


# Liftcrane Boom Capacities With Luffing Jib Attached

## MLC150-1 SERIES 2

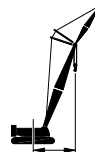
**Boom No. B20:350**  
**Luffing Jib No. 135A**  
**110,500 lb Crane Counterweight**  
**35,000 lb Carbody Counterweight**  
**360 Degree Rating**

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

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves is considered part of load. Weight of luffing jib and 2,900 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, level, and uniformly supporting surface. Supporting surface and bearing turntable are to be level within a tolerance of 1/2 in. in 10 ft. During operation, luffing jib must be maintained at proper boom-to-luffing jib angle shown in table. Refer to Boom Rigging **No. 80117859**, Luffing Jib Rigging **No. 80117862**, Wire Rope Specifications chart **No. 9866-A**, Counterweight Arrangements chart **No. 9828-A**, Luffing Jib Raising Procedure chart **No. 9851-A**, and Wind Conditions chart **No. 9853-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 the Operator 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 Specifications chart **No. 9852-A**.



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



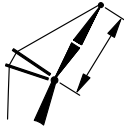

**BOOM ANGLE:** Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



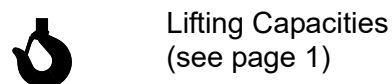
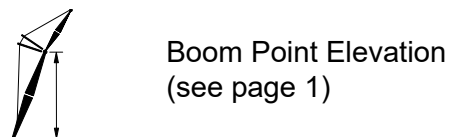
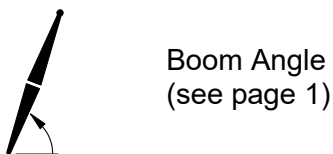
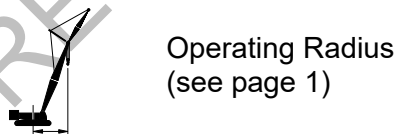
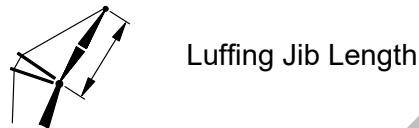
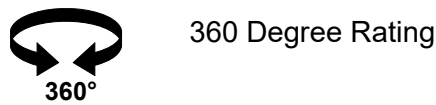
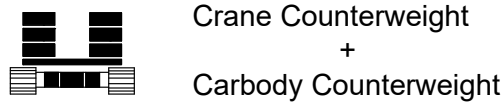
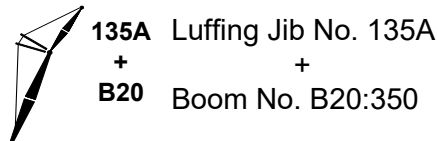
**BOOM POINT ELEVATION:** Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

**MACHINE EQUIPMENT:** Machine equipped with 26 ft 2 in. crawlers, 48 in. treads, 17 ft 5 in. gantry, 10 part boom hoist reeving, boom straps, 8 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants and backstays, 110,500 lb crane counterweight, and 35,000 lb carbody counterweight.

Consult chart **No. 9849-A** for luffing jib capacities.

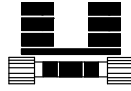
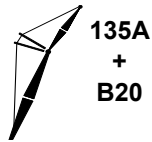
Luffing Jib Position During Operation	
 Luffing Jib Length Feet	 Boom-to-Luffing Jib Angle Degrees
70	140
80 - 90	150
100 - 120	160
130 - 170	168

## Explanation of Symbols

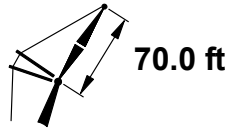


# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



68.9 ft			
ft	°	ft	lb
20	79.7	74.1	177,600
22	78.0	73.6	177,600
24	76.2	73.0	177,600
26	74.5	72.4	166,900
28	72.7	71.7	145,900
30	71.0	70.9	129,000

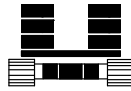
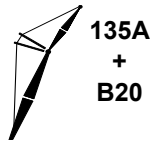
78.7 ft			
ft	°	ft	lb
21	80.3	84.0	177,600
22	79.5	83.7	177,600
24	78.0	83.2	177,600
26	76.5	82.7	167,600
28	75.0	82.1	146,600
30	73.5	81.4	129,600
32	71.9	80.7	115,600
33	71.1	80.3	109,500

88.6 ft			
ft	°	ft	lb
23	80.0	93.6	177,600
24	79.4	93.4	177,600
26	78.0	92.9	167,800
28	76.7	92.3	147,200
30	75.4	91.8	130,100
32	74.0	91.1	116,100
34	72.6	90.4	104,300
36	71.3	89.7	94,300
37	70.6	89.3	89,900

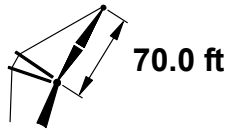
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# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



98.4 ft			
ft	o	ft	lb
24	80.5	103.4	177,600
26	79.3	103.0	167,600
28	78.1	102.5	147,600
30	76.9	102.0	130,500
32	75.7	101.4	116,400
34	74.4	100.8	104,600
36	73.2	100.1	94,600
38	72.0	99.4	85,900
40	70.7	98.7	78,400

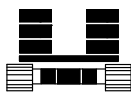
108.3 ft			
ft	o	ft	lb
26	80.3	113.1	167,600
28	79.2	112.6	147,800
30	78.1	112.2	130,700
32	77.0	111.6	116,600
34	75.9	111.1	104,800
36	74.8	110.5	94,800
38	73.7	109.9	86,100
40	72.6	109.2	78,600
42	71.4	108.4	72,000
43	70.9	108.1	68,900

118.1 ft			
ft	o	ft	lb
28	80.1	122.7	148,100
30	79.1	122.3	130,900
32	78.1	121.8	116,800
34	77.1	121.3	105,000
36	76.1	120.8	94,900
38	75.1	120.2	86,200
40	74.1	119.5	78,700
42	73.1	118.9	72,000
44	72.0	118.2	66,100
46	71.0	117.5	60,900

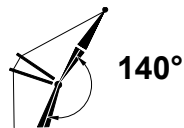
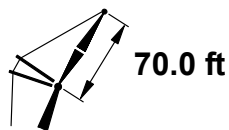
REFERENCED

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



**128.0 ft**

ft	o	ft	lb
29	80.4	132.5	139,200
30	80.0	132.3	131,100
32	79.0	131.9	116,900
34	78.1	131.4	105,100
36	77.2	130.9	95,000
38	76.3	130.4	86,300
40	75.3	129.8	78,700
42	74.4	129.2	72,100
44	73.5	128.6	66,200
46	72.5	127.9	60,900
48	71.6	127.2	56,200
50	70.6	126.5	52,000

**137.8 ft**

ft	o	ft	lb
31	80.3	142.2	123,800
32	79.8	142.0	117,000
34	79.0	141.5	105,100
36	78.1	141.1	95,000
38	77.3	140.6	86,300
40	76.4	140.1	78,700
42	75.6	139.5	72,000
44	74.7	138.9	66,100
46	73.8	138.3	60,900
48	72.9	137.6	56,200
50	72.1	136.9	51,900
53	70.7	135.8	46,200

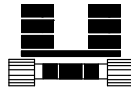
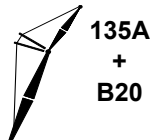
**147.6 ft**

ft	o	ft	lb
33	80.1	151.8	110,800
34	79.7	151.6	105,100
36	78.9	151.2	94,900
38	78.1	150.7	86,200
40	77.3	150.2	78,600
42	76.5	149.7	72,000
44	75.7	149.2	66,100
46	74.9	148.6	60,800
48	74.1	148.0	56,100
50	73.3	147.3	51,800
55	71.2	145.6	42,800
56	70.8	145.2	41,200

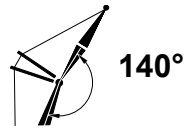
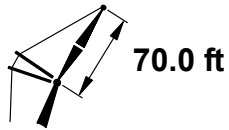
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# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb

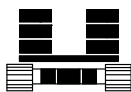


ft	°	ft	lb
34	80.4	161.6	105,100
36	79.6	161.2	94,900
38	78.9	160.8	86,200
40	78.1	160.4	78,600
42	77.4	159.9	71,900
44	76.6	159.4	66,000
46	75.9	158.8	60,700
48	75.1	158.3	56,000
50	74.4	157.7	51,700
55	72.5	156.0	42,600
60	70.5	154.2	35,400

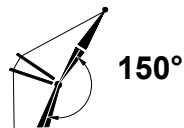
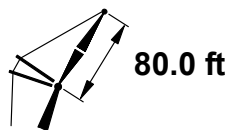
REFERENCE ONLY!

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



68.9 ft

	ft	°	ft	lb
20	79.7	74.1	177,600	
22	78.0	73.6	177,600	
24	76.2	73.0	177,600	
26	74.5	72.4	166,000	
28	72.7	71.7	144,900	
30	71.0	70.9	127,800	
32	69.2	70.1	113,800	
34	67.3	69.1	102,000	
36	65.5	68.1	91,900	
38	63.6	67.0	83,300	
40	61.6	65.9	75,800	
41	60.7	65.2	72,300	

78.7 ft

	ft	°	ft	lb
21	80.3	84.0	177,600	
22	79.5	83.7	177,600	
24	78.0	83.2	177,600	
26	76.5	82.7	167,000	
28	75.0	82.1	145,800	
30	73.5	81.4	128,700	
32	71.9	80.7	114,600	
34	70.3	79.9	102,800	
36	68.8	79.0	92,700	
38	67.2	78.1	84,000	
40	65.5	77.1	76,500	
42	63.9	76.1	69,800	
44	62.2	74.9	64,000	
46	60.5	73.7	58,700	

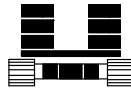
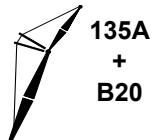
88.6 ft

	ft	°	ft	lb
23	80.0	93.6	177,600	
24	79.4	93.4	177,600	
26	78.0	92.9	167,200	
28	76.7	92.3	146,500	
30	75.4	91.8	129,400	
32	74.0	91.1	115,200	
34	72.6	90.4	103,400	
36	71.3	89.7	93,300	
38	69.9	88.9	84,600	
40	68.5	88.0	77,000	
42	67.0	87.1	70,400	
44	65.6	86.1	64,500	
46	64.1	85.1	59,300	
48	62.7	84.0	54,600	
50	61.2	82.8	50,300	

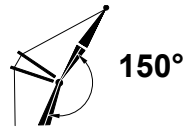
REFER TO SPECIFICATIONS

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



<p>98.4 ft</p>			
ft	o	ft	lb
24	80.5	103.4	177,600
26	79.3	103.0	167,100
28	78.1	102.5	147,100
30	76.9	102.0	129,900
32	75.7	101.4	115,700
34	74.4	100.8	103,800
36	73.2	100.1	93,700
38	72.0	99.4	85,000
40	70.7	98.7	77,400
42	69.5	97.9	70,700
44	68.2	97.0	64,800
46	66.9	96.1	59,600
48	65.6	95.1	54,900
50	64.3	94.1	50,600
55	61.0	91.3	41,600

<p>108.3 ft</p>			
ft	o	ft	lb
26	80.3	113.1	167,200
28	79.2	112.6	147,400
30	78.1	112.2	130,200
32	77.0	111.6	116,000
34	75.9	111.1	104,100
36	74.8	110.5	94,000
38	73.7	109.9	85,300
40	72.6	109.2	77,700
42	71.4	108.4	71,000
44	70.3	107.7	65,100
46	69.2	106.9	59,900
48	68.0	106.0	55,100
50	66.8	105.1	50,900
55	63.9	102.6	41,900
60	60.8	99.7	34,600

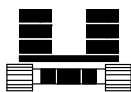
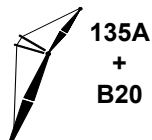
<p>118.1 ft</p>			
ft	o	ft	lb
28	80.1	122.7	147,800
30	79.1	122.3	130,500
32	78.1	121.8	116,300
34	77.1	121.3	104,400
36	76.1	120.8	94,200
38	75.1	120.2	85,500
40	74.1	119.5	77,900
42	73.1	118.9	71,200
44	72.0	118.2	65,300
46	71.0	117.5	60,000
48	70.0	116.7	55,300
50	68.9	115.8	51,000
55	66.2	113.6	41,900
60	63.5	111.1	34,700
65	60.7	108.2	28,700

REFER TO SPECIFICATIONS

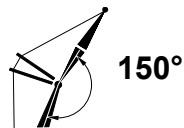
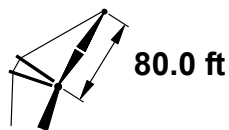


# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



128.0 ft

ft	o	ft	lb
29	80.4	132.5	138,900
30	80.0	132.3	130,700
32	79.0	131.9	116,500
34	78.1	131.4	104,500
36	77.2	130.9	94,400
38	76.3	130.4	85,600
40	75.3	129.8	78,000
42	74.4	129.2	71,300
44	73.5	128.6	65,400
46	72.5	127.9	60,100
48	71.6	127.2	55,300
50	70.6	126.5	51,100
55	68.2	124.4	42,000
60	65.7	122.1	34,700
65	63.2	119.5	28,800
70	60.6	116.7	23,800

137.8 ft

ft	o	ft	lb
31	80.3	142.2	123,400
32	79.8	142.0	116,600
34	79.0	141.5	104,600
36	78.1	141.1	94,500
38	77.3	140.6	85,700
40	76.4	140.1	78,000
42	75.6	139.5	71,300
44	74.7	138.9	65,400
46	73.8	138.3	60,100
48	72.9	137.6	55,300
50	72.1	136.9	51,000
55	69.8	135.1	42,000
60	67.6	133.0	34,700
65	65.3	130.6	28,700
70	62.9	128.0	23,700
75	60.6	125.2	19,200

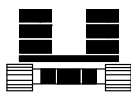
147.6 ft

ft	o	ft	lb
33	80.1	151.8	110,400
34	79.7	151.6	104,700
36	78.9	151.2	94,500
38	78.1	150.7	85,700
40	77.3	150.2	78,000
42	76.5	149.7	71,300
44	75.7	149.2	65,400
46	74.9	148.6	60,100
48	74.1	148.0	55,300
50	73.3	147.3	51,000
55	71.2	145.6	41,900
60	69.2	143.7	34,600
65	67.1	141.5	28,600
70	64.9	139.1	23,600
75	62.7	136.5	18,900
79	60.9	134.2	15,600

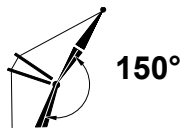
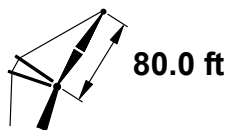
REFER TO

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb

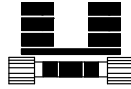
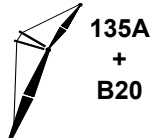


ft	°	ft	lb
34	80.4	161.6	104,700
36	79.6	161.2	94,500
38	78.9	160.8	85,700
40	78.1	160.4	78,000
42	77.4	159.9	71,300
44	76.6	159.4	65,300
46	75.9	158.8	60,000
48	75.1	158.3	55,200
50	74.4	157.7	50,900
55	72.5	156.0	41,800
60	70.5	154.2	34,500
65	68.6	152.2	28,500
70	66.6	150.0	23,400
75	64.6	147.6	18,500
80	62.5	145.0	14,400
84	60.8	142.7	11,400

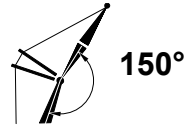
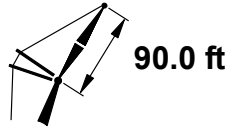
REFERENCE ONLY!

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



68.9 ft

	ft	°	ft	lb
20	79.7	74.1	177,600	
22	78.0	73.6	177,600	
24	76.2	73.0	177,600	
26	74.5	72.4	162,100	
28	72.7	71.7	141,300	
30	71.0	70.9	124,500	
32	69.2	70.1	110,600	
34	67.3	69.1	98,900	
36	65.5	68.1	89,000	
38	63.6	67.0	80,500	
40	61.6	65.9	73,100	
41	60.7	65.2	69,700	

78.7 ft

	ft	°	ft	lb
21	80.3	84.0	177,600	
22	79.5	83.7	177,600	
24	78.0	83.2	177,600	
26	76.5	82.7	163,200	
28	75.0	82.1	142,300	
30	73.5	81.4	125,500	
32	71.9	80.7	111,500	
34	70.3	79.9	99,900	
36	68.8	79.0	89,900	
38	67.2	78.1	81,400	
40	65.5	77.1	73,900	
42	63.9	76.1	67,400	
44	62.2	74.9	61,600	
46	60.5	73.7	56,400	

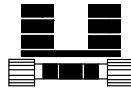
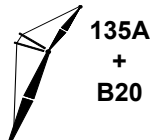
88.6 ft

	ft	°	ft	lb
23	80.0	93.6	177,600	
24	79.4	93.4	177,600	
26	78.0	92.9	164,100	
28	76.7	92.3	143,100	
30	75.4	91.8	126,200	
32	74.0	91.1	112,300	
34	72.6	90.4	100,600	
36	71.3	89.7	90,600	
38	69.9	88.9	82,000	
40	68.5	88.0	74,600	
42	67.0	87.1	68,000	
44	65.6	86.1	62,200	
46	64.1	85.1	57,000	
48	62.7	84.0	52,400	
50	61.2	82.8	48,200	

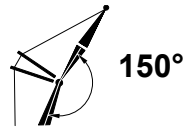
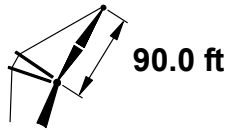
REFER TO SPECIFICATIONS

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



98.4 ft			
ft	o	ft	lb
24	80.5	103.4	177,600
26	79.3	103.0	164,800
28	78.1	102.5	143,800
30	76.9	102.0	126,800
32	75.7	101.4	112,800
34	74.4	100.8	101,100
36	73.2	100.1	91,100
38	72.0	99.4	82,500
40	70.7	98.7	75,000
42	69.5	97.9	68,400
44	68.2	97.0	62,600
46	66.9	96.1	57,400
48	65.6	95.1	52,800
50	64.3	94.1	48,600
55	61.0	91.3	39,700

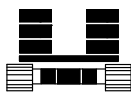
108.3 ft			
ft	o	ft	lb
26	80.3	113.1	164,900
28	79.2	112.6	144,200
30	78.1	112.2	127,200
32	77.0	111.6	113,200
34	75.9	111.1	101,400
36	74.8	110.5	91,400
38	73.7	109.9	82,800
40	72.6	109.2	75,300
42	71.4	108.4	68,800
44	70.3	107.7	62,900
46	69.2	106.9	57,700
48	68.0	106.0	53,100
50	66.8	105.1	48,900
55	63.9	102.6	40,000
60	60.8	99.7	32,800

118.1 ft			
ft	o	ft	lb
28	80.1	122.7	144,600
30	79.1	122.3	127,600
32	78.1	121.8	113,500
34	77.1	121.3	101,700
36	76.1	120.8	91,700
38	75.1	120.2	83,100
40	74.1	119.5	75,600
42	73.1	118.9	69,000
44	72.0	118.2	63,100
46	71.0	117.5	57,900
48	70.0	116.7	53,200
50	68.9	115.8	49,000
55	66.2	113.6	40,100
60	63.5	111.1	32,900
65	60.7	108.2	27,100

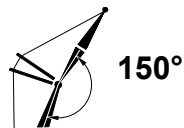
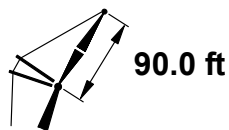
REFER TO

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



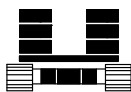
128.0 ft			
ft	o	ft	lb
29	80.4	132.5	135,900
30	80.0	132.3	127,800
32	79.0	131.9	113,700
34	78.1	131.4	101,900
36	77.2	130.9	91,900
38	76.3	130.4	83,200
40	75.3	129.8	75,700
42	74.4	129.2	69,100
44	73.5	128.6	63,300
46	72.5	127.9	58,000
48	71.6	127.2	53,400
50	70.6	126.5	49,200
55	68.2	124.4	40,200
60	65.7	122.1	33,000
65	63.2	119.5	27,100
70	60.6	116.7	22,200

137.8 ft			
ft	o	ft	lb
31	80.3	142.2	120,700
32	79.8	142.0	113,900
34	79.0	141.5	102,100
36	78.1	141.1	92,000
38	77.3	140.6	83,400
40	76.4	140.1	75,800
42	75.6	139.5	69,200
44	74.7	138.9	63,300
46	73.8	138.3	58,100
48	72.9	137.6	53,400
50	72.1	136.9	49,200
55	69.8	135.1	40,200
60	67.6	133.0	33,000
65	65.3	130.6	27,100
70	62.9	128.0	22,000
75	60.6	125.2	17,300

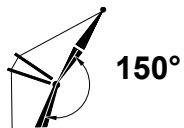
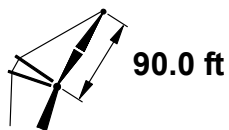
147.6 ft			
ft	o	ft	lb
33	80.1	151.8	107,800
34	79.7	151.6	102,100
36	78.9	151.2	92,100
38	78.1	150.7	83,400
40	77.3	150.2	75,800
42	76.5	149.7	69,200
44	75.7	149.2	63,300
46	74.9	148.6	58,100
48	74.1	148.0	53,400
50	73.3	147.3	49,200
55	71.2	145.6	40,200
60	69.2	143.7	33,000
65	67.1	141.5	27,100
70	64.9	139.1	21,800
75	62.7	136.5	17,100
79	60.9	134.2	13,700

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb

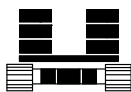


 157.5 ft			
ft	°	ft	lb
34	80.4	161.6	102,200
36	79.6	161.2	92,100
38	78.9	160.8	83,400
40	78.1	160.4	75,900
42	77.4	159.9	69,200
44	76.6	159.4	63,300
46	75.9	158.8	58,100
48	75.1	158.3	53,400
50	74.4	157.7	49,100
55	72.5	156.0	40,100
60	70.5	154.2	32,900
65	68.6	152.2	27,000
70	66.6	150.0	21,400
75	64.6	147.6	16,700
80	62.5	145.0	12,600
84	60.8	142.7	9,700

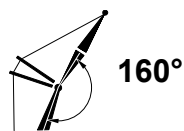
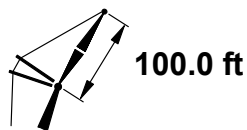
REFERENCE ONLY!

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



**68.9 ft**

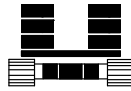
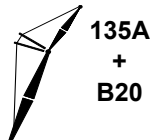
	ft	o	ft	lb
20	79.7	74.1	177,600	
22	78.0	73.6	177,600	
24	76.2	73.0	177,600	
26	74.5	72.4	163,300	
28	72.7	71.7	142,100	
30	71.0	70.9	124,900	
32	69.2	70.1	110,700	
34	67.3	69.1	98,900	
36	65.5	68.1	88,700	
38	63.6	67.0	80,000	
40	61.6	65.9	72,500	
42	59.7	64.6	65,800	
44	57.7	63.2	59,900	
46	55.6	61.7	54,600	
48	53.5	60.1	49,900	
50	51.3	58.4	45,700	
51	50.2	57.5	43,700	

**78.7 ft**

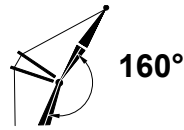
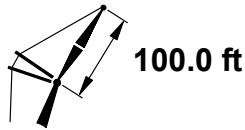
	ft	o	ft	lb
21	80.3	84.0	177,600	
22	79.5	83.7	177,600	
24	78.0	83.2	177,600	
26	76.5	82.7	164,700	
28	75.0	82.1	143,400	
30	73.5	81.4	126,200	
32	71.9	80.7	112,000	
34	70.3	79.9	100,100	
36	68.8	79.0	89,900	
38	67.2	78.1	81,200	
40	65.5	77.1	73,600	
42	63.9	76.1	66,900	
44	62.2	74.9	61,000	
46	60.5	73.7	55,700	
48	58.8	72.4	51,000	
50	57.0	71.0	46,700	
55	52.4	67.1	37,700	
57	50.5	65.3	34,600	

**88.6 ft**

	ft	o	ft	lb
23	80.0	93.6	177,600	
24	79.4	93.4	177,600	
26	78.0	92.9	165,600	
28	76.7	92.3	144,400	
30	75.4	91.8	127,200	
32	74.0	91.1	112,900	
34	72.6	90.4	101,000	
36	71.3	89.7	90,800	
38	69.9	88.9	82,100	
40	68.5	88.0	74,500	
42	67.0	87.1	67,800	
44	65.6	86.1	61,900	
46	64.1	85.1	56,600	
48	62.7	84.0	51,800	
50	61.2	82.8	47,600	
55	57.3	79.5	38,500	
60	53.2	75.7	31,200	
63	50.7	73.2	27,500	



110,500 lb  
+  
35,000 lb



**98.4 ft**

	ft	o	ft	lb
24	80.5	103.4		177,600
26	79.3	103.0		165,700
28	78.1	102.5		145,200
30	76.9	102.0		127,900
32	75.7	101.4		113,600
34	74.4	100.8		101,700
36	73.2	100.1		91,500
38	72.0	99.4		82,700
40	70.7	98.7		75,100
42	69.5	97.9		68,400
44	68.2	97.0		62,400
46	66.9	96.1		57,100
48	65.6	95.1		52,400
50	64.3	94.1		48,100
55	61.0	91.3		39,000
60	57.5	88.0		31,700
65	53.9	84.3		25,700
70	50.1	80.1		20,700

**108.3 ft**

	ft	o	ft	lb
26	80.3	113.1		165,900
28	79.2	112.6		145,800
30	78.1	112.2		128,400
32	77.0	111.6		114,200
34	75.9	111.1		102,200
36	74.8	110.5		92,000
38	73.7	109.9		83,200
40	72.6	109.2		75,600
42	71.4	108.4		68,800
44	70.3	107.7		62,900
46	69.2	106.9		57,600
48	68.0	106.0		52,900
50	66.8	105.1		48,600
55	63.9	102.6		39,500
60	60.8	99.7		32,200
65	57.7	96.5		26,200
70	54.4	92.9		21,200
75	51.0	88.8		16,400
76	50.3	87.9		15,500

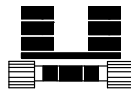
**118.1 ft**

	ft	o	ft	lb
28	80.1	122.7		146,300
30	79.1	122.3		128,900
32	78.1	121.8		114,600
34	77.1	121.3		102,600
36	76.1	120.8		92,400
38	75.1	120.2		83,600
40	74.1	119.5		75,900
42	73.1	118.9		69,200
44	72.0	118.2		63,200
46	71.0	117.5		57,900
48	70.0	116.7		53,100
50	68.9	115.8		48,800
55	66.2	113.6		39,700
60	63.5	111.1		32,400
65	60.7	108.2		26,400
70	57.9	105.0		21,300
75	54.9	101.5		16,400
80	51.8	97.5		12,200
82	50.5	95.8		10,600

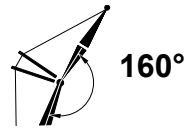
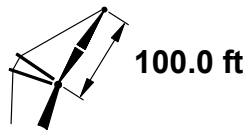


# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



128.0 ft

ft	o	ft	lb
29	80.4	132.5	137,500
30	80.0	132.3	129,300
32	79.0	131.9	114,900
34	78.1	131.4	102,900
36	77.2	130.9	92,700
38	76.3	130.4	83,800
40	75.3	129.8	76,200
42	74.4	129.2	69,400
44	73.5	128.6	63,400
46	72.5	127.9	58,100
48	71.6	127.2	53,400
50	70.6	126.5	49,100
55	68.2	124.4	39,900
60	65.7	122.1	32,600
65	63.2	119.5	26,600
70	60.6	116.7	21,400
75	58.0	113.5	16,500
80	55.3	110.0	12,200
85	52.4	106.1	8,500
89	50.1	102.7	5,900

137.8 ft

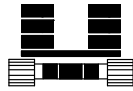
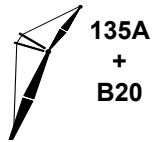
ft	o	ft	lb
31	80.3	142.2	122,100
32	79.8	142.0	115,200
34	79.0	141.5	103,100
36	78.1	141.1	92,900
38	77.3	140.6	84,000
40	76.4	140.1	76,300
42	75.6	139.5	69,600
44	74.7	138.9	63,600
46	73.8	138.3	58,300
48	72.9	137.6	53,500
50	72.1	136.9	49,200
55	69.8	135.1	40,000
60	67.6	133.0	32,700
65	65.3	130.6	26,600
70	62.9	128.0	21,200
75	60.6	125.2	16,300
80	58.1	122.0	12,100
85	55.6	118.5	8,400
90	53.0	114.7	5,100

147.6 ft

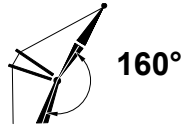
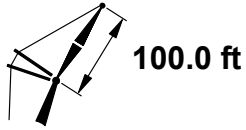
ft	o	ft	lb
33	80.1	151.8	109,000
34	79.7	151.6	103,200
36	78.9	151.2	93,000
38	78.1	150.7	84,100
40	77.3	150.2	76,400
42	76.5	149.7	69,700
44	75.7	149.2	63,700
46	74.9	148.6	58,300
48	74.1	148.0	53,600
50	73.3	147.3	49,200
55	71.2	145.6	40,100
60	69.2	143.7	32,700
65	67.1	141.5	26,700
70	64.9	139.1	21,100
75	62.7	136.5	16,200
80	60.5	133.6	12,000
85	58.2	130.5	8,300
90	55.8	127.1	5,100

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb

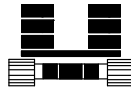
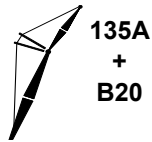


 157.5 ft			
ft	°	ft	lb
34	80.4	161.6	103,400
36	79.6	161.2	93,100
38	78.9	160.8	84,200
40	78.1	160.4	76,500
42	77.4	159.9	69,700
44	76.6	159.4	63,700
46	75.9	158.8	58,400
48	75.1	158.3	53,600
50	74.4	157.7	49,200
55	72.5	156.0	40,100
60	70.5	154.2	32,700
65	68.6	152.2	26,500
70	66.6	150.0	20,800
75	64.6	147.6	15,900
80	62.5	145.0	11,700
85	60.4	142.1	8,100
90	58.3	139.0	4,800

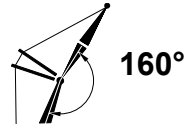
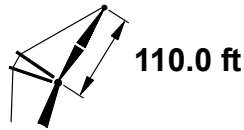
REFERENCE ONLY!

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



**68.9 ft**

20	79.7	74.1	177,600	
22	78.0	73.6	177,600	
24	76.2	73.0	177,600	
26	74.5	72.4	160,400	
28	72.7	71.7	139,400	
30	71.0	70.9	122,400	
32	69.2	70.1	108,400	
34	67.3	69.1	96,600	
36	65.5	68.1	86,600	
38	63.6	67.0	78,000	
40	61.6	65.9	70,500	
42	59.7	64.6	63,900	
44	57.7	63.2	58,000	
46	55.6	61.7	52,800	
48	53.5	60.1	48,200	
50	51.3	58.4	43,900	
51	50.2	57.5	42,000	

**78.7 ft**

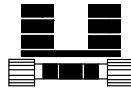
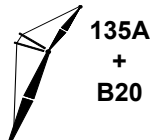
21	80.3	84.0	177,600	
22	79.5	83.7	177,600	
24	78.0	83.2	177,600	
26	76.5	82.7	162,000	
28	75.0	82.1	140,900	
30	73.5	81.4	123,800	
32	71.9	80.7	109,700	
34	70.3	79.9	97,900	
36	68.8	79.0	87,900	
38	67.2	78.1	79,200	
40	65.5	77.1	71,700	
42	63.9	76.1	65,100	
44	62.2	74.9	59,200	
46	60.5	73.7	54,000	
48	58.8	72.4	49,300	
50	57.0	71.0	45,100	
55	52.4	67.1	36,200	
57	50.5	65.3	33,100	

**88.6 ft**

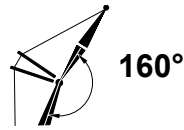
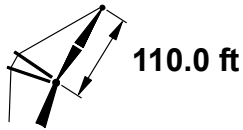
23	80.0	93.6	177,600	
24	79.4	93.4	177,600	
26	78.0	92.9	163,100	
28	76.7	92.3	142,000	
30	75.4	91.8	124,900	
32	74.0	91.1	110,800	
34	72.6	90.4	99,000	
36	71.3	89.7	88,900	
38	69.9	88.9	80,200	
40	68.5	88.0	72,700	
42	67.0	87.1	66,100	
44	65.6	86.1	60,200	
46	64.1	85.1	55,000	
48	62.7	84.0	50,300	
50	61.2	82.8	46,000	
55	57.3	79.5	37,100	
60	53.2	75.7	29,900	
63	50.7	73.2	26,200	

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



**98.4 ft**

	ft	o	ft	lb
24	80.5	103.4	177,600	
26	79.3	103.0	164,100	
28	78.1	102.5	142,900	
30	76.9	102.0	125,700	
32	75.7	101.4	111,600	
34	74.4	100.8	99,700	
36	73.2	100.1	89,600	
38	72.0	99.4	80,900	
40	70.7	98.7	73,400	
42	69.5	97.9	66,700	
44	68.2	97.0	60,800	
46	66.9	96.1	55,600	
48	65.6	95.1	50,900	
50	64.3	94.1	46,600	
55	61.0	91.3	37,600	
60	57.5	88.0	30,400	
65	53.9	84.3	24,500	
70	50.1	80.1	19,400	

**108.3 ft**

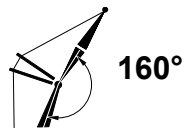
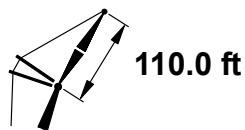
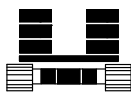
	ft	o	ft	lb
26	80.3	113.1	164,400	
28	79.2	112.6	143,500	
30	78.1	112.2	126,300	
32	77.0	111.6	112,200	
34	75.9	111.1	100,300	
36	74.8	110.5	90,200	
38	73.7	109.9	81,500	
40	72.6	109.2	73,900	
42	71.4	108.4	67,300	
44	70.3	107.7	61,400	
46	69.2	106.9	56,100	
48	68.0	106.0	51,400	
50	66.8	105.1	47,200	
55	63.9	102.6	38,200	
60	60.8	99.7	30,900	
65	57.7	96.5	25,000	
70	54.4	92.9	19,800	
75	51.0	88.8	15,000	
76	50.3	87.9	14,100	

**118.1 ft**

	ft	o	ft	lb
28	80.1	122.7	144,100	
30	79.1	122.3	126,800	
32	78.1	121.8	112,700	
34	77.1	121.3	100,800	
36	76.1	120.8	90,600	
38	75.1	120.2	81,900	
40	74.1	119.5	74,300	
42	73.1	118.9	67,600	
44	72.0	118.2	61,700	
46	71.0	117.5	56,500	
48	70.0	116.7	51,700	
50	68.9	115.8	47,500	
55	66.2	113.6	38,500	
60	63.5	111.1	31,200	
65	60.7	108.2	25,300	
70	57.9	105.0	19,900	
75	54.9	101.5	15,100	
80	51.8	97.5	10,900	
82	50.5	95.8	9,300	

# MLC150-1 S-2

ASME B30.5



**128.0 ft**

ft	o	ft	lb
29	80.4	132.5	135,400
30	80.0	132.3	127,200
32	79.0	131.9	113,000
34	78.1	131.4	101,100
36	77.2	130.9	91,000
38	76.3	130.4	82,200
40	75.3	129.8	74,600
42	74.4	129.2	67,900
44	73.5	128.6	62,000
46	72.5	127.9	56,700
48	71.6	127.2	52,000
50	70.6	126.5	47,700
55	68.2	124.4	38,700
60	65.7	122.1	31,500
65	63.2	119.5	25,500
70	60.6	116.7	20,000
75	58.0	113.5	15,200
80	55.3	110.0	11,000
85	52.4	106.1	7,300
89	50.1	102.7	4,700

**137.8 ft**

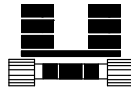
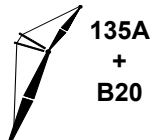
ft	o	ft	lb
31	80.3	142.2	120,100
32	79.8	142.0	113,300
34	79.0	141.5	101,400
36	78.1	141.1	91,200
38	77.3	140.6	82,400
40	76.4	140.1	74,800
42	75.6	139.5	68,100
44	74.7	138.9	62,200
46	73.8	138.3	56,900
48	72.9	137.6	52,200
50	72.1	136.9	47,900
55	69.8	135.1	38,800
60	67.6	133.0	31,500
65	65.3	130.6	25,500
70	62.9	128.0	19,900
75	60.6	125.2	15,000
80	58.1	122.0	10,900
85	55.6	118.5	7,200
90	53.0	114.7	4,000

**147.6 ft**

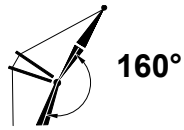
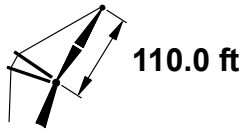
ft	o	ft	lb
33	80.1	151.8	107,300
34	79.7	151.6	101,500
36	78.9	151.2	91,300
38	78.1	150.7	82,600
40	77.3	150.2	74,900
42	76.5	149.7	68,200
44	75.7	149.2	62,300
46	74.9	148.6	57,000
48	74.1	148.0	52,300
50	73.3	147.3	48,000
55	71.2	145.6	38,900
60	69.2	143.7	31,600
65	67.1	141.5	25,400
70	64.9	139.1	19,800
75	62.7	136.5	15,000
80	60.5	133.6	10,800
85	58.2	130.5	7,200
90	55.8	127.1	4,000

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb

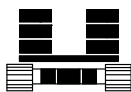


ft	°	ft	lb
34	80.4	161.6	101,700
36	79.6	161.2	91,500
38	78.9	160.8	82,700
40	78.1	160.4	75,100
42	77.4	159.9	68,300
44	76.6	159.4	62,400
46	75.9	158.8	57,100
48	75.1	158.3	52,300
50	74.4	157.7	48,000
55	72.5	156.0	38,900
60	70.5	154.2	31,600
65	68.6	152.2	25,100
70	66.6	150.0	19,500
75	64.6	147.6	14,700
80	62.5	145.0	10,600
85	60.4	142.1	6,900
90	58.3	139.0	3,700

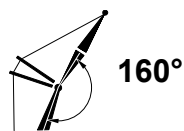
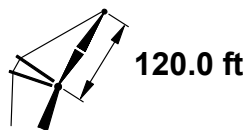
REFERENCE ONLY!

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



**68.9 ft**

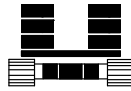
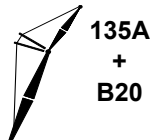
	ft	°	ft	lb
20	79.7	74.1	177,600	
22	78.0	73.6	177,600	
24	76.2	73.0	176,000	
26	74.5	72.4	156,300	
28	72.7	71.7	135,500	
30	71.0	70.9	118,700	
32	69.2	70.1	104,800	
34	67.3	69.1	93,100	
36	65.5	68.1	83,200	
38	63.6	67.0	74,700	
40	61.6	65.9	67,300	
42	59.7	64.6	60,800	
44	57.7	63.2	55,000	
46	55.6	61.7	49,900	
48	53.5	60.1	45,300	
50	51.3	58.4	41,100	
51	50.2	57.5	39,200	

**78.7 ft**

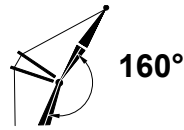
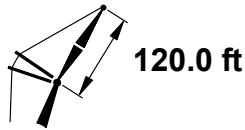
	ft	°	ft	lb
21	80.3	84.0	177,600	
22	79.5	83.7	177,600	
24	78.0	83.2	176,500	
26	76.5	82.7	158,000	
28	75.0	82.1	137,100	
30	73.5	81.4	120,200	
32	71.9	80.7	106,300	
34	70.3	79.9	94,600	
36	68.8	79.0	84,700	
38	67.2	78.1	76,200	
40	65.5	77.1	68,700	
42	63.9	76.1	62,200	
44	62.2	74.9	56,400	
46	60.5	73.7	51,200	
48	58.8	72.4	46,600	
50	57.0	71.0	42,400	
55	52.4	67.1	33,600	
57	50.5	65.3	30,500	

**88.6 ft**

	ft	°	ft	lb
23	80.0	93.6	177,600	
24	79.4	93.4	177,000	
26	78.0	92.9	159,300	
28	76.7	92.3	138,400	
30	75.4	91.8	121,500	
32	74.0	91.1	107,500	
34	72.6	90.4	95,800	
36	71.3	89.7	85,900	
38	69.9	88.9	77,300	
40	68.5	88.0	69,800	
42	67.0	87.1	63,300	
44	65.6	86.1	57,500	
46	64.1	85.1	52,300	
48	62.7	84.0	47,700	
50	61.2	82.8	43,500	
55	57.3	79.5	34,600	
60	53.2	75.7	27,500	
63	50.7	73.2	23,800	



110,500 lb  
+  
35,000 lb



**98.4 ft**

	ft	°	ft	lb
24	80.5	103.4	177,100	
26	79.3	103.0	160,400	
28	78.1	102.5	139,400	
30	76.9	102.0	122,400	
32	75.7	101.4	108,400	
34	74.4	100.8	96,700	
36	73.2	100.1	86,700	
38	72.0	99.4	78,100	
40	70.7	98.7	70,600	
42	69.5	97.9	64,000	
44	68.2	97.0	58,200	
46	66.9	96.1	53,000	
48	65.6	95.1	48,400	
50	64.3	94.1	44,200	
55	61.0	91.3	35,300	
60	57.5	88.0	28,100	
65	53.9	84.3	22,200	
70	50.1	80.1	16,500	

**108.3 ft**

	ft	°	ft	lb
26	80.3	113.1	161,100	
28	79.2	112.6	140,100	
30	78.1	112.2	123,100	
32	77.0	111.6	109,100	
34	75.9	111.1	97,300	
36	74.8	110.5	87,300	
38	73.7	109.9	78,700	
40	72.6	109.2	71,200	
42	71.4	108.4	64,700	
44	70.3	107.7	58,800	
46	69.2	106.9	53,600	
48	68.0	106.0	49,000	
50	66.8	105.1	44,800	
55	63.9	102.6	35,900	
60	60.8	99.7	28,700	
65	57.7	96.5	22,700	
70	54.4	92.9	17,100	
75	51.0	88.8	12,300	
76	50.3	87.9	11,400	

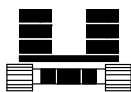
**118.1 ft**

	ft	°	ft	lb
28	80.1	122.7	140,800	
30	79.1	122.3	123,700	
32	78.1	121.8	109,700	
34	77.1	121.3	97,900	
36	76.1	120.8	87,900	
38	75.1	120.2	79,200	
40	74.1	119.5	71,700	
42	73.1	118.9	65,100	
44	72.0	118.2	59,300	
46	71.0	117.5	54,100	
48	70.0	116.7	49,400	
50	68.9	115.8	45,200	
55	66.2	113.6	36,200	
60	63.5	111.1	29,100	
65	60.7	108.2	22,900	
70	57.9	105.0	17,300	
75	54.9	101.5	12,500	
80	51.8	97.5	8,300	
82	50.5	95.8	6,800	

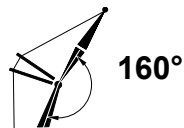
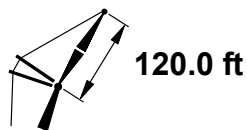


# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



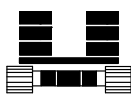
128.0 ft			
ft	o	ft	lb
29	80.4	132.5	132,300
30	80.0	132.3	124,200
32	79.0	131.9	110,100
34	78.1	131.4	98,300
36	77.2	130.9	88,300
38	76.3	130.4	79,600
40	75.3	129.8	72,100
42	74.4	129.2	65,500
44	73.5	128.6	59,600
46	72.5	127.9	54,400
48	71.6	127.2	49,700
50	70.6	126.5	45,500
55	68.2	124.4	36,600
60	65.7	122.1	29,400
65	63.2	119.5	23,000
70	60.6	116.7	17,400
75	58.0	113.5	12,600
80	55.3	110.0	8,500
85	52.4	106.1	4,900

137.8 ft			
ft	o	ft	lb
31	80.3	142.2	117,200
32	79.8	142.0	110,500
34	79.0	141.5	98,600
36	78.1	141.1	88,600
38	77.3	140.6	79,900
40	76.4	140.1	72,300
42	75.6	139.5	65,700
44	74.7	138.9	59,800
46	73.8	138.3	54,600
48	72.9	137.6	49,900
50	72.1	136.9	45,700
55	69.8	135.1	36,700
60	67.6	133.0	29,500
65	65.3	130.6	22,900
70	62.9	128.0	17,400
75	60.6	125.2	12,600
80	58.1	122.0	8,500
85	55.6	118.5	4,900

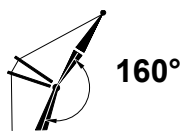
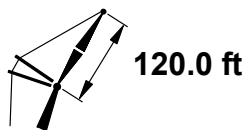
147.6 ft			
ft	o	ft	lb
33	80.1	151.8	104,500
34	79.7	151.6	98,800
36	78.9	151.2	88,800
38	78.1	150.7	80,100
40	77.3	150.2	72,500
42	76.5	149.7	65,900
44	75.7	149.2	60,000
46	74.9	148.6	54,800
48	74.1	148.0	50,100
50	73.3	147.3	45,800
55	71.2	145.6	36,900
60	69.2	143.7	29,500
65	67.1	141.5	22,900
70	64.9	139.1	17,300
75	62.7	136.5	12,600
80	60.5	133.6	8,500
85	58.2	130.5	4,900

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb

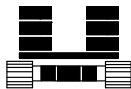
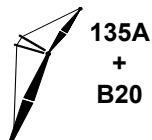


 157.5 ft			
ft	°	ft	lb
34	80.4	161.6	99,100
36	79.6	161.2	89,000
38	78.9	160.8	80,300
40	78.1	160.4	72,700
42	77.4	159.9	66,000
44	76.6	159.4	60,100
46	75.9	158.8	54,900
48	75.1	158.3	50,200
50	74.4	157.7	45,900
55	72.5	156.0	36,900
60	70.5	154.2	29,300
65	68.6	152.2	22,700
70	66.6	150.0	17,100
75	64.6	147.6	12,400
80	62.5	145.0	8,300
85	60.4	142.1	4,700

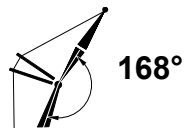
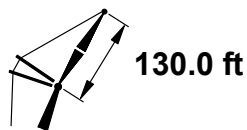
REFERENCE ONLY!

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



**68.9 ft**

20	79.7	74.1	177,600	
22	78.0	73.6	177,600	
24	76.2	73.0	177,600	
26	74.5	72.4	159,600	
28	72.7	71.7	138,100	
30	71.0	70.9	120,800	
32	69.2	70.1	106,500	
34	67.3	69.1	94,500	
36	65.5	68.1	84,300	
38	63.6	67.0	75,500	
40	61.6	65.9	67,800	
42	59.7	64.6	61,100	
44	57.7	63.2	55,100	
46	55.6	61.7	49,800	
48	53.5	60.1	45,000	
50	51.3	58.4	40,700	
51	50.2	57.5	38,700	

**78.7 ft**

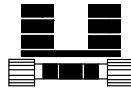
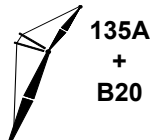
21	80.3	84.0	177,600	
22	79.5	83.7	177,600	
24	78.0	83.2	177,600	
26	76.5	82.7	161,600	
28	75.0	82.1	140,100	
30	73.5	81.4	122,700	
32	71.9	80.7	108,400	
34	70.3	79.9	96,300	
36	68.8	79.0	86,100	
38	67.2	78.1	77,300	
40	65.5	77.1	69,600	
42	63.9	76.1	62,800	
44	62.2	74.9	56,800	
46	60.5	73.7	51,500	
48	58.8	72.4	46,700	
50	57.0	71.0	42,400	
55	52.4	67.1	33,300	
57	50.5	65.3	30,100	

**88.6 ft**

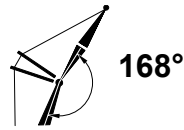
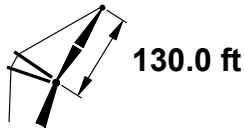
23	80.0	93.6	177,600	
24	79.4	93.4	177,600	
26	78.0	92.9	163,100	
28	76.7	92.3	141,600	
30	75.4	91.8	124,200	
32	74.0	91.1	109,800	
34	72.6	90.4	97,700	
36	71.3	89.7	87,500	
38	69.9	88.9	78,600	
40	68.5	88.0	70,900	
42	67.0	87.1	64,200	
44	65.6	86.1	58,200	
46	64.1	85.1	52,900	
48	62.7	84.0	48,100	
50	61.2	82.8	43,800	
55	57.3	79.5	34,600	
60	53.2	75.7	27,200	
63	50.7	73.2	23,500	

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



**98.4 ft**

	ft	o	ft	lb
24	80.5	103.4	177,600	
26	79.3	103.0	163,900	
28	78.1	102.5	142,700	
30	76.9	102.0	125,300	
32	75.7	101.4	110,900	
34	74.4	100.8	98,800	
36	73.2	100.1	88,500	
38	72.0	99.4	79,600	
40	70.7	98.7	71,900	
42	69.5	97.9	65,100	
44	68.2	97.0	59,100	
46	66.9	96.1	53,800	
48	65.6	95.1	49,000	
50	64.3	94.1	44,700	
55	61.0	91.3	35,500	
60	57.5	88.0	28,100	
65	53.9	84.3	21,800	
70	50.1	80.1	15,900	

**108.3 ft**

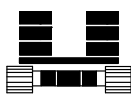
	ft	o	ft	lb
26	80.3	113.1	164,300	
28	79.2	112.6	143,600	
30	78.1	112.2	126,100	
32	77.0	111.6	111,700	
34	75.9	111.1	99,600	
36	74.8	110.5	89,300	
38	73.7	109.9	80,400	
40	72.6	109.2	72,700	
42	71.4	108.4	65,900	
44	70.3	107.7	59,900	
46	69.2	106.9	54,600	
48	68.0	106.0	49,800	
50	66.8	105.1	45,400	
55	63.9	102.6	36,300	
60	60.8	99.7	28,900	
65	57.7	96.5	22,600	
70	54.4	92.9	16,700	
75	51.0	88.8	11,700	
76	50.3	87.9	10,800	

**118.1 ft**

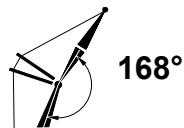
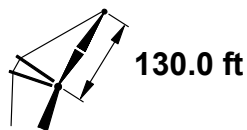
	ft	o	ft	lb
28	80.1	122.7	144,400	
30	79.1	122.3	126,800	
32	78.1	121.8	112,400	
34	77.1	121.3	100,300	
36	76.1	120.8	89,900	
38	75.1	120.2	81,000	
40	74.1	119.5	73,300	
42	73.1	118.9	66,500	
44	72.0	118.2	60,500	
46	71.0	117.5	55,100	
48	70.0	116.7	50,300	
50	68.9	115.8	46,000	
55	66.2	113.6	36,800	
60	63.5	111.1	29,400	
65	60.7	108.2	22,900	
70	57.9	105.0	17,100	
75	54.9	101.5	12,100	
80	51.8	97.5	7,800	
82	50.5	95.8	6,200	

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



**128.0 ft**

	ft	°	ft	lb
29	80.4	132.5	135,700	
30	80.0	132.3	127,400	
32	79.0	131.9	112,900	
34	78.1	131.4	100,800	
36	77.2	130.9	90,400	
38	76.3	130.4	81,500	
40	75.3	129.8	73,800	
42	74.4	129.2	67,000	
44	73.5	128.6	60,900	
46	72.5	127.9	55,600	
48	71.6	127.2	50,700	
50	70.6	126.5	46,400	
55	68.2	124.4	37,200	
60	65.7	122.1	29,800	
65	63.2	119.5	23,200	
70	60.6	116.7	17,400	
75	58.0	113.5	12,400	
80	55.3	110.0	8,200	
85	52.4	106.1	4,400	

**137.8 ft**

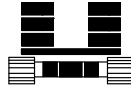
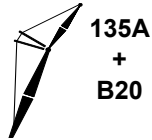
	ft	°	ft	lb
31	80.3	142.2	120,300	
32	79.8	142.0	113,400	
34	79.0	141.5	101,200	
36	78.1	141.1	90,800	
38	77.3	140.6	81,900	
40	76.4	140.1	74,100	
42	75.6	139.5	67,300	
44	74.7	138.9	61,300	
46	73.8	138.3	55,900	
48	72.9	137.6	51,000	
50	72.1	136.9	46,700	
55	69.8	135.1	37,400	
60	67.6	133.0	30,000	
65	65.3	130.6	23,200	
70	62.9	128.0	17,400	
75	60.6	125.2	12,500	
80	58.1	122.0	8,200	
85	55.6	118.5	4,500	

**147.6 ft**

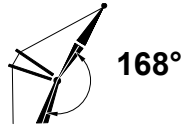
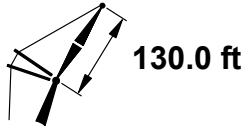
	ft	°	ft	lb
33	80.1	151.8	107,300	
34	79.7	151.6	101,500	
36	78.9	151.2	91,100	
38	78.1	150.7	82,200	
40	77.3	150.2	74,400	
42	76.5	149.7	67,500	
44	75.7	149.2	61,500	
46	74.9	148.6	56,100	
48	74.1	148.0	51,300	
50	73.3	147.3	46,900	
55	71.2	145.6	37,700	
60	69.2	143.7	30,100	
65	67.1	141.5	23,300	
70	64.9	139.1	17,500	
75	62.7	136.5	12,600	
80	60.5	133.6	8,400	
85	58.2	130.5	4,700	

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb

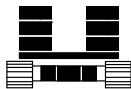


<p>157.5 ft</p>			
ft	°	ft	lb
34	80.4	161.6	101,800
36	79.6	161.2	91,400
38	78.9	160.8	82,400
40	78.1	160.4	74,600
42	77.4	159.9	67,800
44	76.6	159.4	61,700
46	75.9	158.8	56,300
48	75.1	158.3	51,400
50	74.4	157.7	47,100
55	72.5	156.0	37,800
60	70.5	154.2	29,900
65	68.6	152.2	23,100
70	66.6	150.0	17,400
75	64.6	147.6	12,500
80	62.5	145.0	8,300
85	60.4	142.1	4,600

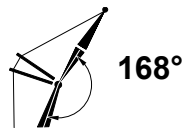
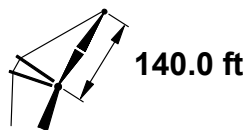
REFERENCE ONLY!

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



**68.9 ft**

	ft	°	ft	lb
20	79.7	74.1	177,600	
22	78.0	73.6	177,600	
24	76.2	73.0	175,600	
26	74.5	72.4	155,900	
28	72.7	71.7	134,600	
30	71.0	70.9	117,400	
32	69.2	70.1	103,200	
34	67.3	69.1	91,300	
36	65.5	68.1	81,100	
38	63.6	67.0	72,400	
40	61.6	65.9	64,800	
42	59.7	64.6	58,100	
44	57.7	63.2	52,200	
46	55.6	61.7	46,900	
48	53.5	60.1	42,200	
50	51.3	58.4	37,900	
51	50.2	57.5	35,900	

**78.7 ft**

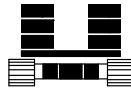
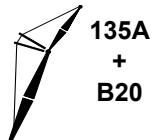
	ft	°	ft	lb
21	80.3	84.0	177,600	
22	79.5	83.7	177,600	
24	78.0	83.2	176,400	
26	76.5	82.7	158,100	
28	75.0	82.1	136,800	
30	73.5	81.4	119,500	
32	71.9	80.7	105,300	
34	70.3	79.9	93,300	
36	68.8	79.0	83,100	
38	67.2	78.1	74,400	
40	65.5	77.1	66,700	
42	63.9	76.1	60,000	
44	62.2	74.9	54,100	
46	60.5	73.7	48,800	
48	58.8	72.4	44,100	
50	57.0	71.0	39,800	
55	52.4	67.1	30,700	
57	50.5	65.3	27,600	

**88.6 ft**

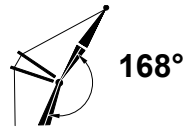
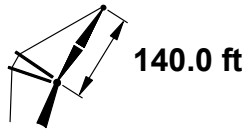
	ft	°	ft	lb
23	80.0	93.6	177,600	
24	79.4	93.4	177,200	
26	78.0	92.9	159,800	
28	76.7	92.3	138,400	
30	75.4	91.8	121,100	
32	74.0	91.1	106,900	
34	72.6	90.4	94,900	
36	71.3	89.7	84,700	
38	69.9	88.9	75,900	
40	68.5	88.0	68,300	
42	67.0	87.1	61,600	
44	65.6	86.1	55,600	
46	64.1	85.1	50,300	
48	62.7	84.0	45,600	
50	61.2	82.8	41,300	
55	57.3	79.5	32,200	
60	53.2	75.7	24,800	
63	50.7	73.2	20,500	

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



**98.4 ft**

	ft	o	ft	lb
24	80.5	103.4	177,500	
26	79.3	103.0	161,200	
28	78.1	102.5	139,700	
30	76.9	102.0	122,400	
32	75.7	101.4	108,100	
34	74.4	100.8	96,100	
36	73.2	100.1	85,800	
38	72.0	99.4	77,000	
40	70.7	98.7	69,400	
42	69.5	97.9	62,600	
44	68.2	97.0	56,700	
46	66.9	96.1	51,400	
48	65.6	95.1	46,600	
50	64.3	94.1	42,300	
55	61.0	91.3	33,200	
60	57.5	88.0	25,800	
65	53.9	84.3	18,900	
70	50.1	80.1	13,100	

**108.3 ft**

	ft	o	ft	lb
26	80.3	113.1	162,100	
28	79.2	112.6	140,700	
30	78.1	112.2	123,300	
32	77.0	111.6	109,000	
34	75.9	111.1	97,000	
36	74.8	110.5	86,800	
38	73.7	109.9	77,900	
40	72.6	109.2	70,300	
42	71.4	108.4	63,500	
44	70.3	107.7	57,600	
46	69.2	106.9	52,300	
48	68.0	106.0	47,500	
50	66.8	105.1	43,200	
55	63.9	102.6	34,100	
60	60.8	99.7	26,700	
65	57.7	96.5	19,800	
70	54.4	92.9	14,000	
75	51.0	88.8	9,100	
76	50.3	87.9	8,200	

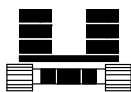
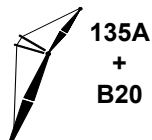
**118.1 ft**

	ft	o	ft	lb
28	80.1	122.7	141,600	
30	79.1	122.3	124,200	
32	78.1	121.8	109,800	
34	77.1	121.3	97,700	
36	76.1	120.8	87,500	
38	75.1	120.2	78,600	
40	74.1	119.5	71,000	
42	73.1	118.9	64,200	
44	72.0	118.2	58,200	
46	71.0	117.5	52,900	
48	70.0	116.7	48,100	
50	68.9	115.8	43,800	
55	66.2	113.6	34,600	
60	63.5	111.1	27,100	
65	60.7	108.2	20,200	
70	57.9	105.0	14,500	
75	54.9	101.5	9,500	
80	51.8	97.5	5,300	
82	50.5	95.8	3,700	

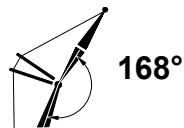
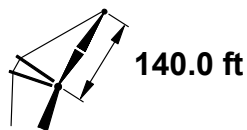


# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



128.0 ft

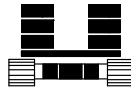
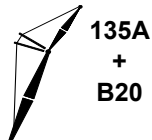
ft	o	ft	lb
29	80.4	132.5	133,100
30	80.0	132.3	124,800
32	79.0	131.9	110,400
34	78.1	131.4	98,300
36	77.2	130.9	88,100
38	76.3	130.4	79,200
40	75.3	129.8	71,500
42	74.4	129.2	64,700
44	73.5	128.6	58,800
46	72.5	127.9	53,400
48	71.6	127.2	48,600
50	70.6	126.5	44,300
55	68.2	124.4	35,100
60	65.7	122.1	27,400
65	63.2	119.5	20,600
70	60.6	116.7	14,900
75	58.0	113.5	10,000
80	55.3	110.0	5,700

137.8 ft

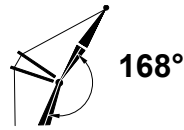
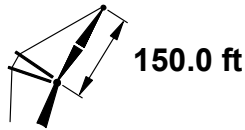
ft	o	ft	lb
31	80.3	142.2	117,800
32	79.8	142.0	110,900
34	79.0	141.5	98,800
36	78.1	141.1	88,500
38	77.3	140.6	79,600
40	76.4	140.1	71,900
42	75.6	139.5	65,100
44	74.7	138.9	59,100
46	73.8	138.3	53,800
48	72.9	137.6	49,000
50	72.1	136.9	44,700
55	69.8	135.1	35,500
60	67.6	133.0	27,500
65	65.3	130.6	20,700
70	62.9	128.0	15,000
75	60.6	125.2	10,100
80	58.1	122.0	5,900

147.6 ft

ft	o	ft	lb
33	80.1	151.8	105,000
34	79.7	151.6	99,100
36	78.9	151.2	88,800
38	78.1	150.7	80,000
40	77.3	150.2	72,200
42	76.5	149.7	65,400
44	75.7	149.2	59,400
46	74.9	148.6	54,100
48	74.1	148.0	49,300
50	73.3	147.3	44,900
55	71.2	145.6	35,800
60	69.2	143.7	27,600
65	67.1	141.5	20,900
70	64.9	139.1	15,200
75	62.7	136.5	10,300
80	60.5	133.6	6,100



110,500 lb  
+  
35,000 lb



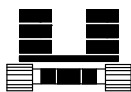
<p>68.9 ft</p>			
ft	o	ft	lb
20	79.7	74.1	177,600
22	78.0	73.6	177,600
24	76.2	73.0	173,800
26	74.5	72.4	153,100
28	72.7	71.7	131,900
30	71.0	70.9	114,800
32	69.2	70.1	100,800
34	67.3	69.1	88,900
36	65.5	68.1	78,900
38	63.6	67.0	70,200
40	61.6	65.9	62,600
42	59.7	64.6	56,000
44	57.7	63.2	50,100
46	55.6	61.7	44,900
48	53.5	60.1	40,200
50	51.3	58.4	35,900
51	50.2	57.5	34,000

<p>78.7 ft</p>			
ft	o	ft	lb
21	80.3	84.0	177,600
22	79.5	83.7	177,600
24	78.0	83.2	174,800
26	76.5	82.7	155,500
28	75.0	82.1	134,300
30	73.5	81.4	117,100
32	71.9	80.7	103,000
34	70.3	79.9	91,100
36	68.8	79.0	81,000
38	67.2	78.1	72,300
40	65.5	77.1	64,700
42	63.9	76.1	58,100
44	62.2	74.9	52,200
46	60.5	73.7	46,900
48	58.8	72.4	42,200
50	57.0	71.0	38,000
55	52.4	67.1	29,000
57	50.5	65.3	25,800

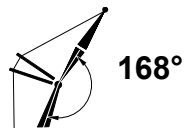
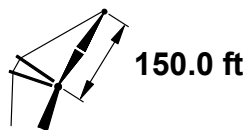
<p>88.6 ft</p>			
ft	o	ft	lb
23	80.0	93.6	177,600
24	79.4	93.4	175,600
26	78.0	92.9	157,300
28	76.7	92.3	136,100
30	75.4	91.8	118,900
32	74.0	91.1	104,700
34	72.6	90.4	92,800
36	71.3	89.7	82,700
38	69.9	88.9	74,000
40	68.5	88.0	66,400
42	67.0	87.1	59,700
44	65.6	86.1	53,800
46	64.1	85.1	48,600
48	62.7	84.0	43,900
50	61.2	82.8	39,600
55	57.3	79.5	30,600
60	53.2	75.7	22,800
63	50.7	73.2	18,500

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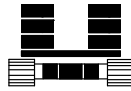
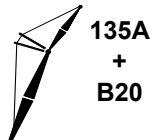
110,500 lb  
+  
35,000 lb



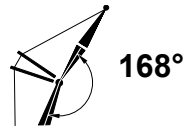
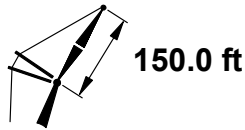
98.4 ft			
ft	o	ft	lb
24	80.5	103.4	176,000
26	79.3	103.0	158,800
28	78.1	102.5	137,500
30	76.9	102.0	120,300
32	75.7	101.4	106,000
34	74.4	100.8	94,100
36	73.2	100.1	84,000
38	72.0	99.4	75,200
40	70.7	98.7	67,600
42	69.5	97.9	60,900
44	68.2	97.0	55,000
46	66.9	96.1	49,700
48	65.6	95.1	45,000
50	64.3	94.1	40,700
55	61.0	91.3	31,700
60	57.5	88.0	23,900
65	53.9	84.3	17,000
70	50.1	80.1	11,300

108.3 ft			
ft	o	ft	lb
26	80.3	113.1	159,900
28	79.2	112.6	138,500
30	78.1	112.2	121,300
32	77.0	111.6	107,100
34	75.9	111.1	95,100
36	74.8	110.5	85,000
38	73.7	109.9	76,200
40	72.6	109.2	68,600
42	71.4	108.4	61,900
44	70.3	107.7	56,000
46	69.2	106.9	50,700
48	68.0	106.0	46,000
50	66.8	105.1	41,700
55	63.9	102.6	32,600
60	60.8	99.7	24,900
65	57.7	96.5	18,100
70	54.4	92.9	12,300
75	51.0	88.8	7,400
76	50.3	87.9	6,500

118.1 ft			
ft	o	ft	lb
28	80.1	122.7	139,500
30	79.1	122.3	122,200
32	78.1	121.8	107,900
34	77.1	121.3	95,900
36	76.1	120.8	85,800
38	75.1	120.2	77,000
40	74.1	119.5	69,300
42	73.1	118.9	62,600
44	72.0	118.2	56,700
46	71.0	117.5	51,400
48	70.0	116.7	46,700
50	68.9	115.8	42,400
55	66.2	113.6	33,300
60	63.5	111.1	25,400
65	60.7	108.2	18,600
70	57.9	105.0	12,900
75	54.9	101.5	8,000
80	51.8	97.5	3,700



110,500 lb  
+  
35,000 lb



**128.0 ft**

	ft	o	ft	lb
29	80.4	132.5	131,100	
30	80.0	132.3	122,900	
32	79.0	131.9	108,600	
34	78.1	131.4	96,600	
36	77.2	130.9	86,400	
38	76.3	130.4	77,600	
40	75.3	129.8	70,000	
42	74.4	129.2	63,200	
44	73.5	128.6	57,300	
46	72.5	127.9	52,000	
48	71.6	127.2	47,200	
50	70.6	126.5	42,900	
55	68.2	124.4	33,800	
60	65.7	122.1	25,800	
65	63.2	119.5	19,000	
70	60.6	116.7	13,300	
75	58.0	113.5	8,500	
80	55.3	110.0	4,300	

**137.8 ft**

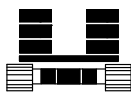
	ft	o	ft	lb
31	80.3	142.2	116,000	
32	79.8	142.0	109,200	
34	79.0	141.5	97,100	
36	78.1	141.1	86,900	
38	77.3	140.6	78,100	
40	76.4	140.1	70,400	
42	75.6	139.5	63,700	
44	74.7	138.9	57,700	
46	73.8	138.3	52,400	
48	72.9	137.6	47,600	
50	72.1	136.9	43,300	
55	69.8	135.1	34,100	
60	67.6	133.0	25,900	
65	65.3	130.6	19,200	
70	62.9	128.0	13,500	
75	60.6	125.2	8,700	
80	58.1	122.0	4,500	

**147.6 ft**

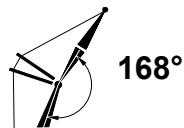
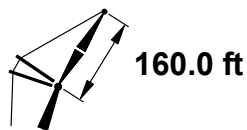
	ft	o	ft	lb
33	80.1	151.8	103,300	
34	79.7	151.6	97,500	
36	78.9	151.2	87,300	
38	78.1	150.7	78,500	
40	77.3	150.2	70,800	
42	76.5	149.7	64,000	
44	75.7	149.2	58,100	
46	74.9	148.6	52,700	
48	74.1	148.0	48,000	
50	73.3	147.3	43,700	
55	71.2	145.6	34,200	
60	69.2	143.7	26,100	
65	67.1	141.5	19,400	
70	64.9	139.1	13,700	
75	62.7	136.5	8,900	
80	60.5	133.6	4,700	

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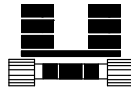
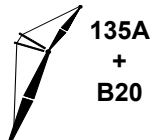
110,500 lb  
+  
35,000 lb



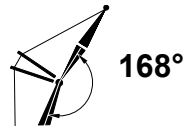
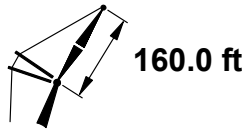
68.9 ft			
ft	°	ft	lb
20	79.7	74.1	177,600
22	78.0	73.6	177,600
24	76.2	73.0	171,200
26	74.5	72.4	149,200
28	72.7	71.7	128,200
30	71.0	70.9	111,200
32	69.2	70.1	97,200
34	67.3	69.1	85,500
36	65.5	68.1	75,500
38	63.6	67.0	66,900
40	61.6	65.9	59,400
42	59.7	64.6	52,800
44	57.7	63.2	47,000
46	55.6	61.7	41,800
48	53.5	60.1	37,100
50	51.3	58.4	32,900
51	50.2	57.5	31,000

78.7 ft			
ft	°	ft	lb
21	80.3	84.0	177,600
22	79.5	83.7	177,600
24	78.0	83.2	172,200
26	76.5	82.7	151,800
28	75.0	82.1	130,800
30	73.5	81.4	113,800
32	71.9	80.7	99,700
34	70.3	79.9	87,900
36	68.8	79.0	77,900
38	67.2	78.1	69,300
40	65.5	77.1	61,800
42	63.9	76.1	55,200
44	62.2	74.9	49,300
46	60.5	73.7	44,100
48	58.8	72.4	39,400
50	57.0	71.0	35,200
55	52.4	67.1	25,800
57	50.5	65.3	22,300

88.6 ft			
ft	°	ft	lb
23	80.0	93.6	177,600
24	79.4	93.4	173,200
26	78.0	92.9	153,900
28	76.7	92.3	132,800
30	75.4	91.8	115,700
32	74.0	91.1	101,600
34	72.6	90.4	89,800
36	71.3	89.7	79,800
38	69.9	88.9	71,100
40	68.5	88.0	63,600
42	67.0	87.1	57,000
44	65.6	86.1	51,100
46	64.1	85.1	45,900
48	62.7	84.0	41,200
50	61.2	82.8	37,000
55	57.3	79.5	27,800
60	53.2	75.7	19,500
63	50.7	73.2	15,300



110,500 lb  
+  
35,000 lb



**98.4 ft**

	ft	o	ft	lb
24	80.5	103.4	173,600	
26	79.3	103.0	155,500	
28	78.1	102.5	134,300	
30	76.9	102.0	117,200	
32	75.7	101.4	103,100	
34	74.4	100.8	91,300	
36	73.2	100.1	81,200	
38	72.0	99.4	72,500	
40	70.7	98.7	64,900	
42	69.5	97.9	58,300	
44	68.2	97.0	52,400	
46	66.9	96.1	47,200	
48	65.6	95.1	42,500	
50	64.3	94.1	38,200	
55	61.0	91.3	29,000	
60	57.5	88.0	20,800	
65	53.9	84.3	14,000	
70	50.1	80.1	8,300	

**108.3 ft**

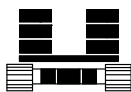
	ft	o	ft	lb
26	80.3	113.1	156,700	
28	79.2	112.6	135,500	
30	78.1	112.2	118,400	
32	77.0	111.6	104,200	
34	75.9	111.1	92,400	
36	74.8	110.5	82,300	
38	73.7	109.9	73,600	
40	72.6	109.2	66,000	
42	71.4	108.4	59,400	
44	70.3	107.7	53,500	
46	69.2	106.9	48,300	
48	68.0	106.0	43,600	
50	66.8	105.1	39,300	
55	63.9	102.6	30,100	
60	60.8	99.7	21,900	
65	57.7	96.5	15,200	
70	54.4	92.9	9,500	
75	51.0	88.8	4,600	
76	50.3	87.9	3,700	

**118.1 ft**

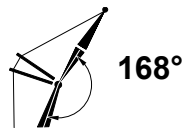
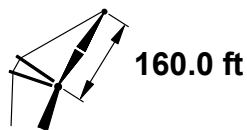
	ft	o	ft	lb
28	80.1	122.7	136,500	
30	79.1	122.3	119,400	
32	78.1	121.8	105,200	
34	77.1	121.3	93,300	
36	76.1	120.8	83,200	
38	75.1	120.2	74,500	
40	74.1	119.5	66,900	
42	73.1	118.9	60,200	
44	72.0	118.2	54,300	
46	71.0	117.5	49,100	
48	70.0	116.7	44,400	
50	68.9	115.8	40,100	
55	66.2	113.6	30,600	
60	63.5	111.1	22,500	
65	60.7	108.2	15,800	
70	57.9	105.0	10,100	
75	54.9	101.5	5,300	

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110,500 lb  
+  
35,000 lb



**128.0 ft**

ft	o	ft	lb
29	80.4	132.5	128,300
30	80.0	132.3	120,100
32	79.0	131.9	105,900
34	78.1	131.4	94,000
36	77.2	130.9	83,900
38	76.3	130.4	75,200
40	75.3	129.8	67,600
42	74.4	129.2	60,900
44	73.5	128.6	55,000
46	72.5	127.9	49,700
48	71.6	127.2	45,000
50	70.6	126.5	40,700
55	68.2	124.4	31,100
60	65.7	122.1	23,100
65	63.2	119.5	16,400
70	60.6	116.7	10,700
75	58.0	113.5	5,900

**137.8 ft**

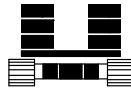
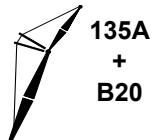
ft	o	ft	lb
31	80.3	142.2	113,400
32	79.8	142.0	106,600
34	79.0	141.5	94,700
36	78.1	141.1	84,500
38	77.3	140.6	75,700
40	76.4	140.1	68,100
42	75.6	139.5	61,400
44	74.7	138.9	55,500
46	73.8	138.3	50,200
48	72.9	137.6	45,500
50	72.1	136.9	41,200
55	69.8	135.1	31,300
60	67.6	133.0	23,300
65	65.3	130.6	16,600
70	62.9	128.0	11,000
75	60.6	125.2	6,200

**147.6 ft**

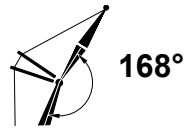
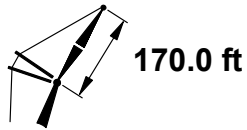
ft	o	ft	lb
33	80.1	151.8	100,800
34	79.7	151.6	95,100
36	78.9	151.2	84,900
38	78.1	150.7	76,200
40	77.3	150.2	68,500
42	76.5	149.7	61,800
44	75.7	149.2	55,900
46	74.9	148.6	50,600
48	74.1	148.0	45,900
50	73.3	147.3	41,400
55	71.2	145.6	31,500
60	69.2	143.7	23,500
65	67.1	141.5	16,900
70	64.9	139.1	11,300
75	62.7	136.5	6,500

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110,500 lb  
+  
35,000 lb



**68.9 ft**

	ft	°	ft	lb
20	79.7	74.1	177,600	
22	78.0	73.6	177,600	
24	76.2	73.0	168,700	
26	74.5	72.4	145,500	
28	72.7	71.7	124,700	
30	71.0	70.9	107,900	
32	69.2	70.1	94,000	
34	67.3	69.1	82,400	
36	65.5	68.1	72,400	
38	63.6	67.0	63,900	
40	61.6	65.9	56,500	
42	59.7	64.6	50,000	
44	57.7	63.2	44,200	
46	55.6	61.7	39,000	
48	53.5	60.1	34,400	
50	51.3	58.4	30,100	
51	50.2	57.5	27,900	

**78.7 ft**

	ft	°	ft	lb
21	80.3	84.0	177,600	
22	79.5	83.7	177,600	
24	78.0	83.2	169,900	
26	76.5	82.7	148,400	
28	75.0	82.1	127,500	
30	73.5	81.4	110,600	
32	71.9	80.7	96,700	
34	70.3	79.9	85,000	
36	68.8	79.0	75,100	
38	67.2	78.1	66,500	
40	65.5	77.1	59,000	
42	63.9	76.1	52,500	
44	62.2	74.9	46,700	
46	60.5	73.7	41,500	
48	58.8	72.4	36,900	
50	57.0	71.0	32,700	
55	52.4	67.1	22,700	
57	50.5	65.3	19,200	

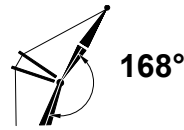
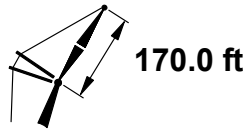
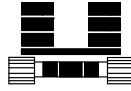
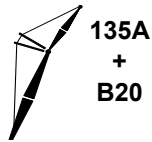
**88.6 ft**

	ft	°	ft	lb
23	80.0	93.6	177,600	
24	79.4	93.4	171,000	
26	78.0	92.9	150,600	
28	76.7	92.3	129,600	
30	75.4	91.8	112,700	
32	74.0	91.1	98,800	
34	72.6	90.4	87,100	
36	71.3	89.7	77,100	
38	69.9	88.9	68,500	
40	68.5	88.0	61,000	
42	67.0	87.1	54,500	
44	65.6	86.1	48,700	
46	64.1	85.1	43,500	
48	62.7	84.0	38,800	
50	61.2	82.8	34,700	
55	57.3	79.5	24,800	
60	53.2	75.7	16,700	
63	50.7	73.2	12,500	



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**98.4 ft**

ft	o	ft	lb
24	80.5	103.4	171,500
26	79.3	103.0	152,400
28	78.1	102.5	131,300
30	76.9	102.0	114,400
32	75.7	101.4	100,400
34	74.4	100.8	88,600
36	73.2	100.1	78,600
38	72.0	99.4	70,000
40	70.7	98.7	62,500
42	69.5	97.9	55,900
44	68.2	97.0	50,100
46	66.9	96.1	44,900
48	65.6	95.1	40,300
50	64.3	94.1	36,000
55	61.0	91.3	26,200
60	57.5	88.0	18,100
65	53.9	84.3	11,400
70	50.1	80.1	5,700

**108.3 ft**

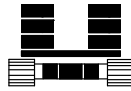
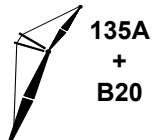
ft	o	ft	lb
26	80.3	113.1	153,700
28	79.2	112.6	132,600
30	78.1	112.2	115,600
32	77.0	111.6	101,600
34	75.9	111.1	89,900
36	74.8	110.5	79,800
38	73.7	109.9	71,200
40	72.6	109.2	63,700
42	71.4	108.4	57,100
44	70.3	107.7	51,300
46	69.2	106.9	46,100
48	68.0	106.0	41,400
50	66.8	105.1	37,200
55	63.9	102.6	27,400
60	60.8	99.7	19,300
65	57.7	96.5	12,700
70	54.4	92.9	7,000

**118.1 ft**

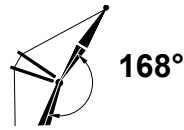
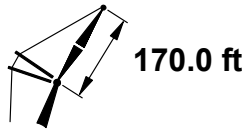
ft	o	ft	lb
28	80.1	122.7	133,800
30	79.1	122.3	116,700
32	78.1	121.8	102,700
34	77.1	121.3	90,900
36	76.1	120.8	80,800
38	75.1	120.2	72,200
40	74.1	119.5	64,700
42	73.1	118.9	58,100
44	72.0	118.2	52,200
46	71.0	117.5	47,000
48	70.0	116.7	42,300
50	68.9	115.8	38,000
55	66.2	113.6	28,100
60	63.5	111.1	20,100
65	60.7	108.2	13,400
70	57.9	105.0	7,800
75	54.9	101.5	3,000

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ASME B30.5



110,500 lb  
+  
35,000 lb



128.0 ft

	ft	°	ft	lb
29	80.4	132.5	125,700	
30	80.0	132.3	117,600	
32	79.0	131.9	103,500	
34	78.1	131.4	91,700	
36	77.2	130.9	81,600	
38	76.3	130.4	73,000	
40	75.3	129.8	65,400	
42	74.4	129.2	58,800	
44	73.5	128.6	53,000	
46	72.5	127.9	47,700	
48	71.6	127.2	43,000	
50	70.6	126.5	38,500	
55	68.2	124.4	28,700	
60	65.7	122.1	20,700	
65	63.2	119.5	14,100	
70	60.6	116.7	8,500	
75	58.0	113.5	3,700	

137.8 ft

	ft	°	ft	lb
31	80.3	142.2	111,000	
32	79.8	142.0	104,200	
34	79.0	141.5	92,400	
36	78.1	141.1	82,300	
38	77.3	140.6	73,600	
40	76.4	140.1	66,000	
42	75.6	139.5	59,400	
44	74.7	138.9	53,500	
46	73.8	138.3	48,300	
48	72.9	137.6	43,400	
50	72.1	136.9	38,800	
55	69.8	135.1	29,000	
60	67.6	133.0	21,000	
65	65.3	130.6	14,400	
70	62.9	128.0	8,800	
75	60.6	125.2	4,000	

147.6 ft

	ft	°	ft	lb
33	80.1	151.8	98,500	
34	79.7	151.6	92,900	
36	78.9	151.2	82,800	
38	78.1	150.7	74,100	
40	77.3	150.2	66,500	
42	76.5	149.7	59,900	
44	75.7	149.2	54,000	
46	74.9	148.6	48,600	
48	74.1	148.0	43,500	
50	73.3	147.3	39,000	
55	71.2	145.6	29,200	
60	69.2	143.7	21,300	
65	67.1	141.5	14,700	
70	64.9	139.1	9,200	
75	62.7	136.5	4,400	