500

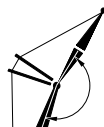
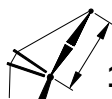
147.6 ft			
ft	o	ft	lb
30	81.0	152.2	130,100
32	80.2	151.8	114,900
34	79.4	151.4	102,100
36	78.6	151.0	91,200
38	77.8	150.5	81,900
40	77.0	150.1	73,700
45	75.0	148.7	57,400
50	73.0	147.2	45,000
55	70.9	145.5	34,500
60	68.9	143.6	26,000
65	66.8	141.5	18,900
70	64.6	139.1	13,000
75	62.4	136.5	7,900

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



 157.5 ft			
ft	°	ft	lb
30	81.6	162.1	125,900
32	80.8	161.8	115,400
34	80.1	161.4	102,600
36	79.3	161.0	91,700
38	78.6	160.6	82,400
40	77.9	160.2	74,200
45	76.0	158.9	57,800
50	74.1	157.5	45,000
55	72.2	155.9	34,600
60	70.3	154.2	26,100
65	68.3	152.2	19,100
70	66.3	150.0	13,100
75	64.3	147.6	8,100

REFERENCE ONLY!