

# Liftcrane Luffing Jib Capacities

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

## MLC150-1 SERIES 2



**LIFTING CAPACITIES:** Lifting capacities for various boom lengths, boom angles, luffing jib lengths, and luffing jib 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 and luffing jib point sheaves is considered part of load. Boom and luffing jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Operation is only approved for boom and luffing jib angle range shown in capacity chart.

**LUFFING JIB BACKWARD STABILITY:** Capacities indicated by (b) require 2,500 lb minimum weight suspended beneath luffing jib point. Capacities indicated by (c) require 6,000 lb minimum weight suspended beneath luffing jib point. Capacities indicated by (d) require 11,000 lb minimum weight suspended beneath luffing jib point. **Caution: Do not luff into areas indicated by (b), (c), or (d) without required minimum weights.** *Luffing jib may not luff down and luffing jib hoist wire rope may go slack. Luffing jib hoist wire rope may overhaul jib and cause wire rope damage or failure.*

**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. Refer to Boom Rigging No. 80117859, Luffing Jib Rigging No. 80117862, Wire Rope Specification chart No. 9854-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.



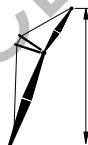
**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle and luffing jib angle are an indication of operating radius. In all cases, operating radius shall govern capacity.



**BOOM ANGLE:** Boom angle in degrees ( $^{\circ}$ ) is angle between horizontal and centerline of boom butt and inserts.



**LUFFING JIB ANGLE:** Luffing jib angle in degrees ( $^{\circ}$ ) is angle between horizontal and centerline of luffing jib butt and inserts.



**LUFFING JIB POINT ELEVATION:** Luffing jib point elevation is vertical distance from ground level to centerline of luffing jib 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.

## Explanation of Symbols

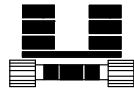
	<p>Luffing Jib No. 135A + Boom No. B20:350</p>
	<p>Crane Counterweight + Carbody Counterweight</p>
	<p>360 Degree Rating</p>
	<p>Boom Length</p>
	<p>Luffing Jib Length</p>
	<p>Boom Angle (see page 1)</p>
	<p>Operating Radius (see page 1)</p>
	<p>Luffing Jib Angle (see page 1)</p>
	<p>Luffing Jib Point Elevation (see page 1)</p>
	<p>Lifting Capacities (see page 1)</p>

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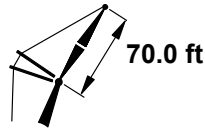
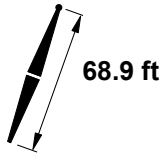
REFERENCE ONLY!

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



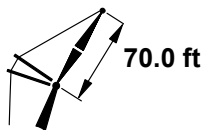
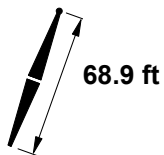
ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
28	75.0	143.5	108,800 d							28
30	73.3	143.0	108,800 d							30
32	71.6	142.3	104,900 d							32
34	69.8	141.6	100,400 d							34
36	68.1	140.9	96,300 c							36
38	66.3	140.0	92,400 c	70.5	141.3	100,100 d				38
40	64.5	139.1	88,800 c	68.8	140.6	96,100 c				40
42	62.7	138.1	85,400 c	67.0	139.8	92,200 c				42
44	60.8	137.0	82,200 c	65.2	138.9	88,600 c				44
45	59.9	136.5	80,400 c	64.3	138.4	87,000 c	67.5	139.4	90,800 c	45
46	58.9	135.9	78,700 b	63.4	137.9	85,300 c	66.6	139.0	88,200 c	46
48	57.0	134.6	75,500 b	61.6	136.9	82,200 c	64.8	138.0	83,500 c	48
50	55.0	133.3	72,600 b	59.7	135.8	79,200 b	63.0	137.1	79,200 c	50
55	49.9	129.4	63,000 b	54.8	132.6	71,600 b	58.3	134.3	70,100 b	55
56	48.7	128.5	61,500 b	53.8	131.8	70,100 b	57.3	133.6	68,600 b	56
60	44.3	124.8	55,300	49.6	128.7	64,100 b	53.4	130.9	62,800 b	60
65	38.0	119.1	49,100	44.0	124.0	57,900	48.1	126.8	56,700 b	65
67	35.1	116.1	47,000	41.5	121.7	55,900	45.8	124.8	54,700 b	67
70	30.8	111.8	43,800	37.8	118.2	52,800	42.3	121.8	51,700	70
75	21.5	101.6	39,300	30.5	110.8	47,100	35.8	115.6	47,400	75
78	12.1	90.5	36,700	24.8	104.6	44,000	31.1	110.8	45,200	78
79	9.0	86.9	35,900	22.9	102.5	42,900	29.6	109.2	44,400	79
80				21.0	100.5	41,900	28.1	107.6	43,700	80
84				7.9	84.9	37,800	19.6	98.1	41,000	84
85							17.5	95.7	40,400	85
88							4.5	80.2	38,500	88
90										90
94										94
95										95
99										99
100										100
105										105

# MLC150-1 S-2

ASME B30.5



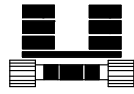
110,500 lb  
+  
35,000 lb



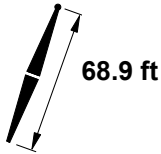
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
28										28
30										30
32										32
34										34
36										36
38										38
40										40
42										42
44										44
45										45
46										46
48										48
50										50
55										55
56	62.9	135.5	66,100 c							56
60	59.1	133.3	60,600 b							60
65	54.2	130.0	54,800 b							65
67	52.1	128.4	52,800 b	57.9	130.5	50,900 b				67
70	49.0	126.0	49,900 b	54.9	128.5	48,100 b				70
75	43.3	121.2	45,800	49.7	124.6	44,100 b				75
78	39.5	117.7	43,600	46.4	121.8	42,100 b	52.4	124.1	40,500 b	78
79	38.2	116.5	42,900	45.3	120.9	41,400 b	51.3	123.3	39,900 b	79
80	37.0	115.3	42,200	44.1	119.9	40,700 b	50.3	122.5	39,200 b	80
84	31.0	109.2	39,700	39.1	115.3	38,300 b	45.8	118.9	36,900 b	84
85	29.5	107.7	39,000	37.9	114.2	37,700	44.7	118.0	36,300 b	85
88	23.6	101.1	37,400	33.5	109.8	36,100	41.0	114.6	34,800 b	88
90	19.6	96.7	36,300	30.6	106.9	35,000	38.6	112.3	33,800	90
94	2.5	76.3	34,100	23.1	98.6	33,100	32.8	106.6	31,900	94
95				21.3	96.6	32,600	31.4	105.2	31,500	95
99				8.5	81.5	30,800	24.2	97.3	29,800	99
100							22.4	95.3	29,400	100
105							4.9	74.7	27,400	105

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



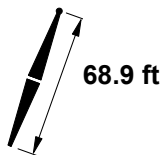
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
31	74.7	153.1	99,400 d							31
32	73.9	152.8	99,400 d							32
34	72.4	152.2	97,200 d							34
36	70.9	151.5	93,300 c							36
38	69.4	150.8	89,700 c							38
40	67.9	150.0	86,400 c							40
41	67.1	149.6	84,800 c	70.8	150.9	91,300 c				41
42	66.3	149.2	83,100 c	70.0	150.5	89,600 c				42
44	64.7	148.3	80,200 c	68.5	149.8	86,200 c				44
46	63.2	147.3	77,400 b	66.9	149.0	83,100 c				46
48	61.5	146.3	74,800 b	65.4	148.1	80,100 c				48
49	60.7	145.7	73,500 b	64.6	147.6	78,800 c	67.4	148.5	81,000 c	49
50	59.9	145.1	72,300 b	63.8	147.1	77,400 b	66.6	148.1	78,900 c	50
55	55.7	142.0	63,900 b	59.7	144.4	71,100 b	62.6	145.7	69,800 b	55
60	51.2	138.3	56,100	55.5	141.3	63,800 b	58.5	142.9	62,500 b	60
61	50.2	137.4	54,800	54.6	140.5	62,600 b	57.7	142.3	61,300 b	61
65	46.4	133.9	49,800	51.0	137.5	57,700	54.2	139.6	56,500 b	65
70	41.3	128.7	44,700	46.2	133.1	52,500	49.7	135.7	51,400	70
73	37.8	124.9	42,100	43.1	130.0	49,900	46.7	132.9	48,900	73
75	35.5	122.4	40,300	41.0	127.9	48,200	44.8	131.1	47,200	75
80	28.8	114.4	36,500	35.2	121.5	43,700	39.4	125.5	43,500	80
84	21.8	105.6	33,900	29.8	115.1	40,200	34.6	120.1	40,900	84
85	20.1	103.4	33,200	28.4	113.5	39,300	33.4	118.8	40,200	85
89	8.4	87.6	30,600	21.4	104.5	36,200	27.6	111.8	38,000	89
90				19.7	102.2	35,400	26.2	110.0	37,400	90
94				7.4	85.6	32,300	18.3	99.7	35,400	94
95							16.3	97.2	34,800	95
98							4.3	80.6	33,100	98
100										100
104										104
105										105
109										109
110										110
115										115

# MLC150-1 S-2

ASME B30.5



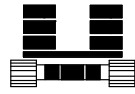
110,500 lb  
+  
35,000 lb



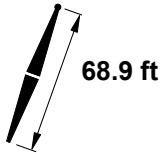
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
31										31
32										32
34										34
36										36
38										38
40										40
41										41
42										42
44										44
46										46
48										48
49										49
50										50
55										55
60										60
61	62.5	144.2	59,000 b							61
65	59.2	141.9	54,400 b							65
70	55.0	138.7	49,600 b							70
73	52.3	136.4	47,100 b	57.3	138.5	45,300 b				73
75	50.5	134.9	45,500	55.6	137.2	43,800 b				75
80	45.6	130.4	41,900	51.1	133.5	40,400				80
84	41.4	126.1	39,400	47.3	129.9	38,000	52.5	132.1	36,500 b	84
85	40.4	125.0	38,800	46.3	129.1	37,400	51.6	131.4	36,000	85
89	35.7	119.8	36,600	42.2	124.9	35,300	47.8	127.9	33,900	89
90	34.5	118.5	36,100	41.2	123.8	34,700	46.8	127.1	33,400	90
94	28.9	111.9	34,100	36.5	118.8	32,900	42.7	122.9	31,600	94
95	27.5	110.2	33,600	35.4	117.5	32,400	41.7	121.9	31,200	95
98	22.0	103.1	32,300	31.3	112.7	31,200	38.3	118.2	30,000	98
100	18.4	98.4	31,400	28.6	109.5	30,300	36.0	115.7	29,200	100
104	2.3	76.5	29,700	21.6	100.6	28,800	30.7	109.5	27,700	104
105				19.9	98.4	28,400	29.3	107.9	27,400	105
109				7.9	82.2	26,900	22.6	99.4	26,000	109
110							20.9	97.2	25,700	110
115							4.6	75.1	24,100	115

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



68.9 ft



90.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
34	74.4	162.6	89,900 d							34
36	73.1	162.0	89,700 c							36
38	71.8	161.4	87,100 c							38
40	70.4	160.7	83,900 c							40
42	69.1	160.0	81,000 c							42
44	67.7	159.2	78,200 c	71.0	160.4	83,900 c				44
46	66.3	158.4	75,500 b	69.6	159.7	81,000 c				46
48	64.9	157.4	73,000 b	68.3	158.9	78,200 c				48
50	63.5	156.5	70,700 b	66.9	158.1	75,600 b				50
52	62.1	155.4	68,300 b	65.5	157.2	73,200 b	68.0	158.1	74,800 c	52
55	59.9	153.8	64,800 b	63.4	155.8	69,600 b	65.9	156.8	69,600 b	55
60	56.2	150.7	56,800	59.8	153.1	63,600 b	62.3	154.4	62,300 b	60
65	52.2	147.1	50,400	56.0	150.0	57,500	58.7	151.6	56,300 b	65
70	48.1	142.9	45,300	52.1	146.3	52,400	54.9	148.3	51,200	70
75	43.6	138.0	41,000	47.9	142.1	48,000	50.9	144.5	47,000	75
78	40.7	134.6	38,700	45.2	139.2	45,800	48.3	141.9	44,800	78
80	38.8	132.3	37,300	43.5	137.2	44,300	46.7	140.1	43,300	80
85	33.4	125.5	34,100	38.6	131.5	40,600	42.1	135.0	40,100	85
90	27.1	116.9	31,300	33.2	124.6	36,900	37.1	129.0	37,300	90
95	18.9	105.1	28,700	26.8	115.9	33,600	31.5	121.7	34,800	95
99	7.9	88.4	26,600	20.2	106.3	31,200	26.0	114.1	33,000	99
100				18.5	103.9	30,600	24.7	112.3	32,600	100
104				6.9	86.2	28,100	17.2	101.3	30,900	104
105							15.4	98.6	30,500	105
108							4.0	81.0	28,900	108
110										110
114										114
115										115
119										119
120										120
125										125

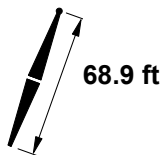


# MLC150-1 S-2

ASME B30.5



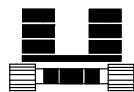
110,500 lb  
+  
35,000 lb



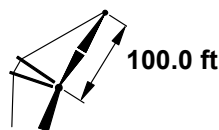
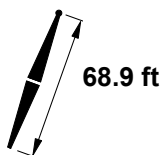
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
34										34
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
52										52
55										55
60										60
65	63.0	153.4	54,200 b							65
70	59.3	150.6	49,400 b							70
75	55.5	147.4	45,300							75
78	53.2	145.2	43,100	57.6	147.2	41,400 b				78
80	51.6	143.7	41,700	56.1	145.9	40,100				80
85	47.4	139.4	38,600	52.1	142.3	37,200				85
90	42.9	134.5	35,900	48.0	138.1	34,600	52.5	140.2	33,200	90
95	38.0	128.6	33,500	43.5	133.2	32,200	48.4	136.0	31,000	95
99	33.6	122.9	31,800	39.7	128.6	30,600	44.9	132.2	29,400	99
100	32.5	121.5	31,400	38.7	127.5	30,200	44.0	131.2	29,000	100
104	27.2	114.4	29,800	34.4	122.0	28,700	40.2	126.7	27,600	104
105	25.9	112.6	29,400	33.3	120.6	28,300	39.2	125.6	27,200	105
108	20.8	105.0	28,400	29.5	115.4	27,300	36.0	121.5	26,200	108
110	17.3	100.0	27,600	26.9	112.0	26,600	33.9	118.8	25,600	110
114	2.2	76.7	26,200	20.4	102.5	25,400	28.9	112.1	24,400	114
115				18.7	100.1	25,100	27.6	110.4	24,100	115
119				7.5	82.9	23,800	21.3	101.3	23,000	119
120							19.7	99.0	22,700	120
125							4.3	75.5	21,400	125

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



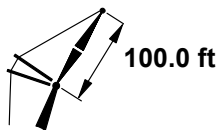
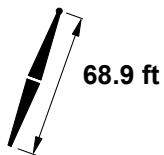
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
36	74.9	172.5	81,300 c							36
38	73.7	171.9	80,100 c							38
40	72.5	171.3	78,600 c							40
42	71.3	170.6	77,100 c							42
44	70.0	169.9	75,300 c							44
46	68.8	169.2	73,000 b							46
48	67.6	168.4	70,600 b	70.5	169.6	75,400 c				48
50	66.3	167.5	68,400 b	69.3	168.9	73,000 b				50
55	63.2	165.2	63,500 b	66.2	166.9	67,500 b				55
56	62.5	164.6	62,400 b	65.6	166.4	66,500 b	67.8	167.3	67,700 b	56
60	59.9	162.5	58,300	63.0	164.5	62,600 b	65.3	165.6	61,900 b	60
65	56.5	159.4	51,600	59.8	161.8	57,200	62.1	163.1	56,000 b	65
70	53.0	155.8	46,300	56.4	158.6	52,100	58.8	160.3	50,900	70
75	49.4	151.8	41,800	52.9	155.1	47,800	55.4	157.0	46,700	75
80	45.5	147.2	38,000	49.2	151.1	44,000	51.8	153.3	43,000	80
83	43.0	144.0	36,000	46.9	148.3	42,100	49.6	150.8	41,100	83
85	41.3	141.9	34,800	45.3	146.4	40,800	48.1	149.1	39,800	85
90	36.7	135.7	31,900	41.1	141.1	37,900	44.1	144.3	37,000	90
95	31.6	128.4	29,400	36.5	134.9	34,800	39.8	138.8	34,600	95
96	30.4	126.6	29,000	35.5	133.4	34,200	38.9	137.5	34,100	96
100	25.7	119.2	27,200	31.4	127.5	31,900	35.1	132.3	32,300	100
105	17.9	106.7	25,100	25.4	118.2	29,200	29.8	124.4	30,400	105
109	7.5	89.0	23,300	19.1	108.1	27,300	24.7	116.4	28,900	109
110				17.6	105.5	26,800	23.4	114.4	28,500	110
114				6.6	86.8	24,700	16.3	102.8	27,200	114
115							14.6	99.9	26,900	115
118							3.8	81.3	25,500	118
120										120
124										124
125										125
129										129
130										130
135										135

# MLC150-1 S-2

ASME B30.5



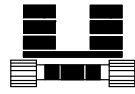
110,500 lb  
+  
35,000 lb



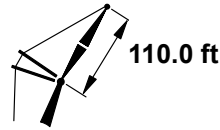
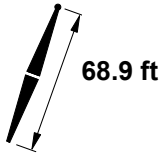
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
56										56
60										60
65										65
70	62.7	162.0	49,000 b							70
75	59.4	159.3	44,900							75
80	56.0	156.1	41,400							80
83	53.9	153.9	39,500	57.8	155.9	37,900				83
85	52.5	152.5	38,300	56.5	154.6	36,800				85
90	48.8	148.4	35,600	53.0	151.0	34,200				90
95	44.8	143.7	33,200	49.3	147.0	31,900				95
96	44.0	142.6	32,800	48.5	146.1	31,500	52.6	148.2	30,200	96
100	40.6	138.3	31,100	45.4	142.4	29,900	49.7	144.9	28,700	100
105	36.0	131.9	29,200	41.2	137.1	28,000	45.8	140.4	26,900	105
109	31.8	125.9	27,800	37.6	132.1	26,700	42.5	136.2	25,600	109
110	30.8	124.3	27,400	36.6	130.9	26,300	41.6	135.1	25,300	110
114	25.8	116.7	26,200	32.6	125.0	25,100	38.0	130.3	24,100	114
115	24.6	114.8	25,800	31.5	123.5	24,800	37.1	129.1	23,800	115
118	19.7	106.8	25,000	27.9	118.0	24,000	34.1	124.7	23,000	118
120	16.4	101.4	24,400	25.5	114.3	23,400	32.1	121.8	22,500	120
124	2.1	76.9	23,200	19.3	104.2	22,400	27.4	114.6	21,500	124
125				17.8	101.7	22,100	26.2	112.8	21,200	125
129				7.1	83.5	21,100	20.2	103.1	20,300	129
130							18.7	100.7	20,100	130
135							4.1	75.9	18,900	135

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



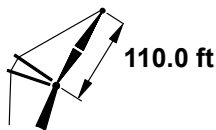
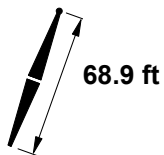
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	lb	ft	ft
39	74.6	182.0	73,500 c							39
40	74.1	181.7	72,900 c							40
42	73.0	181.1	71,800 c							42
44	71.9	180.5	70,600 c							44
46	70.8	179.8	69,500 b							46
48	69.7	179.1	68,500 b							48
50	68.6	178.3	66,700 b							50
51	68.0	177.9	65,700 b	70.7	179.2	69,700 b				51
55	65.8	176.2	62,000 b	68.5	177.7	65,800 b				55
60	62.9	173.8	57,800	65.7	175.6	61,200 b	67.7	176.5	61,800 b	60
65	59.9	171.1	52,000	62.8	173.2	57,100	64.8	174.3	55,800	65
70	56.9	168.0	46,500	59.8	170.4	52,000	61.9	171.8	50,800	70
75	53.7	164.6	42,000	56.7	167.3	47,700	58.9	168.9	46,600	75
80	50.4	160.7	38,200	53.6	163.8	43,900	55.8	165.7	42,900	80
85	46.9	156.3	35,000	50.3	159.9	40,700	52.6	162.1	39,800	85
89	44.0	152.3	32,700	47.5	156.4	38,400	49.9	158.9	37,500	89
90	43.2	151.3	32,200	46.8	155.5	37,900	49.3	158.1	37,000	90
95	39.3	145.6	29,700	43.1	150.5	35,300	45.7	153.5	34,500	95
100	35.0	139.0	27,500	39.1	144.8	32,500	42.0	148.3	32,300	100
102	33.0	135.8	26,700	37.4	142.1	31,500	40.4	145.9	31,500	102
105	30.1	131.1	25,500	34.8	138.1	29,900	37.9	142.3	30,300	105
110	24.5	121.5	23,700	29.9	130.2	27,600	33.5	135.3	28,600	110
115	17.1	108.3	22,000	24.2	120.4	25,500	28.4	127.0	26,900	115
119	7.2	89.7	20,600	18.2	109.7	23,900	23.5	118.5	25,700	119
120				16.7	107.0	23,500	22.3	116.4	25,400	120
124				6.3	87.4	21,800	15.6	104.2	24,300	124
125							13.9	101.1	24,000	125
128							3.6	81.7	22,400	128
130										130
134										134
135										135
139										139
140										140
145										145

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



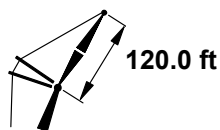
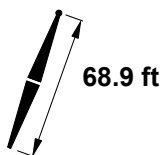
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
39										39
40										40
42										42
44										44
46										46
48										48
50										50
51										51
55										55
60										60
65										65
70										70
75	62.4	170.7	44,800							75
80	59.4	167.9	41,300							80
85	56.4	164.8	38,200							85
89	53.8	162.0	36,100	57.4	163.9	34,600				89
90	53.2	161.3	35,500	56.8	163.2	34,100				90
95	49.9	157.3	33,200	53.6	159.8	31,800				95
100	46.4	152.8	31,100	50.3	155.9	29,800				100
102	44.9	150.8	30,300	48.9	154.1	29,100	52.7	156.2	27,900	102
105	42.6	147.7	29,100	46.8	151.4	28,000	50.7	153.8	26,800	105
110	38.6	141.9	27,400	43.2	146.4	26,300	47.2	149.4	25,200	110
115	34.2	135.1	25,900	39.2	140.7	24,800	43.5	144.5	23,800	115
119	30.3	128.6	24,700	35.7	135.4	23,700	40.4	140.0	22,700	119
120	29.3	127.0	24,400	34.9	134.1	23,400	39.6	138.8	22,500	120
124	24.6	118.9	23,400	31.0	127.8	22,400	36.2	133.6	21,500	124
125	23.4	116.9	23,100	30.0	126.2	22,200	35.3	132.3	21,200	125
128	18.8	108.5	22,400	26.6	120.4	21,500	32.5	127.7	20,600	128
130	15.6	102.8	21,900	24.3	116.5	21,000	30.5	124.6	20,100	130
134	2.0	77.0	20,900	18.4	105.9	20,100	26.1	117.0	19,300	134
135				16.9	103.2	19,900	24.9	115.1	19,100	135
139				6.7	84.1	19,000	19.2	104.9	18,300	139
140							17.8	102.3	18,100	140
145							3.9	76.2	17,100	145

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



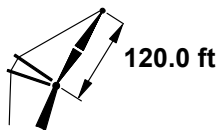
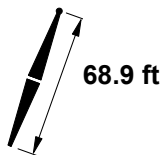
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
41	75.0	191.8	67,100 c							41
42	74.5	191.5	66,500 c							42
44	73.5	191.0	65,400 c							44
46	72.5	190.4	64,400 b							46
48	71.5	189.7	63,300 b							48
50	70.5	189.0	62,300 b							50
54	68.4	187.5	60,300 b	70.9	188.7	62,900 b				54
55	67.9	187.1	59,800 b	70.4	188.4	62,500 b				55
60	65.3	185.0	56,200	67.8	186.5	59,400 b				60
64	63.2	183.0	53,300	65.7	184.7	56,400 b	67.6	185.6	56,700	64
65	62.7	182.5	52,600	65.2	184.3	55,600	67.1	185.2	55,500	65
70	59.9	179.8	47,100	62.5	181.8	51,700	64.4	183.0	50,500	70
75	57.1	176.7	42,500	59.8	179.1	47,400	61.8	180.4	46,300	75
79	54.8	174.0	39,300	57.6	176.6	44,400	59.6	178.1	43,400	79
80	54.2	173.3	38,500	57.0	176.0	43,700	59.0	177.6	42,700	80
85	51.2	169.5	35,300	54.1	172.6	40,400	56.2	174.4	39,500	85
90	48.1	165.2	32,400	51.1	168.8	37,600	53.3	170.9	36,700	90
94	45.5	161.4	30,500	48.6	165.3	35,600	50.8	167.7	34,700	94
95	44.8	160.5	30,000	48.0	164.5	35,100	50.2	166.9	34,200	95
100	41.3	155.1	27,800	44.7	159.7	32,800	47.0	162.5	32,000	100
105	37.6	149.1	25,900	41.2	154.3	30,500	43.7	157.6	30,100	105
108	35.1	144.9	24,800	38.9	150.7	29,100	41.5	154.2	29,000	108
110	33.4	142.1	24,100	37.4	148.2	28,200	40.1	152.0	28,300	110
115	28.8	133.8	22,400	33.3	141.2	26,200	36.2	145.6	26,700	115
120	23.4	123.6	21,000	28.6	132.8	24,300	32.0	138.3	25,200	120
125	16.4	109.7	19,500	23.1	122.5	22,600	27.2	129.5	23,800	125
129	6.9	90.3	18,300	17.4	111.3	21,200	22.5	120.6	22,800	129
130				16.0	108.5	20,900	21.3	118.3	22,600	130
134				6.0	87.9	19,400	14.9	105.5	21,600	134
135							13.3	102.3	21,300	135
138							3.5	82.0	20,000	138
140										140
144										144
145										145
149										149
150										150
155										155

# MLC150-1 S-2

ASME B30.5



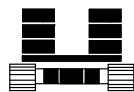
110,500 lb  
+  
35,000 lb



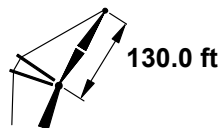
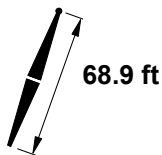
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
41										41
42										42
44										44
46										46
48										48
50										50
54										54
55										55
60										60
64										64
65										65
70										70
75										75
79	62.8	179.9	41,600							79
80	62.2	179.4	41,000							80
85	59.5	176.6	37,900							85
90	56.7	173.5	35,200							90
94	54.3	170.7	33,300	57.6	172.6	31,900				94
95	53.8	170.0	32,900	57.1	171.9	31,500				95
100	50.7	166.1	30,700	54.2	168.5	29,500				100
105	47.6	161.8	28,800	51.2	164.7	27,600				105
108	45.6	158.9	27,800	49.3	162.1	26,700	52.7	164.2	25,500	108
110	44.3	157.0	27,100	48.0	160.4	26,000	51.5	162.6	24,900	110
115	40.7	151.5	25,600	44.7	155.7	24,500	48.4	158.4	23,400	115
120	36.9	145.3	24,200	41.2	150.3	23,100	45.1	153.7	22,100	120
125	32.7	138.1	22,900	37.5	144.2	21,900	41.6	148.4	20,900	125
129	29.0	131.3	21,900	34.2	138.6	20,900	38.6	143.6	20,000	129
130	28.0	129.6	21,700	33.4	137.2	20,700	37.9	142.4	19,800	130
134	23.5	121.1	20,800	29.6	130.5	19,900	34.6	136.8	19,000	134
135	22.4	119.0	20,500	28.7	128.9	19,600	33.8	135.4	18,800	135
138	17.9	110.1	19,900	25.5	122.7	19,000	31.0	130.5	18,200	138
140	15.0	104.2	19,500	23.3	118.6	18,600	29.2	127.3	17,800	140
144	1.9	77.2	18,600	17.6	107.4	17,900	24.9	119.3	17,100	144
145				16.2	104.7	17,700	23.9	117.3	16,900	145
149				6.5	84.7	16,900	18.4	106.5	16,200	149
150							17.0	103.8	16,100	150
155							3.8	76.6	15,200	155

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
44	74.8	201.4	50,800 <b>c</b>							44
46	73.9	200.8	50,300 <b>b</b>							46
48	72.9	200.2	49,900 <b>b</b>							48
50	72.0	199.6	49,500 <b>b</b>							50
55	69.7	197.8	48,500 <b>b</b>							55
57	68.7	197.1	48,100 <b>b</b>	71.0	198.3	49,400 <b>b</b>				57
60	67.3	195.9	47,600	69.6	197.2	48,900 <b>b</b>				60
65	64.9	193.7	46,700	67.2	195.2	48,100				65
67	63.9	192.7	46,200	66.3	194.3	47,700	68.0	195.2	48,200	67
70	62.5	191.2	45,500	64.8	193.0	47,300	66.5	193.9	47,800	70
75	59.9	188.4	43,700	62.3	190.5	45,700	64.1	191.6	46,100	75
80	57.4	185.4	40,200	59.8	187.7	43,400	61.6	189.1	42,400	80
84	55.2	182.7	37,300	57.8	185.3	40,900	59.6	186.8	39,900	84
85	54.7	182.0	36,600	57.2	184.7	40,200	59.1	186.2	39,300	85
90	51.9	178.3	33,500	54.6	181.3	37,400	56.5	183.1	36,500	90
95	49.1	174.2	30,900	51.8	177.6	34,900	53.8	179.6	34,000	95
99	46.7	170.5	29,000	49.5	174.2	33,100	51.6	176.5	32,300	99
100	46.1	169.6	28,600	49.0	173.4	32,600	51.0	175.8	31,800	100
105	43.0	164.5	26,500	46.0	168.8	30,600	48.1	171.5	29,900	105
110	39.6	158.8	24,700	42.8	163.7	28,800	45.1	166.8	28,100	110
114	36.7	153.7	23,400	40.2	159.1	27,500	42.5	162.5	26,800	114
115	36.0	152.4	23,000	39.5	158.0	27,200	41.9	161.5	26,500	115
120	32.1	145.0	21,500	35.9	151.5	25,300	38.5	155.6	25,000	120
125	27.7	136.3	20,200	31.9	144.1	23,500	34.8	148.8	23,700	125
130	22.5	125.6	18,800	27.5	135.3	22,000	30.7	141.1	22,400	130
135	15.7	111.2	17,600	22.2	124.5	20,400	26.1	131.8	21,300	135
139	6.6	90.9	16,500	16.7	112.8	19,200	21.6	122.5	20,400	139
140				15.4	109.8	18,900	20.5	120.2	20,200	140
144				5.8	88.4	17,600	14.3	106.8	19,400	144
145							12.8	103.5	19,200	145
148							3.3	82.3	18,200	148
150										150
154										154
155										155
159										159
160										160
165										165

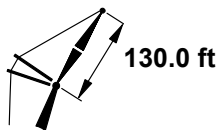
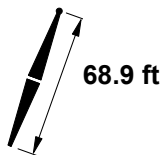


# MLC150-1 S-2

ASME B30.5



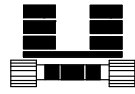
110,500 lb  
+  
35,000 lb



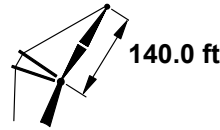
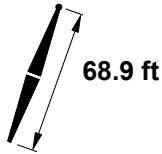
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
44										44
46										46
48										48
50										50
55										55
57										57
60										60
65										65
67										67
70										70
75										75
80										80
84	62.6	188.6	38,300							84
85	62.1	188.0	37,700							85
90	59.5	185.2	35,000							90
95	56.9	182.1	32,600							95
99	54.8	179.4	30,900	57.8	181.2	29,600				99
100	54.3	178.7	30,500	57.3	180.6	29,200				100
105	51.5	174.9	28,600	54.6	177.2	27,400				105
110	48.6	170.8	26,900	51.9	173.5	25,800				110
114	46.2	167.0	25,700	49.6	170.2	24,600	52.7	172.2	23,500	114
115	45.6	166.1	25,400	49.0	169.4	24,300	52.2	171.4	23,200	115
120	42.4	160.9	24,000	46.0	164.8	22,900	49.3	167.3	21,900	120
125	39.1	155.1	22,700	42.9	159.7	21,700	46.3	162.8	20,700	125
130	35.4	148.6	21,500	39.6	154.0	20,500	43.2	157.7	19,600	130
135	31.4	141.0	20,400	36.0	147.5	19,500	39.9	152.1	18,600	135
139	27.8	133.8	19,500	32.8	141.6	18,700	37.0	147.0	17,800	139
140	26.9	132.0	19,300	32.0	140.1	18,500	36.3	145.7	17,600	140
144	22.6	123.1	18,600	28.5	133.1	17,700	33.2	139.9	16,900	144
145	21.5	120.9	18,400	27.6	131.4	17,600	32.4	138.4	16,700	145
148	17.2	111.6	17,800	24.4	124.9	17,000	29.8	133.3	16,200	148
150	14.4	105.5	17,500	22.3	120.6	16,700	28.0	129.8	15,900	150
154	1.8	77.4	16,700	16.9	109.0	16,000	23.9	121.4	15,300	154
155				15.6	106.1	15,900	22.9	119.3	15,100	155
159				6.2	85.2	15,200	17.7	108.1	14,500	159
160							16.4	105.3	14,400	160
165							3.6	76.9	13,600	165

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



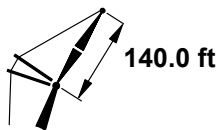
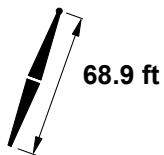
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
47	74.6	210.9	47,000 b							47
48	74.2	210.6	46,800 b							48
50	73.3	210.1	46,500 b							50
55	71.2	208.5	45,600							55
60	69.0	206.6	44,700							60
61	68.6	206.2	44,500	70.7	207.5	45,600				61
65	66.8	204.6	43,500	68.9	206.0	45,000				65
70	64.6	202.4	41,800	66.7	203.9	43,600				70
71	64.1	201.9	41,500	66.3	203.5	43,300	67.9	204.4	44,400	71
75	62.3	199.9	40,100	64.5	201.7	41,900	66.1	202.7	43,000	75
80	59.9	197.1	38,400	62.2	199.2	40,200	63.8	200.3	41,400	80
85	57.5	194.1	36,900	59.8	196.4	38,600	61.5	197.7	39,000	85
88	56.1	192.1	35,100	58.4	194.6	37,600	60.1	196.0	37,300	88
90	55.1	190.7	33,900	57.4	193.3	37,000	59.2	194.9	36,200	90
95	52.6	187.1	31,200	55.0	190.0	34,600	56.7	191.8	33,700	95
100	49.9	183.1	28,800	52.4	186.3	32,400	54.3	188.3	31,500	100
104	47.7	179.5	27,100	50.3	183.1	30,800	52.2	185.3	30,000	104
105	47.2	178.6	26,700	49.8	182.3	30,400	51.7	184.6	29,600	105
110	44.3	173.8	24,900	47.1	177.9	28,500	49.0	180.4	27,800	110
115	41.3	168.4	23,300	44.2	173.0	26,900	46.3	175.9	26,200	115
120	38.1	162.4	21,700	41.2	167.6	25,400	43.4	170.8	24,700	120
125	34.7	155.6	20,300	38.0	161.5	24,000	40.3	165.2	23,400	125
130	30.9	147.8	19,100	34.5	154.7	22,400	37.0	159.0	22,200	130
135	26.6	138.7	17,900	30.7	146.9	20,900	33.5	151.9	21,000	135
140	21.6	127.5	16,800	26.5	137.7	19,500	29.6	143.8	20,000	140
145	15.2	112.5	15,700	21.4	126.4	18,200	25.1	134.1	19,000	145
149	6.4	91.4	14,800	16.1	114.2	17,200	20.8	124.4	18,300	149
150				14.8	111.2	16,900	19.7	122.0	18,100	150
154				5.6	88.9	15,800	13.8	108.0	17,400	154
155							12.3	104.6	17,200	155
158							3.2	82.5	16,300	158
160										160
164										164
165										165
169										169
170										170
175										175

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



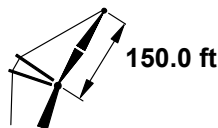
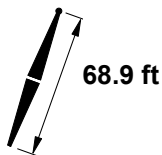
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
47										47
48										48
50										50
55										55
60										60
61										61
65										65
70										70
71										71
75										75
80										80
85										85
88	62.8	197.8	35,700							88
90	61.9	196.7	34,700							90
95	59.6	193.9	32,300							95
100	57.2	190.8	30,200							100
104	55.2	188.1	28,700	58.0	189.9	27,400				104
105	54.7	187.4	28,300	57.5	189.3	27,100				105
110	52.1	183.7	26,600	55.0	185.9	25,400				110
115	49.5	179.7	25,100	52.5	182.3	23,900				115
120	46.8	175.2	23,700	49.9	178.2	22,600	52.8	180.2	21,500	120
125	43.9	170.2	22,400	47.1	173.8	21,300	50.1	176.2	20,300	125
130	40.8	164.7	21,200	44.3	168.9	20,200	47.4	171.8	19,300	130
135	37.6	158.6	20,100	41.3	163.5	19,200	44.6	167.0	18,200	135
140	34.1	151.7	19,100	38.1	157.5	18,200	41.6	161.6	17,300	140
145	30.3	143.7	18,100	34.6	150.7	17,300	38.4	155.6	16,400	145
149	26.8	136.2	17,400	31.6	144.5	16,600	35.6	150.3	15,800	149
150	25.9	134.4	17,200	30.8	142.9	16,400	35.0	148.9	15,600	150
154	21.8	125.1	16,600	27.4	135.6	15,800	32.0	142.8	15,000	154
155	20.7	122.8	16,400	26.6	133.8	15,600	31.2	141.3	14,900	155
158	16.6	113.1	15,900	23.5	127.0	15,200	28.7	135.9	14,400	158
160	13.8	106.7	15,600	21.5	122.6	14,900	27.0	132.3	14,100	160
164	1.8	77.5	14,900	16.3	110.4	14,300	23.1	123.5	13,600	164
165				15.0	107.4	14,200	22.1	121.3	13,500	165
169				6.0	85.8	13,600	17.0	109.6	12,900	169
170							15.8	106.7	12,800	170
175							3.5	77.2	12,100	175

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



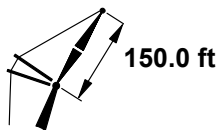
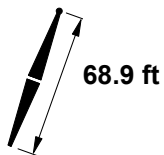
	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
49	74.9	220.7	43,700 b						49	
50	74.5	220.5	43,500 b						50	
55	72.5	219.0	42,600						55	
60	70.5	217.3	41,900						60	
64	68.8	215.8	40,600	70.8	217.0	42,200			64	
65	68.4	215.4	40,300	70.4	216.7	41,900			65	
70	66.4	213.3	38,600	68.4	214.8	40,300			70	
75	64.3	211.0	36,900	66.3	212.7	38,600	67.8	213.5	39,600	75
80	62.1	208.5	35,400	64.2	210.4	37,000	65.7	211.4	38,100	80
85	59.9	205.8	33,900	62.0	207.8	35,500	63.6	209.0	36,600	85
90	57.7	202.7	32,400	59.9	205.1	34,000	61.4	206.4	35,100	90
93	56.3	200.7	31,500	58.5	203.2	33,100	60.1	204.7	34,200	93
95	55.4	199.4	31,000	57.6	202.0	32,500	59.2	203.6	33,600	95
100	53.1	195.8	29,200	55.3	198.7	31,200	57.0	200.4	31,400	100
105	50.6	191.9	27,000	53.0	195.1	29,800	54.7	197.0	29,500	105
110	48.1	187.6	25,200	50.5	191.2	28,400	52.3	193.3	27,700	110
115	45.5	182.9	23,500	48.0	186.8	26,800	49.8	189.3	26,100	115
120	42.8	177.8	22,000	45.4	182.1	25,300	47.3	184.9	24,700	120
125	39.9	172.1	20,600	42.6	177.0	24,000	44.6	180.0	23,300	125
126	39.2	170.8	20,400	42.1	175.8	23,700	44.1	179.0	23,100	126
130	36.8	165.7	19,400	39.7	171.2	22,700	41.8	174.7	22,100	130
135	33.5	158.6	18,200	36.7	164.9	21,400	38.9	168.8	21,000	135
140	29.8	150.5	17,100	33.3	157.7	20,000	35.7	162.3	19,900	140
145	25.7	141.0	16,100	29.7	149.6	18,800	32.3	154.9	18,900	145
150	20.9	129.4	15,100	25.5	140.0	17,600	28.5	146.4	18,000	150
155	14.6	113.8	14,200	20.7	128.3	16,500	24.2	136.3	17,200	155
159	6.2	92.0	13,300	15.6	115.6	15,600	20.1	126.2	16,500	159
160				14.3	112.4	15,300	19.1	123.7	16,400	160
164				5.4	89.4	14,300	13.3	109.2	15,800	164
165							11.9	105.6	15,600	165
168							3.1	82.8	14,900	168
170										170
174										174
175										175
179										179
180										180
185										185

# MLC150-1 S-2

ASME B30.5



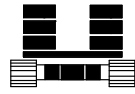
110,500 lb  
+  
35,000 lb



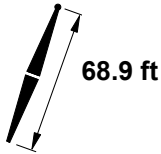
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
49										49
50										50
55										55
60										60
64										64
65										65
70										70
75										75
80										80
85										85
90										90
93	62.6	206.4	33,100							93
95	61.8	205.4	32,200							95
100	59.6	202.6	30,100							100
105	57.4	199.5	28,200							105
110	55.1	196.1	26,500	57.7	197.9	25,300				110
115	52.7	192.5	25,000	55.4	194.6	23,800				115
120	50.2	188.5	23,600	53.0	191.0	22,500				120
125	47.7	184.2	22,300	50.6	187.1	21,200				125
126	47.2	183.2	22,000	50.1	186.2	21,000	52.8	188.2	20,000	126
130	45.1	179.4	21,100	48.1	182.8	20,100	50.8	185.0	19,200	130
135	42.3	174.2	20,000	45.4	178.1	19,100	48.3	180.7	18,100	135
140	39.4	168.4	19,000	42.7	172.9	18,100	45.7	176.1	17,200	140
145	36.3	161.9	18,100	39.8	167.2	17,200	43.0	171.0	16,300	145
150	32.9	154.7	17,200	36.7	160.9	16,400	40.1	165.3	15,500	150
155	29.2	146.4	16,400	33.4	153.8	15,600	37.0	159.1	14,800	155
159	25.8	138.6	15,800	30.5	147.2	15,000	34.4	153.4	14,200	159
160	25.0	136.6	15,600	29.7	145.6	14,800	33.7	152.0	14,100	160
164	21.0	127.0	15,000	26.5	138.0	14,300	30.8	145.6	13,500	164
165	20.0	124.6	14,900	25.6	136.1	14,100	30.1	144.0	13,400	165
168	16.0	114.6	14,400	22.7	129.1	13,700	27.7	138.4	13,000	168
170	13.4	107.9	14,200	20.8	124.4	13,500	26.1	134.6	12,800	170
174	1.7	77.7	13,600	15.7	111.8	13,000	22.3	125.5	12,300	174
175				14.5	108.7	12,800	21.3	123.2	12,200	175
179				5.8	86.3	12,300	16.4	111.1	11,700	179
180							15.2	108.1	11,600	180
185							3.4	77.5	11,000	185

# MLC150-1 S-2

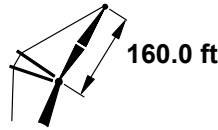
ASME B30.5



110,500 lb  
+  
35,000 lb



68.9 ft



160.0 ft

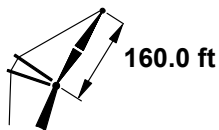
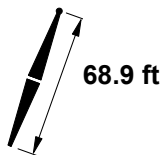
ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
52	74.7	230.3	40,200 b							52
55	73.6	229.4	39,800							55
60	71.7	227.9	38,400							60
65	69.8	226.1	36,800							65
67	69.1	225.3	36,200	70.9	226.5	37,700				67
70	67.9	224.2	35,300	69.8	225.5	36,800				70
75	66.0	222.1	33,700	67.8	223.5	35,300				75
79	64.4	220.2	32,500	66.3	221.8	34,100	67.7	222.7	35,000	79
80	64.0	219.7	32,200	65.9	221.4	33,700	67.3	222.3	34,700	80
85	62.0	217.2	30,700	63.9	219.1	32,300	65.3	220.1	33,300	85
90	59.9	214.4	29,300	61.9	216.5	30,800	63.3	217.7	31,800	90
95	57.9	211.4	27,900	59.9	213.7	29,400	61.3	215.1	30,400	95
97	57.0	210.1	27,400	59.0	212.5	28,800	60.5	213.9	29,800	97
100	55.7	208.1	26,600	57.8	210.7	28,000	59.3	212.2	29,000	100
105	53.5	204.6	25,400	55.6	207.4	26,700	57.2	209.1	27,700	105
110	51.3	200.7	24,200	53.4	203.8	25,500	55.0	205.8	26,400	110
115	48.9	196.5	23,000	51.2	200.0	24,300	52.8	202.1	25,200	115
120	46.5	192.0	21,900	48.8	195.8	23,200	50.5	198.2	24,000	120
125	44.0	187.0	20,700	46.4	191.2	22,100	48.1	193.9	22,900	125
130	41.3	181.6	19,500	43.9	186.2	21,000	45.7	189.2	21,800	130
132	40.2	179.2	19,000	42.8	184.1	20,600	44.7	187.1	21,400	132
135	38.6	175.6	18,300	41.2	180.8	20,000	43.1	184.1	20,700	135
140	35.6	169.0	17,300	38.4	174.8	19,000	40.4	178.5	19,700	140
145	32.4	161.6	16,200	35.5	168.1	18,100	37.6	172.3	18,700	145
150	28.9	153.1	15,300	32.2	160.7	17,300	34.6	165.4	17,800	150
155	24.9	143.3	14,500	28.7	152.2	16,500	31.3	157.7	16,900	155
160	20.2	131.2	13,600	24.7	142.3	15,700	27.6	148.9	16,100	160
165	14.2	115.1	12,700	20.0	130.1	14,800	23.5	138.4	15,400	165
169	6.0	92.5	12,000	15.1	117.0	14,000	19.5	127.9	14,800	169
170				13.9	113.7	13,800	18.5	125.3	14,700	170
174				5.2	89.8	12,900	12.9	110.4	14,000	174
175							11.5	106.6	13,800	175
178							3.0	83.1	13,400	178
180										180
184										184
185										185
189										189
190										190
195										195

# MLC150-1 S-2

ASME B30.5



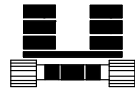
110,500 lb  
+  
35,000 lb



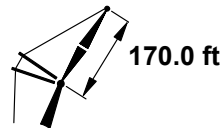
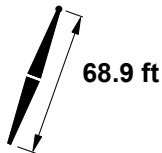
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
52										52
55										55
60										60
65										65
67										67
70										70
75										75
79										79
80										80
85										85
90										90
95										95
97	62.9	215.6	31,000							97
100	61.7	214.0	29,800							100
105	59.6	211.2	27,900							105
110	57.5	208.2	26,200							110
115	55.4	204.9	24,700	57.8	206.6	23,500				115
120	53.2	201.3	23,300	55.7	203.3	22,200				120
125	50.9	197.4	22,000	53.5	199.8	20,900				125
130	48.5	193.1	20,800	51.2	195.9	19,800				130
132	47.6	191.3	20,400	50.3	194.2	19,400	52.8	196.2	18,400	132
135	46.1	188.5	19,700	48.9	191.7	18,700	51.4	193.8	17,800	135
140	43.6	183.5	18,700	46.5	187.2	17,800	49.1	189.7	16,900	140
145	40.9	178.0	17,800	43.9	182.2	16,900	46.7	185.1	16,000	145
150	38.1	171.9	16,900	41.3	176.8	16,100	44.2	180.2	15,200	150
155	35.1	165.2	16,100	38.5	170.8	15,300	41.6	174.8	14,500	155
160	31.8	157.6	15,300	35.5	164.1	14,500	38.8	168.9	13,800	160
165	28.3	149.0	14,600	32.3	156.7	13,900	35.8	162.3	13,100	165
169	25.0	140.8	14,100	29.5	149.9	13,300	33.3	156.5	12,600	169
170	24.2	138.8	13,900	28.8	148.2	13,200	32.6	155.0	12,500	170
174	20.3	128.8	13,400	25.6	140.3	12,700	29.8	148.3	12,000	174
175	19.4	126.3	13,300	24.8	138.3	12,600	29.2	146.6	11,900	175
178	15.5	115.9	12,900	22.0	131.1	12,200	26.8	140.8	11,600	178
180	13.0	109.0	12,700	20.1	126.2	12,000	25.2	136.9	11,300	180
184	1.7	77.8	12,100	15.2	113.2	11,600	21.6	127.4	10,900	184
185				14.0	109.9	11,400	20.6	125.1	10,800	185
189				5.6	86.8	11,000	15.9	112.5	10,400	189
190							14.7	109.4	10,300	190
195							3.3	77.8	9,700	195

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
54	75.0	240.1	35,400						54	
55	74.6	239.8	35,200						55	
60	72.9	238.4	34,600						60	
65	71.1	236.7	33,900						65	
70	69.3	234.9	32,500						70	
71	68.9	234.5	32,200	70.6	235.7	32,800			71	
75	67.5	233.0	31,000	69.2	234.3	32,400			75	
80	65.6	230.8	29,500	67.4	232.3	31,000			80	
82	64.9	229.8	29,000	66.7	231.4	30,400	68.0	232.3	31,000	82
85	63.8	228.4	28,200	65.6	230.1	29,600	66.9	231.0	30,500	85
90	61.9	225.9	26,800	63.7	227.7	28,200	65.0	228.8	29,200	90
95	60.0	223.1	25,500	61.8	225.2	26,900	63.2	226.4	27,800	95
100	58.0	220.1	24,300	59.9	222.4	25,600	61.3	223.7	26,500	100
102	57.2	218.8	23,800	59.1	221.2	25,100	60.5	222.6	26,000	102
105	56.0	216.8	23,100	57.9	219.4	24,400	59.3	220.9	25,200	105
110	53.9	213.3	21,900	55.9	216.1	23,100	57.3	217.8	24,000	110
115	51.8	209.5	20,800	53.8	212.6	22,000	55.3	214.5	22,900	115
120	49.6	205.4	19,800	51.7	208.8	20,900	53.2	210.9	21,700	120
125	47.4	201.0	18,800	49.5	204.7	19,800	51.1	207.0	20,600	125
130	45.0	196.2	17,800	47.3	200.2	18,800	48.9	202.8	19,600	130
135	42.6	191.0	16,900	44.9	195.4	17,800	46.6	198.2	18,600	135
138	41.1	187.6	16,400	43.5	192.3	17,300	45.2	195.3	18,000	138
140	40.1	185.3	16,000	42.5	190.2	16,900	44.3	193.3	17,600	140
145	37.4	179.1	15,200	39.9	184.5	16,000	41.8	188.0	16,700	145
150	34.5	172.2	14,300	37.2	178.2	15,200	39.2	182.1	15,800	150
155	31.4	164.4	13,600	34.4	171.3	14,400	36.4	175.7	15,000	155
160	28.0	155.7	12,600	31.2	163.5	13,600	33.5	168.5	14,200	160
165	24.1	145.4	11,700	27.8	154.7	12,600	30.3	160.5	13,300	165
170	19.6	133.0	10,900	24.0	144.4	11,700	26.8	151.3	12,400	170
175	13.7	116.3	10,100	19.4	131.8	10,900	22.7	140.4	11,500	175
179	5.8	93.0	9,600	14.6	118.3	10,300	18.9	129.6	10,800	179
180				13.4	114.9	10,100	17.9	126.9	10,600	180
184				5.0	90.3	9,600	12.5	111.5	10,000	184
185							11.2	107.6	9,900	185
188							2.9	83.3	9,500	188
190										190
194										194
195										195
199										199
200										200
205										205

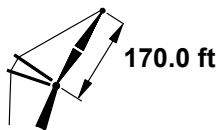
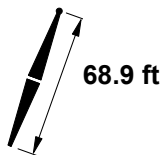


# MLC150-1 S-2

ASME B30.5



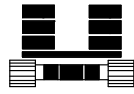
110,500 lb  
+  
35,000 lb



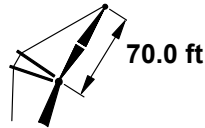
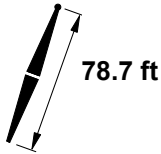
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
54										54
55										55
60										60
65										65
70										70
71										71
75										75
80										80
82										82
85										85
90										90
95										95
100										100
102	62.7	224.3	27,300							102
105	61.6	222.7	26,600							105
110	59.6	219.9	25,300							110
115	57.7	216.8	24,200							115
120	55.7	213.5	23,000	57.9	215.3	21,900				120
125	53.6	210.0	21,700	55.9	212.0	20,700				125
130	51.5	206.2	20,600	53.9	208.5	19,600				130
135	49.3	202.0	19,500	51.8	204.7	18,500				135
138	47.9	199.3	18,900	50.4	202.3	17,900	52.8	204.2	17,000	138
140	47.0	197.5	18,500	49.6	200.6	17,500	52.0	202.6	16,600	140
145	44.7	192.7	17,600	47.3	196.2	16,700	49.8	198.5	15,800	145
150	42.2	187.4	16,700	45.0	191.4	15,800	47.6	194.1	15,000	150
155	39.6	181.6	15,900	42.6	186.2	15,000	45.2	189.4	14,200	155
160	36.9	175.3	15,100	40.0	180.5	14,300	42.8	184.2	13,500	160
165	34.0	168.3	14,400	37.3	174.2	13,600	40.3	178.6	12,900	165
170	30.9	160.4	13,500	34.4	167.3	13,000	37.6	172.4	12,300	170
175	27.4	151.4	12,600	31.3	159.6	12,400	34.7	165.5	11,700	175
179	24.3	143.0	11,900	28.6	152.5	11,900	32.2	159.4	11,200	179
180	23.5	140.9	11,700	27.9	150.8	11,800	31.6	157.9	11,100	180
184	19.7	130.6	11,000	24.8	142.5	11,400	28.9	150.9	10,700	184
185	18.8	128.0	10,800	24.1	140.5	11,300	28.3	149.2	10,600	185
188	15.1	117.3	10,300	21.3	133.0	11,000	26.0	143.1	10,300	188
190	12.6	110.2	10,000	19.5	128.0	10,700	24.5	139.1	10,100	190
194	1.6	78.0	9,600	14.8	114.5	10,300	20.9	129.3	9,700	194
195				13.6	111.2	10,100	20.0	126.9	9,600	195
199				5.4	87.3	9,600	15.4	113.9	9,300	199
200							14.3	110.7	9,200	200
205							3.2	78.1	8,700	205

# MLC150-1 S-2

ASME B30.5



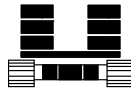
110,500 lb  
+  
35,000 lb



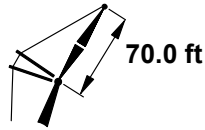
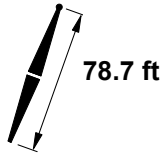
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
29	74.6	153.2	104,800 d							29
30	73.7	153.0	104,800 d							30
32	72.0	152.3	104,800 d							32
34	70.3	151.7	103,900 d							34
36	68.5	150.9	98,200 c							36
38	66.8	150.1	93,100 c							38
39	65.9	149.6	90,900 c	70.7	151.2	103,200 d				39
40	65.0	149.2	88,600 c	69.8	150.8	101,300 d				40
42	63.1	148.2	84,500 c	68.1	150.1	97,600 c				42
44	61.3	147.2	80,800 c	66.3	149.2	94,200 c				44
46	59.4	146.0	77,500 b	64.5	148.3	89,600 c				46
47	58.5	145.4	76,000 b	63.6	147.8	87,200 c	67.3	148.9	85,000 c	47
48	57.5	144.8	74,400 b	62.7	147.3	84,800 c	66.4	148.5	82,700 c	48
50	55.5	143.5	71,700 b	60.8	146.2	80,400 c	64.6	147.6	78,500 c	50
55	50.4	139.7	65,500 b	56.0	143.2	71,200 b	59.9	145.0	69,500 c	55
59	46.0	136.0	61,500 b	51.9	140.2	65,200 b	56.1	142.4	63,700 c	59
60	44.9	135.1	60,500 b	50.9	139.4	63,800 b	55.1	141.8	62,200 b	60
65	38.7	129.5	56,400	45.4	135.0	57,600 b	49.9	138.0	56,200 b	65
70	31.6	122.4	51,200	39.3	129.5	52,500	44.3	133.3	51,200	70
71	29.8	120.5	50,200	37.9	128.1	51,600	43.1	132.2	50,400	71
75	22.6	112.7	46,200	32.3	122.6	48,100	38.1	127.6	47,000	75
80	6.0	93.0	41,400	23.6	113.2	44,300	30.9	120.3	43,300	80
82				17.7	106.3	43,000	27.2	116.3	42,000	82
85				9.0	96.0	40,900	21.6	110.2	40,100	85
89							9.4	95.8	37,700	89
90										90
95										95
96										96
100										100
103										103
105										105
109										109

# MLC150-1 S-2

ASME B30.5



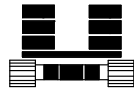
110,500 lb  
+  
35,000 lb



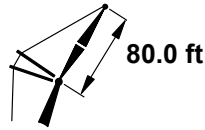
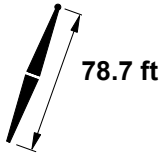
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
29										29
30										30
32										32
34										34
36										36
38										38
39										39
40										40
42										42
44										44
46										46
47										47
48										48
50										50
55										55
59	62.4	144.8	60,900 <b>c</b>							59
60	61.5	144.2	59,700 <b>c</b>							60
65	56.7	141.2	53,900 <b>b</b>							65
70	51.7	137.6	49,100 <b>b</b>							70
71	50.6	136.8	48,300 <b>b</b>	57.3	139.3	46,200 <b>b</b>				71
75	46.3	133.3	45,100 <b>b</b>	53.3	136.5	43,100 <b>b</b>				75
80	40.3	128.0	41,500	48.0	132.4	39,800 <b>b</b>				80
82	37.6	125.3	40,300	45.6	130.4	38,600 <b>b</b>	52.5	133.2	36,900 <b>b</b>	82
85	33.5	121.3	38,500	42.2	127.5	36,800	49.4	130.8	35,200 <b>b</b>	85
89	26.8	114.2	36,300	37.0	122.5	34,800	44.9	127.0	33,300 <b>b</b>	89
90	25.1	112.4	35,700	35.7	121.3	34,200	43.7	126.0	32,800	90
95	12.3	97.7	33,200	27.9	113.2	31,900	37.4	120.2	30,600	95
96	7.6	92.0	32,700	25.7	110.8	31,500	36.0	118.7	30,200	96
100				17.2	101.1	29,800	30.1	112.7	28,600	100
103				3.5	84.7	28,500	24.3	106.3	27,500	103
105							20.5	102.1	26,800	105
109							6.3	85.3	25,300	109

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



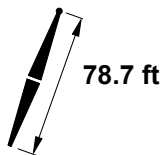
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
32	74.3	162.8	95,900 d							32
34	72.8	162.2	95,800 d							34
36	71.3	161.5	95,700 c							36
38	69.8	160.8	93,400 c							38
40	68.3	160.1	88,800 c							40
42	66.7	159.2	84,600 c	70.9	160.7	94,300 c				42
44	65.2	158.3	80,800 c	69.4	160.0	91,200 c				44
46	63.6	157.4	77,400 b	67.9	159.2	88,200 c				46
48	62.0	156.4	74,300 b	66.3	158.4	84,500 c				48
50	60.3	155.3	71,400 b	64.7	157.5	80,100 c	67.9	158.5	78,100 c	50
55	56.1	152.2	65,200 b	60.7	154.9	70,900 b	64.0	156.3	69,100 b	55
60	51.7	148.5	60,100	56.5	151.8	63,500 b	59.9	153.6	61,900 b	60
63	48.8	145.9	57,500	53.9	149.7	59,800 b	57.4	151.7	58,300 b	63
65	46.9	144.2	55,800	52.1	148.2	57,400	55.7	150.5	55,900 b	65
70	41.8	139.1	52,000	47.4	144.0	52,300	51.3	146.8	51,000	70
75	36.1	132.9	47,200	42.3	139.0	47,900	46.5	142.4	46,700	75
76	34.8	131.4	46,300	41.2	137.8	47,200	45.5	141.4	46,000	76
80	29.5	125.2	43,000	36.7	132.9	44,200	41.3	137.2	43,100	80
85	21.1	114.6	39,300	30.2	125.4	40,900	35.6	130.9	39,900	85
88	11.8	101.9	37,100	25.3	119.2	39,200	31.5	126.2	38,200	88
90	5.6	93.5	35,600	22.1	115.2	38,000	28.9	123.0	37,100	90
95				8.4	96.8	35,300	20.2	112.0	34,500	95
99							8.7	96.6	32,700	99
100										100
105										105
106										106
110										110
113										113
115										115
119										119

# MLC150-1 S-2

ASME B30.5



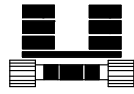
110,500 lb  
+  
35,000 lb



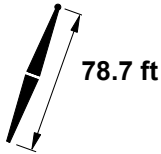
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
32										32
34										34
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
60										60
63	63.0	154.0	55,700 b							63
65	61.3	152.9	53,600 b							65
70	57.2	149.9	48,800 b							70
75	52.8	146.4	44,700 b							75
76	51.9	145.6	44,000 b	57.6	148.0	42,100 b				76
80	48.1	142.3	41,200	54.1	145.3	39,400 b				80
85	43.1	137.4	38,200	49.6	141.4	36,500				85
88	39.8	133.9	36,600	46.6	138.6	35,000	52.6	141.2	33,300 b	88
90	37.6	131.5	35,500	44.7	136.7	33,900	50.8	139.6	32,400	90
95	31.3	124.2	33,100	39.3	131.2	31,700	46.0	135.2	30,200	95
99	25.0	116.5	31,400	34.5	125.7	30,000	41.8	130.9	28,700	99
100	23.5	114.6	31,000	33.3	124.4	29,600	40.8	129.9	28,300	100
105	11.5	98.7	29,000	26.1	115.6	27,800	34.9	123.4	26,500	105
106	7.1	92.6	28,600	24.1	113.0	27,400	33.6	121.8	26,200	106
110				16.1	102.6	26,000	28.1	115.3	24,900	110
113				3.2	85.0	25,000	22.7	108.4	24,000	113
115							19.1	103.9	23,400	115
119							5.9	85.8	22,300	119

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



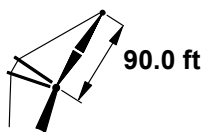
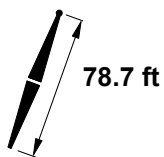
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
34	74.8	172.6	86,300 d							34
36	73.5	172.0	86,100 c							36
38	72.1	171.4	84,900 c							38
40	70.8	170.7	83,400 c							40
42	69.4	170.0	81,900 c							42
44	68.1	169.2	80,400 c							44
46	66.7	168.4	77,800 b	70.4	169.9	83,600 c				46
48	65.3	167.5	74,500 b	69.1	169.2	82,200 c				48
50	63.9	166.6	71,600 b	67.7	168.4	79,800 c				50
54	61.0	164.4	66,500 b	64.9	166.6	72,500 c	67.8	167.7	70,600 c	54
55	60.3	163.9	65,200 b	64.2	166.2	70,700 b	67.1	167.3	68,900 c	55
60	56.5	160.8	60,000	60.6	163.6	63,300 b	63.6	165.0	61,700 b	60
65	52.6	157.3	55,600	56.9	160.5	57,200 b	60.0	162.3	55,700 b	65
68	50.2	154.8	53,400	54.6	158.4	54,100 b	57.7	160.4	52,700 b	68
70	48.5	153.2	52,000	53.0	157.0	52,100	56.2	159.2	50,800	70
75	44.1	148.4	48,300	48.9	153.0	47,800	52.3	155.6	46,500	75
80	39.3	142.8	44,100	44.5	148.3	44,000	48.1	151.4	42,900	80
81	38.3	141.4	43,400	43.6	147.1	43,400	47.2	150.4	42,300	81
85	34.0	136.1	40,500	39.8	142.7	40,800	43.7	146.6	39,700	85
90	27.8	127.7	37,200	34.5	136.1	37,900	38.9	140.9	37,000	90
94	21.5	118.7	34,800	29.7	129.6	35,900	34.6	135.4	35,000	94
95	19.9	116.4	34,200	28.4	128.0	35,400	33.5	134.0	34,500	95
100	5.3	94.0	31,300	20.8	117.1	33,100	27.2	125.5	32,300	100
105				7.9	97.5	31,000	19.1	113.8	30,200	105
109							8.2	97.3	28,700	109
110										110
115										115
116										116
120										120
123										123
125										125
129										129

# MLC150-1 S-2

ASME B30.5



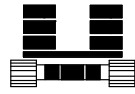
110,500 lb  
+  
35,000 lb



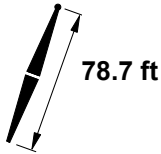
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34										34
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
54										54
55										55
60										60
65										65
68	62.6	162.6	50,400 <b>b</b>							68
70	61.2	161.6	48,600 <b>b</b>							70
75	57.5	158.6	44,500 <b>b</b>							75
80	53.6	155.2	41,000							80
81	52.8	154.4	40,400	57.9	156.7	38,600 <b>b</b>				81
85	49.6	151.2	38,000	54.8	154.0	36,300				85
90	45.2	146.6	35,300	50.8	150.2	33,700				90
94	41.5	142.3	33,400	47.4	146.7	31,900	52.7	149.2	30,400	94
95	40.6	141.2	33,000	46.6	145.8	31,500	51.9	148.4	30,000	95
100	35.4	134.8	30,900	42.0	140.7	29,400	47.7	144.2	28,100	100
105	29.4	126.9	28,900	37.0	134.6	27,600	43.2	139.3	26,300	105
109	23.6	118.6	27,600	32.5	128.7	26,300	39.3	134.6	25,100	109
110	22.1	116.6	27,200	31.3	127.3	26,000	38.4	133.5	24,800	110
115	10.9	99.7	25,600	24.5	117.8	24,500	32.9	126.5	23,300	115
116	6.7	93.2	25,200	22.7	115.0	24,200	31.6	124.7	23,100	116
120				15.2	104.0	23,100	26.5	117.7	22,000	120
123				3.0	85.2	22,200	21.4	110.4	21,300	123
125							18.0	105.5	20,800	125
129							5.5	86.3	19,800	129

# MLC150-1 S-2

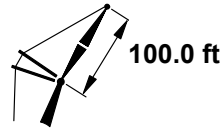
ASME B30.5



110,500 lb  
+  
35,000 lb



78.7 ft



100.0 ft

	87°			83°			80°			
37	74.6	182.1	78,700 c							37
38	74.0	181.9	78,600 c							38
40	72.8	181.3	78,100 c							40
42	71.6	180.6	76,600 c							42
44	70.4	179.9	75,200 c							44
46	69.1	179.2	73,800 b							46
48	67.9	178.4	72,500 b							48
49	67.3	178.0	71,800 b	70.6	179.5	75,900 c				49
50	66.7	177.6	71,200 b	70.0	179.1	75,300 c				50
55	63.5	175.3	65,300 b	67.0	177.1	70,400 b				55
58	61.6	173.6	62,100 b	65.1	175.8	65,900 b	67.6	176.9	64,100 b	58
60	60.3	172.6	59,900	63.8	174.9	63,000 b	66.4	176.0	61,400 b	60
65	56.9	169.5	55,500	60.6	172.2	56,900	63.2	173.7	55,400 b	65
70	53.4	166.0	51,700	57.2	169.2	51,800	60.0	171.0	50,400	70
73	51.2	163.7	49,800	55.1	167.1	49,200	57.9	169.1	47,900	73
75	49.7	162.1	48,500	53.7	165.8	47,500	56.6	167.9	46,200	75
80	45.9	157.5	44,500	50.1	161.8	43,800	53.1	164.3	42,600	80
85	41.7	152.3	40,900	46.3	157.4	40,500	49.4	160.3	39,400	85
87	39.9	149.9	39,600	44.6	155.3	39,400	47.8	158.5	38,300	87
90	37.2	146.3	37,800	42.2	152.2	37,700	45.5	155.7	36,700	90
95	32.2	139.0	34,900	37.7	146.2	35,200	41.4	150.5	34,200	95
100	26.3	130.1	32,400	32.7	139.2	32,900	36.8	144.3	32,000	100
105	18.9	118.1	30,000	27.0	130.4	30,900	31.7	137.0	30,100	105
110	5.0	94.4	27,600	19.7	118.8	29,000	25.8	127.8	28,300	110
115				7.5	98.2	27,300	18.1	115.4	26,600	115
119							7.8	98.0	25,300	119
120										120
125										125
126										126
130										130
133										133
135										135
139										139

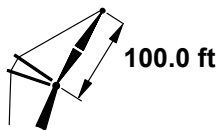
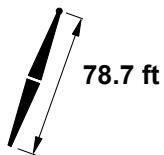


# MLC150-1 S-2

ASME B30.5



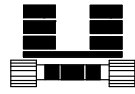
110,500 lb  
+  
35,000 lb



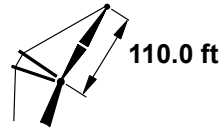
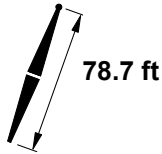
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
37										37
38										38
40										40
42										42
44										44
46										46
48										48
49										49
50										50
55										55
58										58
60										60
65										65
70										70
73	62.4	171.3	45,700 b							73
75	61.1	170.2	44,200							75
80	57.7	167.3	40,700							80
85	54.3	163.9	37,700							85
87	52.8	162.4	36,600	57.4	164.7	34,900				87
90	50.7	160.1	35,000	55.3	162.7	33,400				90
95	46.9	155.7	32,700	51.8	159.0	31,100				95
100	42.8	150.6	30,600	48.0	154.8	29,100	52.7	157.2	27,700	100
105	38.4	144.8	28,700	44.1	150.0	27,300	49.0	153.1	26,000	105
110	33.5	137.9	27,000	39.8	144.4	25,700	45.1	148.5	24,400	110
115	27.9	129.5	25,400	35.0	137.9	24,200	40.9	143.1	23,000	115
119	22.3	120.7	24,300	30.8	131.5	23,100	37.2	138.1	22,000	119
120	21.0	118.5	24,000	29.7	130.0	22,800	36.3	136.8	21,700	120
125	10.3	100.6	22,600	23.3	119.9	21,600	31.2	129.4	20,500	125
126	6.4	93.8	22,300	21.5	117.0	21,300	29.9	127.5	20,300	126
130				14.4	105.3	20,400	25.1	120.0	19,400	130
133				2.9	85.5	19,600	20.3	112.2	18,800	133
135							17.1	107.0	18,300	135
139							5.2	86.8	17,500	139

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



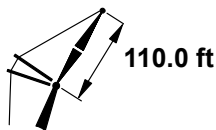
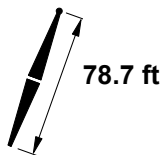
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
39	74.9	192.0	72,200 c							39
40	74.4	191.7	72,100 c							40
42	73.3	191.1	71,000 c							42
44	72.2	190.5	69,900 c							44
46	71.1	189.8	68,800 b							46
48	70.0	189.1	67,800 b							48
50	68.9	188.4	66,700 b							50
52	67.8	187.5	65,800 b	70.8	189.0	69,000 b				52
55	66.1	186.3	64,300 b	69.2	187.9	67,500 b				55
60	63.2	183.9	60,200	66.3	185.9	62,900 b				60
62	62.0	182.8	58,400	65.2	184.9	60,400 b	67.5	186.0	58,700 b	62
65	60.2	181.2	55,600	63.5	183.5	56,800	65.8	184.7	55,300 b	65
70	57.2	178.2	51,700	60.5	180.9	51,700	62.9	182.3	50,300	70
75	54.0	174.8	48,400	57.5	177.9	47,400	60.0	179.6	46,100	75
77	52.7	173.2	46,900	56.2	176.5	45,900	58.7	178.4	44,700	77
80	50.7	170.9	44,800	54.3	174.5	43,700	56.9	176.5	42,500	80
85	47.3	166.6	41,100	51.1	170.7	40,500	53.7	173.1	39,400	85
90	43.6	161.7	38,000	47.6	166.4	37,600	50.4	169.2	36,600	90
92	42.1	159.4	36,900	46.2	164.4	36,600	49.0	167.4	35,600	92
95	39.7	156.0	35,200	44.0	161.5	35,100	47.0	164.8	34,200	95
100	35.4	149.5	32,700	40.1	156.0	32,900	43.3	159.8	32,000	100
105	30.7	141.9	30,500	35.9	149.6	30,900	39.3	154.1	30,000	105
106	29.5	140.0	30,100	34.9	148.1	30,500	38.5	152.8	29,700	106
110	25.1	132.4	28,500	31.2	142.0	29,100	35.0	147.5	28,300	110
115	18.0	119.7	26,600	25.7	132.8	27,400	30.2	139.7	26,700	115
120	4.8	94.9	24,500	18.8	120.5	25,900	24.5	130.1	25,200	120
125				7.2	98.8	24,400	17.2	117.0	23,800	125
129							7.5	98.7	22,700	129
130										130
135										135
136										136
140										140
143										143
145										145
149										149

# MLC150-1 S-2

ASME B30.5



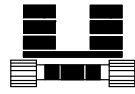
110,500 lb  
+  
35,000 lb



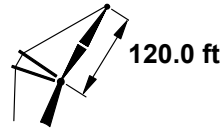
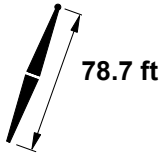
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
39										39
40										40
42										42
44										44
46										46
48										48
50										50
52										52
55										55
60										60
62										62
65										65
70										70
75										75
77	62.7	180.5	42,600							77
80	61.0	178.9	40,600							80
85	57.9	175.9	37,600							85
90	54.8	172.6	34,900							90
92	53.5	171.1	34,000	57.6	173.4	32,400				92
95	51.6	168.9	32,600	55.8	171.4	31,000				95
100	48.2	164.7	30,500	52.6	167.8	29,100				100
105	44.6	159.9	28,600	49.2	163.7	27,300				105
106	43.8	158.8	28,300	48.5	162.8	26,900	52.8	165.2	25,600	106
110	40.7	154.5	26,900	45.7	159.1	25,600	50.1	162.0	24,400	110
115	36.5	148.2	25,400	41.9	153.9	24,200	46.6	157.6	23,000	115
120	31.9	140.8	24,000	37.8	147.9	22,800	42.9	152.5	21,700	120
125	26.6	131.9	22,700	33.4	140.9	21,600	38.9	146.7	20,500	125
129	21.3	122.6	21,700	29.3	134.2	20,700	35.4	141.4	19,600	129
130	20.0	120.3	21,500	28.3	132.6	20,400	34.6	140.0	19,400	130
135	9.8	101.5	20,300	22.2	121.9	19,400	29.7	132.1	18,400	135
136	6.1	94.3	20,100	20.5	118.9	19,200	28.5	130.1	18,200	136
140				13.7	106.5	18,400	23.9	122.2	17,500	140
143				2.8	85.7	17,700	19.3	114.0	16,900	143
145							16.3	108.5	16,600	145
149							5.0	87.2	15,800	149

# MLC150-1 S-2

ASME B30.5



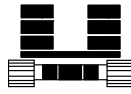
110,500 lb  
+  
35,000 lb



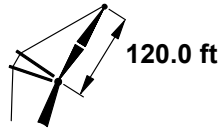
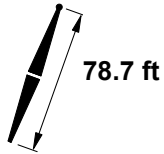
	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
42	74.7	201.5	65,800 c							42
44	73.7	201.0	64,800 c							44
46	72.7	200.3	63,800 b							46
48	71.7	199.7	62,800 b							48
50	70.7	199.0	61,800 b							50
55	68.2	197.2	59,400 b	71.0	198.6	62,200 b				55
60	65.6	195.0	57,100	68.4	196.7	60,000 b				60
65	62.9	192.6	54,900	65.8	194.6	56,500	67.9	195.6	55,000 b	65
70	60.2	189.9	51,800	63.2	192.2	51,400	65.3	193.4	50,000	70
75	57.4	186.9	48,400	60.5	189.5	47,100	62.7	191.0	45,800	75
80	54.5	183.5	45,000	57.7	186.5	43,400	60.0	188.3	42,200	80
82	53.3	182.0	43,600	56.5	185.2	42,100	58.8	187.0	41,000	82
85	51.6	179.7	41,500	54.8	183.2	40,200	57.2	185.2	39,100	85
90	48.4	175.5	38,300	51.8	179.5	37,400	54.3	181.8	36,300	90
95	45.2	170.8	35,500	48.7	175.3	34,900	51.3	178.0	33,900	95
97	43.8	168.7	34,500	47.4	173.5	34,000	50.0	176.3	33,000	97
100	41.7	165.6	33,100	45.5	170.7	32,600	48.1	173.8	31,700	100
105	38.0	159.6	30,900	42.0	165.5	30,600	44.9	169.0	29,800	105
110	33.9	152.7	28,900	38.3	159.5	28,800	41.4	163.7	28,000	110
112	32.1	149.4	28,100	36.7	156.8	28,200	39.9	161.3	27,400	112
115	29.3	144.5	27,100	34.3	152.7	27,200	37.6	157.6	26,400	115
120	24.0	134.6	25,300	29.8	144.7	25,700	33.5	150.6	24,900	120
125	17.2	121.3	23,700	24.6	135.0	24,300	28.9	142.4	23,600	125
130	4.6	95.3	22,000	18.0	122.2	23,000	23.5	132.2	22,300	130
135				6.9	99.4	21,800	16.5	118.4	21,200	135
139							7.1	99.3	20,300	139
140										140
145										145
146										146
150										150
153										153
155										155
159										159

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



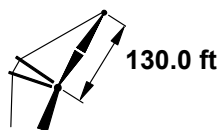
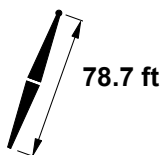
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
42									42	
44									44	
46									46	
48									48	
50									50	
55									55	
60									60	
65									65	
70									70	
75									75	
80									80	
82	62.5	189.2	39,000						82	
85	60.9	187.5	37,200						85	
90	58.1	184.6	34,600						90	
95	55.3	181.3	32,300						95	
97	54.1	179.8	31,400	57.8	182.0	29,900			97	
100	52.3	177.7	30,200	56.1	180.1	28,700			100	
105	49.2	173.6	28,300	53.2	176.5	26,900			105	
110	46.0	169.0	26,600	50.2	172.6	25,300			110	
112	44.6	166.9	26,000	48.9	170.8	24,700	52.8	173.2	23,400	112
115	42.6	163.9	25,100	47.0	168.2	23,800	51.0	170.8	22,600	115
120	38.9	158.1	23,700	43.6	163.2	22,500	47.8	166.6	21,300	120
125	34.9	151.4	22,400	40.0	157.6	21,300	44.5	161.8	20,200	125
130	30.5	143.6	21,200	36.2	151.3	20,200	41.0	156.3	19,100	130
135	25.4	134.2	20,100	31.9	143.9	19,100	37.2	150.2	18,100	135
139	20.4	124.4	19,300	28.0	136.8	18,300	33.9	144.5	17,300	139
140	19.1	122.0	19,100	27.1	135.0	18,100	33.1	143.1	17,200	140
145	9.4	102.3	18,100	21.2	123.9	17,200	28.4	134.7	16,300	145
146	5.8	94.8	17,900	19.6	120.6	17,000	27.3	132.6	16,100	146
150				13.1	107.7	16,300	22.9	124.2	15,500	150
153				2.6	86.0	15,800	18.5	115.6	15,000	153
155							15.6	109.9	14,700	155
159							4.8	87.6	14,100	159

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



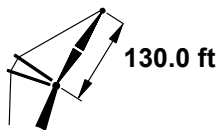
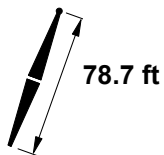
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
45	74.6	211.1	49,700 b							45
46	74.1	210.8	49,600 b							46
48	73.2	210.2	49,100 b							48
50	72.3	209.6	48,700 b							50
55	69.9	207.9	47,800 b							55
59	68.0	206.3	47,100 b	70.6	207.8	48,400 b				59
60	67.6	205.9	46,900	70.2	207.4	48,300 b				60
65	65.2	203.7	46,000	67.8	205.5	47,500				65
69	63.2	201.8	45,300	65.9	203.7	46,900	67.8	204.8	47,400	69
70	62.7	201.3	45,200	65.4	203.3	46,800	67.4	204.4	47,200	70
75	60.2	198.6	43,600	62.9	200.9	45,900	64.9	202.2	45,600	75
80	57.6	195.5	41,900	60.4	198.2	43,200	62.5	199.7	42,000	80
85	55.0	192.2	40,300	57.9	195.2	40,000	60.0	196.9	38,800	85
86	54.4	191.5	40,000	57.3	194.5	39,400	59.4	196.3	38,300	86
90	52.2	188.5	38,500	55.2	191.9	37,100	57.4	193.9	36,100	90
95	49.4	184.4	36,000	52.5	188.3	34,600	54.7	190.5	33,700	95
100	46.4	179.9	33,700	49.7	184.2	32,400	52.0	186.8	31,500	100
103	44.5	176.9	32,400	47.9	181.5	31,200	50.3	184.3	30,300	103
105	43.3	174.9	31,600	46.7	179.7	30,400	49.1	182.7	29,500	105
110	40.0	169.3	29,700	43.6	174.8	28,600	46.1	178.1	27,800	110
115	36.4	162.9	27,700	40.3	169.2	27,000	43.0	173.1	26,200	115
118	34.1	158.5	26,700	38.2	165.4	26,100	41.0	169.6	25,300	118
120	32.5	155.6	26,100	36.8	162.9	25,500	39.7	167.4	24,700	120
125	28.2	147.1	24,400	32.9	155.7	24,100	36.1	160.9	23,400	125
130	23.1	136.7	23,000	28.6	147.3	22,900	32.2	153.6	22,200	130
135	16.5	122.8	21,500	23.6	137.1	21,700	27.7	144.9	21,100	135
140	4.4	95.7	20,000	17.3	123.7	20,600	22.5	134.2	20,000	140
145				6.6	100.0	19,500	15.8	119.9	19,000	145
149							6.9	99.9	18,200	149
150										150
155										155
156										156
160										160
163										163
165										165
169										169

# MLC150-1 S-2

ASME B30.5



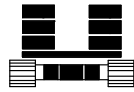
110,500 lb  
+  
35,000 lb



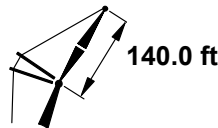
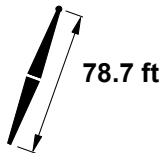
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
46										46
48										48
50										50
55										55
59										59
60										60
65										65
69										69
70										70
75										75
80										80
85										85
86	62.8	198.4	36,400							86
90	60.8	196.2	34,400							90
95	58.3	193.3	32,000							95
100	55.6	190.0	30,000							100
103	54.0	187.9	28,800	57.5	190.1	27,400				103
105	52.9	186.4	28,100	56.4	188.8	26,700				105
110	50.1	182.4	26,400	53.8	185.3	25,100				110
115	47.2	178.0	24,900	51.0	181.4	23,600				115
118	45.3	175.1	24,100	49.2	178.9	22,800	52.8	181.2	21,600	118
120	44.1	173.1	23,500	48.1	177.2	22,300	51.7	179.6	21,100	120
125	40.8	167.7	22,200	45.0	172.4	21,100	48.8	175.5	19,900	125
130	37.3	161.5	21,100	41.8	167.1	19,900	45.8	170.9	18,900	130
135	33.5	154.5	20,000	38.4	161.2	18,900	42.7	165.7	17,900	135
140	29.3	146.3	19,000	34.7	154.5	17,900	39.3	160.0	16,900	140
145	24.4	136.4	18,000	30.6	146.7	17,100	35.7	153.5	16,100	145
149	19.6	126.2	17,300	26.9	139.2	16,400	32.5	147.5	15,500	149
150	18.4	123.6	17,100	26.0	137.4	16,200	31.7	146.0	15,300	150
155	9.0	103.1	16,300	20.4	125.7	15,400	27.2	137.1	14,600	155
156	5.6	95.3	16,100	18.8	122.3	15,300	26.2	134.9	14,400	156
160				12.6	108.8	14,700	21.9	126.2	13,800	160
163				2.5	86.2	14,200	17.8	117.2	13,400	163
165							15.0	111.2	13,200	165
169							4.6	88.0	12,600	169

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
47	74.8	220.9	46,300 b							47
48	74.4	220.6	46,000 b							48
50	73.6	220.0	45,700 b							50
55	71.4	218.5	44,900 b							55
60	69.2	216.7	44,000							60
62	68.4	215.9	43,700	70.8	217.3	44,900				62
65	67.0	214.7	43,300	69.5	216.2	44,500				65
70	64.8	212.4	41,700	67.3	214.2	43,700				70
73	63.4	210.9	40,700	65.9	212.9	42,700	67.7	213.9	43,700	73
75	62.5	210.0	40,000	65.0	212.0	42,000	66.8	213.1	43,200	75
80	60.2	207.2	38,400	62.7	209.6	40,400	64.6	210.9	41,700	80
85	57.8	204.2	36,900	60.4	206.9	38,800	62.3	208.4	38,500	85
90	55.3	200.9	35,300	58.0	203.9	36,900	60.0	205.6	35,800	90
91	54.8	200.2	35,000	57.5	203.2	36,400	59.5	205.0	35,300	91
95	52.8	197.3	33,900	55.6	200.6	34,400	57.6	202.6	33,400	95
100	50.2	193.3	32,600	53.1	197.0	32,100	55.1	199.2	31,200	100
105	47.5	188.9	31,300	50.5	193.1	30,200	52.6	195.6	29,300	105
108	45.8	186.0	30,200	48.8	190.5	29,100	51.0	193.2	28,200	108
110	44.6	184.1	29,500	47.7	188.7	28,400	50.0	191.6	27,500	110
115	41.6	178.8	27,800	44.9	184.0	26,700	47.2	187.2	25,900	115
120	38.5	172.8	26,300	41.9	178.7	25,200	44.4	182.3	24,500	120
124	35.7	167.5	25,000	39.4	174.0	24,100	42.0	178.0	23,400	124
125	35.0	166.1	24,700	38.8	172.8	23,900	41.4	176.9	23,100	125
130	31.3	158.5	23,300	35.4	166.2	22,600	38.2	170.9	21,900	130
135	27.1	149.5	21,900	31.7	158.6	21,500	34.7	164.1	20,800	135
140	22.2	138.7	20,700	27.5	149.8	20,400	31.0	156.4	19,700	140
145	15.9	124.2	19,500	22.7	139.2	19,400	26.7	147.3	18,800	145
150	4.2	96.0	17,900	16.6	125.2	18,400	21.7	136.2	17,900	150
155				6.3	100.6	17,500	15.3	121.2	17,000	155
159							6.6	100.5	16,300	159
160										160
165										165
166										166
170										170
173										173
175										175
179										179

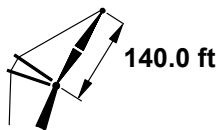
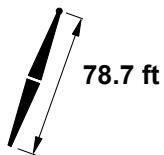


# MLC150-1 S-2

ASME B30.5



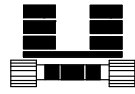
110,500 lb  
+  
35,000 lb



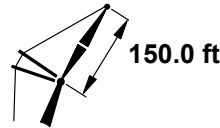
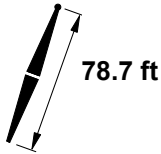
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
47										47
48										48
50										50
55										55
60										60
62										62
65										65
70										70
73										73
75										75
80										80
85										85
90										90
91	62.6	207.0	33,500							91
95	60.8	204.9	31,700							95
100	58.4	201.9	29,600							100
105	56.0	198.7	27,800							105
108	54.4	196.6	26,800	57.7	198.7	25,300				108
110	53.4	195.2	26,100	56.7	197.5	24,700				110
115	50.9	191.3	24,600	54.2	194.0	23,300				115
120	48.2	187.0	23,200	51.7	190.2	21,900				120
124	45.9	183.3	22,200	49.5	186.9	21,000	52.8	189.2	19,800	124
125	45.4	182.3	21,900	49.0	186.1	20,700	52.3	188.4	19,600	125
130	42.4	177.1	20,800	46.2	181.5	19,600	49.7	184.4	18,500	130
135	39.3	171.3	19,700	43.3	176.5	18,600	46.9	179.9	17,500	135
140	35.9	164.8	18,700	40.2	170.9	17,600	44.1	175.0	16,600	140
145	32.3	157.4	17,800	37.0	164.6	16,700	41.1	169.6	15,800	145
150	28.2	148.9	16,900	33.4	157.5	15,900	37.8	163.5	15,000	150
155	23.5	138.5	16,100	29.5	149.3	15,100	34.4	156.6	14,200	155
159	18.8	127.9	15,500	25.9	141.6	14,600	31.3	150.3	13,700	159
160	17.7	125.2	15,300	25.0	139.6	14,400	30.5	148.8	13,600	160
165	8.7	103.9	14,500	19.6	127.5	13,700	26.2	139.5	12,900	165
166	5.4	95.8	14,400	18.1	123.9	13,600	25.2	137.2	12,800	166
170				12.1	109.9	13,100	21.1	128.1	12,300	170
173				2.4	86.4	12,600	17.1	118.8	11,900	173
175							14.4	112.5	11,700	175
179							4.4	88.4	11,200	179

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



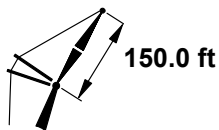
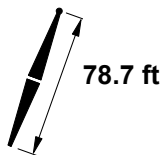
	87°			83°			80°			
50	74.7	230.4	42,800 b							50
55	72.7	229.0	42,000							55
60	70.7	227.3	41,200							60
65	68.6	225.5	40,000	70.9	226.8	41,500				65
70	66.6	223.4	38,500	68.8	225.0	40,300				70
75	64.5	221.1	36,900	66.8	223.0	38,800				75
77	63.6	220.1	36,300	65.9	222.1	38,100	67.6	223.1	39,300	77
80	62.4	218.6	35,300	64.7	220.7	37,200	66.4	221.8	38,300	80
85	60.2	215.9	33,900	62.6	218.2	35,700	64.3	219.5	36,900	85
90	57.9	212.9	32,400	60.4	215.5	34,200	62.2	217.0	35,400	90
95	55.7	209.6	31,100	58.2	212.5	32,800	60.0	214.3	33,200	95
100	53.3	206.0	29,700	55.9	209.3	31,400	57.7	211.2	31,100	100
105	50.9	202.1	28,400	53.5	205.8	30,000	55.5	207.9	29,100	105
110	48.4	197.9	27,200	51.1	201.9	28,300	53.1	204.3	27,400	110
113	46.8	195.1	26,500	49.6	199.4	27,300	51.6	202.0	26,400	113
115	45.8	193.2	26,100	48.6	197.7	26,600	50.7	200.4	25,800	115
120	43.1	188.1	24,900	46.0	193.1	25,100	48.2	196.1	24,400	120
125	40.2	182.5	23,900	43.3	188.0	23,800	45.5	191.4	23,000	125
130	37.1	176.3	22,900	40.5	182.4	22,500	42.8	186.3	21,800	130
135	33.8	169.2	21,900	37.4	176.3	21,400	39.9	180.6	20,700	135
140	30.2	161.2	21,100	34.1	169.3	20,300	36.8	174.3	19,700	140
145	26.2	151.9	19,900	30.6	161.4	19,300	33.5	167.2	18,700	145
150	21.4	140.6	18,800	26.6	152.2	18,400	29.9	159.1	17,800	150
155	15.4	125.6	17,800	21.9	141.1	17,500	25.8	149.6	17,000	155
160	4.1	96.4	16,100	16.1	126.6	16,700	21.0	138.1	16,200	160
165				6.1	101.1	15,900	14.7	122.5	15,400	165
169							6.4	101.1	14,800	169
170										170
175										175
176										176
180										180
183										183
185										185
189										189

# MLC150-1 S-2

ASME B30.5



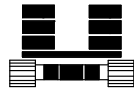
110,500 lb  
+  
35,000 lb



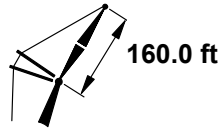
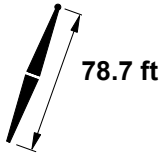
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
77										77
80										80
85										85
90										90
95										95
100	62.9	216.2	31,600							100
105	60.7	213.5	29,500							105
110	58.5	210.6	27,700							110
110	56.2	207.4	26,000							110
113	54.8	205.3	25,100	57.8	207.4	23,700				113
115	53.9	203.9	24,500	56.9	206.1	23,200				115
120	51.5	200.1	23,100	54.6	202.7	21,800				120
125	49.0	195.9	21,800	52.2	199.0	20,600				125
130	46.4	191.4	20,700	49.8	195.0	19,500	52.9	197.2	18,400	130
135	43.7	186.4	19,600	47.2	190.6	18,500	50.4	193.2	17,400	135
140	40.9	180.9	18,600	44.6	185.7	17,500	47.9	188.9	16,500	140
145	37.9	174.8	17,700	41.8	180.4	16,700	45.3	184.2	15,700	145
150	34.7	168.0	16,800	38.8	174.5	15,800	42.5	179.0	14,900	150
155	31.1	160.3	16,000	35.7	167.9	15,100	39.6	173.2	14,200	155
160	27.2	151.3	15,300	32.2	160.5	14,400	36.5	166.9	13,500	160
165	22.7	140.6	14,500	28.5	151.9	13,700	33.2	159.7	12,800	165
169	18.2	129.5	14,000	25.0	143.8	13,200	30.2	153.1	12,300	169
170	17.1	126.8	13,900	24.2	141.8	13,000	29.5	151.4	12,200	170
175	8.4	104.7	13,200	19.0	129.2	12,400	25.3	141.8	11,600	175
176	5.2	96.3	13,100	17.5	125.5	12,300	24.3	139.4	11,500	176
180				11.7	110.9	11,800	20.4	129.9	11,100	180
183				2.4	86.6	11,400	16.5	120.2	10,800	183
185							13.9	113.8	10,600	185
189							4.3	88.8	10,100	189

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



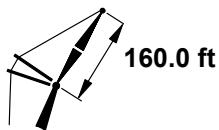
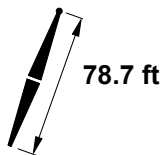
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
52	74.9	240.2	39,600 b							52
55	73.8	239.4	39,100							55
60	71.9	237.9	38,200							60
65	70.0	236.1	36,700							65
68	68.9	235.0	35,800	71.0	236.4	37,000				68
70	68.1	234.2	35,200	70.2	235.7	36,800				70
75	66.2	232.1	33,600	68.3	233.8	35,400				75
80	64.2	229.8	32,100	66.4	231.7	33,900	68.0	232.7	34,900	80
85	62.2	227.3	30,700	64.4	229.4	32,500	66.0	230.6	33,500	85
90	60.2	224.5	29,400	62.4	226.9	31,000	64.0	228.2	32,200	90
95	58.1	221.5	28,000	60.4	224.2	29,700	62.0	225.7	30,700	95
100	55.9	218.3	26,700	58.3	221.2	28,300	60.0	222.9	29,400	100
105	53.7	214.8	25,500	56.1	218.0	27,000	57.9	219.9	28,100	105
110	51.5	211.0	24,300	54.0	214.5	25,800	55.7	216.6	26,900	110
115	49.2	206.8	23,200	51.7	210.7	24,600	53.5	213.1	25,500	115
118	47.7	204.1	22,500	50.3	208.2	23,900	52.2	210.8	24,700	118
120	46.8	202.3	22,100	49.4	206.6	23,400	51.3	209.2	24,100	120
125	44.2	197.4	21,000	47.0	202.1	22,300	49.0	205.1	22,800	125
130	41.6	192.0	20,000	44.5	197.2	21,300	46.5	200.5	21,600	130
135	38.8	186.1	19,100	41.9	191.9	20,300	44.0	195.6	20,400	135
136	38.3	184.8	18,900	41.3	190.7	20,100	43.5	194.5	20,200	136
140	35.9	179.6	18,200	39.1	186.1	19,300	41.4	190.1	19,400	140
145	32.7	172.2	17,300	36.2	179.6	18,400	38.6	184.2	18,400	145
150	29.2	163.9	16,500	33.0	172.3	17,500	35.6	177.6	17,600	150
155	25.3	154.2	15,700	29.6	164.1	16,700	32.4	170.2	16,700	155
160	20.8	142.4	15,000	25.7	154.6	16,000	28.9	161.7	15,900	160
165	14.9	126.9	14,100	21.2	143.1	15,200	25.0	151.9	15,200	165
170	3.9	96.8	13,400	15.6	128.0	14,200	20.3	139.9	14,500	170
175				5.9	101.7	13,500	14.3	123.8	13,800	175
179							6.2	101.6	13,300	179
180										180
185										185
186										186
190										190
193										193
195										195
199										199

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



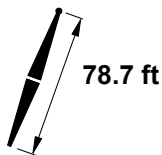
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	lb		
52									52	
55									55	
60									60	
65									65	
68									68	
70									70	
75									75	
80									80	
85									85	
90									90	
95									95	
100	62.7	224.9	29,200						100	
105	60.7	222.2	27,300						105	
110	58.6	219.3	25,700						110	
115	56.5	216.1	24,200						115	
118	55.2	214.0	23,300	58.0	216.1	22,000			118	
120	54.3	212.6	22,800	57.1	214.8	21,500			120	
125	52.1	208.9	21,500	55.0	211.4	20,300			125	
130	49.8	204.8	20,400	52.7	207.8	19,200			130	
135	47.4	200.4	19,300	50.5	203.8	18,200			135	
136	46.9	199.4	19,100	50.0	203.0	18,000	52.9	205.2	16,900	136
140	44.9	195.6	18,300	48.1	199.5	17,200	51.1	202.1	16,200	140
145	42.3	190.3	17,400	45.6	194.8	16,300	48.7	197.9	15,300	145
150	39.5	184.6	16,500	43.1	189.7	15,500	46.3	193.3	14,600	150
155	36.6	178.2	15,700	40.4	184.1	14,800	43.8	188.3	13,800	155
160	33.5	171.1	15,000	37.5	177.9	14,100	41.1	182.8	13,200	160
165	30.1	163.0	14,300	34.5	171.1	13,400	38.3	176.8	12,500	165
170	26.3	153.7	13,600	31.2	163.3	12,800	35.3	170.1	11,900	170
175	22.0	142.6	13,000	27.5	154.4	12,200	32.1	162.6	11,400	175
179	17.6	131.1	12,500	24.2	146.0	11,700	29.2	155.7	10,900	179
180	16.5	128.2	12,400	23.4	143.9	11,600	28.5	154.0	10,800	180
185	8.2	105.4	11,800	18.3	130.8	11,000	24.5	144.0	10,300	185
186	5.0	96.7	11,700	16.9	127.0	10,900	23.6	141.5	10,200	186
190				11.4	111.9	10,500	19.8	131.7	9,800	190
193				2.3	86.8	10,200	16.0	121.7	9,500	193
195							13.5	115.0	9,300	195
199							4.1	89.2	8,900	199

# MLC150-1 S-2

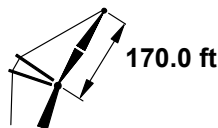
ASME B30.5



110,500 lb  
+  
35,000 lb



78.7 ft



170.0 ft

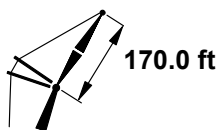
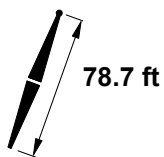
ft	87°			83°			80°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
55	74.8	249.8	34,400						55	
60	73.0	248.4	33,800						60	
65	71.3	246.7	33,100						65	
70	69.5	245.0	32,400						70	
72	68.7	244.2	31,800	70.7	245.6	32,000			72	
75	67.7	243.0	30,900	69.6	244.5	31,700			75	
80	65.8	240.8	29,500	67.8	242.6	31,100			80	
84	64.3	239.0	28,400	66.4	240.8	30,000	67.9	241.9	30,200	84
85	64.0	238.5	28,200	66.0	240.4	29,700	67.5	241.4	30,100	85
90	62.1	236.0	26,900	64.1	238.1	28,400	65.7	239.3	29,400	90
95	60.2	233.2	25,600	62.3	235.6	27,100	63.8	236.9	28,200	95
100	58.2	230.2	24,400	60.3	232.8	25,800	61.9	234.4	26,900	100
104	56.6	227.6	23,400	58.8	230.5	24,900	60.4	232.1	25,900	104
105	56.2	227.0	23,100	58.4	229.9	24,600	60.0	231.6	25,600	105
110	54.1	223.5	22,000	56.4	226.7	23,400	58.0	228.6	24,400	110
115	52.0	219.8	20,900	54.3	223.2	22,200	56.0	225.3	23,200	115
120	49.9	215.7	19,900	52.2	219.5	21,100	53.9	221.8	22,100	120
124	48.1	212.2	19,100	50.5	216.3	20,300	52.3	218.8	21,200	124
125	47.6	211.3	18,900	50.1	215.5	20,000	51.8	218.0	21,000	125
130	45.3	206.5	17,900	47.8	211.1	19,000	49.7	213.9	19,900	130
135	42.9	201.4	17,000	45.5	206.4	18,100	47.4	209.5	18,900	135
140	40.3	195.7	16,100	43.1	201.3	17,100	45.1	204.7	18,000	140
142	39.2	193.3	15,800	42.1	199.0	16,800	44.1	202.7	17,600	142
145	37.6	189.6	15,300	40.6	195.7	16,200	42.6	199.5	17,100	145
150	34.8	182.7	14,500	37.9	189.6	15,400	40.1	193.9	16,200	150
155	31.7	175.1	13,700	35.1	182.8	14,700	37.4	187.6	15,400	155
160	28.3	166.5	12,700	32.0	175.2	13,800	34.5	180.7	14,500	160
165	24.6	156.4	11,800	28.7	166.7	12,800	31.4	173.0	13,600	165
170	20.1	144.2	11,000	24.9	156.8	12,000	28.0	164.3	12,700	170
175	14.5	128.2	10,200	20.6	144.9	11,100	24.2	154.1	11,800	175
180	3.8	97.1	9,500	15.1	129.4	10,300	19.7	141.6	11,000	180
185				5.8	102.2	9,600	13.8	125.0	10,200	185
189							6.0	102.1	9,700	189
190										190
195										195
196										196
200										200
203										203
205										205
209										209

# MLC150-1 S-2

ASME B30.5



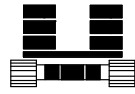
110,500 lb  
+  
35,000 lb



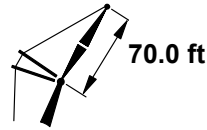
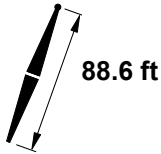
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
72										72
75										75
80										80
84										84
85										85
90										90
95										95
100										100
104	62.9	234.1	27,200							104
105	62.5	233.6	27,000							105
110	60.6	230.9	25,400							110
115	58.7	227.9	23,900							115
120	56.7	224.8	22,500							120
124	55.0	222.0	21,500	57.7	224.1	20,300				124
125	54.6	221.3	21,300	57.3	223.5	20,000				125
130	52.5	217.7	20,100	55.3	220.1	18,900				130
135	50.4	213.7	19,100	53.2	216.5	17,900				135
140	48.2	209.4	18,100	51.1	212.7	17,000				140
142	47.2	207.5	17,700	50.2	211.0	16,600	52.9	213.2	15,600	142
145	45.9	204.7	17,200	48.9	208.5	16,100	51.6	210.9	15,100	145
150	43.5	199.7	16,300	46.6	203.9	15,300	49.4	206.8	14,300	150
155	41.0	194.1	15,500	44.2	199.0	14,500	47.2	202.3	13,600	155
160	38.3	188.1	14,800	41.7	193.6	13,800	44.8	197.5	12,900	160
165	35.5	181.4	14,100	39.1	187.7	13,200	42.4	192.2	12,300	165
170	32.5	174.0	13,400	36.4	181.3	12,500	39.8	186.5	11,700	170
175	29.2	165.7	12,800	33.4	174.1	12,000	37.1	180.2	11,100	175
180	25.5	156.0	12,200	30.2	166.1	11,400	34.2	173.2	10,600	180
185	21.3	144.5	11,300	26.7	156.8	10,900	31.1	165.4	10,100	185
189	17.1	132.6	10,600	23.5	148.1	10,500	28.3	158.3	9,700	189
190	16.0	129.7	10,400	22.7	146.0	10,400	27.7	156.5	9,600	190
195	7.9	106.1	9,800	17.8	132.4	9,900	23.8	146.1	9,200	195
196	4.9	97.1	9,600	16.4	128.5	9,800	22.8	143.6	9,100	196
200				11.0	112.9	9,400	19.2	133.4	8,700	200
203				2.2	87.0	9,100	15.5	123.1	8,500	203
205							13.1	116.1	8,300	205
209							4.0	89.5	7,900	209

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb

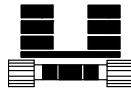


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
30	74.2	162.9	100,800 d							30
32	72.5	162.3	100,700 d							32
34	70.7	161.7	100,700 d							34
36	69.0	160.9	95,700 c							36
38	67.2	160.1	90,800 c							38
40	65.4	159.2	86,500 c	70.9	161.0	101,800 d				40
42	63.6	158.3	82,600 c	69.1	160.3	98,200 d				42
44	61.8	157.3	79,100 c	67.4	159.5	94,400 c				44
46	59.9	156.1	75,900 c	65.6	158.6	89,100 c				46
48	58.0	154.9	73,000 b	63.8	157.7	84,300 c	67.9	158.9	81,900 c	48
50	56.0	153.6	70,200 b	61.9	156.7	79,900 c	66.1	158.1	77,700 c	50
55	50.9	149.9	64,400 b	57.2	153.7	70,700 b	61.5	155.6	68,800 c	55
60	45.5	145.5	59,500 b	52.2	150.2	63,400 b	56.8	152.6	61,600 b	60
61	44.2	144.4	58,700 b	51.1	149.3	62,100 b	55.8	151.9	60,400 b	61
65	39.4	140.0	55,500	46.8	145.9	57,300 b	51.7	149.0	55,700 b	65
70	32.4	133.1	52,100	40.9	140.7	52,200	46.3	144.7	50,700 b	70
74	25.4	125.6	50,000	35.5	135.5	48,700	41.5	140.5	47,400 b	74
75	23.7	123.7	49,500	34.1	134.2	47,800	40.3	139.4	46,500	75
80	9.2	106.7	45,500	26.0	125.5	44,100	33.5	132.7	42,900	80
85				13.9	111.7	40,700	25.2	123.8	39,700	85
86				8.1	104.7	40,000	22.6	120.9	39,100	86
87				2.3	97.7	39,400	20.1	118.0	38,500	87
90							12.4	109.1	36,800	90
91							7.7	103.5	36,200	91
95										95
99										99
100										100
105										105
106										106
110										110
113										113

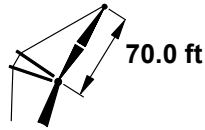
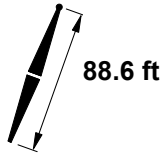


# MLC150-1 S-2

ASME B30.5



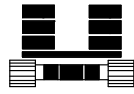
110,500 lb  
+  
35,000 lb



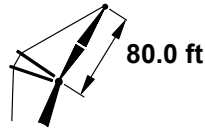
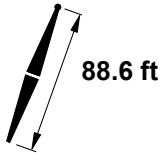
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
30									30	
32									32	
34									34	
36									36	
38									38	
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
55									55	
60									60	
61	63.0	154.6	57,500 <b>c</b>						61	
65	59.2	152.3	53,000 <b>b</b>						65	
70	54.3	149.1	48,300 <b>b</b>						70	
74	50.1	145.9	45,100 <b>b</b>	57.6	148.8	42,800 <b>b</b>			74	
75	49.1	145.1	44,300 <b>b</b>	56.6	148.2	42,100 <b>b</b>			75	
80	43.4	140.3	40,900	51.6	144.5	38,800 <b>b</b>			80	
85	37.1	134.4	37,800	46.1	140.2	36,000 <b>b</b>			85	
86	35.6	132.9	37,300	44.9	139.1	35,500 <b>b</b>	52.7	142.2	33,600 <b>b</b>	86
87	34.1	131.4	36,800	43.7	138.0	35,000 <b>b</b>	51.6	141.4	33,200 <b>b</b>	87
90	29.6	126.8	35,200	40.2	134.8	33,400	48.5	138.9	31,700 <b>b</b>	90
91	27.7	124.7	34,700	38.8	133.5	33,000	47.3	138.0	31,300 <b>b</b>	91
95	19.9	116.0	32,800	33.3	128.1	31,200	42.7	134.0	29,600	95
99	3.9	97.0	30,900	26.6	120.9	29,600	37.6	129.2	28,100	99
100				24.9	119.1	29,200	36.3	128.0	27,700	100
105				11.9	104.1	27,300	28.7	120.1	26,000	105
106				6.8	98.0	26,900	26.6	117.8	25,600	106
110							18.4	108.6	24,400	110
113							7.4	95.5	23,400	113

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



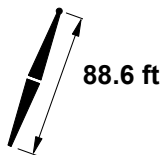
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
32	74.7	172.8	92,400 d							32
34	73.2	172.2	92,300 d							34
36	71.7	171.5	92,200 c							36
38	70.2	170.9	90,800 c							38
40	68.7	170.1	86,300 c							40
42	67.1	169.3	82,400 c							42
44	65.6	168.4	78,800 c	70.3	170.2	91,700 c				44
46	64.0	167.5	75,500 b	68.8	169.5	88,700 c				46
48	62.4	166.5	72,500 b	67.2	168.7	83,900 c				48
50	60.7	165.4	69,800 b	65.7	167.8	79,600 c				50
52	59.1	164.2	67,400 b	64.1	166.8	75,900 c	67.7	168.1	73,500 c	52
55	56.5	162.3	63,800 b	61.7	165.3	70,400 b	65.4	166.8	68,400 c	55
60	52.1	158.7	58,900	57.5	162.4	63,100 b	61.4	164.3	61,300 b	60
65	47.4	154.5	54,800	53.2	158.9	57,000 b	57.2	161.3	55,400 b	65
66	46.4	153.5	54,100	52.3	158.1	56,000 b	56.3	160.6	54,400 b	66
70	42.4	149.5	51,300	48.6	154.9	51,900	52.8	157.8	50,400 b	70
75	36.7	143.4	48,400	43.6	150.0	47,600	48.2	153.7	46,200	75
79	31.5	137.4	46,100	39.2	145.4	44,600	44.2	149.8	43,300	79
80	30.3	135.9	45,600	38.1	144.3	43,900	43.2	148.8	42,600	80
85	22.1	125.7	42,200	31.9	137.1	40,600	37.6	142.9	39,500	85
90	8.6	107.5	39,100	24.2	127.7	37,800	31.3	135.6	36,700	90
92				19.8	121.8	36,700	28.2	131.8	35,700	92
95				13.0	112.9	35,200	23.5	126.0	34,200	95
97				2.2	97.9	34,100	18.8	119.7	33,300	97
100							11.6	110.2	31,900	100
101							7.2	104.2	31,500	101
105										105
109										109
110										110
115										115
116										116
120										120
123										123

# MLC150-1 S-2

ASME B30.5



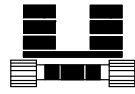
110,500 lb  
+  
35,000 lb



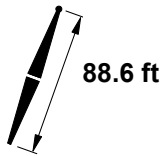
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
32									32	
34									34	
36									36	
38									38	
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
52									52	
55									55	
60									60	
65									65	
66	62.6	163.2	51,700 b						66	
70	59.3	161.0	48,000 b						70	
75	55.0	157.8	44,000 b						75	
79	51.4	154.7	41,200 b	57.9	157.5	39,100 b			79	
80	50.5	154.0	40,500	57.1	156.8	38,500 b			80	
85	45.7	149.5	37,500	52.7	153.3	35,600 b			85	
90	40.5	144.2	34,900	48.0	149.2	33,100			90	
92	38.1	141.6	34,000	46.0	147.2	32,200	52.8	150.2	30,500 b	92
95	34.6	137.7	32,500	43.0	144.3	30,900	50.0	147.8	29,200	95
97	31.8	134.4	31,700	40.8	141.9	30,100	48.1	146.0	28,500	97
100	27.7	129.4	30,400	37.5	138.4	28,900	45.2	143.3	27,400	100
101	25.9	127.0	30,100	36.2	136.9	28,500	44.1	142.2	27,000	101
105	18.6	117.7	28,500	31.1	131.0	27,100	39.8	137.8	25,700	105
109	3.6	97.3	27,000	24.8	123.2	25,800	35.1	132.5	24,400	109
110				23.2	121.3	25,400	33.9	131.1	24,100	110
115				11.1	105.1	23,900	26.8	122.6	22,700	115
116				6.4	98.6	23,600	24.9	120.1	22,400	116
120							17.2	110.2	21,400	120
123							6.9	96.1	20,600	123

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



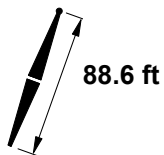
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
35	74.5	182.3	83,200 d							35
36	73.8	182.0	83,200 d							36
38	72.5	181.4	83,000 c							38
40	71.1	180.8	82,700 c							40
42	69.8	180.0	81,200 c							42
44	68.4	179.3	79,000 c							44
46	67.0	178.5	75,600 c							46
47	66.3	178.0	74,100 c	70.6	179.8	82,700 c				47
48	65.7	177.6	72,500 b	69.9	179.4	82,000 c				48
50	64.3	176.6	69,700 b	68.5	178.6	79,400 c				50
55	60.7	174.0	63,700 b	65.1	176.5	70,200 b				55
56	59.9	173.4	62,700 b	64.3	176.0	68,800 b	67.6	177.3	66,600 c	56
60	56.9	171.0	58,700 b	61.5	174.0	62,900 b	64.8	175.5	61,000 b	60
65	53.1	167.5	54,500	57.8	171.1	56,800 b	61.2	173.0	55,200 b	65
70	49.0	163.5	51,000	54.0	167.7	51,700	57.5	170.0	50,200 b	70
71	48.1	162.5	50,400	53.2	166.9	50,900	56.7	169.3	49,400 b	71
75	44.6	158.8	47,900	49.9	163.8	47,400	53.6	166.6	46,000	75
80	39.8	153.2	45,200	45.6	159.2	43,700	49.6	162.6	42,400	80
85	34.6	146.7	42,100	41.0	153.9	40,500	45.3	158.0	39,300	85
90	28.5	138.5	39,200	35.9	147.6	37,700	40.6	152.6	36,600	90
95	20.9	127.6	36,500	30.0	139.9	35,200	35.4	146.2	34,100	95
98	13.2	116.0	35,100	25.7	133.8	33,800	31.8	141.5	32,800	98
100	8.1	108.2	34,100	22.8	129.8	32,900	29.5	138.4	31,900	100
105				12.3	114.0	30,800	22.1	128.0	29,900	105
107				2.0	98.1	29,900	17.7	121.3	29,200	107
110							11.0	111.2	28,100	110
111							6.8	104.8	27,700	111
115										115
119										119
120										120
125										125
126										126
130										130
133										133

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



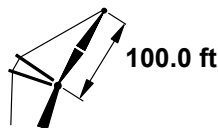
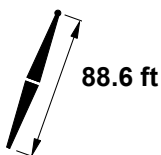
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	lb		
35										35
36										36
38										38
40										40
42										42
44										44
46										46
47										47
48										48
50										50
55										55
56										56
60										60
65										65
70										70
71	62.3	171.9	46,900 <b>b</b>							71
75	59.4	169.7	43,700 <b>b</b>							75
80	55.6	166.5	40,300							80
85	51.7	162.8	37,300	57.4	165.5	35,400 <b>b</b>				85
90	47.5	158.5	34,700	53.5	162.1	32,900				90
95	43.0	153.6	32,400	49.5	158.1	30,700				95
98	40.0	150.1	31,100	46.9	155.3	29,500	52.8	158.2	27,900	98
100	38.1	147.7	30,300	45.1	153.5	28,700	51.2	156.7	27,100	100
105	32.6	140.7	28,400	40.4	148.1	26,900	47.0	152.3	25,400	105
107	30.0	137.1	27,800	38.4	145.5	26,300	45.2	150.3	24,800	107
110	26.1	131.8	26,700	35.2	141.6	25,300	42.4	147.3	23,900	110
111	24.4	129.3	26,400	34.0	140.0	25,000	41.4	146.1	23,600	111
115	17.5	119.3	25,200	29.3	133.7	23,800	37.5	141.3	22,500	115
119	3.4	97.6	23,900	23.4	125.3	22,800	33.0	135.5	21,500	119
120				21.9	123.3	22,500	31.9	134.1	21,300	120
125				10.5	106.0	21,200	25.2	124.9	20,100	125
126				6.0	99.1	20,900	23.4	122.2	19,900	126
130							16.2	111.7	19,000	130
133							6.5	96.7	18,300	133

# MLC150-1 S-2

ASME B30.5



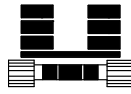
110,500 lb  
+  
35,000 lb



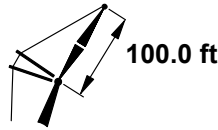
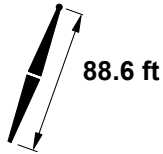
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
37	74.9	192.1	76,200 c							37
38	74.3	191.8	76,100 c							38
40	73.1	191.3	75,900 c							40
42	71.9	190.6	75,800 c							42
44	70.7	189.9	74,600 c							44
46	69.5	189.2	73,300 b							46
48	68.2	188.4	72,000 b							48
50	67.0	187.6	69,800 b	70.8	189.3	75,200 c				50
55	63.8	185.3	63,600 b	67.7	187.4	69,900 b				55
60	60.6	182.7	58,400	64.6	185.2	62,600 b	67.4	186.4	60,700 b	60
65	57.2	179.7	54,200	61.4	182.6	56,500 b	64.3	184.2	54,800 b	65
70	53.8	176.2	50,500	58.0	179.7	51,400	61.1	181.6	49,900	70
75	50.1	172.3	47,500	54.6	176.4	47,200	57.8	178.7	45,700	75
80	46.3	167.9	44,800	51.0	172.6	43,500	54.3	175.3	42,100	80
85	42.2	162.7	41,900	47.2	168.3	40,200	50.7	171.5	39,000	85
90	37.7	156.8	39,000	43.2	163.3	37,400	46.9	167.1	36,300	90
95	32.8	149.7	36,400	38.8	157.5	34,900	42.8	162.0	33,800	95
100	27.0	141.0	34,000	34.0	150.7	32,700	38.4	156.2	31,700	100
104	21.2	131.7	32,300	29.5	144.1	31,100	34.5	150.7	30,100	104
105	19.8	129.4	31,900	28.4	142.5	30,700	33.5	149.3	29,700	105
110	7.7	108.9	29,900	21.7	131.8	28,800	27.9	140.9	27,900	110
115				11.6	115.1	27,100	21.0	129.9	26,300	115
117				1.9	98.2	26,400	16.8	122.8	25,700	117
120							10.4	112.1	24,800	120
121							6.5	105.4	24,500	121
125										125
129										129
130										130
135										135
136										136
140										140
143										143

# MLC150-1 S-2

ASME B30.5



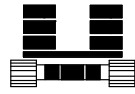
110,500 lb  
+  
35,000 lb



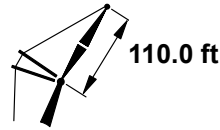
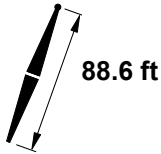
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
37										37
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
60										60
65										65
70										70
75	62.7	181.1	43,400 b							75
80	59.4	178.3	39,900							80
85	56.1	175.2	37,000							85
90	52.5	171.6	34,400	57.7	174.2	32,500				90
95	48.8	167.5	32,100	54.2	170.8	30,300				95
100	44.9	162.8	30,000	50.6	166.9	28,300				100
104	41.5	158.5	28,500	47.5	163.4	26,900	52.8	166.2	25,400	104
105	40.7	157.4	28,100	46.8	162.5	26,600	52.1	165.5	25,100	105
110	36.1	151.1	26,500	42.7	157.5	25,000	48.4	161.3	23,500	110
115	30.9	143.5	24,900	38.3	151.6	23,500	44.4	156.5	22,200	115
117	28.4	139.7	24,400	36.3	148.9	23,000	42.7	154.3	21,700	117
120	24.7	134.0	23,500	33.4	144.7	22,200	40.2	151.0	20,900	120
121	23.1	131.4	23,300	32.3	143.0	22,000	39.2	149.8	20,700	121
125	16.6	120.8	22,200	27.7	136.2	21,000	35.5	144.6	19,800	125
129	3.3	97.9	21,100	22.2	127.4	20,100	31.3	138.4	18,900	129
130				20.8	125.1	19,900	30.2	136.9	18,700	130
135				9.9	106.9	18,700	23.9	127.1	17,700	135
136				5.7	99.6	18,500	22.2	124.3	17,500	136
140							15.4	113.1	16,800	140
143							6.2	97.3	16,200	143

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
40	74.7	201.7	69,900 c							40
42	73.6	201.1	69,700 c							42
44	72.5	200.5	69,100 c							44
46	71.4	199.8	68,100 b							46
48	70.3	199.1	67,100 b							48
50	69.2	198.4	66,100 b							50
53	67.5	197.2	64,700 b	70.9	198.9	68,100 b				53
55	66.4	196.4	63,700 b	69.8	198.1	67,200 b				55
60	63.5	194.0	58,600	67.0	196.2	62,400 b				60
63	61.7	192.4	55,900	65.3	194.8	58,800 b	67.9	196.0	56,900 b	63
65	60.5	191.4	54,200	64.2	193.9	56,400	66.8	195.2	54,700 b	65
70	57.5	188.4	50,500	61.2	191.3	51,400	63.9	192.9	49,800	70
75	54.4	185.0	47,300	58.2	188.4	47,100	61.0	190.3	45,600	75
80	51.1	181.2	44,600	55.1	185.1	43,400	58.0	187.3	42,100	80
85	47.7	176.9	41,800	51.9	181.4	40,200	54.8	184.0	38,900	85
90	44.0	172.0	38,900	48.5	177.2	37,400	51.6	180.3	36,200	90
95	40.1	166.5	36,300	44.9	172.5	34,900	48.2	176.1	33,800	95
100	35.9	160.1	34,000	41.1	167.1	32,700	44.6	171.3	31,600	100
105	31.2	152.5	31,900	36.9	161.0	30,700	40.7	165.9	29,700	105
110	25.7	143.3	30,100	32.3	153.7	28,900	36.6	159.6	27,900	110
115	18.8	131.1	28,300	27.1	145.0	27,200	31.9	152.3	26,400	115
120	7.3	109.6	26,700	20.6	133.7	25,700	26.6	143.3	24,900	120
125				11.1	116.1	24,300	20.0	131.7	23,500	125
127				1.8	98.4	23,700	16.0	124.2	23,000	127
130							9.9	113.0	22,300	130
131							6.2	105.9	22,000	131
135										135
139										139
140										140
145										145
146										146
150										150
153										153

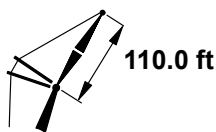
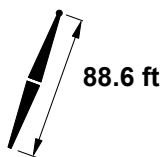


# MLC150-1 S-2

ASME B30.5



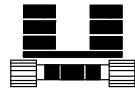
110,500 lb  
+  
35,000 lb



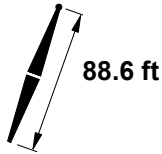
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
42										42
44										44
46										46
48										48
50										50
53										53
55										55
60										60
63										63
65										65
70										70
75										75
80	62.5	189.8	39,900							80
85	59.5	187.0	36,900							85
90	56.4	183.9	34,300							90
95	53.2	180.3	32,000	57.9	182.9	30,200				95
100	49.9	176.4	29,900	54.7	179.5	28,300				100
105	46.4	171.9	28,100	51.5	175.8	26,500				105
110	42.7	166.8	26,400	48.1	171.5	24,900	52.9	174.2	23,500	110
115	38.7	161.0	24,900	44.5	166.8	23,500	49.5	170.2	22,100	115
120	34.3	154.3	23,500	40.6	161.3	22,200	46.0	165.7	20,900	120
125	29.4	146.2	22,300	36.4	155.0	21,000	42.3	160.5	19,700	125
127	27.1	142.2	21,800	34.6	152.1	20,500	40.6	158.1	19,300	127
130	23.6	136.2	21,100	31.8	147.6	19,900	38.2	154.6	18,700	130
131	22.0	133.4	20,900	30.7	145.8	19,700	37.3	153.2	18,500	131
135	15.8	122.2	20,000	26.4	138.7	18,800	33.8	147.7	17,700	135
139	3.1	98.2	19,100	21.1	129.3	18,100	29.8	141.1	17,000	139
140				19.8	126.9	17,900	28.8	139.5	16,800	140
145				9.5	107.8	16,900	22.8	129.1	16,000	145
146				5.4	100.1	16,700	21.2	126.2	15,800	146
150							14.7	114.4	15,100	150
153							5.9	97.8	14,600	153

# MLC150-1 S-2

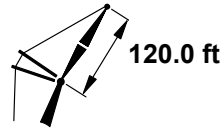
ASME B30.5



110,500 lb  
+  
35,000 lb



88.6 ft



120.0 ft

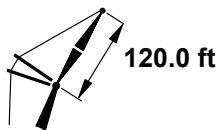
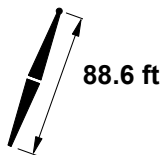
	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
42	75.0	211.5	63,900 c							42
44	74.0	210.9	63,700 c							44
46	73.0	210.3	63,100 b							46
48	72.0	209.7	62,200 b							48
50	71.0	209.0	61,200 b							50
55	68.4	207.2	58,900 b							55
57	67.4	206.3	58,000 b	70.6	208.0	61,100 b				57
60	65.8	205.1	56,700	69.0	206.9	59,800 b				60
65	63.2	202.7	54,200	66.5	204.9	56,100				65
67	62.1	201.6	52,700	65.4	204.0	54,100	67.8	205.2	52,300 b	67
70	60.5	200.0	50,400	63.8	202.6	51,100	66.2	203.9	49,500	70
75	57.7	197.0	47,200	61.1	200.0	46,800	63.6	201.6	45,300	75
80	54.8	193.7	44,300	58.4	197.1	43,100	60.9	198.9	41,700	80
84	52.5	190.7	42,100	56.1	194.5	40,500	58.7	196.6	39,300	84
85	51.9	190.0	41,600	55.5	193.8	39,900	58.1	196.0	38,600	85
90	48.8	185.8	38,700	52.6	190.2	37,100	55.3	192.7	35,900	90
95	45.5	181.2	36,100	49.5	186.1	34,600	52.3	189.0	33,500	95
100	42.1	176.0	33,800	46.3	181.6	32,400	49.2	185.0	31,300	100
101	41.3	174.8	33,400	45.6	180.6	32,000	48.6	184.0	31,000	101
105	38.4	170.0	31,700	42.9	176.5	30,400	46.0	180.4	29,400	105
110	34.3	163.2	29,900	39.2	170.8	28,600	42.6	175.3	27,700	110
115	29.8	155.3	28,200	35.3	164.2	27,000	38.9	169.5	26,100	115
116	28.8	153.3	27,800	34.4	162.7	26,700	38.1	168.1	25,800	116
120	24.6	145.5	26,600	30.9	156.6	25,500	35.0	162.8	24,600	120
125	18.0	132.7	25,200	25.9	147.3	24,100	30.5	155.0	23,300	125
130	7.0	110.2	23,800	19.8	135.4	22,800	25.4	145.6	22,100	130
135				10.6	117.0	21,600	19.2	133.4	20,900	135
137				1.8	98.6	21,100	15.3	125.6	20,500	137
140							9.5	113.8	19,800	140
141							5.9	106.4	19,600	141
145										145
149										149
150										150
155										155
156										156
160										160
163										163

# MLC150-1 S-2

ASME B30.5



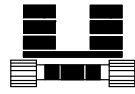
110,500 lb  
+  
35,000 lb



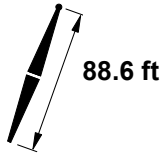
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
42										42
44										44
46										46
48										48
50										50
55										55
57										57
60										60
65										65
67										67
70										70
75										75
80										80
84	62.8	199.0	37,100							84
85	62.3	198.4	36,500							85
90	59.5	195.7	34,000							90
95	56.7	192.5	31,700							95
100	53.8	189.1	29,600							100
101	53.2	188.3	29,200	57.5	190.9	27,500				101
105	50.8	185.2	27,800	55.2	188.2	26,200				105
110	47.7	180.9	26,100	52.2	184.6	24,600				110
115	44.3	176.1	24,600	49.1	180.5	23,200				115
116	43.6	175.0	24,300	48.5	179.5	22,900	52.9	182.2	21,500	116
120	40.8	170.6	23,200	45.9	175.9	21,900	50.4	179.1	20,500	120
125	37.0	164.4	22,000	42.5	170.7	20,700	47.3	174.7	19,400	125
130	32.8	157.3	20,800	38.8	164.9	19,600	43.9	169.8	18,300	130
135	28.1	148.8	19,700	34.8	158.2	18,600	40.4	164.3	17,400	135
137	25.9	144.5	19,300	33.1	155.1	18,200	38.8	161.8	17,000	137
140	22.5	138.2	18,700	30.4	150.4	17,600	36.5	158.0	16,500	140
141	21.1	135.3	18,500	29.4	148.5	17,400	35.7	156.5	16,300	141
145	15.1	123.5	17,800	25.3	140.9	16,700	32.3	150.7	15,700	145
149	3.0	98.4	17,000	20.2	131.1	16,000	28.5	143.7	15,000	149
150				18.9	128.6	15,900	27.5	142.0	14,900	150
155				9.1	108.6	15,100	21.8	131.1	14,100	155
156				5.2	100.6	14,900	20.2	128.0	14,000	156
160							14.0	115.6	13,400	160
163							5.6	98.3	13,000	163

# MLC150-1 S-2

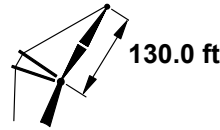
ASME B30.5



110,500 lb  
+  
35,000 lb



88.6 ft



130.0 ft

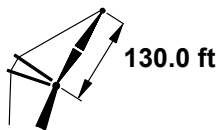
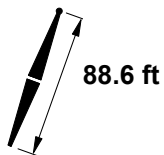
	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
45	74.8	221.0	48,800 c						45	
46	74.3	220.8	48,600 b						46	
48	73.4	220.2	48,300 b						48	
50	72.5	219.6	47,900 b						50	
55	70.2	217.9	47,000 b						55	
60	67.8	216.0	46,100	70.7	217.6	47,600 b			60	
65	65.4	213.8	45,300	68.4	215.7	46,900			65	
70	63.0	211.4	44,500	66.0	213.6	46,200			70	
71	62.5	210.8	44,300	65.5	213.1	46,000	67.7	214.4	46,600	
75	60.5	208.7	43,500	63.5	211.3	45,500	65.8	212.6	45,100	
80	57.9	205.7	41,900	61.0	208.6	42,900	63.3	210.2	41,500	
85	55.3	202.4	40,300	58.5	205.7	39,700	60.8	207.6	38,400	
89	53.1	199.5	38,800	56.4	203.1	37,400	58.8	205.2	36,200	
90	52.5	198.7	38,500	55.9	202.5	36,900	58.3	204.7	35,700	
95	49.7	194.7	35,900	53.2	198.9	34,400	55.6	201.4	33,300	
100	46.7	190.2	33,600	50.4	195.0	32,200	52.9	197.8	31,100	
105	43.6	185.3	31,500	47.4	190.6	30,200	50.1	193.8	29,200	
106	43.0	184.2	31,200	46.8	189.7	29,800	49.5	193.0	28,800	
110	40.3	179.7	29,700	44.4	185.8	28,400	47.2	189.4	27,500	
115	36.8	173.4	28,000	41.1	180.4	26,800	44.1	184.5	25,900	
120	32.9	166.3	26,500	37.6	174.3	25,300	40.8	179.1	24,400	
122	31.2	162.9	25,900	36.1	171.5	24,800	39.4	176.6	23,900	
125	28.6	157.9	25,000	33.9	167.3	23,900	37.3	172.9	23,100	
130	23.6	147.7	23,700	29.7	159.3	22,700	33.5	165.9	21,900	
135	17.3	134.3	22,500	24.9	149.6	21,500	29.3	157.7	20,800	
140	6.7	110.8	21,300	19.0	137.1	20,400	24.4	147.8	19,700	
145				10.2	117.9	19,400	18.4	135.1	18,800	
147				1.7	98.7	19,000	14.7	126.9	18,400	
150							9.1	114.7	17,800	
151							5.7	107.0	17,600	
155									155	
159									159	
160									160	
165									165	
166									166	
170									170	
173									173	

# MLC150-1 S-2

ASME B30.5



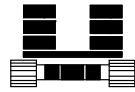
110,500 lb  
+  
35,000 lb



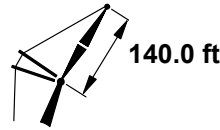
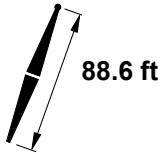
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
46										46
48										48
50										50
55										55
60										60
65										65
70										70
71										71
75										75
80										80
85										85
89	62.6	207.6	34,200							89
90	62.1	207.1	33,700							90
95	59.6	204.3	31,400							95
100	57.0	201.2	29,400							100
105	54.3	197.8	27,500							105
106	53.8	197.0	27,200	57.7	199.6	25,600				106
110	51.6	194.0	25,900	55.6	196.9	24,300				110
115	48.7	189.8	24,400	52.9	193.3	22,900				115
120	45.7	185.2	23,000	50.0	189.3	21,600				120
122	44.4	183.1	22,500	48.9	187.6	21,200	52.9	190.2	19,800	122
125	42.5	180.1	21,800	47.1	184.9	20,400	51.2	187.9	19,100	125
130	39.1	174.3	20,600	44.0	180.0	19,300	48.3	183.7	18,100	130
135	35.5	167.7	19,600	40.7	174.5	18,300	45.3	179.0	17,200	135
140	31.5	160.2	18,600	37.2	168.4	17,400	42.1	173.7	16,300	140
145	27.0	151.2	17,600	33.4	161.3	16,500	38.7	167.9	15,400	145
147	24.9	146.8	17,300	31.7	158.0	16,200	37.3	165.2	15,100	147
150	21.6	140.2	16,800	29.2	153.1	15,700	35.1	161.2	14,700	150
151	20.2	137.1	16,600	28.2	151.1	15,600	34.2	159.7	14,500	151
155	14.5	124.8	16,000	24.3	143.1	15,000	31.0	153.5	14,000	155
159	2.9	98.7	15,300	19.4	132.8	14,400	27.3	146.2	13,400	159
160				18.2	130.3	14,200	26.4	144.4	13,300	160
165				8.7	109.3	13,500	20.9	133.0	12,600	165
166				5.0	101.0	13,300	19.4	129.8	12,500	166
170							13.5	116.8	12,000	170
173							5.4	98.8	11,600	173

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



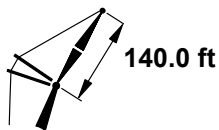
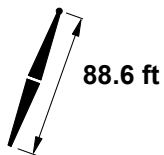
	87°			83°			80°			
48	74.6	230.6	45,300 b							48
50	73.8	230.0	44,900 b							50
55	71.6	228.5	44,100 b							55
60	69.5	226.7	43,400							60
63	68.1	225.5	42,900	70.8	227.1	44,000				63
65	67.3	224.7	42,600	70.0	226.4	43,800				65
70	65.0	222.5	41,500	67.8	224.5	43,100				70
75	62.8	220.0	39,900	65.6	222.3	42,100	67.6	223.5	43,000	75
80	60.4	217.3	38,300	63.3	219.9	40,600	65.4	221.3	41,200	80
85	58.0	214.4	36,900	61.0	217.3	39,000	63.1	218.9	38,100	85
90	55.6	211.1	35,400	58.6	214.4	36,600	60.8	216.3	35,400	90
93	54.1	208.9	34,500	57.1	212.5	35,100	59.3	214.5	33,900	93
95	53.1	207.5	34,000	56.2	211.2	34,100	58.4	213.3	33,000	95
100	50.5	203.6	32,600	53.7	207.7	31,900	56.0	210.1	30,800	100
105	47.8	199.2	31,300	51.1	203.8	29,900	53.5	206.6	28,900	105
110	44.9	194.5	29,400	48.4	199.6	28,100	50.9	202.7	27,200	110
111	44.3	193.4	29,100	47.8	198.6	27,800	50.3	201.8	26,800	111
115	42.0	189.2	27,700	45.6	194.9	26,500	48.2	198.4	25,600	115
120	38.8	183.3	26,200	42.7	189.8	25,000	45.4	193.7	24,200	120
125	35.4	176.7	24,800	39.6	184.0	23,700	42.4	188.5	22,800	125
128	33.2	172.2	24,000	37.6	180.2	22,900	40.5	185.0	22,100	128
130	31.7	169.2	23,500	36.2	177.6	22,400	39.3	182.7	21,600	130
135	27.6	160.4	22,300	32.6	170.3	21,300	35.9	176.2	20,500	135
140	22.8	149.7	21,200	28.6	161.9	20,200	32.3	168.9	19,500	140
145	16.7	135.8	20,100	24.0	151.7	19,200	28.2	160.3	18,500	145
150	6.5	111.4	19,100	18.3	138.8	18,300	23.5	150.0	17,600	150
155				9.8	118.8	17,400	17.7	136.7	16,800	155
157				1.6	98.9	17,000	14.1	128.2	16,400	157
160							8.8	115.4	15,900	160
161							5.5	107.4	15,800	161
165										165
169										169
170										170
175										175
176										176
180										180
183										183

# MLC150-1 S-2

ASME B30.5



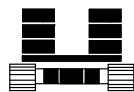
110,500 lb  
+  
35,000 lb



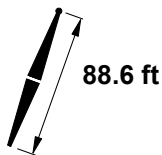
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
48										48
50										50
55										55
60										60
63										63
65										65
70										70
75										75
80										80
85										85
90										90
93	62.9	216.8	31,900							93
95	62.0	215.8	31,100							95
100	59.6	213.0	29,000							100
105	57.2	209.9	27,200							105
110	54.7	206.5	25,600							110
111	54.2	205.8	25,300	57.9	208.2	23,700				111
115	52.2	202.8	24,100	55.9	205.6	22,600				115
120	49.6	198.7	22,700	53.4	202.1	21,300				120
125	46.8	194.3	21,500	50.8	198.2	20,100				125
128	45.1	191.3	20,800	49.2	195.6	19,400	52.9	198.2	18,100	128
130	43.9	189.3	20,300	48.1	193.9	19,000	51.9	196.7	17,700	130
135	40.9	183.9	19,300	45.3	189.2	18,000	49.2	192.6	16,800	135
140	37.7	177.7	18,300	42.3	184.0	17,100	46.5	188.1	15,900	140
145	34.2	170.8	17,400	39.2	178.2	16,200	43.6	183.1	15,100	145
150	30.3	162.9	16,500	35.8	171.7	15,400	40.5	177.5	14,300	150
155	26.0	153.6	15,700	32.2	164.2	14,700	37.3	171.3	13,600	155
157	23.9	149.0	15,400	30.5	160.8	14,400	35.9	168.5	13,400	157
160	20.8	142.0	15,000	28.1	155.6	13,900	33.7	164.3	13,000	160
161	19.5	138.8	14,800	27.1	153.5	13,800	33.0	162.7	12,800	161
165	14.0	126.1	14,200	23.4	145.3	13,300	29.9	156.2	12,300	165
169	2.8	98.9	13,600	18.7	134.5	12,800	26.3	148.6	11,800	169
170				17.5	131.8	12,600	25.4	146.7	11,700	170
175				8.4	110.1	12,000	20.2	134.8	11,200	175
176				4.8	101.4	11,900	18.7	131.4	11,000	176
180							13.0	118.0	10,600	180
183							5.2	99.3	10,200	183

# MLC150-1 S-2

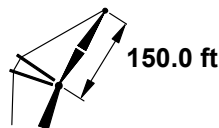
ASME B30.5



110,500 lb  
+  
35,000 lb



88.6 ft



150.0 ft

ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.9	240.4	42,100 b							50
55	72.9	239.0	41,300 b							55
60	70.9	237.3	40,600							60
65	68.9	235.5	39,900							65
66	68.4	235.1	39,600	71.0	236.7	40,800				66
70	66.8	233.5	38,300	69.3	235.2	40,300				70
75	64.7	231.2	36,800	67.3	233.2	38,800				75
78	63.4	229.7	35,900	66.0	231.9	37,900	67.9	233.1	39,100	78
80	62.6	228.7	35,300	65.2	231.0	37,300	67.1	232.3	38,500	80
85	60.4	226.0	33,800	63.1	228.6	35,800	65.0	230.0	37,100	85
90	58.2	223.0	32,400	60.9	226.0	34,400	62.9	227.6	35,200	90
95	55.9	219.8	31,100	58.7	223.0	33,000	60.7	224.9	32,800	95
98	54.5	217.7	30,300	57.3	221.1	32,200	59.4	223.2	31,600	98
100	53.6	216.3	29,800	56.4	219.9	31,600	58.5	222.0	30,700	100
105	51.1	212.4	28,500	54.1	216.4	29,800	56.2	218.8	28,800	105
110	48.7	208.2	27,400	51.7	212.6	28,000	53.9	215.3	27,100	110
115	46.1	203.6	26,100	49.2	208.5	26,400	51.5	211.5	25,500	115
116	45.5	202.6	25,900	48.7	207.6	26,100	51.0	210.7	25,200	116
120	43.3	198.5	25,000	46.7	204.0	24,900	49.0	207.3	24,100	120
125	40.5	193.0	24,000	44.0	199.0	23,600	46.4	202.8	22,700	125
130	37.4	186.8	23,000	41.2	193.6	22,400	43.8	197.8	21,500	130
134	34.8	181.2	22,300	38.8	188.8	21,400	41.5	193.4	20,700	134
135	34.2	179.8	22,100	38.2	187.6	21,200	40.9	192.3	20,400	135
140	30.6	172.0	21,100	35.0	180.8	20,200	37.9	186.2	19,400	140
145	26.6	162.8	20,100	31.5	173.2	19,200	34.7	179.4	18,500	145
150	22.0	151.7	19,200	27.6	164.4	18,300	31.2	171.7	17,600	150
155	16.1	137.2	18,300	23.1	153.8	17,400	27.2	162.7	16,700	155
160	6.3	111.9	17,400	17.6	140.4	16,600	22.7	152.0	16,000	160
165				9.5	119.6	15,800	17.1	138.2	15,200	165
167				1.6	99.0	15,400	13.7	129.4	14,900	167
170							8.5	116.2	14,500	170
171							5.3	107.9	14,300	171
175										175
179										179
180										180
185										185
186										186
190										190
193										193

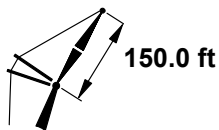
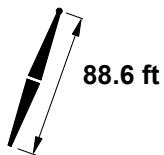


# MLC150-1 S-2

ASME B30.5



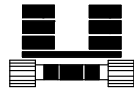
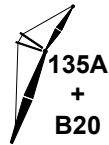
110,500 lb  
+  
35,000 lb



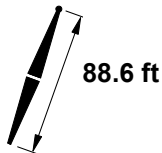
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
66										66
70										70
75										75
78										78
80										80
85										85
90										90
95										95
98	62.7	225.5	29,700							98
100	61.8	224.4	28,900							100
105	59.6	221.6	27,100							105
110	57.4	218.6	25,400							110
115	55.1	215.2	24,000							115
116	54.6	214.5	23,700	58.0	216.9	22,200				116
120	52.7	211.6	22,600	56.2	214.3	21,200				120
125	50.3	207.6	21,400	53.8	210.8	20,000				125
130	47.8	203.3	20,200	51.4	207.0	18,900				130
134	45.6	199.5	19,400	49.4	203.7	18,100	52.9	206.2	16,900	134
135	45.1	198.5	19,200	49.0	202.8	17,900	52.5	205.5	16,700	135
140	42.4	193.3	18,200	46.4	198.3	17,000	50.0	201.5	15,800	140
145	39.4	187.5	17,300	43.7	193.3	16,100	47.5	197.1	15,000	145
150	36.3	181.1	16,400	40.8	187.8	15,300	44.8	192.3	14,200	150
155	33.0	173.9	15,700	37.8	181.7	14,600	42.0	187.0	13,500	155
160	29.3	165.6	14,900	34.6	174.8	13,900	39.1	181.1	12,900	160
165	25.1	155.8	14,200	31.1	167.1	13,200	36.0	174.6	12,300	165
167	23.1	151.0	13,900	29.5	163.5	13,000	34.6	171.7	12,000	167
170	20.1	143.8	13,500	27.1	158.1	12,600	32.6	167.3	11,700	170
171	18.8	140.5	13,400	26.2	155.9	12,500	31.8	165.6	11,600	171
175	13.5	127.3	12,900	22.6	147.3	12,000	28.8	158.9	11,100	175
179	2.7	99.2	12,400	18.1	136.1	11,600	25.4	150.9	10,700	179
180				16.9	133.4	11,400	24.6	148.9	10,600	180
185				8.1	110.8	10,900	19.5	136.6	10,100	185
186				4.7	101.9	10,700	18.1	133.1	10,000	186
190							12.5	119.1	9,600	190
193							5.0	99.7	9,300	193

# MLC150-1 S-2

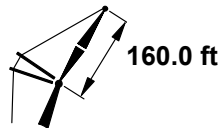
ASME B30.5



110,500 lb  
+  
35,000 lb



88.6 ft



160.0 ft

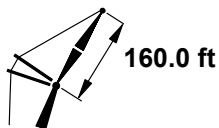
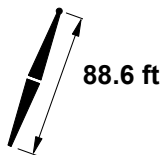
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
53	74.7	249.9	38,300 b						53	
55	74.0	249.4	38,100 b						55	
60	72.1	247.9	37,500						60	
65	70.2	246.2	36,500						65	
70	68.3	244.3	35,000	70.7	245.9	35,800			70	
75	66.4	242.2	33,600	68.8	244.0	35,400			75	
80	64.4	239.9	32,100	66.8	242.0	34,000			80	
82	63.6	238.9	31,600	66.0	241.1	33,500	67.8	242.3	33,900	82
85	62.4	237.4	30,700	64.9	239.7	32,600	66.7	241.0	33,700	85
90	60.4	234.7	29,400	62.9	237.3	31,300	64.7	238.7	32,400	90
95	58.3	231.7	28,100	60.9	234.6	29,900	62.7	236.3	31,100	95
100	56.2	228.5	26,800	58.8	231.7	28,600	60.7	233.6	29,700	100
102	55.3	227.1	26,300	57.9	230.4	28,100	59.8	232.4	29,200	102
105	54.0	225.0	25,600	56.7	228.6	27,300	58.6	230.7	28,500	105
110	51.7	221.2	24,400	54.5	225.1	26,100	56.5	227.5	26,800	110
115	49.4	217.1	23,200	52.3	221.4	24,900	54.3	224.0	25,200	115
120	47.0	212.6	22,100	50.0	217.4	23,700	52.1	220.3	23,800	120
122	46.0	210.7	21,700	49.0	215.6	23,200	51.1	218.7	23,200	122
125	44.5	207.7	21,100	47.6	213.0	22,600	49.8	216.2	22,500	125
130	41.9	202.4	20,100	45.1	208.2	21,500	47.4	211.8	21,300	130
135	39.1	196.6	19,200	42.5	203.0	20,500	44.9	207.0	20,200	135
140	36.2	190.1	18,300	39.8	197.3	19,500	42.3	201.7	19,100	140
145	33.1	182.9	17,400	36.9	191.0	18,600	39.6	196.0	18,200	145
150	29.6	174.6	16,600	33.8	183.9	17,700	36.7	189.6	17,300	150
155	25.8	165.1	15,900	30.4	176.0	17,000	33.5	182.5	16,500	155
160	21.3	153.6	15,200	26.7	166.8	16,200	30.1	174.4	15,700	160
165	15.6	138.6	14,200	22.4	155.8	15,400	26.4	165.1	15,000	165
170	6.1	112.5	13,400	17.1	141.9	14,500	22.0	154.0	14,300	170
175				9.2	120.5	13,700	16.6	139.7	13,600	175
177				1.5	99.1	13,400	13.2	130.6	13,400	177
180							8.2	116.9	13,000	180
181							5.1	108.4	12,800	181
185										185
189										189
190										190
195										195
196										196
200										200
203										203

# MLC150-1 S-2

ASME B30.5



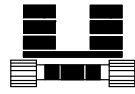
110,500 lb  
+  
35,000 lb



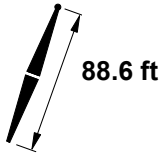
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
53										53
55										55
60										60
65										65
70										70
75										75
80										80
82										82
85										85
90										90
95										95
100										100
102	62.9	234.7	27,800							102
105	61.7	233.1	26,800							105
110	59.7	230.3	25,100							110
115	57.6	227.2	23,600							115
120	55.4	223.9	22,300							120
122	54.5	222.5	21,800	57.7	224.9	20,300				122
125	53.2	220.3	21,000	56.4	223.0	19,600				125
130	50.9	216.4	19,900	54.2	219.5	18,600				130
135	48.6	212.2	18,900	52.0	215.8	17,600				135
140	46.2	207.6	17,900	49.7	211.7	16,700	52.9	214.2	15,500	140
145	43.6	202.6	17,000	47.3	207.3	15,800	50.7	210.3	14,700	145
150	41.0	197.1	16,100	44.8	202.5	15,000	48.3	206.0	13,900	150
155	38.1	191.0	15,400	42.2	197.2	14,300	45.9	201.4	13,200	155
160	35.1	184.3	14,600	39.5	191.4	13,600	43.3	196.3	12,500	160
165	31.9	176.8	13,900	36.6	185.0	12,900	40.6	190.7	11,900	165
170	28.3	168.1	13,300	33.4	177.9	12,300	37.8	184.6	11,300	170
175	24.3	158.0	12,700	30.0	169.8	11,700	34.8	177.8	10,800	175
177	22.4	153.0	12,400	28.5	166.1	11,500	33.5	174.7	10,600	177
180	19.5	145.6	12,100	26.2	160.5	11,200	31.5	170.2	10,300	180
181	18.2	142.2	12,000	25.4	158.2	11,100	30.8	168.4	10,200	181
185	13.1	128.5	11,500	21.9	149.2	10,600	27.9	161.4	9,800	185
189	2.6	99.4	11,000	17.5	137.7	10,200	24.6	153.1	9,400	189
190				16.4	134.8	10,100	23.8	151.1	9,300	190
195				7.8	111.5	9,600	18.9	138.2	8,900	195
196				4.5	102.3	9,500	17.5	134.6	8,800	196
200							12.1	120.2	8,400	200
203							4.9	100.1	8,100	203

# MLC150-1 S-2

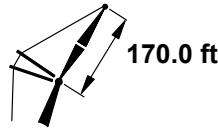
ASME B30.5



110,500 lb  
+  
35,000 lb



88.6 ft



170.0 ft

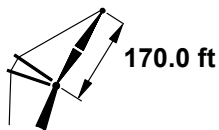
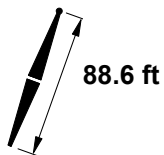
ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	75.0	259.8	33,500							55
60	73.2	258.3	33,000							60
65	71.4	256.7	32,400							65
70	69.7	255.0	31,800							70
73	68.6	253.8	31,300	70.8	255.4	31,200				73
75	67.9	253.0	30,900	70.1	254.7	31,100				75
80	66.0	250.9	29,500	68.3	252.8	30,500				80
85	64.2	248.6	28,200	66.4	250.7	29,900				85
86	63.8	248.1	27,900	66.1	250.3	29,700	67.8	251.4	29,500	86
90	62.3	246.1	26,900	64.6	248.4	28,600	66.3	249.7	29,100	90
95	60.4	243.3	25,600	62.7	246.0	27,300	64.4	247.4	28,400	95
100	58.4	240.4	24,400	60.8	243.3	26,100	62.6	244.9	27,200	100
105	56.4	237.2	23,200	58.9	240.4	24,800	60.6	242.2	26,000	105
107	55.6	235.8	22,800	58.1	239.1	24,400	59.9	241.1	25,500	107
110	54.3	233.7	22,100	56.9	237.2	23,700	58.7	239.3	24,700	110
115	52.2	230.0	21,000	54.8	233.8	22,500	56.7	236.2	23,600	115
120	50.1	226.0	20,000	52.7	230.2	21,400	54.7	232.7	22,500	120
125	47.8	221.6	18,900	50.6	226.2	20,300	52.6	229.1	21,400	125
127	46.9	219.7	18,500	49.7	224.5	19,900	51.7	227.5	20,900	127
130	45.5	216.9	18,000	48.4	221.9	19,300	50.4	225.1	20,300	130
135	43.1	211.8	17,000	46.1	217.3	18,300	48.2	220.8	19,300	135
140	40.6	206.2	16,200	43.7	212.3	17,400	45.9	216.1	18,300	140
145	37.9	200.1	15,400	41.2	206.8	16,500	43.5	211.1	17,400	145
146	37.4	198.7	15,200	40.7	205.6	16,300	43.0	209.9	17,200	146
150	35.1	193.3	14,600	38.6	200.8	15,700	41.0	205.5	16,500	150
155	32.0	185.8	13,800	35.8	194.2	14,900	38.3	199.5	15,600	155
160	28.7	177.2	12,800	32.8	186.9	14,100	35.5	192.9	14,900	160
165	25.0	167.4	11,900	29.5	178.6	13,100	32.5	185.5	14,000	165
170	20.6	155.5	11,100	25.9	169.1	12,200	29.2	177.1	13,000	170
175	15.1	140.0	10,200	21.7	157.8	11,300	25.6	167.4	12,200	175
180	5.9	113.0	9,600	16.6	143.4	10,500	21.3	155.9	11,300	180
185				8.9	121.3	9,800	16.1	141.1	10,500	185
187				1.5	99.3	9,500	12.8	131.7	10,200	187
190							8.0	117.6	9,700	190
191							5.0	108.8	9,600	191
195										195
199										199
200										200
205										205
206										206
210										210
213										213

# MLC150-1 S-2

ASME B30.5



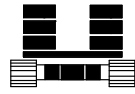
110,500 lb  
+  
35,000 lb



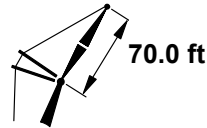
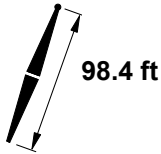
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
73										73
75										75
80										80
85										85
86										86
90										90
95										95
100										100
105										105
107	62.8	243.4	25,800							107
110	61.6	241.8	24,900							110
115	59.7	239.0	23,400							115
120	57.7	235.9	22,000							120
125	55.7	232.6	20,800							125
127	54.9	231.2	20,300	57.8	233.6	18,900				127
130	53.6	229.1	19,700	56.6	231.7	18,300				130
135	51.5	225.3	18,600	54.6	228.3	17,300				135
140	49.3	221.1	17,600	52.5	224.6	16,400				140
145	47.1	216.6	16,800	50.3	220.6	15,600				145
146	46.6	215.7	16,600	49.9	219.7	15,400	53.0	222.2	14,200	146
150	44.7	211.8	15,900	48.1	216.3	14,800	51.2	219.1	13,600	150
155	42.3	206.5	15,100	45.8	211.6	14,000	49.1	214.9	12,900	155
160	39.7	200.8	14,400	43.4	206.5	13,300	46.8	210.4	12,300	160
165	37.0	194.4	13,700	40.9	201.0	12,700	44.4	205.5	11,700	165
170	34.1	187.4	13,100	38.3	194.9	12,100	42.0	200.2	11,100	170
175	30.9	179.6	12,500	35.4	188.3	11,500	39.4	194.4	10,600	175
180	27.5	170.6	11,900	32.4	180.8	11,000	36.6	188.0	10,000	180
185	23.6	160.1	11,300	29.1	172.4	10,400	33.7	180.9	9,600	185
187	21.7	155.0	11,100	27.7	168.6	10,200	32.4	177.7	9,400	187
190	18.9	147.3	10,800	25.5	162.7	10,000	30.5	172.9	9,100	190
191	17.7	143.7	10,700	24.6	160.4	9,900	29.8	171.1	9,000	191
195	12.7	129.6	10,100	21.2	151.1	9,500	27.0	163.8	8,700	195
199	2.5	99.6	9,600	17.0	139.2	9,100	23.8	155.3	8,300	199
200				15.9	136.2	9,000	23.1	153.1	8,200	200
205				7.6	112.2	8,600	18.3	139.9	7,800	205
206				4.4	102.6	8,500	17.0	136.1	7,700	206
210							11.8	121.2	7,400	210
213							4.7	100.6	7,200	213

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



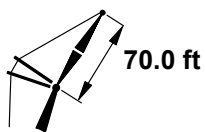
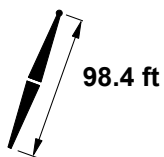
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
30	74.6	172.9	96,700 d							30
32	72.9	172.3	96,600 d							32
34	71.2	171.7	96,600 d							34
36	69.4	171.0	93,400 d							36
38	67.7	170.2	88,900 c							38
40	65.9	169.3	84,700 c							40
42	64.1	168.4	81,000 c	70.2	170.5	99,000 d				42
44	62.3	167.4	77,600 c	68.4	169.8	93,800 c				44
46	60.4	166.3	74,500 c	66.7	168.9	88,500 c				46
48	58.5	165.1	71,700 b	64.9	168.0	83,700 c				48
50	56.5	163.8	69,100 b	63.0	167.0	79,400 c	67.6	168.5	76,900 c	50
55	51.5	160.2	63,400 b	58.3	164.2	70,300 b	63.1	166.2	68,100 c	55
60	46.0	155.8	58,800 b	53.4	160.9	63,000 b	58.4	163.4	61,000 b	60
64	41.2	151.5	55,700 b	49.2	157.6	58,100 b	54.5	160.7	56,300 b	64
65	40.0	150.4	54,900	48.1	156.8	56,900 b	53.5	160.0	55,100 b	65
70	33.2	143.7	51,700	42.3	151.8	51,900	48.2	156.0	50,200 b	70
75	24.7	134.7	49,100	35.8	145.6	47,600	42.5	151.0	46,000	75
77	19.4	128.6	47,700	32.7	142.4	46,100	39.9	148.6	44,600	77
80	11.5	119.4	45,500	28.1	137.6	43,800	36.0	144.9	42,400	80
81	6.2	113.0	44,800	26.0	135.3	43,200	34.4	143.3	41,800	81
85				17.5	125.8	40,500	28.3	136.9	39,300	85
88				4.9	110.6	38,600	22.0	129.9	37,600	88
90							17.8	125.2	36,500	90
93							5.7	110.7	34,800	93
95										95
100										100
101										101
105										105
109										109
110										110
115										115
117										117

# MLC150-1 S-2

ASME B30.5



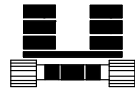
110,500 lb  
+  
35,000 lb



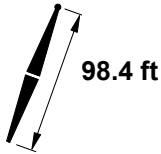
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
30										30
32										32
34										34
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
60										60
64	62.5	163.8	53,100 <b>c</b>							64
65	61.6	163.3	52,100 <b>c</b>							65
70	56.8	160.3	47,500 <b>b</b>							70
75	51.8	156.7	43,500 <b>b</b>							75
77	49.6	155.0	42,200 <b>b</b>	58.0	158.3	39,700 <b>b</b>				77
80	46.4	152.4	40,100 <b>b</b>	55.0	156.3	37,800 <b>b</b>				80
81	45.2	151.3	39,500 <b>b</b>	54.0	155.5	37,300 <b>b</b>				81
85	40.4	147.1	37,200	49.8	152.5	35,000 <b>b</b>				85
88	36.3	143.1	35,600	46.5	149.7	33,600 <b>b</b>				88
90	33.6	140.5	34,500	44.3	147.8	32,600 <b>b</b>	52.9	151.3	30,600 <b>b</b>	90
93	28.6	135.2	33,100	40.5	144.4	31,300 <b>b</b>	49.7	148.8	29,400 <b>b</b>	93
95	25.3	131.6	32,200	38.0	142.1	30,400	47.5	147.1	28,600 <b>b</b>	95
100	12.7	117.1	30,000	30.8	134.8	28,400	41.7	142.0	26,700	100
101	8.2	111.7	29,600	28.9	132.7	28,000	40.4	140.8	26,400	101
105				21.5	124.6	26,600	35.1	135.7	25,100	105
109				9.0	109.9	25,200	28.8	129.1	23,800	109
110							27.2	127.5	23,500	110
115							16.1	114.9	22,100	115
117							8.3	105.6	21,500	117

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



98.4 ft



80.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
33	74.3	182.4	88,200 d							33
34	73.6	182.2	88,100 d							34
36	72.1	181.5	88,000 d							36
38	70.6	180.9	87,900 c							38
40	69.1	180.1	84,400 c							40
42	67.5	179.3	80,600 c							42
44	66.0	178.5	77,200 c							44
45	65.2	178.0	75,600 c	70.5	180.1	89,900 c				45
46	64.4	177.6	74,100 c	69.7	179.7	88,200 c				46
48	62.8	176.6	71,200 b	68.2	178.9	83,400 c				48
50	61.2	175.5	68,600 b	66.6	178.1	79,100 c				50
54	57.8	173.1	64,000 b	63.5	176.2	71,800 c	67.5	177.7	69,300 c	54
55	57.0	172.5	62,900 b	62.7	175.7	70,000 b	66.7	177.3	67,700 c	55
60	52.6	169.0	58,100 b	58.6	172.9	62,700 b	62.7	174.9	60,600 b	60
65	47.9	164.8	54,200	54.3	169.6	56,600 b	58.6	172.1	54,800 b	65
69	43.9	160.9	51,500	50.6	166.5	52,600 b	55.2	169.4	50,900 b	69
70	42.9	159.9	50,800	49.7	165.7	51,600	54.3	168.8	49,900 b	70
75	37.4	154.0	48,000	44.8	161.1	47,300	49.8	164.9	45,700	75
80	31.0	146.6	45,500	39.5	155.5	43,600	44.9	160.3	42,200	80
83	26.2	140.7	43,500	35.9	151.5	41,700	41.7	157.0	40,300	83
85	23.1	136.8	42,100	33.5	148.8	40,400	39.6	154.8	39,100	85
90	10.8	120.4	39,100	26.3	140.1	37,500	33.6	148.0	36,300	90
91	5.8	113.5	38,500	24.3	137.5	37,000	32.1	146.3	35,800	91
95				16.4	127.2	35,000	26.4	139.4	33,900	95
96				12.5	121.8	34,500	24.5	136.8	33,400	96
98				4.6	111.0	33,500	20.5	131.7	32,500	98
100							16.6	126.7	31,600	100
103							5.3	111.2	30,300	103
105										105
110										110
111										111
115										115
119										119
120										120
125										125
127										127

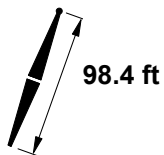


# MLC150-1 S-2

ASME B30.5



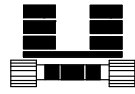
110,500 lb  
+  
35,000 lb



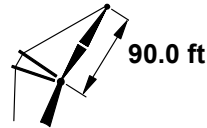
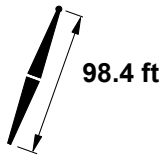
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
33										33
34										34
36										36
38										38
40										40
42										42
44										44
45										45
46										46
48										48
50										50
54										54
55										55
60										60
65										65
69	62.2	172.5	47,900 b							69
70	61.4	172.0	47,100 b							70
75	57.2	169.0	43,200 b							75
80	52.9	165.5	39,800 b							80
83	50.1	163.0	38,000 b	57.4	166.3	35,700 b				83
85	48.2	161.4	36,800	55.7	165.0	34,600 b				85
90	43.2	156.5	34,200	51.2	161.3	32,200				90
91	42.1	155.3	33,800	50.2	160.4	31,800				91
95	37.7	150.7	31,900	46.4	156.9	30,000				95
96	36.4	149.2	31,500	45.4	155.9	29,600	52.9	159.3	27,800 b	96
98	33.9	146.3	30,700	43.3	153.8	28,900	51.1	157.7	27,100 b	98
100	31.4	143.4	29,900	41.3	151.7	28,100	49.2	156.0	26,300	100
103	26.7	137.6	28,800	37.8	147.9	27,000	46.3	153.2	25,400	103
105	23.6	133.8	28,000	35.5	145.4	26,300	44.3	151.3	24,700	105
110	11.9	118.2	26,300	28.8	137.4	24,800	38.9	145.7	23,200	110
111	7.6	112.4	25,900	27.0	135.2	24,500	37.7	144.3	22,900	111
115				20.1	126.4	23,300	32.8	138.8	21,900	115
119				8.4	110.6	22,100	26.9	131.6	20,800	119
120							25.4	129.8	20,600	120
125							15.0	116.2	19,400	125
127							7.8	106.3	18,900	127

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



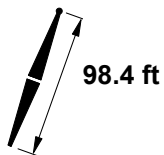
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
35	74.8	192.3	80,200 d							35
36	74.1	192.0	80,200 d							36
38	72.8	191.4	80,000 c							38
40	71.5	190.8	79,900 c							40
42	70.1	190.1	79,700 c							42
44	68.8	189.3	77,000 c							44
46	67.4	188.5	73,800 c							46
48	66.0	187.6	70,900 b	70.7	189.6	81,400 c				48
50	64.6	186.7	68,200 b	69.4	188.9	78,900 c				50
55	61.0	184.2	62,500 b	65.9	186.8	69,800 b				55
58	58.8	182.4	59,600 b	63.8	185.4	65,400 b	67.4	186.8	63,000 c	58
60	57.3	181.2	57,600 b	62.4	184.4	62,500 b	66.0	186.0	60,400 b	60
65	53.5	177.7	53,700	58.7	181.6	56,400 b	62.4	183.6	54,600 b	65
70	49.4	173.7	50,200	54.9	178.3	51,400	58.8	180.7	49,700 b	70
73	46.8	171.0	48,400	52.5	176.0	48,800	56.5	178.8	47,200 b	73
75	45.0	169.1	47,300	50.9	174.5	47,100	55.0	177.5	45,500	75
80	40.4	163.7	44,700	46.7	170.1	43,500	51.0	173.7	42,000	80
85	35.2	157.2	42,100	42.1	165.0	40,300	46.8	169.3	38,900	85
88	31.6	152.5	40,300	39.1	161.4	38,600	44.0	166.3	37,200	88
90	29.2	149.3	39,100	37.1	159.0	37,400	42.2	164.3	36,200	90
95	21.8	138.8	36,500	31.5	151.7	34,900	37.2	158.2	33,700	95
100	10.2	121.3	34,100	24.7	142.3	32,700	31.6	150.9	31,600	100
101	5.5	114.0	33,600	22.9	139.6	32,300	30.3	149.1	31,200	101
102				21.0	136.8	31,900	28.9	147.2	30,800	102
105				15.5	128.6	30,600	24.9	141.6	29,600	105
108				4.3	111.4	29,400	19.4	133.5	28,500	108
110							15.7	128.1	27,800	110
113							5.0	111.7	26,700	113
115										115
120										120
121										121
125										125
129										129
130										130
135										135
137										137

# MLC150-1 S-2

ASME B30.5



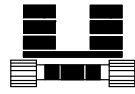
110,500 lb  
+  
35,000 lb



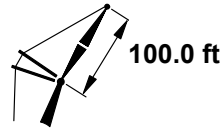
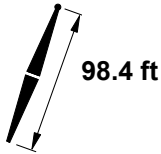
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
35									35	
36									36	
38									38	
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
55									55	
58									58	
60									60	
65									65	
70									70	
73	62.7	181.7	44,400 b						73	
75	61.3	180.6	42,900 b						75	
80	57.6	177.7	39,500 b						80	
85	53.7	174.3	36,600						85	
88	51.3	171.9	35,100	57.7	175.0	32,900 b			88	
90	49.6	170.3	34,000	56.1	173.7	32,000			90	
95	45.3	165.7	31,800	52.2	170.1	29,800			95	
100	40.6	160.3	29,700	48.1	165.9	27,900			100	
101	39.6	159.1	29,400	47.2	164.9	27,500			101	
102	38.6	157.8	29,000	46.3	164.0	27,200	52.9	167.3	25,400	102
105	35.5	154.0	27,900	43.6	161.1	26,200	50.5	164.9	24,500	105
108	31.9	149.2	26,900	40.7	157.6	25,200	47.9	162.2	23,600	108
110	29.6	146.1	26,200	38.8	155.3	24,600	46.2	160.5	23,000	110
113	25.2	139.9	25,300	35.6	151.2	23,700	43.5	157.3	22,200	113
115	22.3	135.8	24,700	33.4	148.5	23,200	41.6	155.3	21,700	115
120	11.2	119.2	23,200	27.1	139.9	21,900	36.6	149.1	20,400	120
121	7.2	113.0	22,900	25.4	137.5	21,600	35.4	147.6	20,200	121
125				18.9	128.1	20,600	30.9	141.6	19,300	125
129				7.9	111.4	19,700	25.3	133.9	18,500	129
130							23.9	132.0	18,300	130
135							14.2	117.5	17,200	135
137							7.3	107.0	16,800	137

# MLC150-1 S-2

ASME B30.5



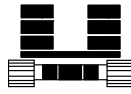
110,500 lb  
+  
35,000 lb



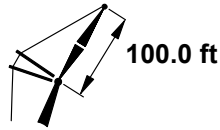
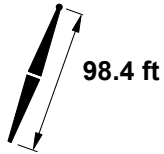
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
38	74.6	201.8	73,500 c							38
40	73.4	201.2	73,400 c							40
42	72.2	200.6	73,200 c							42
44	71.0	200.0	73,000 c							44
46	69.8	199.2	72,600 c							46
48	68.5	198.5	70,800 b							48
50	67.3	197.7	68,000 b							50
51	66.7	197.2	66,800 b	70.9	199.1	74,300 c				51
55	64.2	195.4	62,100 b	68.4	197.7	69,500 b				55
60	60.9	192.8	57,300	65.3	195.5	62,100 b				60
61	60.3	192.2	56,400	64.7	195.0	60,900 b	67.9	196.4	58,800 b	61
65	57.6	189.8	53,200	62.1	193.1	56,100 b	65.4	194.7	54,200 b	65
70	54.1	186.5	49,700	58.8	190.2	51,100	62.2	192.2	49,300 b	70
75	50.5	182.6	46,700	55.4	187.0	46,800	58.9	189.4	45,200	75
78	48.2	179.9	45,200	53.3	184.8	44,600	56.9	187.5	43,100	78
80	46.7	178.2	44,100	51.9	183.3	43,200	55.5	186.2	41,700	80
85	42.6	173.1	41,800	48.1	179.1	40,000	51.9	182.5	38,600	85
90	38.2	167.2	38,900	44.2	174.3	37,200	48.2	178.3	35,900	90
93	35.3	163.1	37,400	41.6	171.0	35,700	45.8	175.4	34,400	93
95	33.3	160.3	36,300	39.9	168.8	34,700	44.2	173.5	33,500	95
100	27.6	151.8	34,000	35.2	162.3	32,500	40.0	168.0	31,300	100
105	20.6	140.6	31,900	29.8	154.4	30,500	35.3	161.5	29,400	105
108	14.0	129.5	30,700	26.0	148.4	29,400	32.1	156.8	28,300	108
110	9.6	122.1	29,900	23.4	144.4	28,600	29.9	153.7	27,600	110
111	5.2	114.4	29,500	21.7	141.5	28,300	28.7	151.7	27,300	111
115				14.7	130.0	27,000	23.6	143.8	26,000	115
118				4.1	111.8	25,900	18.4	135.2	25,100	118
120							14.9	129.4	24,500	120
123							4.8	112.1	23,600	123
125										125
130										130
131										131
135										135
139										139
140										140
145										145
147										147

# MLC150-1 S-2

ASME B30.5



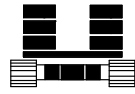
110,500 lb  
+  
35,000 lb



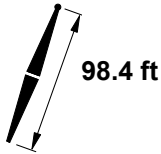
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	lb		
38									38	
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
51									51	
55									55	
60									60	
61									61	
65									65	
70									70	
75									75	
78	62.4	190.4	40,500 lb						78	
80	61.1	189.3	39,200						80	
85	57.8	186.3	36,300						85	
90	54.3	183.0	33,700						90	
93	52.2	180.7	32,300	57.9	183.7	30,200			93	
95	50.7	179.1	31,400	56.5	182.4	29,400			95	
100	46.9	174.8	29,400	53.0	178.8	27,500			100	
105	42.9	169.8	27,600	49.4	174.8	25,800			105	
108	40.2	166.3	26,600	47.0	172.1	24,900	52.9	175.3	23,200	
110	38.5	163.9	25,900	45.5	170.2	24,200	51.5	173.7	22,600	
111	37.5	162.6	25,600	44.6	169.2	24,000	50.7	172.9	22,300	
115	33.6	157.1	24,400	41.3	164.9	22,800	47.7	169.5	21,300	
118	30.2	152.0	23,600	38.6	161.2	22,100	45.3	166.5	20,600	
120	28.0	148.7	23,100	36.7	158.8	21,600	43.7	164.6	20,100	
123	23.9	142.1	22,300	33.7	154.3	20,800	41.1	161.2	19,400	
125	21.1	137.7	21,800	31.6	151.4	20,400	39.4	159.0	19,000	
130	10.6	120.1	20,600	25.7	142.2	19,300	34.7	152.3	17,900	
131	6.8	113.6	20,300	24.1	139.7	19,100	33.6	150.7	17,700	
135				17.9	129.7	18,200	29.2	144.3	17,000	
139				7.5	112.0	17,400	24.0	136.1	16,300	
140							22.7	134.0	16,100	
145							13.4	118.7	15,200	
147							7.0	107.6	14,900	

# MLC150-1 S-2

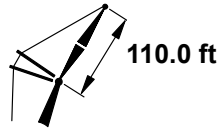
ASME B30.5



110,500 lb  
+  
35,000 lb



98.4 ft



110.0 ft

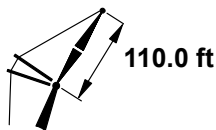
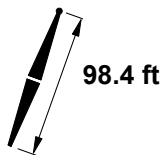
ft	87°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
40	74.9	211.6	67,700 c							40
42	73.9	211.1	67,500 c							42
44	72.8	210.5	67,300 c							44
46	71.7	209.8	67,200 b							46
48	70.6	209.2	66,300 b							48
50	69.5	208.4	65,300 b							50
55	66.7	206.4	62,100 b	70.5	208.3	66,600 b				55
60	63.8	204.1	57,200	67.7	206.4	62,000 b				60
65	60.8	201.5	53,000	64.9	204.2	56,000	67.8	205.6	54,100 b	65
70	57.8	198.5	49,500	61.9	201.7	51,000	64.9	203.4	49,200	70
75	54.7	195.2	46,500	59.0	198.9	46,800	62.0	200.9	45,100	75
80	51.4	191.4	43,900	55.9	195.7	43,100	59.0	198.1	41,600	80
82	50.1	189.7	42,900	54.6	194.3	41,800	57.8	196.8	40,300	82
85	48.0	187.2	41,600	52.6	192.1	39,900	55.9	194.9	38,500	85
90	44.4	182.4	38,900	49.3	188.0	37,100	52.7	191.3	35,800	90
95	40.5	176.9	36,300	45.8	183.5	34,600	49.4	187.2	33,400	95
99	37.2	171.9	34,400	42.8	179.3	32,900	46.5	183.6	31,700	99
100	36.4	170.6	34,000	42.0	178.3	32,400	45.8	182.7	31,300	100
105	31.7	163.2	31,900	38.0	172.3	30,400	42.1	177.5	29,300	105
110	26.3	154.2	30,000	33.5	165.3	28,700	38.0	171.5	27,600	110
114	21.0	144.8	28,700	29.4	158.7	27,300	34.5	166.0	26,400	114
115	19.7	142.4	28,300	28.4	157.0	27,000	33.6	164.6	26,000	115
120	9.2	123.0	26,700	22.3	146.5	25,500	28.5	156.3	24,600	120
121	4.9	114.9	26,400	20.7	143.4	25,200	27.3	154.2	24,300	121
125				14.0	131.2	24,100	22.5	145.8	23,300	125
128				3.9	112.2	23,300	17.5	136.7	22,500	128
130							14.2	130.7	22,000	130
133							4.6	112.5	21,300	133
135										135
140										140
141										141
145										145
149										149
150										150
155										155
157										157

# MLC150-1 S-2

ASME B30.5



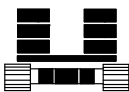
110,500 lb  
+  
35,000 lb



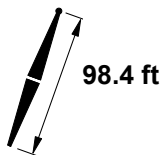
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
42										42
44										44
46										46
48										48
50										50
55										55
60										60
65										65
70										70
75										75
80										80
82	62.8	199.6	37,900							82
85	61.0	198.0	36,200							85
90	58.0	195.0	33,600							90
95	54.9	191.7	31,400							95
99	52.3	188.7	29,700	57.5	191.7	27,800				99
100	51.6	188.0	29,300	56.9	191.1	27,400				100
105	48.2	183.8	27,500	53.7	187.6	25,700				105
110	44.6	179.0	25,900	50.4	183.7	24,200				110
114	41.5	174.7	24,700	47.6	180.2	23,100	53.0	183.3	21,500	114
115	40.8	173.6	24,400	46.9	179.3	22,800	52.3	182.5	21,200	115
120	36.6	167.3	23,100	43.2	174.3	21,500	48.9	178.4	20,000	120
121	35.7	165.9	22,800	42.4	173.2	21,300	48.2	177.5	19,800	121
125	32.0	160.0	21,800	39.3	168.6	20,400	45.4	173.8	18,900	125
128	28.8	154.7	21,100	36.7	164.6	19,700	43.1	170.6	18,300	128
130	26.7	151.1	20,700	35.0	162.0	19,300	41.6	168.5	17,900	130
133	22.7	144.2	20,000	32.1	157.3	18,700	39.1	164.9	17,400	133
135	20.1	139.6	19,600	30.1	154.2	18,300	37.5	162.4	17,000	135
140	10.1	121.0	18,500	24.4	144.5	17,300	33.0	155.4	16,100	140
141	6.5	114.2	18,300	23.0	141.8	17,200	32.0	153.7	15,900	141
145				17.1	131.3	16,400	27.9	146.9	15,300	145
149				7.2	112.7	15,700	22.9	138.2	14,700	149
150							21.6	136.0	14,500	150
155							12.8	119.9	13,800	155
157							6.6	108.2	13,400	157

# MLC150-1 S-2

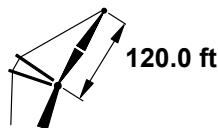
ASME B30.5



110,500 lb  
+  
35,000 lb



98.4 ft



120.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
43	74.7	221.2	61,900 c							43
44	74.2	220.9	61,800 c							44
46	73.3	220.3	61,500 b							46
48	72.3	219.7	61,400 b							48
50	71.2	219.0	60,500 b							50
55	68.7	217.2	58,300 b							55
58	67.1	216.0	57,100 b	70.7	217.9	60,300 b				58
60	66.1	215.1	56,200	69.6	217.2	59,500 b				60
65	63.5	212.8	52,900	67.1	215.2	55,700				65
69	61.3	210.7	50,000	65.0	213.4	51,700	67.6	214.8	49,800	69
70	60.8	210.1	49,300	64.5	212.9	50,700	67.1	214.3	48,900	70
75	58.0	207.2	46,200	61.8	210.4	46,500	64.5	212.1	44,800	75
80	55.1	203.9	43,500	59.0	207.6	42,800	61.8	209.6	41,300	80
85	52.2	200.2	41,200	56.2	204.4	39,600	59.1	206.7	38,200	85
87	50.9	198.6	40,200	55.0	203.0	38,500	58.0	205.5	37,100	87
90	49.1	196.1	38,600	53.3	200.9	36,800	56.3	203.6	35,500	90
95	45.9	191.5	36,100	50.2	196.9	34,400	53.3	200.0	33,100	95
100	42.4	186.4	33,800	47.1	192.5	32,200	50.3	196.1	31,000	100
104	39.5	181.7	32,100	44.4	188.6	30,600	47.8	192.6	29,400	104
105	38.8	180.5	31,700	43.7	187.6	30,200	47.1	191.7	29,100	105
110	34.8	173.8	29,800	40.1	182.0	28,400	43.8	186.8	27,300	110
115	30.3	166.0	28,100	36.3	175.7	26,800	40.2	181.2	25,800	115
120	25.2	156.5	26,600	32.0	168.3	25,300	36.4	174.9	24,300	120
125	18.8	144.1	25,100	27.2	159.5	23,900	32.1	167.6	23,000	125
130	8.8	123.7	23,800	21.4	148.4	22,700	27.3	158.8	21,800	130
131	4.7	115.3	23,500	19.8	145.2	22,400	26.1	156.6	21,600	131
135				13.4	132.4	21,500	21.5	147.8	20,700	135
138				3.7	112.5	20,800	16.7	138.3	20,000	138
140							13.6	131.9	19,600	140
143							4.4	112.9	19,000	143
145										145
150										150
151										151
155										155
159										159
160										160
165										165
167										167

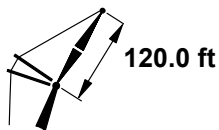
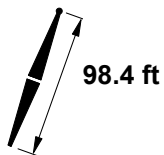


# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



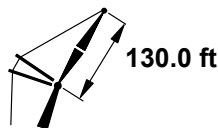
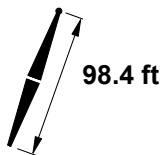
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	lb		
43									43	
44									44	
46									46	
48									48	
50									50	
55									55	
58									58	
60									60	
65									65	
69									69	
70									70	
75									75	
80									80	
85									85	
87	62.6	208.2	34,800						87	
90	60.9	206.6	33,300						90	
95	58.2	203.7	31,000						95	
100	55.3	200.4	29,000						100	
104	53.0	197.5	27,600	57.7	200.4	25,700			104	
105	52.4	196.7	27,200	57.1	199.7	25,400			105	
110	49.3	192.7	25,600	54.2	196.3	23,800			110	
115	46.1	188.1	24,100	51.2	192.5	22,400			115	
120	42.6	183.0	22,700	48.1	188.3	21,200	53.0	191.3	19,600	
125	39.0	177.2	21,500	44.8	183.5	20,000	49.9	187.3	18,600	
130	35.0	170.6	20,400	41.3	178.2	18,900	46.7	182.8	17,600	
131	34.1	169.0	20,200	40.6	176.9	18,700	46.0	181.8	17,400	
135	30.6	162.8	19,300	37.6	172.1	18,000	43.4	177.8	16,600	
138	27.6	157.2	18,700	35.1	167.9	17,400	41.2	174.5	16,100	
140	25.5	153.4	18,300	33.4	165.1	17,000	39.8	172.2	15,800	
143	21.8	146.1	17,800	30.7	160.1	16,500	37.4	168.3	15,300	
145	19.3	141.3	17,400	28.8	156.8	16,200	35.9	165.8	15,000	
150	9.7	121.9	16,500	23.4	146.6	15,400	31.6	158.3	14,200	
151	6.2	114.7	16,300	22.0	143.8	15,200	30.6	156.5	14,100	
155				16.4	132.8	14,600	26.6	149.3	13,500	
159				6.9	113.3	14,000	21.9	140.1	13,000	
160							20.7	137.9	12,800	
165							12.3	121.0	12,200	
167							6.4	108.8	11,900	

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



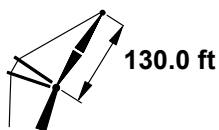
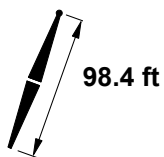
ft	87°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
46	74.6	230.7	47,700 b							46
48	73.7	230.2	47,400 b							48
50	72.7	229.6	47,000 b							50
55	70.4	227.9	46,200 b							55
60	68.1	226.0	45,300							60
61	67.6	225.6	45,200	70.8	227.4	46,700 b				61
65	65.7	223.9	44,500	68.9	226.0	46,100				65
70	63.2	221.5	43,800	66.5	223.9	45,500				70
73	61.7	219.9	43,300	65.1	222.5	45,100	67.6	223.9	45,600	73
75	60.7	218.8	43,000	64.1	221.6	44,900	66.6	223.1	44,500	75
80	58.2	215.8	41,800	61.6	219.1	42,600	64.2	220.8	41,000	80
85	55.5	212.6	40,300	59.1	216.2	39,400	61.7	218.2	37,900	85
90	52.8	209.0	38,400	56.5	213.1	36,600	59.2	215.4	35,200	90
91	52.2	208.2	37,900	56.0	212.4	36,100	58.6	214.8	34,800	91
95	50.0	205.0	35,900	53.8	209.6	34,100	56.6	212.3	32,900	95
100	47.0	200.6	33,600	51.0	205.7	31,900	53.9	208.8	30,700	100
105	44.0	195.6	31,500	48.1	201.5	30,000	51.1	204.9	28,800	105
109	41.3	191.2	30,000	45.7	197.7	28,600	48.8	201.5	27,500	109
110	40.7	190.1	29,600	45.1	196.8	28,200	48.2	200.7	27,100	110
115	37.2	184.0	28,000	41.9	191.5	26,600	45.2	196.0	25,600	115
120	33.4	176.9	26,400	38.5	185.6	25,100	42.0	190.7	24,100	120
125	29.1	168.6	25,000	34.8	178.9	23,800	38.6	184.8	22,800	125
126	28.1	166.6	24,700	34.0	177.3	23,500	37.8	183.5	22,600	126
130	24.2	158.7	23,700	30.7	171.1	22,500	34.9	178.1	21,600	130
135	18.1	145.7	22,500	26.1	161.8	21,400	30.8	170.4	20,500	135
140	8.4	124.5	21,300	20.5	150.2	20,300	26.2	161.2	19,500	140
141	4.5	115.7	21,100	19.0	146.9	20,100	25.1	158.8	19,300	141
145				12.9	133.6	19,300	20.6	149.6	18,500	145
148				3.6	112.8	18,600	16.1	139.7	18,000	148
150							13.0	133.1	17,600	150
153							4.2	113.3	17,000	153
155										155
160										160
161										161
165										165
169										169
170										170
175										175
177										177

# MLC150-1 S-2

ASME B30.5



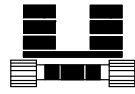
110,500 lb  
+  
35,000 lb



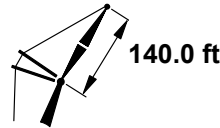
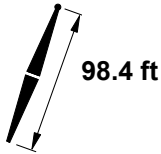
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
46										46
48										48
50										50
55										55
60										60
61										61
65										65
70										70
73										73
75										75
80										80
85										85
90										90
91	62.9	217.4	32,500							91
95	60.9	215.3	30,800							95
100	58.3	212.3	28,700							100
105	55.7	209.1	27,000							105
109	53.5	206.2	25,700	57.9	209.0	23,900				109
110	53.0	205.5	25,300	57.4	208.4	23,600				110
115	50.2	201.5	23,900	54.7	205.0	22,200				115
120	47.2	197.1	22,500	51.9	201.3	20,900				120
125	44.1	192.3	21,300	49.1	197.2	19,800				125
126	43.5	191.2	21,100	48.5	196.3	19,600	53.0	199.3	18,100	126
130	40.9	186.8	20,200	46.1	192.6	18,700	50.7	196.1	17,300	130
135	37.4	180.7	19,100	43.0	187.5	17,700	47.8	191.8	16,400	135
140	33.6	173.6	18,100	39.6	181.8	16,800	44.8	187.1	15,500	140
141	32.7	172.0	18,000	38.9	180.6	16,700	44.1	186.0	15,400	141
145	29.4	165.5	17,200	36.0	175.4	16,000	41.6	181.7	14,700	145
148	26.4	159.6	16,700	33.7	171.0	15,500	39.5	178.1	14,300	148
150	24.5	155.6	16,400	32.1	168.0	15,200	38.1	175.7	14,000	150
153	20.9	148.0	15,900	29.4	162.8	14,700	35.9	171.6	13,600	153
155	18.5	142.9	15,600	27.7	159.3	14,400	34.4	168.9	13,300	155
160	9.3	122.7	14,800	22.5	148.6	13,700	30.3	161.0	12,600	160
161	6.0	115.3	14,600	21.1	145.7	13,600	29.3	159.1	12,500	161
165				15.7	134.2	13,100	25.6	151.6	12,000	165
169				6.6	113.9	12,500	21.0	142.0	11,500	169
170							19.9	139.7	11,400	170
175							11.8	122.0	10,800	175
177							6.1	109.3	10,600	177

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



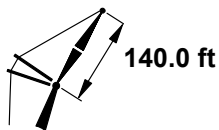
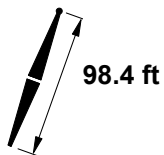
ft	87°			83°			80°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
48	74.9	240.5	44,400 b						48	
50	74.0	240.0	44,000 b						50	
55	71.9	238.5	43,300 b						55	
60	69.7	236.7	42,600						60	
64	67.9	235.1	42,000	70.9	237.0	43,200			64	
65	67.5	234.8	41,800	70.5	236.6	43,100			65	
70	65.3	232.6	41,100	68.3	234.7	42,600			70	
75	63.0	230.1	39,700	66.1	232.6	42,000			75	
76	62.5	229.6	39,400	65.6	232.2	41,700	67.9	233.5	42,200	76
80	60.7	227.5	38,300	63.8	230.3	40,600	66.1	231.8	40,700	80
85	58.3	224.5	36,800	61.5	227.7	39,100	63.9	229.5	37,600	85
90	55.9	221.3	35,400	59.2	224.9	36,300	61.6	226.9	34,900	90
95	53.3	217.7	34,000	56.8	221.8	33,800	59.2	224.1	32,500	95
96	52.8	216.9	33,700	56.3	221.1	33,400	58.7	223.4	32,100	96
100	50.7	213.8	32,600	54.3	218.3	31,700	56.8	220.9	30,400	100
105	48.1	209.5	31,200	51.7	214.5	29,700	54.3	217.5	28,500	105
110	45.2	204.8	29,400	49.1	210.4	27,900	51.8	213.7	26,800	110
115	42.3	199.6	27,700	46.3	205.9	26,300	49.1	209.6	25,300	115
120	39.1	193.8	26,200	43.4	200.8	24,800	46.3	205.1	23,800	120
125	35.8	187.3	24,800	40.3	195.2	23,500	43.4	200.0	22,500	125
130	32.1	179.8	23,500	37.0	189.0	22,300	40.4	194.5	21,400	130
132	30.5	176.4	23,000	35.6	186.2	21,800	39.1	192.0	20,900	132
135	28.0	171.2	22,300	33.5	181.9	21,100	37.1	188.2	20,200	135
140	23.3	160.8	21,200	29.6	173.8	20,100	33.6	181.2	19,200	140
145	17.4	147.3	20,100	25.1	164.1	19,100	29.7	173.1	18,300	145
150	8.1	125.2	19,100	19.8	152.0	18,100	25.2	163.4	17,400	150
151	4.4	116.1	18,900	18.3	148.6	18,000	24.2	161.0	17,200	151
155				12.4	134.7	17,300	19.9	151.4	16,500	155
158				3.5	113.1	16,700	15.5	141.1	16,100	158
160							12.6	134.2	15,700	160
163							4.0	113.6	15,200	163
165										165
170										170
171										171
175										175
179										179
180										180
185										185
187										187

# MLC150-1 S-2

ASME B30.5



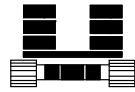
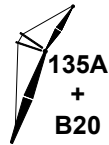
110,500 lb  
+  
35,000 lb



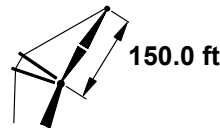
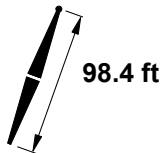
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
48										48
50										50
55										55
60										60
64										64
65										65
70										70
75										75
76										76
80										80
85										85
90										90
95										95
96	62.7	226.1	30,000							96
100	60.8	223.9	28,400							100
105	58.4	221.0	26,600							105
110	56.0	217.8	25,000							110
115	53.5	214.3	23,500	57.5	217.1	21,800				115
120	50.9	210.4	22,200	55.1	213.7	20,600				120
125	48.2	206.1	21,000	52.5	210.1	19,400				125
130	45.4	201.4	19,800	49.9	206.1	18,400				130
132	44.2	199.3	19,400	48.8	204.3	18,000	53.0	207.3	16,500	132
135	42.5	196.2	18,800	47.2	201.7	17,400	51.4	205.0	16,000	135
140	39.3	190.5	17,800	44.3	196.8	16,500	48.8	200.8	15,200	140
145	36.0	184.0	16,900	41.3	191.4	15,600	46.0	196.2	14,400	145
150	32.3	176.6	16,100	38.1	185.4	14,900	43.1	191.1	13,600	150
151	31.5	174.9	16,000	37.4	184.0	14,700	42.5	190.0	13,500	151
155	28.3	168.1	15,300	34.7	178.6	14,100	40.0	185.4	12,900	155
158	25.5	161.9	14,900	32.4	173.9	13,700	38.0	181.6	12,600	158
160	23.6	157.8	14,600	30.9	170.8	13,400	36.7	179.1	12,300	160
163	20.1	149.8	14,200	28.3	165.4	13,000	34.5	174.8	11,900	163
165	17.8	144.5	13,900	26.6	161.7	12,800	33.1	172.0	11,700	165
170	9.0	123.5	13,200	21.6	150.6	12,200	29.2	163.7	11,100	170
171	5.8	115.8	13,000	20.3	147.5	12,000	28.2	161.7	11,000	171
175				15.1	135.5	11,600	24.6	153.8	10,600	175
179				6.4	114.4	11,100	20.2	143.9	10,200	179
180							19.1	141.4	10,100	180
185							11.4	123.0	9,500	185
187							5.9	109.8	9,300	187

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



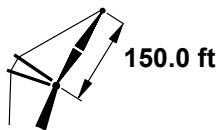
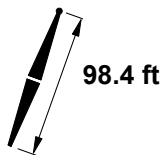
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
51	74.7	250.1	41,100 b						51	
55	73.1	248.9	40,600 b						55	
60	71.1	247.3	39,900						60	
65	69.1	245.5	39,200						65	
68	67.8	244.3	38,500	70.6	246.2	39,900			68	
70	67.0	243.5	38,100	69.8	245.5	39,700			70	
75	64.9	241.3	36,700	67.8	243.5	38,800			75	
80	62.8	238.8	35,300	65.7	241.4	37,400	67.8	242.7	38,100	
85	60.6	236.1	33,800	63.6	239.0	36,000	65.7	240.5	37,200	
90	58.4	233.2	32,500	61.4	236.4	34,600	63.6	238.2	34,800	
95	56.1	230.0	31,100	59.2	233.5	33,200	61.5	235.6	32,400	
100	53.8	226.5	29,900	57.0	230.4	31,500	59.3	232.7	30,300	
105	51.4	222.6	28,600	54.7	227.0	29,600	57.0	229.6	28,400	
110	48.9	218.5	27,400	52.3	223.3	27,800	54.7	226.2	26,700	
115	46.3	213.9	26,300	49.8	219.3	26,200	52.3	222.5	25,200	
120	43.6	208.9	25,200	47.3	214.9	24,700	49.9	218.5	23,700	
125	40.8	203.4	24,100	44.6	210.0	23,400	47.3	214.1	22,400	
130	37.8	197.3	23,100	41.8	204.7	22,200	44.7	209.3	21,300	
135	34.5	190.4	22,200	38.9	198.8	21,000	41.9	203.9	20,200	
139	31.7	184.2	21,300	36.4	193.6	20,200	39.5	199.2	19,400	
140	31.0	182.6	21,100	35.7	192.3	20,000	39.0	198.1	19,100	
145	27.1	173.6	20,100	32.3	184.9	19,000	35.8	191.5	18,200	
150	22.5	162.8	19,100	28.6	176.4	18,100	32.4	184.1	17,300	
155	16.8	148.8	18,200	24.3	166.3	17,200	28.6	175.7	16,500	
160	7.9	125.9	17,400	19.1	153.7	16,400	24.4	165.6	15,700	
161	4.2	116.5	17,200	17.7	150.1	16,300	23.3	163.1	15,600	
165				12.0	135.7	15,700	19.2	153.1	15,000	
168				3.4	113.4	15,200	15.0	142.4	14,600	
170							12.1	135.3	14,300	
173							3.9	114.0	13,800	
175									175	
180									180	
181									181	
185									185	
189									189	
190									190	
195									195	
197									197	

# MLC150-1 S-2

ASME B30.5



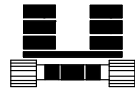
110,500 lb  
+  
35,000 lb



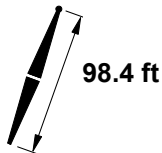
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
51										51
55										55
60										60
65										65
68										68
70										70
75										75
80										80
85										85
90										90
95										95
100	62.9	235.3	28,300							100
105	60.8	232.6	26,500							105
110	58.5	229.7	24,900							110
115	56.3	226.5	23,400							115
120	53.9	223.0	22,100	57.7	225.7	20,500				120
125	51.5	219.2	20,900	55.4	222.4	19,300				125
130	49.1	215.0	19,700	53.1	218.8	18,300				130
135	46.5	210.5	18,700	50.6	214.9	17,300				135
139	44.3	206.5	17,900	48.6	211.5	16,600	52.5	214.5	15,200	139
140	43.8	205.5	17,800	48.1	210.6	16,400	52.0	213.7	15,100	140
145	41.0	200.0	16,900	45.5	205.9	15,600	49.6	209.7	14,300	145
150	37.9	194.0	16,000	42.8	200.8	14,800	47.0	205.2	13,500	150
155	34.7	187.2	15,300	39.9	195.1	14,000	44.4	200.3	12,900	155
160	31.2	179.5	14,500	36.8	188.8	13,400	41.6	195.0	12,200	160
161	30.4	177.7	14,400	36.1	187.3	13,200	41.0	193.8	12,100	161
165	27.3	170.5	13,900	33.5	181.7	12,700	38.6	189.0	11,600	165
168	24.6	164.1	13,500	31.3	176.8	12,400	36.7	185.0	11,300	168
170	22.8	159.8	13,200	29.8	173.5	12,100	35.4	182.4	11,100	170
173	19.4	151.6	12,800	27.4	167.8	11,800	33.3	177.9	10,700	173
175	17.2	146.1	12,600	25.7	164.0	11,500	32.0	174.9	10,500	175
180	8.7	124.3	12,000	20.9	152.4	11,000	28.2	166.2	10,000	180
181	5.6	116.3	11,800	19.6	149.3	10,900	27.3	164.2	9,900	181
185				14.6	136.8	10,500	23.8	156.0	9,500	185
189				6.1	115.0	10,000	19.5	145.6	9,200	189
190							18.5	143.0	9,100	190
195							11.0	124.0	8,600	195
197							5.7	110.3	8,400	197

# MLC150-1 S-2

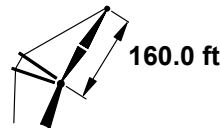
ASME B30.5



110,500 lb  
+  
35,000 lb



98.4 ft



160.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
53	74.9	259.9	37,100 b							53
55	74.2	259.4	36,900 b							55
60	72.3	257.9	36,400							60
65	70.4	256.2	35,900							65
70	68.5	254.3	34,900							70
71	68.1	253.9	34,600	70.8	255.7	34,700				71
75	66.6	252.2	33,400	69.2	254.3	34,600				75
80	64.6	250.0	32,100	67.3	252.3	34,000				80
84	63.0	248.0	31,000	65.7	250.5	33,000	67.7	251.8	32,900	84
85	62.6	247.5	30,700	65.4	250.1	32,700	67.3	251.4	32,800	85
90	60.6	244.8	29,400	63.4	247.7	31,400	65.4	249.2	32,500	90
95	58.5	241.8	28,100	61.3	245.1	30,100	63.4	246.8	31,400	95
100	56.4	238.7	26,800	59.3	242.2	28,800	61.4	244.2	30,000	100
105	54.2	235.2	25,700	57.2	239.1	27,500	59.3	241.4	28,100	105
110	52.0	231.4	24,500	55.0	235.7	26,300	57.2	238.3	26,400	110
115	49.7	227.4	23,300	52.8	232.1	25,100	55.1	234.9	24,900	115
120	47.3	222.9	22,200	50.5	228.1	23,900	52.8	231.3	23,400	120
125	44.8	218.1	21,200	48.2	223.8	22,800	50.6	227.3	22,200	125
130	42.2	212.8	20,200	45.7	219.2	21,800	48.2	223.0	21,000	130
135	39.4	207.0	19,300	43.1	214.1	20,800	45.8	218.4	19,900	135
140	36.5	200.6	18,400	40.5	208.5	19,700	43.2	213.3	18,900	140
145	33.4	193.5	17,600	37.6	202.3	18,800	40.5	207.7	17,900	145
150	30.0	185.4	16,700	34.6	195.5	17,900	37.7	201.6	17,100	150
155	26.2	176.0	16,000	31.3	187.7	17,000	34.6	194.7	16,200	155
160	21.8	164.7	15,300	27.6	178.9	16,200	31.3	187.0	15,500	160
165	16.3	150.2	14,400	23.5	168.4	15,500	27.7	178.2	14,700	165
170	7.6	126.6	13,500	18.5	155.4	14,700	23.6	167.8	14,100	170
171		116.8	13,400	17.1	151.7	14,600	22.6	165.2	13,900	171
175	4.1			11.6	136.8	13,900	18.6	154.8	13,400	175
178				3.2	113.7	13,500	14.5	143.7	13,000	178
180							11.7	136.3	12,800	180
183							3.8	114.3	12,400	183
185										185
190										190
191										191
195										195
199										199
200										200
205										205
207										207

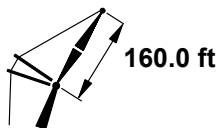
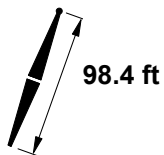


# MLC150-1 S-2

ASME B30.5



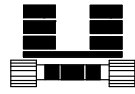
110,500 lb  
+  
35,000 lb



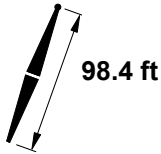
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
53										53
55										55
60										60
65										65
70										70
71										71
75										75
80										80
84										84
85										85
90										90
95										95
100										100
105	62.7	244.0	26,100							105
110	60.7	241.3	24,500							110
115	58.6	238.3	23,100							115
120	56.5	235.2	21,800							120
125	54.3	231.7	20,500	57.9	234.4	19,000				125
130	52.1	228.0	19,400	55.7	231.1	17,900				130
135	49.8	223.9	18,400	53.5	227.6	16,900				135
140	47.4	219.5	17,400	51.3	223.7	16,000				140
145	44.9	214.7	16,600	48.9	219.6	15,200	52.6	222.5	13,900	145
150	42.3	209.5	15,700	46.5	215.0	14,400	50.3	218.5	13,200	150
155	39.6	203.7	15,000	44.0	210.0	13,700	47.9	214.2	12,500	155
160	36.7	197.3	14,200	41.3	204.6	13,000	45.4	209.5	11,900	160
165	33.6	190.2	13,600	38.5	198.6	12,400	42.9	204.3	11,300	165
170	30.2	182.2	12,900	35.6	192.0	11,800	40.2	198.7	10,700	170
171	29.4	180.3	12,800	34.9	190.5	11,700	39.6	197.4	10,600	171
175	26.4	172.9	12,300	32.4	184.6	11,200	37.3	192.4	10,200	175
178	23.8	166.2	12,000	30.3	179.5	10,900	35.5	188.3	9,900	178
180	22.1	161.8	11,800	28.9	176.2	10,700	34.2	185.5	9,700	180
183	18.8	153.3	11,400	26.5	170.2	10,400	32.2	180.8	9,400	183
185	16.7	147.6	11,200	24.9	166.3	10,200	30.9	177.7	9,200	185
190	8.4	125.0	10,600	20.2	154.2	9,700	27.2	168.7	8,800	190
191	5.4	116.8	10,500	19.0	151.0	9,600	26.4	166.6	8,700	191
195				14.2	138.1	9,200	23.0	158.0	8,300	195
199				5.9	115.5	8,800	18.9	147.3	8,000	199
200							17.9	144.6	7,900	200
205							10.6	124.9	7,500	205
207							5.5	110.8	7,300	207

# MLC150-1 S-2

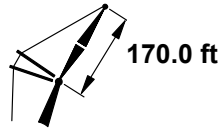
ASME B30.5



110,500 lb  
+  
35,000 lb



98.4 ft

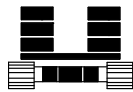


170.0 ft

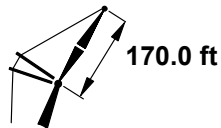
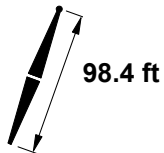
ft	87°			83°			80°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
56	74.8	269.5	32,500						56	
60	73.4	268.3	32,100						60	
65	71.6	266.7	31,600						65	
70	69.8	265.0	31,000						70	
74	68.4	263.5	30,800	70.9	265.3	30,300			74	
75	68.0	263.1	30,800	70.5	264.9	30,200			75	
80	66.2	261.0	29,500	68.7	263.1	29,800			80	
85	64.4	258.7	28,200	66.9	261.0	29,400			85	
88	63.2	257.2	27,400	65.8	259.7	29,000	67.7	261.0	28,500	88
90	62.5	256.2	26,900	65.0	258.8	28,800	66.9	260.2	28,400	90
95	60.6	253.4	25,600	63.2	256.4	27,500	65.1	257.9	28,100	95
100	58.6	250.5	24,500	61.3	253.7	26,300	63.2	255.5	27,500	100
105	56.6	247.3	23,300	59.3	250.9	25,100	61.3	252.9	26,300	105
109	55.0	244.6	22,400	57.7	248.4	24,100	59.7	250.6	25,300	109
110	54.6	243.9	22,200	57.3	247.8	23,900	59.4	250.0	25,100	110
115	52.5	240.2	21,100	55.3	244.4	22,800	57.4	247.0	23,900	115
120	50.3	236.2	20,100	53.2	240.9	21,700	55.4	243.6	22,800	120
125	48.1	231.9	19,100	51.1	237.0	20,600	53.3	240.0	21,700	125
130	45.8	227.2	18,100	48.9	232.8	19,600	51.1	236.2	20,700	130
135	43.4	222.1	17,200	46.6	228.2	18,600	49.0	232.0	19,600	135
140	40.9	216.6	16,300	44.3	223.3	17,700	46.7	227.4	18,600	140
145	38.2	210.6	15,500	41.8	218.0	16,800	44.3	222.5	17,700	145
150	35.4	203.9	14,600	39.2	212.1	15,900	41.8	217.2	16,800	150
151	34.8	202.4	14,500	38.7	210.8	15,700	41.3	216.0	16,700	151
155	32.4	196.4	13,900	36.5	205.7	15,100	39.3	211.3	16,000	155
160	29.1	188.0	12,900	33.5	198.5	14,300	36.5	204.9	15,100	160
165	25.4	178.3	12,000	30.3	190.5	13,300	33.6	197.8	14,400	165
170	21.1	166.6	11,200	26.8	181.3	12,400	30.4	189.8	13,400	170
175	15.8	151.7	10,400	22.8	170.5	11,500	26.9	180.6	12,500	175
180	7.4	127.3	9,700	17.9	157.0	10,700	22.9	169.8	11,600	180
181	4.0	117.2	9,600	16.6	153.1	10,600	21.9	167.1	11,400	181
185				11.2	137.8	10,000	18.0	156.4	10,800	185
188				3.1	114.0	9,600	14.0	145.0	10,300	188
190							11.4	137.3	10,000	190
193							3.7	114.6	9,600	193
195										195
200										200
201										201
205										205
209										209
210										210
215										215
217										217

# MLC150-1 S-2

ASME B30.5



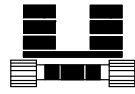
110,500 lb  
+  
35,000 lb



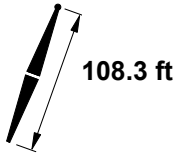
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
56										56
60										60
65										65
70										70
74										74
75										75
80										80
85										85
88										88
90										90
95										95
100										100
105										105
109	63.0	253.1	24,600							109
110	62.6	252.6	24,300							110
115	60.7	249.9	22,800							115
120	58.7	247.0	21,500							120
125	56.7	243.8	20,300							125
130	54.7	240.4	19,200	58.0	243.1	17,600				130
135	52.6	236.7	18,100	56.0	239.8	16,700				135
140	50.4	232.8	17,200	53.9	236.3	15,800				140
145	48.2	228.5	16,300	51.8	232.5	15,000				145
150	45.9	223.8	15,500	49.6	228.4	14,200				150
151	45.4	222.8	15,300	49.2	227.6	14,100	52.6	230.5	12,800	151
155	43.5	218.8	14,700	47.4	224.0	13,500	50.9	227.4	12,300	155
160	41.0	213.3	14,000	45.0	219.2	12,800	48.7	223.1	11,600	160
165	38.4	207.2	13,300	42.6	214.0	12,200	46.4	218.6	11,000	165
170	35.6	200.6	12,700	40.1	208.3	11,600	44.0	213.6	10,500	170
175	32.6	193.2	12,100	37.4	202.1	11,000	41.5	208.2	10,000	175
180	29.3	184.8	11,600	34.5	195.2	10,500	38.9	202.3	9,500	180
181	28.5	182.9	11,400	33.9	193.6	10,400	38.4	201.0	9,400	181
185	25.6	175.2	11,000	31.4	187.5	10,000	36.2	195.8	9,000	185
188	23.1	168.3	10,700	29.3	182.2	9,700	34.4	191.4	8,700	188
190	21.4	163.7	10,500	28.0	178.7	9,500	33.2	188.5	8,500	190
193	18.2	154.9	10,200	25.7	172.5	9,200	31.3	183.7	8,300	193
195	16.2	149.0	10,000	24.1	168.5	9,100	30.0	180.4	8,100	195
200	8.1	125.8	9,500	19.6	156.0	8,600	26.4	171.1	7,700	200
201	5.2	117.2	9,400	18.4	152.7	8,500	25.6	168.9	7,600	201
205				13.7	139.3	8,200	22.3	160.0	7,300	205
209				5.8	116.0	7,800	18.3	148.9	7,000	209
210							17.4	146.2	6,900	210
215							10.3	125.9	6,600	215
217							5.3	111.3	6,400	217

# MLC150-1 S-2

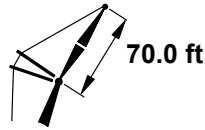
ASME B30.5



110,500 lb  
+  
35,000 lb



108.3 ft

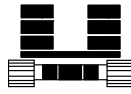


70.0 ft

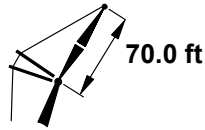
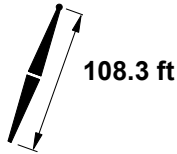
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
31	74.2	182.6	92,600 d							31
32	73.3	182.3	92,600 d							32
34	71.6	181.7	92,500 d							34
36	69.9	181.0	91,000 d							36
38	68.1	180.2	86,600 c							38
40	66.4	179.4	82,700 c							40
42	64.6	178.5	79,200 c							42
43	63.6	178.0	77,500 c	70.4	180.3	94,600 d				43
44	62.7	177.5	75,900 c	69.5	180.0	93,100 d				44
46	60.9	176.4	73,000 c	67.7	179.2	87,800 c				46
48	59.0	175.2	70,200 b	65.9	178.3	83,100 c				48
50	57.1	174.0	67,800 b	64.1	177.4	78,800 c				50
52	55.0	172.6	65,600 b	62.3	176.3	75,200 c	67.4	178.1	72,300 c	52
55	52.0	170.4	62,300 b	59.5	174.7	69,800 b	64.7	176.7	67,300 c	55
60	46.6	166.1	57,900 b	54.6	171.5	62,500 b	60.1	174.1	60,300 c	60
65	40.7	160.9	54,200	49.4	167.6	56,500 b	55.2	171.0	54,500 b	65
67	38.0	158.3	52,900	47.2	165.7	54,500 b	53.2	169.4	52,500 b	67
70	33.9	154.3	51,000	43.8	162.9	51,500	50.1	167.1	49,600 b	70
75	25.7	145.6	48,400	37.5	157.0	47,200	44.5	162.5	45,500 b	75
80	13.5	131.5	45,400	30.1	149.6	43,500	38.3	156.8	41,900	80
81	9.3	126.6	44,700	28.2	147.4	42,800	36.9	155.4	41,300	81
85				20.6	139.0	40,200	31.1	149.6	38,800	85
89				6.5	122.4	37,800	23.7	141.6	36,600	89
90							21.9	139.6	36,100	90
95							2.3	116.3	33,400	95
100										100
104										104
105										105
110										110
113										113
115										115
120										120
121										121

# MLC150-1 S-2

ASME B30.5



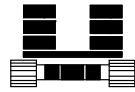
110,500 lb  
+  
35,000 lb



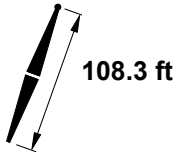
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
31										31
32										32
34										34
36										36
38										38
40										40
42										42
43										43
44										44
46										46
48										48
50										50
52										52
55										55
60										60
65										65
67	62.1	173.1	49,200 <b>c</b>							67
70	59.3	171.4	46,600 <b>b</b>							70
75	54.4	168.2	42,700 <b>b</b>							75
80	49.2	164.2	39,400 <b>b</b>							80
81	48.1	163.3	38,800 <b>b</b>	57.3	167.1	36,200 <b>b</b>				81
85	43.5	159.5	36,500	53.4	164.4	34,100 <b>b</b>				85
89	38.5	154.7	34,400	49.1	161.1	32,200 <b>b</b>				89
90	37.2	153.6	33,900	48.1	160.3	31,700 <b>b</b>				90
95	29.8	146.0	31,600	42.3	155.3	29,600	52.0	159.5	27,500 <b>b</b>	95
100	20.1	135.3	29,500	35.8	149.1	27,600	46.6	155.2	25,800 <b>b</b>	100
104	4.9	117.2	27,900	29.6	142.7	26,300	41.8	151.0	24,500 <b>b</b>	104
105				28.1	141.1	25,900	40.7	150.0	24,100	105
110				17.5	129.2	24,300	33.9	143.4	22,700	110
113				4.6	113.8	23,300	29.0	138.2	21,900	113
115							25.7	134.7	21,300	115
120							13.4	120.6	20,000	120
121							9.2	115.6	19,800	121

# MLC150-1 S-2

ASME B30.5



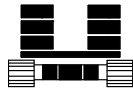
110,500 lb  
+  
35,000 lb



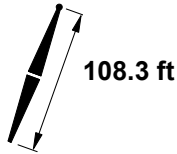
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
33	74.7	192.4	84,700 d							33
34	74.0	192.1	84,600 d							34
36	72.5	191.5	84,500 d							36
38	71.0	190.9	84,300 c							38
40	69.5	190.2	82,100 c							40
42	67.9	189.4	78,600 c							42
44	66.4	188.5	75,300 c							44
46	64.8	187.6	72,300 c	70.6	189.9	86,200 c				46
48	63.2	186.6	69,600 b	69.1	189.2	82,800 c				48
50	61.6	185.6	67,100 b	67.6	188.4	78,500 c				50
55	57.4	182.7	61,700 b	63.6	186.1	69,500 b				55
56	56.5	182.0	60,800 b	62.8	185.6	68,000 b	67.2	187.2	65,400 c	56
60	53.1	179.2	57,100 b	59.6	183.4	62,200 b	64.1	185.4	59,900 c	60
65	48.4	175.1	53,300	55.3	180.2	56,200 b	60.1	182.8	54,100 b	65
70	43.5	170.3	50,100	50.8	176.4	51,200	55.8	179.7	49,300 b	70
71	42.4	169.1	49,600	49.9	175.5	50,300	54.9	178.9	48,500 b	71
75	38.0	164.5	47,300	46.0	172.0	46,900	51.4	176.0	45,200	75
80	31.7	157.3	45,000	40.8	166.7	43,300	46.6	171.6	41,700	80
85	24.0	147.8	42,000	35.0	160.3	40,100	41.5	166.5	38,600	85
86	21.7	144.8	41,400	33.6	158.7	39,500	40.3	165.2	38,000	86
90	12.6	132.7	39,000	28.1	152.2	37,200	35.7	160.2	35,900	90
91	8.7	127.4	38,400	26.4	149.9	36,700	34.4	158.6	35,400	91
95				19.2	140.8	34,700	29.0	152.3	33,400	95
99				6.1	123.0	32,800	22.2	143.6	31,700	99
100							20.5	141.5	31,300	100
101							16.8	136.5	30,800	101
105							2.2	116.5	29,200	105
110										110
114										114
115										115
120										120
123										123
125										125
130										130
131										131

# MLC150-1 S-2

ASME B30.5



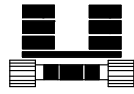
110,500 lb  
+  
35,000 lb



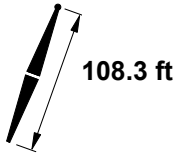
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
33										33
34										34
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
56										56
60										60
65										65
70										70
71	62.7	182.3	45,300 b							71
75	59.4	180.1	42,300 b							75
80	55.1	176.9	39,000 b							80
85	50.6	173.1	36,100							85
86	49.7	172.2	35,600	57.7	175.8	33,200 b				86
90	45.8	168.6	33,600	54.2	173.1	31,300 b				90
91	44.8	167.5	33,100	53.3	172.3	30,900 b				91
95	40.6	163.3	31,300	49.7	169.2	29,200				95
99	35.9	158.1	29,700	45.8	165.5	27,700				99
100	34.7	156.8	29,300	44.8	164.6	27,300				100
101	33.4	155.2	28,900	43.7	163.5	27,000	52.1	167.6	25,000	101
105	27.8	148.6	27,500	39.5	159.0	25,600	48.4	164.2	23,800	105
110	18.8	137.0	25,800	33.4	152.3	24,100	43.4	159.4	22,300	110
114	4.6	117.6	24,400	27.7	145.3	22,900	39.0	154.7	21,300	114
115				26.2	143.5	22,600	37.9	153.6	21,000	115
120				16.3	130.7	21,300	31.7	146.4	19,800	120
123				4.3	114.2	20,500	27.0	140.7	19,100	123
125							24.0	136.9	18,700	125
130							12.5	121.7	17,600	130
131							8.6	116.3	17,400	131

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb

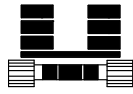


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
36	74.5	202.0	77,200 d							36
38	73.2	201.4	77,100 c							38
40	71.8	200.8	76,900 c							40
42	70.5	200.1	76,800 c							42
44	69.1	199.3	74,900 c							44
46	67.8	198.5	71,900 c							46
48	66.4	197.7	69,100 b							48
49	65.7	197.2	67,900 b	70.8	199.4	78,300 c				49
50	65.0	196.8	66,600 b	70.2	199.1	78,300 c				50
55	61.4	194.3	61,100 b	66.7	197.1	69,200 b				55
59	58.4	191.9	57,400 b	63.9	195.2	63,400 b	67.8	196.8	60,900 c	59
60	57.7	191.3	56,500 b	63.2	194.8	62,000 b	67.2	196.4	59,700 c	60
65	53.9	187.9	52,600	59.6	192.1	56,000 b	63.7	194.1	53,900 b	65
70	49.8	184.0	49,300	55.8	188.9	51,000	60.0	191.4	49,100 b	70
75	45.5	179.4	46,500	51.9	185.2	46,800	56.3	188.3	45,000	75
76	44.6	178.4	46,100	51.1	184.4	46,000	55.5	187.6	44,300	76
80	40.9	174.1	44,100	47.7	181.0	43,100	52.4	184.8	41,500	80
85	35.7	167.8	41,900	43.3	176.1	39,900	48.2	180.6	38,400	85
90	29.8	160.0	39,000	38.4	170.3	37,100	43.8	175.8	35,700	90
91	28.4	158.0	38,500	37.3	168.9	36,600	42.8	174.6	35,200	91
95	22.6	149.9	36,400	32.9	163.3	34,600	39.0	170.1	33,300	95
100	11.9	133.8	34,000	26.5	154.6	32,400	33.6	163.3	31,200	100
101	8.2	128.1	33,500	24.8	152.1	32,000	32.4	161.6	30,800	101
105				18.1	142.4	30,400	27.3	154.8	29,300	105
107				11.9	132.9	29,600	24.1	150.2	28,500	107
109				5.8	123.5	28,800	20.9	145.5	27,800	109
110							19.3	143.2	27,500	110
115							2.0	116.7	25,800	115
120										120
124										124
125										125
130										130
133										133
135										135
140										140
141										141

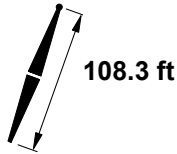


# MLC150-1 S-2

ASME B30.5



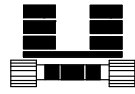
110,500 lb  
+  
35,000 lb



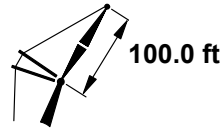
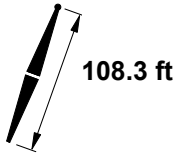
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
36										36
38										38
40										40
42										42
44										44
46										46
48										48
49										49
50										50
55										55
59										59
60										60
65										65
70										70
75										75
76										76
80	62.4	191.0	41,400 <b>b</b>							80
85	59.5	188.7	38,800 <b>b</b>							85
85	55.7	185.6	35,900							85
90	51.7	181.9	33,400							90
91	50.9	181.0	32,900	57.9	184.5	30,600 <b>b</b>				91
95	47.6	177.6	31,100	54.9	181.8	28,900				95
100	43.1	172.7	29,100	50.9	178.0	27,100				100
101	42.1	171.5	28,800	50.0	177.2	26,700				101
105	38.2	166.9	27,300	46.7	173.7	25,400				105
107	36.0	164.1	26,700	44.8	171.6	24,800	52.3	175.6	22,900	107
109	33.8	161.2	26,000	43.0	169.6	24,200	50.6	173.9	22,400	109
110	32.7	159.8	25,700	42.1	168.5	23,900	49.8	173.1	22,100	110
115	26.2	151.0	24,200	37.1	162.5	22,500	45.5	168.6	20,800	115
120	17.7	138.6	22,800	31.5	155.2	21,200	40.8	163.2	19,600	120
124	4.3	118.0	21,700	26.0	147.7	20,300	36.7	158.2	18,800	124
125				24.7	145.8	20,000	35.7	156.9	18,500	125
130				15.4	132.1	18,900	29.8	149.1	17,500	130
133				4.1	114.6	18,200	25.5	143.0	17,000	133
135							22.6	138.9	16,600	135
140							11.8	122.8	15,700	140
141							8.1	117.1	15,500	141

# MLC150-1 S-2

ASME B30.5



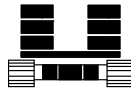
110,500 lb  
+  
35,000 lb



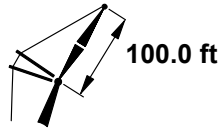
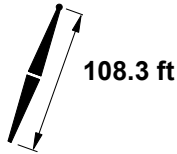
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
38	74.9	211.8	70,900 c							38
40	73.7	211.2	70,800 c							40
42	72.5	210.6	70,600 c							42
44	71.3	210.0	70,400 c							44
46	70.1	209.3	70,200 c							46
48	68.9	208.5	68,700 b							48
50	67.6	207.7	66,100 b							50
53	65.7	206.4	62,800 b	70.4	208.6	71,500 c				53
55	64.5	205.5	60,500 b	69.2	207.9	68,900 b				55
60	61.3	202.9	56,000	66.1	205.8	61,600 b				60
63	59.3	201.2	53,600	64.2	204.4	58,100 b	67.7	206.0	55,700 b	63
65	57.9	200.0	52,100	62.9	203.5	55,700 b	66.5	205.1	53,500 b	65
70	54.5	196.7	48,800	59.6	200.7	50,700	63.3	202.8	48,700 b	70
75	50.9	192.8	45,900	56.3	197.6	46,400	60.0	200.1	44,600	75
80	47.1	188.5	43,400	52.7	194.0	42,800	56.7	197.0	41,100	80
85	43.1	183.5	41,300	49.1	190.0	39,600	53.2	193.5	38,100	85
90	38.7	177.7	38,800	45.1	185.3	36,900	49.5	189.5	35,400	90
95	33.8	170.9	36,200	40.9	179.9	34,400	45.6	184.9	33,000	95
97	31.6	167.6	35,300	39.1	177.4	33,500	44.0	182.8	32,200	97
100	28.3	162.6	33,900	36.4	173.7	32,200	41.5	179.7	30,900	100
105	21.5	151.8	31,800	31.2	166.2	30,200	36.9	173.5	29,000	105
110	11.3	134.8	29,800	25.1	156.9	28,400	31.9	166.2	27,300	110
111	7.8	128.8	29,500	23.5	154.3	28,100	30.7	164.4	26,900	111
113				20.4	149.1	27,400	28.3	160.8	26,300	113
115				17.2	143.9	26,700	25.9	157.2	25,700	115
119				5.5	124.0	25,400	19.8	147.3	24,500	119
120							18.3	144.9	24,200	120
125							1.9	116.8	22,800	125
130										130
134										134
135										135
140										140
143										143
145										145
150										150
151										151

# MLC150-1 S-2

ASME B30.5



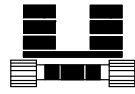
110,500 lb  
+  
35,000 lb



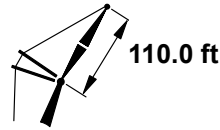
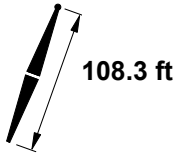
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38										38
40										40
42										42
44										44
46										46
48										48
50										50
53										53
55										55
60										60
63										63
65										65
70										70
75										75
80	62.8	200.2	38,400 b							80
85	59.5	197.4	35,500							85
90	56.1	194.3	33,000							90
95	52.6	190.7	30,800							95
97	51.1	189.0	30,000	57.5	192.5	27,800				97
100	48.9	186.6	28,800	55.4	190.5	26,700				100
105	45.0	181.9	27,000	51.9	186.8	25,000				105
110	40.8	176.5	25,400	48.1	182.6	23,500				110
111	39.8	175.3	25,100	47.3	181.7	23,200				111
113	38.0	172.7	24,500	45.7	179.7	22,700	52.3	183.6	20,900	113
115	36.2	170.2	23,900	44.1	177.8	22,100	50.9	182.0	20,400	115
119	32.0	164.2	22,800	40.7	173.4	21,100	47.8	178.5	19,500	119
120	31.0	162.7	22,600	39.9	172.3	20,900	47.1	177.6	19,200	120
125	24.9	153.3	21,300	35.1	165.8	19,700	43.0	172.6	18,200	125
130	16.8	140.1	20,100	29.8	157.9	18,700	38.6	166.8	17,200	130
134	4.1	118.4	19,200	24.7	149.9	17,900	34.8	161.4	16,400	134
135				23.4	147.9	17,700	33.8	160.0	16,300	135
140				14.6	133.4	16,700	28.2	151.7	15,400	140
143				3.9	114.9	16,100	24.1	145.2	14,900	143
145							21.4	140.9	14,600	145
150							11.2	123.8	13,800	150
151							7.7	117.8	13,600	151

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



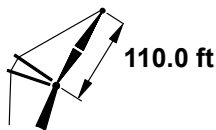
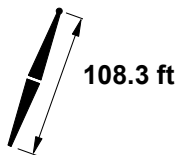
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
41	74.7	221.3	65,300 c							41
42	74.1	221.1	65,200 c							42
44	73.1	220.5	65,000 c							44
46	72.0	219.8	64,800 c							46
48	70.9	219.2	64,700 b							48
50	69.8	218.4	63,900 b							50
55	67.0	216.5	60,400 b							55
56	66.4	216.0	59,400 b	70.6	218.2	65,500 b				56
60	64.1	214.2	55,700	68.4	216.7	61,500 b				60
65	61.2	211.6	51,800	65.5	214.6	55,600 b				65
67	59.9	210.4	50,400	64.4	213.6	53,600 b	67.6	215.2	51,400 b	67
70	58.1	208.7	48,400	62.7	212.1	50,600	65.9	213.9	48,600 b	70
75	55.0	205.4	45,600	59.7	209.4	46,400	63.0	211.5	44,500	75
80	51.8	201.6	43,100	56.6	206.3	42,700	60.0	208.8	41,000	80
85	48.4	197.5	40,800	53.4	202.8	39,600	57.0	205.7	38,000	85
90	44.8	192.7	38,800	50.1	198.8	36,800	53.8	202.3	35,300	90
95	41.0	187.3	36,200	46.6	194.4	34,300	50.5	198.4	33,000	95
100	36.8	181.1	33,900	42.9	189.3	32,100	47.1	194.0	30,900	100
102	35.0	178.2	33,100	41.3	187.0	31,400	45.6	192.0	30,100	102
105	32.2	173.9	31,800	39.0	183.6	30,200	43.4	189.0	29,000	105
110	26.9	165.1	29,900	34.6	176.9	28,400	39.5	183.4	27,200	110
115	20.4	153.7	28,200	29.7	168.9	26,800	35.2	176.8	25,700	115
119	12.7	139.3	26,900	25.1	161.0	25,600	31.3	170.6	24,600	119
120	10.7	135.7	26,600	23.9	159.0	25,300	30.3	169.0	24,300	120
121	7.4	129.5	26,300	22.4	156.3	25,000	29.2	167.1	24,000	121
125				16.4	145.4	23,900	24.7	159.4	23,000	125
129				5.2	124.4	22,800	18.9	149.0	22,000	129
130							17.4	146.4	21,700	130
135							1.8	117.0	20,500	135
140										140
144										144
145										145
150										150
153										153
155										155
160										160
161										161

# MLC150-1 S-2

ASME B30.5



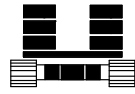
110,500 lb  
+  
35,000 lb



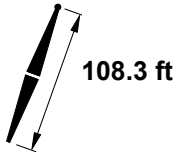
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
41									41	
42									42	
44									44	
46									46	
48									48	
50									50	
55									55	
56									56	
60									60	
65									65	
67									67	
70									70	
75									75	
80									80	
85	62.5	208.8	35,400						85	
90	59.6	206.1	32,900						90	
95	56.5	202.9	30,700						95	
100	53.3	199.4	28,700						100	
102	52.0	197.8	28,000	57.7	201.2	25,900			102	
105	50.0	195.5	26,900	55.8	199.2	24,900			105	
110	46.5	191.0	25,300	52.6	195.6	23,500			110	
115	42.8	185.9	23,900	49.3	191.6	22,100			115	
119	39.6	181.3	22,800	46.4	187.9	21,100	52.4	191.6	19,400	
120	38.8	180.1	22,500	45.7	187.0	20,800	51.8	190.8	19,200	
121	37.9	178.8	22,300	45.0	185.9	20,600	51.1	189.9	19,000	
125	34.4	173.4	21,300	42.0	181.8	19,700	48.4	186.6	18,100	
129	30.5	167.0	20,400	38.7	177.0	18,900	45.5	182.8	17,300	
130	29.5	165.4	20,200	37.9	175.8	18,700	44.8	181.9	17,100	
135	23.7	155.4	19,100	33.5	168.8	17,700	40.9	176.5	16,200	
140	16.0	141.5	18,100	28.4	160.5	16,800	36.8	170.3	15,400	
144	3.9	118.7	17,300	23.5	152.0	16,100	33.1	164.4	14,800	
145				22.3	149.9	15,900	32.2	163.0	14,600	
150				13.9	134.6	15,100	26.9	154.2	13,900	
153				3.7	115.2	14,600	23.0	147.3	13,500	
155							20.4	142.7	13,200	
160							10.7	124.7	12,500	
161							7.3	118.4	12,300	

# MLC150-1 S-2

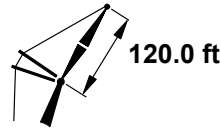
ASME B30.5



110,500 lb  
+  
35,000 lb



108.3 ft



120.0 ft

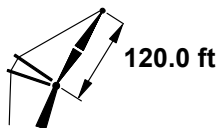
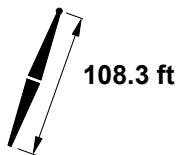
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
43	75.0	231.2	50,200 c							43
44	74.5	230.9	50,000 c							44
46	73.5	230.3	49,600 c							46
48	72.5	229.7	49,200 b							48
50	71.5	229.0	48,900 b							50
55	69.0	227.2	48,000 b							55
59	66.9	225.6	47,200 b	70.8	227.7	49,100 b				59
60	66.4	225.2	47,100	70.3	227.4	49,000 b				60
65	63.8	222.9	46,200	67.7	225.4	48,300 b				65
70	61.1	220.3	45,300	65.1	223.3	47,600				70
71	60.5	219.7	45,200	64.6	222.8	47,300	67.5	224.3	47,400	71
75	58.3	217.3	44,600	62.4	220.8	46,100	65.4	222.6	44,200	75
80	55.4	214.1	42,500	59.7	218.0	42,400	62.8	220.2	40,700	80
85	52.5	210.4	40,200	56.9	214.9	39,300	60.0	217.4	37,700	85
89	50.0	207.2	38,500	54.6	212.2	37,100	57.8	215.0	35,500	89
90	49.4	206.4	38,100	54.0	211.5	36,500	57.2	214.4	35,000	90
95	46.2	201.8	35,900	51.0	207.7	34,100	54.4	211.0	32,600	95
100	42.8	196.7	33,600	47.8	203.4	31,900	51.4	207.2	30,500	100
105	39.1	191.0	31,600	44.5	198.6	29,900	48.2	203.0	28,700	105
107	37.6	188.3	30,800	43.1	196.4	29,200	46.9	201.1	28,000	107
110	35.2	184.4	29,700	41.0	193.2	28,100	44.9	198.2	27,000	110
115	30.8	176.7	28,000	37.2	187.0	26,500	41.5	192.9	25,400	115
120	25.8	167.4	26,500	33.1	179.9	25,100	37.7	186.9	24,000	120
125	19.6	155.4	25,100	28.4	171.5	23,700	33.6	179.9	22,700	125
130	10.3	136.6	23,700	22.9	161.1	22,500	29.0	171.7	21,500	130
131	7.1	130.1	23,400	21.5	158.3	22,200	27.9	169.6	21,300	131
135				15.7	146.8	21,300	23.6	161.6	20,400	135
139				5.0	124.9	20,400	18.1	150.7	19,600	139
140							16.7	147.9	19,300	140
145							1.8	117.2	18,300	145
150										150
154										154
155										155
160										160
163										163
165										165
170										170
171										171

# MLC150-1 S-2

ASME B30.5



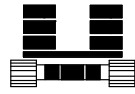
110,500 lb  
+  
35,000 lb



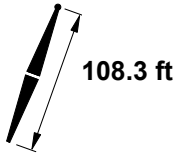
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	lb		
43									43	
44									44	
46									46	
48									48	
50									50	
55									55	
59									59	
60									60	
65									65	
70									70	
71									71	
75									75	
80									80	
85									85	
89	62.9	218.0	33,000						89	
90	62.3	217.5	32,500						90	
95	59.6	214.7	30,300						95	
100	56.8	211.6	28,400						100	
105	53.9	208.2	26,600						105	
107	52.7	206.6	25,900	57.9	209.8	23,900			107	
110	50.9	204.3	25,000	56.2	207.9	23,100			110	
115	47.7	200.0	23,500	53.3	204.4	21,700			115	
120	44.4	195.2	22,200	50.2	200.4	20,500			120	
125	40.9	189.8	21,000	47.0	196.0	19,400	52.5	199.6	17,700	125
130	37.1	183.6	19,900	43.7	191.1	18,300	49.4	195.5	16,800	130
131	36.2	182.1	19,700	43.0	190.0	18,100	48.7	194.6	16,600	131
135	32.9	176.4	18,900	40.1	185.5	17,300	46.2	191.0	15,900	135
139	29.2	169.7	18,100	37.0	180.4	16,600	43.4	186.9	15,200	139
140	28.2	168.0	17,900	36.3	179.2	16,500	42.8	185.9	15,000	140
145	22.7	157.4	17,000	32.0	171.8	15,600	39.1	180.1	14,300	145
150	15.3	142.9	16,100	27.2	163.0	14,800	35.2	173.5	13,500	150
154	3.8	119.1	15,400	22.5	154.1	14,200	31.6	167.3	13,000	154
155				21.3	151.9	14,100	30.8	165.8	12,900	155
160				13.3	135.8	13,400	25.7	156.5	12,200	160
163				3.5	115.6	12,900	22.0	149.3	11,900	163
165							19.5	144.5	11,600	165
170							10.2	125.6	11,000	170
171							7.0	119.0	10,900	171

# MLC150-1 S-2

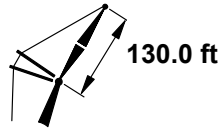
ASME B30.5



110,500 lb  
+  
35,000 lb



108.3 ft



130.0 ft

ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
46	74.8	240.7	46,700 c							46
48	73.9	240.1	46,400 b							48
50	73.0	239.5	46,100 b							50
55	70.7	237.9	45,200 b							55
60	68.3	236.0	44,400							60
62	67.3	235.2	44,100	70.9	237.3	45,700 b				62
65	65.9	233.9	43,700	69.5	236.2	45,300				65
70	63.5	231.6	43,000	67.1	234.2	44,700				70
74	61.5	229.4	42,300	65.2	232.4	44,300	67.9	233.9	44,700	74
75	61.0	228.9	42,100	64.7	232.0	44,100	67.4	233.5	44,000	75
80	58.4	226.0	40,200	62.2	229.5	42,200	65.0	231.3	40,500	80
85	55.8	222.8	38,200	59.7	226.7	39,000	62.5	228.8	37,400	85
90	53.1	219.2	36,300	57.1	223.6	36,300	60.0	226.1	34,800	90
94	50.8	216.0	34,900	55.0	220.9	34,300	58.0	223.7	32,900	94
95	50.3	215.2	34,500	54.5	220.2	33,800	57.5	223.1	32,400	95
100	47.4	210.9	32,800	51.7	216.5	31,700	54.8	219.7	30,300	100
105	44.3	206.0	31,000	48.9	212.3	29,700	52.1	216.0	28,400	105
110	41.0	200.6	29,400	45.9	207.7	27,900	49.2	211.9	26,700	110
113	38.9	196.9	28,500	44.0	204.6	27,000	47.4	209.2	25,800	113
115	37.5	194.5	27,900	42.7	202.6	26,300	46.2	207.3	25,200	115
120	33.8	187.5	26,300	39.3	196.8	24,900	43.1	202.3	23,800	120
125	29.6	179.4	24,900	35.7	190.3	23,500	39.8	196.6	22,500	125
130	24.7	169.6	23,600	31.8	182.8	22,300	36.2	190.2	21,300	130
131	23.5	167.1	23,400	30.9	181.1	22,100	35.4	188.7	21,100	131
135	18.8	157.1	22,400	27.3	174.0	21,200	32.3	182.8	20,200	135
140	9.9	137.5	21,300	22.0	163.1	20,100	27.9	174.2	19,200	140
141	6.8	130.7	21,000	20.6	160.1	19,900	26.8	172.1	19,000	141
145				15.0	148.2	19,100	22.7	163.6	18,300	145
149				4.8	125.3	18,300	17.4	152.2	17,500	149
150							16.0	149.4	17,300	150
155							1.7	117.3	16,400	155
160										160
164										164
165										165
170										170
173										173
175										175
180										180
181										181

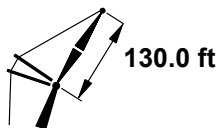
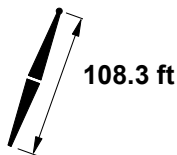


# MLC150-1 S-2

ASME B30.5



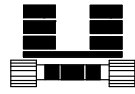
110,500 lb  
+  
35,000 lb



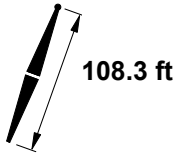
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
46										46
48										48
50										50
55										55
60										60
62										62
65										65
70										70
74										74
75										75
80										80
85										85
90										90
94	62.6	226.7	30,500							94
95	62.1	226.2	30,100							95
100	59.6	223.4	28,100							100
105	57.0	220.3	26,300							105
110	54.4	216.9	24,700							110
113	52.7	214.6	23,900	57.5	217.9	22,000				113
115	51.6	213.1	23,300	56.5	216.6	21,500				115
120	48.7	208.9	22,000	53.8	213.1	20,200				120
125	45.7	204.3	20,800	51.0	209.3	19,100				125
130	42.6	199.2	19,700	48.1	205.0	18,100				130
131	41.9	198.0	19,500	47.5	204.0	17,900	52.5	207.6	16,300	131
135	39.2	193.4	18,700	45.1	200.3	17,100	50.3	204.4	15,600	135
140	35.6	186.9	17,700	41.9	195.0	16,200	47.3	200.0	14,800	140
141	34.8	185.3	17,500	41.2	193.8	16,100	46.7	199.0	14,600	141
145	31.6	179.3	16,800	38.5	189.1	15,400	44.3	195.1	14,000	145
149	28.0	172.2	16,200	35.5	183.7	14,800	41.7	190.8	13,500	149
150	27.1	170.4	16,000	34.8	182.4	14,600	41.0	189.7	13,300	150
155	21.8	159.4	15,200	30.7	174.6	13,900	37.5	183.6	12,600	155
160	14.7	144.2	14,500	26.1	165.3	13,200	33.7	176.6	12,000	160
164	3.6	119.4	13,800	21.6	156.0	12,700	30.4	170.1	11,500	164
165				20.5	153.7	12,600	29.5	168.5	11,400	165
170				12.8	137.0	12,000	24.7	158.7	10,900	170
173				3.4	115.9	11,600	21.1	151.2	10,500	173
175							18.8	146.2	10,300	175
180							9.8	126.5	9,800	180
181							6.7	119.6	9,700	181

# MLC150-1 S-2

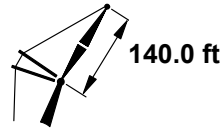
ASME B30.5



110,500 lb  
+  
35,000 lb



108.3 ft



140.0 ft

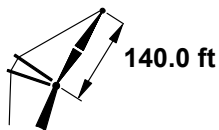
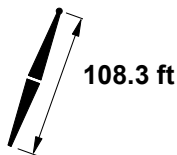
ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
49	74.6	250.2	43,300 b							49
50	74.2	250.0	43,200 b							50
55	72.1	248.5	42,500 b							55
60	69.9	246.7	41,700							60
65	67.7	244.8	41,000							65
66	67.3	244.4	40,900	70.6	246.5	42,300				66
70	65.5	242.6	40,400	68.8	245.0	41,800				70
75	63.2	240.2	39,100	66.6	242.9	41,300				75
78	61.8	238.6	38,200	65.3	241.6	40,900	67.8	243.1	41,300	78
80	60.9	237.6	37,600	64.4	240.7	40,600	66.9	242.2	40,100	80
85	58.5	234.7	36,000	62.1	238.1	38,700	64.7	240.0	37,100	85
90	56.1	231.5	34,400	59.7	235.4	36,000	62.4	237.5	34,400	90
95	53.6	227.9	32,900	57.3	232.3	33,500	60.0	234.7	32,100	95
98	52.0	225.6	32,000	55.9	230.3	32,200	58.6	232.9	30,800	98
100	51.0	224.1	31,300	54.9	228.9	31,400	57.6	231.7	30,000	100
105	48.3	219.8	29,900	52.3	225.3	29,400	55.2	228.4	28,100	105
110	45.5	215.1	28,400	49.7	221.2	27,600	52.7	224.8	26,400	110
115	42.6	210.0	27,000	47.0	216.8	26,100	50.0	220.8	24,900	115
118	40.7	206.5	26,200	45.2	213.8	25,200	48.4	218.1	24,000	118
120	39.5	204.2	25,700	44.1	211.8	24,600	47.3	216.4	23,500	120
125	36.1	197.8	24,500	41.1	206.4	23,300	44.5	211.5	22,200	125
130	32.5	190.5	23,300	37.9	200.3	22,000	41.4	206.1	21,000	130
135	28.5	182.0	22,200	34.4	193.5	20,900	38.3	200.1	19,900	135
137	26.6	177.9	21,800	32.9	190.3	20,500	36.9	197.4	19,500	137
140	23.8	171.8	21,100	30.6	185.6	19,900	34.8	193.4	18,900	140
145	18.1	158.7	20,100	26.3	176.4	18,900	31.1	185.7	18,000	145
150	9.5	138.4	19,100	21.2	165.0	18,000	26.8	176.6	17,100	150
151	6.6	131.3	18,800	19.8	161.9	17,800	25.8	174.4	16,900	151
155				14.5	149.5	17,100	21.9	165.6	16,300	155
159				4.6	125.7	16,400	16.7	153.7	15,700	159
160							15.5	150.8	15,500	160
165							1.6	117.4	14,700	165
170										170
174										174
175										175
180										180
183										183
185										185
190										190
191										191

# MLC150-1 S-2

ASME B30.5



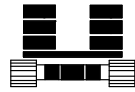
110,500 lb  
+  
35,000 lb



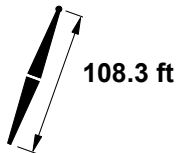
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
49										49
50										50
55										55
60										60
65										65
66										66
70										70
75										75
78										78
80										80
85										85
90										90
95										95
98	62.9	235.9	28,500							98
100	62.0	234.8	27,700							100
105	59.7	232.0	26,000							105
110	57.3	229.0	24,400							110
115	54.8	225.6	23,000							115
118	53.3	223.4	22,200	57.7	226.6	20,300				118
120	52.2	221.9	21,700	56.7	225.3	19,900				120
125	49.6	217.8	20,500	54.3	221.8	18,700				125
130	46.9	213.4	19,400	51.7	218.1	17,700				130
135	44.0	208.4	18,300	49.0	213.9	16,800				135
137	42.8	206.3	18,000	47.9	212.1	16,400	52.6	215.6	14,900	137
140	41.0	203.0	17,400	46.3	209.4	15,900	51.0	213.2	14,400	140
145	37.7	196.9	16,500	43.4	204.3	15,100	48.3	208.9	13,700	145
150	34.2	190.0	15,700	40.3	198.7	14,300	45.5	204.3	12,900	150
151	33.5	188.4	15,500	39.6	197.5	14,200	44.9	203.2	12,800	151
155	30.4	182.1	14,900	37.0	192.5	13,600	42.6	199.1	12,300	155
159	26.9	174.6	14,400	34.2	186.8	13,100	40.1	194.5	11,800	159
160	26.1	172.8	14,200	33.5	185.4	12,900	39.5	193.4	11,700	160
165	21.0	161.3	13,500	29.6	177.3	12,300	36.1	186.9	11,100	165
170	14.2	145.5	12,900	25.1	167.6	11,700	32.5	179.6	10,500	170
174	3.5	119.7	12,300	20.8	157.9	11,200	29.2	172.8	10,100	174
175				19.7	155.5	11,100	28.4	171.1	10,000	175
180				12.3	138.1	10,600	23.8	160.9	9,500	180
183				3.3	116.1	10,200	20.4	153.0	9,200	183
185							18.1	147.8	9,000	185
190							9.4	127.4	8,500	190
191							6.5	120.2	8,400	191

# MLC150-1 S-2

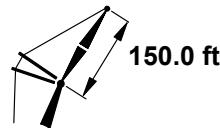
ASME B30.5



110,500 lb  
+  
35,000 lb



108.3 ft



150.0 ft

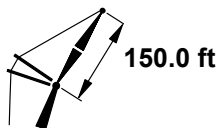
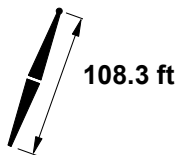
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
51	74.9	260.1	40,300 b							51
55	73.3	258.9	39,800 b							55
60	71.3	257.3	39,100							60
65	69.3	255.5	38,500							65
69	67.6	253.9	37,600	70.7	256.0	38,700				69
70	67.2	253.5	37,400	70.3	255.7	38,600				70
75	65.1	251.3	36,200	68.3	253.8	38,300				75
80	63.0	248.9	35,000	66.2	251.7	37,300				80
82	62.1	247.8	34,400	65.4	250.7	36,800	67.7	252.2	36,800	82
85	60.8	246.2	33,700	64.1	249.4	36,000	66.5	251.0	36,700	85
90	58.6	243.3	32,400	62.0	246.8	34,700	64.3	248.7	34,300	90
95	56.4	240.1	31,100	59.8	244.0	33,400	62.2	246.2	32,000	95
100	54.0	236.7	29,800	57.5	241.0	31,200	60.0	243.4	29,900	100
103	52.6	234.4	29,000	56.1	239.0	30,100	58.7	241.6	28,800	103
105	51.7	232.9	28,500	55.2	237.6	29,300	57.8	240.4	28,000	105
110	49.2	228.7	27,300	52.9	234.0	27,500	55.5	237.1	26,300	110
115	46.6	224.2	26,000	50.4	230.1	26,000	53.2	233.5	24,800	115
120	43.9	219.3	24,900	47.9	225.7	24,500	50.7	229.6	23,400	120
123	42.2	216.0	24,200	46.3	222.9	23,700	49.2	227.0	22,600	123
125	41.1	213.8	23,800	45.3	221.0	23,200	48.2	225.3	22,100	125
130	38.1	207.8	22,600	42.5	215.8	22,000	45.6	220.6	20,900	130
135	34.9	201.0	21,700	39.6	210.1	20,800	42.9	215.5	19,900	135
140	31.4	193.3	20,700	36.5	203.7	19,800	40.0	209.8	18,900	140
143	29.0	188.0	20,200	34.5	199.4	19,200	38.1	206.1	18,300	143
145	27.5	184.5	19,800	33.2	196.5	18,800	36.9	203.5	17,900	145
150	23.0	173.9	19,000	29.5	188.3	17,900	33.6	196.5	17,100	150
155	17.5	160.3	18,200	25.4	178.7	17,100	30.0	188.4	16,200	155
160	9.2	139.2	17,300	20.5	166.8	16,300	25.9	179.0	15,500	160
161	6.4	131.9	17,100	19.2	163.6	16,100	24.9	176.7	15,300	161
165				14.0	150.7	15,500	21.1	167.5	14,800	165
169				4.5	126.1	14,900	16.2	155.2	14,200	169
170							14.9	152.1	14,100	170
175							1.6	117.6	13,300	175
180										180
184										184
185										185
190										190
193										193
195										195
200										200
201										201

# MLC150-1 S-2

ASME B30.5



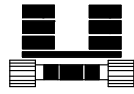
110,500 lb  
+  
35,000 lb



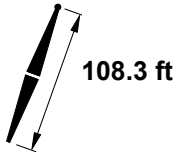
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
51										51
55										55
60										60
65										65
69										69
70										70
75										75
80										80
82										82
85										85
90										90
95										95
100										100
103	62.7	244.6	26,500							103
105	61.9	243.5	25,900							105
110	59.7	240.7	24,300							110
115	57.4	237.6	22,800							115
120	55.1	234.3	21,500							120
123	53.7	232.1	20,800	57.9	235.2	19,100				123
125	52.8	230.7	20,300	57.0	233.9	18,600				125
130	50.3	226.7	19,200	54.7	230.6	17,600				130
135	47.8	222.4	18,200	52.3	226.8	16,700				135
140	45.2	217.6	17,300	49.8	222.8	15,800				140
143	43.5	214.5	16,800	48.3	220.1	15,300	52.6	223.6	13,800	143
145	42.4	212.4	16,400	47.3	218.4	15,000	51.6	222.0	13,500	145
150	39.5	206.6	15,600	44.6	213.6	14,200	49.2	217.9	12,800	150
155	36.4	200.2	14,900	41.8	208.2	13,500	46.6	213.3	12,200	155
160	33.0	193.0	14,200	38.9	202.3	12,800	43.9	208.4	11,600	160
161	32.3	191.4	14,000	38.3	201.0	12,700	43.3	207.3	11,500	161
165	29.4	184.8	13,500	35.7	195.8	12,200	41.1	202.9	11,000	165
169	26.0	177.0	13,000	33.0	189.9	11,800	38.7	198.1	10,600	169
170	25.2	175.1	12,800	32.3	188.4	11,600	38.1	196.9	10,500	170
175	20.2	163.1	12,200	28.5	179.9	11,100	34.9	190.1	9,900	175
180	13.7	146.7	11,700	24.2	169.8	10,600	31.4	182.4	9,500	180
184	3.4	120.0	11,200	20.1	159.7	10,100	28.2	175.3	9,100	184
185				19.1	157.2	10,000	27.5	173.6	9,000	185
190				11.9	139.1	9,500	23.0	162.9	8,500	190
193				3.1	116.4	9,200	19.7	154.8	8,300	193
195							17.4	149.4	8,100	195
200							9.1	128.2	7,700	200
201							6.3	120.8	7,600	201

# MLC150-1 S-2

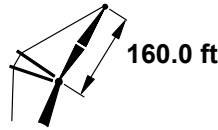
ASME B30.5



110,500 lb  
+  
35,000 lb



108.3 ft



160.0 ft

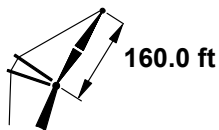
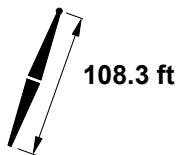
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
54	74.8	269.6	35,800 b							54
55	74.4	269.3	35,700 b							55
60	72.5	267.9	35,400							60
65	70.6	266.2	34,800							65
70	68.7	264.3	34,200							70
72	67.9	263.5	33,800	70.8	265.6	33,700				72
75	66.8	262.3	33,200	69.7	264.5	33,400				75
80	64.8	260.0	31,900	67.8	262.5	33,100				80
85	62.8	257.6	30,600	65.8	260.4	32,800	68.0	261.8	31,900	85
90	60.8	254.9	29,300	63.8	258.0	31,500	66.1	259.7	31,700	90
95	58.7	252.0	28,100	61.8	255.5	30,200	64.1	257.4	31,400	95
100	56.6	248.8	26,800	59.8	252.7	29,000	62.1	254.8	29,600	100
105	54.4	245.4	25,700	57.7	249.6	27,700	60.0	252.1	27,700	105
107	53.5	243.9	25,200	56.8	248.3	27,200	59.2	250.9	27,000	107
110	52.2	241.7	24,500	55.5	246.3	26,500	57.9	249.1	26,000	110
115	49.9	237.6	23,400	53.3	242.8	25,300	55.8	245.8	24,500	115
120	47.5	233.2	22,400	51.1	238.9	24,200	53.6	242.3	23,100	120
125	45.0	228.4	21,300	48.7	234.7	22,900	51.3	238.4	21,800	125
129	43.0	224.3	20,500	46.8	231.0	21,900	49.5	235.1	20,900	129
130	42.4	223.2	20,300	46.3	230.1	21,700	49.0	234.2	20,600	130
135	39.7	217.5	19,400	43.8	225.1	20,600	46.6	229.7	19,600	135
140	36.8	211.1	18,500	41.1	219.6	19,500	44.1	224.8	18,600	140
145	33.7	204.1	17,600	38.3	213.6	18,600	41.4	219.4	17,600	145
149	31.0	197.7	17,000	35.9	208.3	17,800	39.2	214.6	16,900	149
150	30.4	196.1	16,800	35.3	206.9	17,700	38.7	213.4	16,800	150
155	26.6	186.9	16,100	32.1	199.4	16,800	35.7	206.8	16,000	155
160	22.3	175.9	15,400	28.6	190.9	16,000	32.5	199.4	15,200	160
165	16.9	161.8	14,500	24.5	180.9	15,300	29.0	191.0	14,500	165
170	8.9	140.0	13,700	19.8	168.6	14,600	25.1	181.2	13,800	170
171	6.2	132.4	13,500	18.6	165.3	14,400	24.1	178.8	13,700	171
175				13.6	151.9	13,900	20.4	169.3	13,200	175
179				4.3	126.5	13,300	15.6	156.6	12,700	179
180							14.4	153.4	12,600	180
185							1.5	117.7	11,900	185
190										190
194										194
195										195
200										200
203										203
205										205
210										210
211										211

# MLC150-1 S-2

ASME B30.5



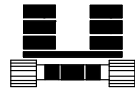
110,500 lb  
+  
35,000 lb



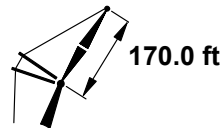
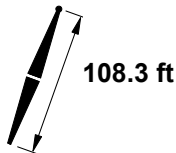
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
54										54
55										55
60										60
65										65
70										70
72										72
75										75
80										80
85										85
90										90
95										95
100										100
105										105
107	63.0	253.7	24,900							107
110	61.7	252.2	23,900							110
115	59.7	249.4	22,500							115
120	57.6	246.3	21,200							120
125	55.5	243.0	20,000							125
129	53.7	240.1	19,100	57.6	243.3	17,400				129
130	53.2	239.4	18,900	57.2	242.6	17,200				130
135	51.0	235.5	17,900	55.0	239.3	16,300				135
140	48.6	231.3	17,000	52.8	235.6	15,400				140
145	46.2	226.7	16,100	50.5	231.7	14,600				145
149	44.2	222.7	15,500	48.6	228.2	14,000	52.6	231.6	12,600	149
150	43.7	221.7	15,300	48.1	227.4	13,900	52.2	230.8	12,500	150
155	41.0	216.2	14,600	45.7	222.7	13,200	49.9	226.7	11,800	155
160	38.2	210.2	13,800	43.1	217.6	12,500	47.5	222.4	11,200	160
165	35.2	203.5	13,200	40.4	212.0	11,900	45.0	217.6	10,600	165
170	32.0	195.9	12,600	37.6	205.8	11,300	42.4	212.3	10,100	170
171	31.2	194.2	12,400	37.0	204.4	11,200	41.9	211.2	10,000	171
175	28.4	187.3	12,000	34.6	198.9	10,800	39.7	206.6	9,600	175
179	25.2	179.3	11,500	31.9	192.8	10,400	37.4	201.5	9,200	179
180	24.4	177.3	11,400	31.3	191.2	10,200	36.8	200.3	9,100	180
185	19.6	164.9	10,900	27.6	182.4	9,800	33.7	193.2	8,700	185
190	13.3	147.9	10,300	23.5	171.9	9,300	30.3	185.2	8,200	190
194	3.2	120.3	9,900	19.5	161.5	8,900	27.3	177.8	7,900	194
195				18.5	158.8	8,800	26.6	176.0	7,800	195
200				11.5	140.2	8,400	22.2	164.9	7,400	200
203				3.0	116.7	8,100	19.0	156.5	7,200	203
205							16.9	150.9	7,000	205
210							8.8	129.0	6,600	210
211							6.1	121.3	6,500	211

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



ft	87°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
56	75.0	279.4	31,500							56
60	73.6	278.3	31,100							60
65	71.8	276.7	30,700							65
70	70.0	275.0	30,200							70
75	68.2	273.1	29,900	70.9	275.1	29,400				75
80	66.4	271.0	29,300	69.1	273.3	29,000				80
85	64.5	268.7	28,100	67.3	271.3	28,700				85
89	63.0	266.7	27,100	65.8	269.5	28,400	67.9	271.0	27,700	89
90	62.7	266.3	26,900	65.5	269.1	28,300	67.5	270.6	27,700	90
95	60.8	263.6	25,700	63.6	266.7	27,600	65.7	268.4	27,700	95
100	58.8	260.6	24,500	61.7	264.1	26,400	63.8	266.1	27,200	100
105	56.8	257.5	23,400	59.8	261.3	25,300	62.0	263.5	26,500	105
110	54.8	254.1	22,200	57.8	258.3	24,100	60.0	260.7	25,400	110
112	53.9	252.6	21,800	57.0	257.0	23,700	59.2	259.5	24,900	112
115	52.7	250.4	21,200	55.8	255.0	23,000	58.1	257.7	24,200	115
120	50.5	246.5	20,200	53.7	251.5	21,900	56.1	254.5	22,800	120
125	48.3	242.2	19,200	51.6	247.7	20,800	54.0	251.0	21,600	125
130	46.0	237.5	18,200	49.4	243.6	19,800	51.9	247.2	20,400	130
134	44.1	233.5	17,500	47.6	240.0	19,000	50.1	243.9	19,500	134
135	43.6	232.5	17,300	47.2	239.1	18,800	49.7	243.1	19,300	135
140	41.1	227.0	16,400	44.8	234.3	17,900	47.5	238.7	18,300	140
145	38.5	221.0	15,600	42.4	229.1	17,000	45.1	233.9	17,400	145
150	35.7	214.4	14,700	39.8	223.3	16,100	42.7	228.8	16,600	150
155	32.7	207.1	14,000	37.1	217.0	15,300	40.2	223.1	15,700	155
160	29.4	198.8	13,100	34.2	210.1	14,500	37.5	216.9	15,000	160
165	25.8	189.2	12,200	31.1	202.3	13,600	34.6	210.0	14,300	165
170	21.6	177.8	11,300	27.7	193.4	12,600	31.5	202.3	13,600	170
175	16.4	163.3	10,500	23.8	183.0	11,800	28.1	193.6	12,800	175
180	8.6	140.7	9,700	19.2	170.3	11,000	24.3	183.4	11,900	180
181	6.0	132.9	9,700	18.0	166.9	10,800	23.4	180.9	11,800	181
185				13.2	153.1	10,200	19.8	171.1	11,100	185
189				4.2	126.9	9,600	15.2	157.9	10,400	189
190							14.0	154.6	10,300	190
195							1.5	117.9	9,700	195
200										200
204										204
205										205
210										210
213										213
215										215
220										220
221										221

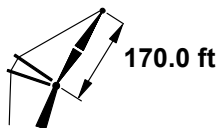
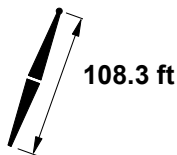


# MLC150-1 S-2

ASME B30.5



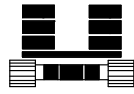
110,500 lb  
+  
35,000 lb



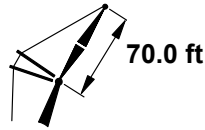
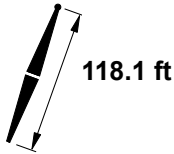
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
56										56
60										60
65										65
70										70
75										75
80										80
85										85
89										89
90										90
95										95
100										100
105										105
110										110
112	62.8	262.4	23,100							112
115	61.6	260.8	22,200							115
120	59.7	258.0	20,900							120
125	57.7	255.0	19,800							125
130	55.7	251.7	18,700							130
134	54.1	248.9	17,900	57.7	251.9	16,200				134
135	53.7	248.2	17,700	57.3	251.3	16,000				135
140	51.5	244.3	16,700	55.3	248.0	15,200				140
145	49.4	240.2	15,900	53.2	244.4	14,400				145
150	47.1	235.7	15,100	51.1	240.5	13,600				150
155	44.7	230.9	14,300	48.9	236.3	12,900	52.7	239.6	11,600	155
160	42.3	225.6	13,600	46.6	231.7	12,300	50.5	235.6	11,000	160
165	39.7	219.9	13,000	44.3	226.8	11,700	48.3	231.3	10,400	165
170	37.0	213.6	12,300	41.8	221.5	11,100	46.0	226.7	9,900	170
175	34.1	206.6	11,800	39.2	215.6	10,500	43.6	221.6	9,300	175
180	31.0	198.7	11,200	36.4	209.2	10,000	41.1	216.2	8,900	180
181	30.3	197.0	11,100	35.8	207.7	9,900	40.6	214.9	8,800	181
185	27.5	189.8	10,700	33.5	202.0	9,500	38.5	210.1	8,400	185
189	24.4	181.5	10,300	30.9	195.6	9,200	36.2	204.8	8,100	189
190	23.6	179.4	10,200	30.3	194.0	9,100	35.7	203.5	8,000	190
195	19.0	166.6	9,700	26.8	184.8	8,600	32.7	196.2	7,600	195
200	12.9	149.0	9,200	22.8	173.9	8,200	29.4	187.9	7,200	200
204	3.2	120.6	8,800	18.9	163.1	7,900	26.5	180.2	6,900	204
205				17.9	160.4	7,800	25.8	178.3	6,800	205
210				11.2	141.2	7,400	21.6	166.9	6,500	210
213				3.0	117.0	7,100	18.5	158.1	6,300	213
215							16.4	152.3	6,100	215
220							8.6	129.7	5,800	220
221							5.9	121.8	5,700	221

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



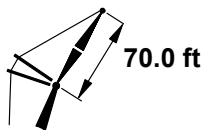
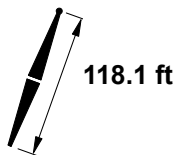
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
31	74.6	192.6	88,100 d							31
32	73.8	192.3	88,000 d							32
34	72.1	191.7	87,900 d							34
36	70.3	191.0	87,700 d							36
38	68.6	190.2	84,400 c							38
40	66.8	189.4	80,700 c							40
42	65.0	188.5	77,200 c							42
44	63.2	187.6	74,200 c	70.5	190.2	89,600 d				44
46	61.4	186.5	71,400 c	68.8	189.4	87,200 c				46
48	59.5	185.4	68,800 b	67.0	188.6	82,500 c				48
50	57.6	184.1	66,400 b	65.2	187.7	78,300 c				50
53	54.6	182.0	63,300 b	62.5	186.2	72,900 c	68.0	188.1	69,700 c	53
55	52.6	180.6	61,200 b	60.6	185.2	69,300 c	66.2	187.2	66,500 c	55
60	47.2	176.4	57,000 b	55.8	182.1	62,100 b	61.7	184.8	59,600 c	60
65	41.3	171.3	53,400	50.7	178.4	56,100 b	56.9	181.8	53,800 b	65
69	36.0	166.2	51,000	46.3	174.7	52,100 b	52.9	178.9	50,000 b	69
70	34.7	164.9	50,400	45.2	173.8	51,100 b	51.9	178.2	49,100 b	70
75	26.7	156.5	47,900	39.1	168.3	46,900	46.4	173.9	45,000 b	75
80	15.2	143.4	45,400	32.0	161.3	43,200	40.5	168.6	41,500	80
82	6.4	132.9	43,900	28.5	157.5	41,900	37.8	166.0	40,200	82
84				25.0	153.7	40,600	35.1	163.3	39,000	84
85				23.2	151.8	40,000	33.7	162.0	38,400	85
90				7.8	133.7	37,000	25.4	153.2	35,700	90
95							12.9	138.8	33,200	95
96							8.5	133.5	32,700	96
99										99
100										100
105										105
106										106
110										110
115										115
116										116
120										120
125										125
126										126

# MLC150-1 S-2

ASME B30.5



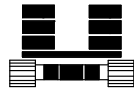
110,500 lb  
+  
35,000 lb



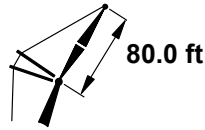
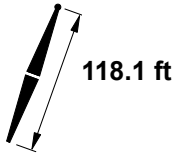
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
31										31
32										32
34										34
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
53										53
55										55
60										60
65										65
69	62.6	182.9	46,500 c							69
70	61.7	182.4	45,600 c							70
75	56.9	179.4	41,800 b							75
80	51.9	175.8	38,600 b							80
82	49.7	174.1	37,400 b							82
84	47.6	172.4	36,300 b	57.7	176.6	33,600 b				84
85	46.5	171.5	35,700 b	56.7	176.0	33,100 b				85
90	40.5	166.2	33,200	51.7	172.4	30,700 b				90
95	33.8	159.6	31,000	46.3	168.0	28,700 b				95
96	32.1	157.9	30,600	45.1	166.9	28,300 b				96
99	27.1	152.6	29,400	41.5	163.8	27,200 b	52.2	168.6	25,000 b	99
100	25.5	150.8	28,900	40.3	162.7	26,800	51.1	167.8	24,700 b	100
105	13.0	136.5	27,100	33.5	156.0	25,100	45.6	163.4	23,100 b	105
106	8.7	131.3	26,700	31.8	154.2	24,800	44.4	162.3	22,900 b	106
110				25.1	147.1	23,600	39.6	157.9	21,700	110
115				12.2	132.3	22,100	32.6	151.1	20,500	115
116				7.5	126.5	21,800	30.9	149.2	20,200	116
120							24.0	141.8	19,300	120
125							10.0	125.4	18,100	125
126							2.3	116.1	17,800	126

# MLC150-1 S-2

ASME B30.5



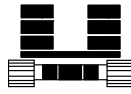
110,500 lb  
+  
35,000 lb



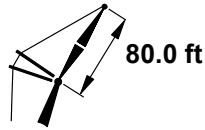
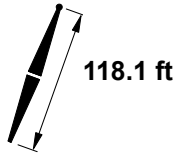
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
34	74.4	202.1	81,100 d							34
36	72.9	201.5	81,000 d							36
38	71.4	200.9	80,800 c							38
40	69.9	200.2	79,700 c							40
42	68.3	199.4	76,400 c							42
44	66.8	198.6	73,300 c							44
46	65.2	197.7	70,400 c							46
47	64.4	197.2	69,100 c	70.8	199.7	82,500 c				47
48	63.6	196.7	67,800 b	70.0	199.4	81,600 c				48
50	62.0	195.7	65,400 b	68.5	198.6	78,000 c				50
55	57.9	192.8	60,200 b	64.6	196.4	69,000 c				55
57	56.1	191.4	58,500 b	63.0	195.4	66,100 c	67.8	197.2	63,200 c	57
60	53.5	189.4	55,900 b	60.5	193.9	61,700 b	65.5	195.9	59,200 c	60
65	48.9	185.4	52,300	56.3	190.8	55,800 b	61.5	193.4	53,500 b	65
70	44.0	180.6	49,200	51.9	187.2	50,800	57.3	190.5	48,700 b	70
74	39.6	176.1	47,100	48.2	183.8	47,400	53.8	187.7	45,500 b	74
75	38.6	174.9	46,500	47.2	182.9	46,600	52.9	187.0	44,700 b	75
80	32.4	167.9	44,300	42.1	177.8	43,000	48.3	182.9	41,200	80
85	24.9	158.8	42,000	36.5	171.7	39,800	43.3	178.0	38,100	85
89	16.3	147.5	39,600	31.2	165.6	37,500	38.9	173.3	36,000	89
90	14.2	144.7	39,000	29.9	164.1	37,000	37.8	172.2	35,400	90
92	6.0	133.4	37,800	26.6	159.9	36,000	35.3	169.3	34,500	92
95				21.7	153.7	34,500	31.5	164.9	33,100	95
100				7.3	134.4	32,100	23.7	155.4	30,900	100
105							12.1	139.9	28,900	105
106							7.9	134.2	28,500	106
110										110
115										115
116										116
120										120
125										125
126										126
130										130
135										135
136										136

# MLC150-1 S-2

ASME B30.5



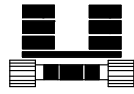
110,500 lb  
+  
35,000 lb



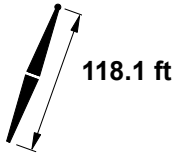
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	lb		
34									34	
36									36	
38									38	
40									40	
42									42	
44									44	
46									46	
47									47	
48									48	
50									50	
55									55	
57									57	
60									60	
65									65	
70									70	
74	62.3	191.6	42,100 <b>b</b>						74	
75	61.5	191.0	41,400 <b>b</b>						75	
80	57.3	188.1	38,200 <b>b</b>						80	
85	53.0	184.6	35,300 <b>b</b>						85	
89	49.2	181.3	33,400 <b>b</b>	58.0	185.3	30,800 <b>b</b>			89	
90	48.3	180.5	32,900	57.1	184.6	30,300 <b>b</b>			90	
92	46.3	178.5	32,000	55.4	183.2	29,500 <b>b</b>			92	
95	43.3	175.6	30,700	52.8	181.1	28,300 <b>b</b>			95	
100	37.8	169.8	28,700	48.1	177.0	26,400			100	
105	31.5	162.6	26,900	43.1	172.1	24,800	52.3	176.6	22,700	105
106	30.0	160.7	26,600	42.0	170.9	24,500	51.3	175.8	22,400	106
110	23.8	153.0	25,300	37.6	166.2	23,300	47.6	172.4	21,300	110
115	12.2	137.6	23,700	31.2	158.9	21,900	42.5	167.4	20,100	115
116	8.1	132.1	23,400	29.7	157.0	21,700	41.4	166.2	19,900	116
120				23.4	149.2	20,700	36.9	161.4	18,900	120
125				11.5	133.3	19,400	30.5	153.9	17,900	125
126				7.0	127.2	19,200	28.9	151.9	17,700	126
130							22.4	143.8	16,900	130
135							9.3	126.3	15,900	135
136							2.2	116.3	15,600	136

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



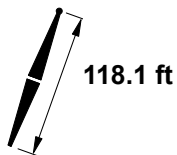
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
36	74.8	211.9	74,200 d							36
38	73.5	211.4	74,000 c							38
40	72.2	210.7	73,800 c							40
42	70.8	210.1	73,700 c							42
44	69.5	209.4	72,600 c							44
46	68.1	208.6	69,800 c							46
48	66.7	207.8	67,100 b							48
50	65.3	206.9	64,800 b	71.0	209.3	75,000 c				50
55	61.8	204.4	59,600 b	67.6	207.4	68,700 c				55
60	58.1	201.5	55,200 b	64.1	205.1	61,500 b				60
61	57.3	200.8	54,500 b	63.4	204.6	60,300 b	67.6	206.4	57,700 c	61
65	54.3	198.1	51,500	60.5	202.5	55,600 b	64.9	204.6	53,200 b	65
70	50.2	194.3	48,400	56.8	199.5	50,600	61.3	202.1	48,500 b	70
75	46.0	189.8	45,700	52.9	195.9	46,400	57.6	199.1	44,400 b	75
78	43.2	186.6	44,300	50.4	193.5	44,200	55.3	197.1	42,300 b	78
80	41.4	184.5	43,300	48.8	191.9	42,800	53.7	195.7	41,000	80
85	36.3	178.3	41,400	44.4	187.1	39,600	49.7	191.8	37,900	85
90	30.5	170.7	39,000	39.6	181.6	36,900	45.4	187.2	35,300	90
95	23.5	160.9	36,300	34.3	174.9	34,400	40.7	181.9	32,900	95
100	13.4	145.9	34,000	28.2	166.7	32,200	35.5	175.5	30,800	100
102	5.7	133.9	33,000	25.1	162.2	31,400	33.2	172.3	30,000	102
105				20.4	155.6	30,200	29.6	167.7	28,900	105
110				6.9	135.0	28,300	22.4	157.4	27,200	110
111							20.2	154.1	26,800	111
115							11.4	140.9	25,500	115
116							7.5	134.9	25,200	116
120										120
125										125
126										126
130										130
135										135
136										136
140										140
145										145
146										146

# MLC150-1 S-2

ASME B30.5



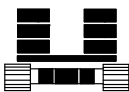
110,500 lb  
+  
35,000 lb



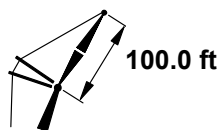
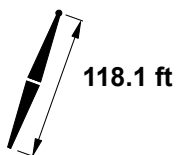
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
60										60
61										61
65										65
70										70
75										75
78	62.8	200.8	39,200 b							78
80	61.3	199.7	37,900 b							80
85	57.6	196.7	35,100 b							85
90	53.8	193.3	32,600							90
95	49.7	189.4	30,400	57.5	193.3	28,000 b				95
100	45.4	184.8	28,500	53.6	189.9	26,200				100
102	43.5	182.7	27,800	52.0	188.3	25,500				102
105	40.7	179.5	26,700	49.5	185.9	24,600				105
110	35.6	173.1	25,100	45.2	181.3	23,100				110
111	34.4	171.5	24,800	44.3	180.2	22,800	52.4	184.6	20,800	111
115	29.7	165.3	23,700	40.5	175.9	21,700	49.1	181.3	19,900	115
116	28.2	163.2	23,400	39.5	174.6	21,500	48.2	180.4	19,600	116
120	22.4	155.1	22,300	35.4	169.5	20,500	44.7	176.6	18,700	120
125	11.5	138.7	21,000	29.4	161.6	19,400	40.0	171.2	17,700	125
126	7.7	132.7	20,800	27.9	159.6	19,200	39.0	169.9	17,500	126
130				22.1	151.3	18,300	34.8	164.6	16,700	130
135				10.8	134.3	17,300	28.7	156.5	15,800	135
136				6.6	127.8	17,100	27.2	154.4	15,600	136
140							21.1	145.8	15,000	140
145							8.8	127.1	14,100	145
146							2.0	116.5	13,900	146

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
39	74.6	221.5	68,200 c							39
40	74.0	221.2	68,100 c							40
42	72.8	220.6	67,900 c							42
44	71.6	220.0	67,700 c							44
46	70.4	219.3	67,200 c							46
48	69.2	218.5	65,900 b							48
50	67.9	217.8	64,200 b							50
54	65.4	216.0	59,900 b	70.5	218.5	68,700 c				54
55	64.8	215.6	58,900 b	69.9	218.1	68,400 c				55
60	61.6	213.0	54,500 b	66.8	216.1	61,200 b				60
65	58.3	210.1	50,800	63.7	213.8	55,300 b	67.5	215.6	52,900 b	65
70	54.9	206.8	47,700	60.4	211.2	50,300	64.4	213.3	48,100 b	70
75	51.3	203.1	45,000	57.1	208.1	46,100	61.2	210.8	44,100	75
80	47.5	198.8	42,600	53.6	204.7	42,500	57.8	207.8	40,600	80
83	45.1	195.8	41,300	51.4	202.3	40,600	55.8	205.8	38,800	83
85	43.5	193.9	40,500	50.0	200.7	39,300	54.4	204.5	37,600	85
90	39.1	188.2	38,600	46.1	196.2	36,600	50.8	200.6	34,900	90
95	34.4	181.5	36,200	42.0	191.1	34,100	47.0	196.3	32,600	95
100	28.9	173.4	33,800	37.5	185.1	31,900	42.9	191.3	30,500	100
105	22.2	162.9	31,700	32.5	177.9	30,000	38.5	185.5	28,600	105
110	12.7	147.0	29,800	26.7	169.1	28,200	33.7	178.6	26,900	110
112	5.4	134.4	29,000	23.8	164.4	27,500	31.4	175.2	26,300	112
115				19.4	157.3	26,500	28.1	170.2	25,400	115
117				14.2	148.7	25,900	25.3	165.9	24,800	117
120				6.6	135.6	25,000	21.2	159.3	23,900	120
125							10.8	141.9	22,600	125
126							7.1	135.5	22,300	126
130										130
135										135
136										136
140										140
145										145
146										146
150										150
155										155
156										156

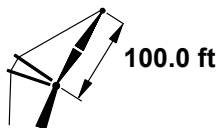
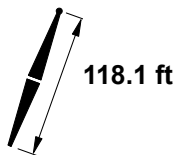


# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



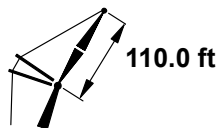
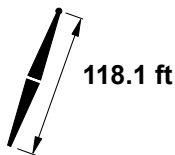
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
39										39
40										40
42										42
44										44
46										46
48										48
50										50
54										54
55										55
60										60
65										65
70										70
75										75
80										80
83	62.5	209.4	35,800 b							83
85	61.2	208.4	34,700							85
90	57.9	205.4	32,300							90
95	54.4	202.1	30,100							95
100	50.8	198.2	28,100	57.7	202.0	25,800				100
105	47.0	193.9	26,400	54.3	198.6	24,200				105
110	43.0	188.9	24,800	50.7	194.8	22,700				110
112	41.2	186.6	24,200	49.1	193.0	22,200				112
115	38.6	183.1	23,400	46.8	190.4	21,400				115
117	36.6	180.3	22,800	45.2	188.4	20,900	52.5	192.6	19,000	117
120	33.7	176.2	22,000	42.8	185.4	20,200	50.3	190.2	18,300	120
125	28.1	167.9	20,800	38.4	179.5	19,000	46.4	185.7	17,300	125
126	26.7	165.7	20,600	37.4	178.1	18,800	45.6	184.7	17,100	126
130	21.3	157.0	19,700	33.5	172.6	18,000	42.3	180.6	16,300	130
135	10.9	139.6	18,600	27.9	164.2	17,000	37.9	174.7	15,500	135
136	7.3	133.4	18,400	26.5	162.0	16,900	36.9	173.3	15,300	136
140				20.9	153.2	16,100	32.9	167.7	14,600	140
145				10.2	135.2	15,300	27.2	159.0	13,900	145
146				6.2	128.3	15,100	25.8	156.7	13,700	146
150							20.0	147.6	13,100	150
155							8.3	127.8	12,400	155
156							1.9	116.7	12,200	156

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



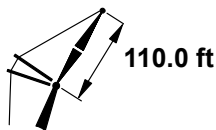
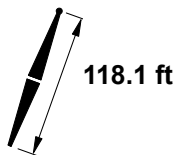
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
41	75.0	231.3	62,900 c							41
42	74.4	231.0	62,900 c							42
44	73.3	230.4	62,500 c							44
46	72.2	229.8	61,600 c							46
48	71.1	229.2	60,600 b							48
50	70.0	228.5	59,500 b							50
55	67.2	226.5	56,800 b							55
57	66.1	225.6	55,700 b	70.7	228.0	63,200 b				57
60	64.4	224.3	54,000	69.0	226.9	61,100 b				60
65	61.5	221.7	50,400	66.2	224.9	55,200 b				65
68	59.7	220.0	48,500	64.5	223.4	52,200 b	68.0	225.1	49,800 b	68
70	58.5	218.8	47,300	63.4	222.5	50,200	66.9	224.3	48,000 b	70
75	55.3	215.6	44,500	60.4	219.8	46,000	64.0	222.0	44,000	75
80	52.1	211.9	42,100	57.4	216.8	42,400	61.1	219.4	40,500	80
85	48.7	207.7	40,000	54.2	213.4	39,300	58.0	216.5	37,500	85
87	47.3	205.9	39,100	52.9	211.9	38,200	56.8	215.2	36,500	87
90	45.2	203.1	37,600	50.9	209.6	36,500	54.9	213.2	34,900	90
95	41.4	197.8	35,300	47.5	205.3	34,100	51.7	209.4	32,500	95
100	37.3	191.7	33,300	43.8	200.4	31,900	48.3	205.2	30,500	100
105	32.7	184.5	31,300	39.9	194.8	29,900	44.7	200.5	28,600	105
110	27.5	175.9	29,600	35.7	188.4	28,200	40.8	195.1	26,900	110
115	21.2	164.8	28,000	30.9	180.8	26,600	36.7	188.9	25,400	115
120	12.1	148.1	26,600	25.4	171.4	25,100	32.1	181.5	23,900	120
122	5.1	134.9	26,000	22.6	166.5	24,600	29.9	178.0	23,400	122
123				21.2	164.0	24,300	28.9	176.2	23,200	123
125				18.5	159.0	23,700	26.7	172.7	22,700	125
130				6.3	136.2	22,400	20.2	161.1	21,400	130
135							10.3	142.8	20,300	135
136							6.8	136.1	20,100	136
140										140
145										145
146										146
150										150
155										155
156										156
160										160
165										165
166										166

# MLC150-1 S-2

ASME B30.5



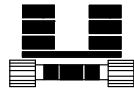
110,500 lb  
+  
35,000 lb



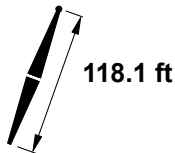
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
41									41	
42									42	
44									44	
46									46	
48									48	
50									50	
55									55	
57									57	
60									60	
65									65	
68									68	
70									70	
75									75	
80									80	
85									85	
87	62.9	218.6	33,600						87	
90	61.1	217.0	32,200						90	
95	58.1	214.1	30,000						95	
100	54.9	210.8	28,100						100	
105	51.7	207.0	26,300	57.9	210.7	24,100			105	
110	48.3	202.9	24,800	54.8	207.3	22,600			110	
115	44.7	198.1	23,300	51.6	203.6	21,300			115	
120	40.9	192.7	22,000	48.1	199.4	20,100			120	
122	39.2	190.2	21,500	46.7	197.5	19,700			122	
123	38.4	189.0	21,300	46.0	196.5	19,500	52.5	200.6	17,600	123
125	36.7	186.5	20,800	44.5	194.6	19,000	51.2	199.0	17,200	125
130	32.1	179.2	19,700	40.7	189.2	18,000	47.8	194.8	16,300	130
135	26.8	170.3	18,700	36.5	182.9	17,100	44.1	189.9	15,400	135
136	25.5	168.0	18,500	35.6	181.4	16,900	43.4	188.8	15,300	136
140	20.3	158.8	17,700	31.9	175.5	16,200	40.3	184.4	14,600	140
145	10.4	140.6	16,800	26.5	166.6	15,400	36.0	178.0	13,900	145
146	6.9	134.0	16,600	25.2	164.3	15,200	35.1	176.5	13,700	146
150				19.9	155.0	14,600	31.4	170.5	13,200	150
155				9.8	136.1	13,800	25.9	161.4	12,500	155
156				6.0	128.8	13,600	24.5	159.0	12,400	156
160							19.1	149.3	11,900	160
165							8.0	128.5	11,200	165
166							1.8	116.8	11,100	166

# MLC150-1 S-2

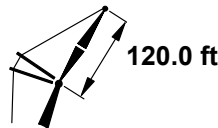
ASME B30.5



110,500 lb  
+  
35,000 lb



118.1 ft



120.0 ft

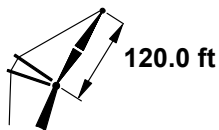
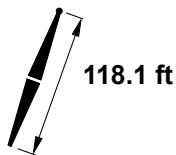
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
44	74.8	240.8	48,900 c							44
46	73.8	240.3	48,500 c							46
48	72.8	239.7	48,100 b							48
50	71.8	239.0	47,800 b							50
55	69.2	237.3	46,900 b							55
60	66.7	235.2	46,100	70.9	237.6	48,000 b				60
65	64.0	233.0	45,200	68.3	235.7	47,300 b				65
70	61.3	230.4	44,400	65.7	233.6	46,700				70
72	60.2	229.2	43,500	64.7	232.6	46,300	67.9	234.3	46,000 b	72
75	58.6	227.5	42,100	63.1	231.2	45,700	66.3	233.0	43,600	75
80	55.7	224.2	39,900	60.4	228.5	42,100	63.7	230.7	40,200	80
85	52.8	220.7	37,800	57.6	225.5	39,000	61.0	228.1	37,200	85
90	49.7	216.6	35,700	54.7	222.1	36,200	58.2	225.2	34,500	90
92	48.5	214.8	34,900	53.5	220.6	35,200	57.1	223.8	33,600	92
95	46.5	212.2	33,800	51.7	218.4	33,800	55.4	221.9	32,200	95
100	43.1	207.1	31,800	48.6	214.2	31,600	52.4	218.2	30,100	100
105	39.5	201.4	30,100	45.3	209.6	29,700	49.3	214.2	28,300	105
110	35.6	194.9	28,500	41.9	204.3	27,900	46.1	209.6	26,600	110
111	34.7	193.4	28,200	41.1	203.1	27,600	45.4	208.6	26,300	111
115	31.3	187.4	26,900	38.2	198.4	26,300	42.7	204.5	25,100	115
120	26.3	178.3	25,600	34.1	191.5	24,900	39.0	198.7	23,700	120
125	20.3	166.7	24,400	29.6	183.5	23,500	35.1	192.1	22,400	125
129	13.3	152.6	23,600	25.4	175.6	22,500	31.5	185.9	21,400	129
130	11.6	149.1	23,400	24.3	173.6	22,300	30.7	184.3	21,200	130
132	4.9	135.3	23,100	21.7	168.4	21,800	28.6	180.6	20,800	132
135				17.7	160.6	21,100	25.6	175.0	20,100	135
140				6.0	136.7	20,000	19.3	162.9	19,100	140
145							9.8	143.7	18,100	145
146							6.5	136.7	17,900	146
150										150
155										155
156										156
160										160
165										165
166										166
170										170
175										175
176										176

# MLC150-1 S-2

ASME B30.5



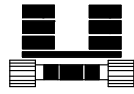
110,500 lb  
+  
35,000 lb



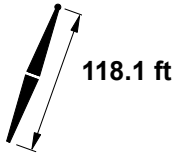
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
44										44
46										46
48										48
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55										55
60										60
65										65
70										70
72										72
75										75
80										80
85										85
90										90
92	62.6	227.3	30,900							92
95	61.0	225.7	29,600							95
100	58.2	222.8	27,700							100
105	55.4	219.5	26,000							105
110	52.4	215.8	24,400							110
111	51.8	215.0	24,100	57.5	218.7	22,000				111
115	49.3	211.8	23,000	55.3	216.0	20,900				115
120	46.1	207.2	21,700	52.3	212.4	19,700				120
125	42.7	202.1	20,500	49.2	208.3	18,600				125
129	39.8	197.5	19,600	46.6	204.6	17,800	52.6	208.6	16,100	129
130	39.1	196.3	19,400	46.0	203.7	17,600	52.0	207.8	15,900	130
132	37.5	193.7	19,000	44.6	201.7	17,300	50.7	206.2	15,600	132
135	35.1	189.7	18,400	42.6	198.6	16,700	48.9	203.7	15,000	135
140	30.7	182.0	17,500	38.9	192.8	15,800	45.6	199.1	14,300	140
145	25.6	172.6	16,600	34.9	186.1	15,000	42.2	193.9	13,500	145
146	24.4	170.2	16,400	34.0	184.6	14,900	41.4	192.7	13,400	146
150	19.4	160.6	15,700	30.5	178.3	14,300	38.5	188.0	12,800	150
155	10.0	141.5	14,900	25.4	168.9	13,600	34.5	181.2	12,200	155
156	6.6	134.6	14,800	24.1	166.5	13,400	33.6	179.6	12,000	156
160				19.1	156.7	12,900	30.0	173.3	11,600	160
165				9.3	136.9	12,200	24.8	163.6	11,000	165
166				5.7	129.4	12,100	23.5	161.1	10,900	166
170							18.3	151.0	10,400	170
175							7.6	129.2	9,800	175
176							1.8	117.0	9,700	176

# MLC150-1 S-2

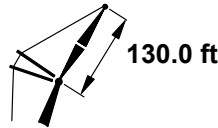
ASME B30.5



110,500 lb  
+  
35,000 lb



118.1 ft



130.0 ft

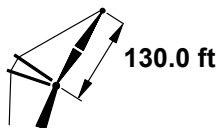
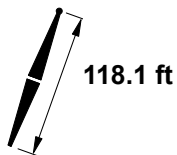
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
47	74.6	250.4	45,500 b							47
48	74.1	250.1	45,400 b							48
50	73.2	249.5	45,000 b							50
55	70.9	247.9	44,200 b							55
60	68.5	246.1	43,500							60
63	67.1	244.8	43,000	71.0	247.1	44,700 b				63
65	66.2	244.0	42,700	70.1	246.4	44,400 b				65
70	63.7	241.6	41,400	67.7	244.5	43,800				70
75	61.2	239.0	39,600	65.3	242.3	43,300				75
76	60.7	238.5	39,300	64.8	241.8	43,000	67.8	243.5	42,700	76
80	58.7	236.1	37,700	62.8	239.9	41,900	65.8	241.8	39,900	80
85	56.1	232.9	36,000	60.3	237.2	38,700	63.4	239.4	36,900	85
90	53.4	229.4	34,200	57.8	234.2	36,000	60.9	236.7	34,300	90
95	50.6	225.5	32,500	55.1	230.8	33,600	58.3	233.8	32,000	95
96	50.0	224.6	32,100	54.6	230.1	33,100	57.8	233.2	31,600	96
100	47.7	221.2	30,800	52.4	227.2	31,400	55.7	230.6	29,900	100
105	44.6	216.4	29,200	49.6	223.1	29,500	53.0	227.0	28,000	105
110	41.4	211.0	27,700	46.6	218.6	27,700	50.2	223.0	26,400	110
115	37.9	205.0	26,300	43.5	213.6	26,100	47.3	218.6	24,800	115
116	37.2	203.6	26,000	42.8	212.5	25,800	46.6	217.7	24,600	116
120	34.2	198.1	24,900	40.2	208.0	24,700	44.2	213.8	23,500	120
125	30.0	190.1	23,700	36.6	201.7	23,300	40.9	208.3	22,200	125
130	25.3	180.6	22,600	32.7	194.5	22,100	37.4	202.2	21,000	130
135	19.5	168.4	21,600	28.4	186.0	21,000	33.6	195.2	19,900	135
140	11.1	150.1	20,800	23.4	175.7	19,900	29.4	187.0	18,900	140
142		135.7	20,700	20.8	170.3	19,500	27.5	183.1	18,600	142
145				17.0	162.1	18,900	24.6	177.2	18,000	145
150				5.8	137.2	18,000	18.6	164.6	17,100	150
155							9.5	144.5	16,200	155
156							6.2	137.3	16,100	156
160										160
165										165
166										166
170										170
175										175
176										176
180										180
185										185
186										186

# MLC150-1 S-2

ASME B30.5



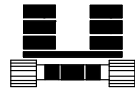
110,500 lb  
+  
35,000 lb



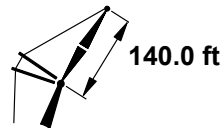
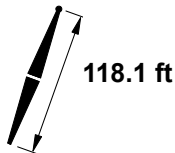
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
47										47
48										48
50										50
55										55
60										60
63										63
65										65
70										70
75										75
76										76
80										80
85										85
90										90
95										95
96	62.9	236.5	29,000							96
100	60.9	234.3	27,400							100
105	58.4	231.4	25,700							105
110	55.7	228.2	24,100							110
115	53.0	224.6	22,700							115
116	52.5	223.8	22,500	57.7	227.4	20,400				116
120	50.2	220.6	21,400	55.6	224.7	19,500				120
125	47.3	216.2	20,300	52.9	221.1	18,400				125
130	44.2	211.4	19,200	50.1	217.2	17,400				130
135	40.9	205.9	18,200	47.2	212.8	16,500	52.6	216.6	14,800	135
140	37.5	199.8	17,300	44.1	207.9	15,600	49.8	212.6	14,000	140
142	35.9	197.0	16,900	42.8	205.7	15,300	48.6	210.8	13,700	142
145	33.7	192.8	16,400	40.8	202.4	14,800	46.8	208.1	13,300	145
150	29.5	184.7	15,600	37.3	196.2	14,100	43.7	203.2	12,600	150
155	24.6	174.9	14,800	33.5	189.2	13,400	40.4	197.6	11,900	155
156	23.4	172.3	14,700	32.7	187.6	13,200	39.7	196.4	11,800	156
160	18.6	162.2	14,100	29.3	181.0	12,700	36.9	191.4	11,300	160
165	9.6	142.3	13,400	24.4	171.1	12,100	33.1	184.2	10,800	165
166	6.4	135.2	13,200	23.2	168.5	12,000	32.2	182.6	10,700	166
170				18.3	158.3	11,500	28.8	175.9	10,200	170
175				9.0	137.7	10,900	23.8	165.8	9,700	175
176				5.5	129.8	10,800	22.6	163.1	9,600	176
180							17.6	152.5	9,200	180
185							7.3	129.9	8,700	185
186							1.7	117.1	8,600	186

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



ft	87°			83°			80°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
49	74.9	260.2	42,300 b						49	
50	74.4	259.9	42,200 b						50	
55	72.3	258.4	41,500 b						55	
60	70.1	256.7	40,800						60	
65	68.0	254.8	39,800						65	
67	67.1	254.0	39,200	70.7	256.3	41,200			67	
70	65.7	252.7	38,400	69.4	255.2	41,000			70	
75	63.5	250.3	36,900	67.2	253.2	40,400			75	
80	61.2	247.7	35,400	64.9	251.0	40,000	67.7	252.6	39,600	80
85	58.8	244.8	34,000	62.6	248.5	38,400	65.4	250.5	36,600	85
90	56.4	241.6	32,400	60.3	245.8	35,700	63.2	248.1	34,000	90
95	53.9	238.1	30,900	57.9	242.8	33,300	60.8	245.4	31,600	95
100	51.3	234.3	29,500	55.5	239.5	31,100	58.5	242.5	29,600	100
101	50.8	233.5	29,200	55.0	238.8	30,700	58.0	241.8	29,200	101
105	48.6	230.1	28,100	53.0	235.9	29,200	56.0	239.3	27,700	105
110	45.8	225.5	26,700	50.3	232.0	27,400	53.5	235.7	26,000	110
115	42.9	220.4	25,400	47.6	227.6	25,800	50.9	231.9	24,500	115
120	39.8	214.7	24,200	44.8	222.8	24,400	48.2	227.6	23,100	120
121	39.1	213.4	24,000	44.2	221.8	24,100	47.7	226.7	22,900	121
125	36.5	208.3	23,000	41.8	217.5	23,100	45.4	222.9	21,900	125
130	32.9	201.1	21,900	38.6	211.6	21,800	42.5	217.7	20,700	130
135	28.9	192.7	20,900	35.2	205.0	20,700	39.4	212.0	19,600	135
140	24.3	182.8	20,000	31.5	197.4	19,700	36.0	205.5	18,600	140
141	23.2	180.2	19,900	30.7	195.6	19,500	35.3	204.0	18,500	141
145	18.8	170.1	19,200	27.4	188.5	18,700	32.4	198.1	17,700	145
150	10.7	151.1	18,600	22.5	177.8	17,800	28.3	189.6	16,900	150
152	4.5	136.1	18,500	20.0	172.1	17,500	26.5	185.5	16,500	152
155				16.3	163.6	16,900	23.7	179.3	16,000	155
160				5.5	137.7	16,100	17.9	166.2	15,300	160
165							9.1	145.3	14,500	165
166							6.0	137.8	14,300	166
170										170
175										175
176										176
180										180
185										185
186										186
190										190
195										195
196										196

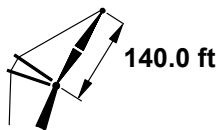
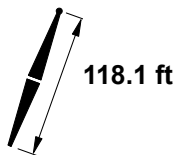


# MLC150-1 S-2

ASME B30.5



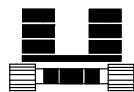
110,500 lb  
+  
35,000 lb



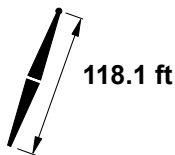
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
49										49
50										50
55										55
60										60
65										65
67										67
70										70
75										75
80										80
85										85
90										90
95										95
100										100
101	62.7	245.2	26,700							101
105	60.9	243.0	25,300							105
110	58.5	240.1	23,800							110
115	56.0	236.9	22,400							115
120	53.5	233.3	21,100							120
121	53.0	232.6	20,900	57.9	236.0	18,900				121
125	51.0	229.5	19,900	55.9	233.4	18,000				125
130	48.3	225.2	18,800	53.4	229.9	17,000				130
135	45.5	220.5	17,800	50.8	226.0	16,100				135
140	42.5	215.3	16,900	48.2	221.7	15,200				140
141	41.9	214.2	16,800	47.6	220.8	15,100	52.7	224.6	13,400	141
145	39.4	209.6	16,100	45.3	217.0	14,400	50.6	221.4	12,900	145
150	36.1	203.1	15,300	42.4	211.8	13,700	47.9	217.1	12,200	150
152	34.6	200.2	15,000	41.1	209.5	13,400	46.7	215.2	11,900	152
155	32.4	195.8	14,500	39.3	206.0	13,000	45.0	212.4	11,600	155
160	28.4	187.2	13,800	35.9	199.5	12,400	42.1	207.1	11,000	160
165	23.7	177.0	13,100	32.3	192.1	11,800	38.9	201.2	10,400	165
166	22.5	174.4	13,000	31.4	190.4	11,600	38.2	199.9	10,300	166
170	17.9	163.9	12,500	28.2	183.6	11,200	35.5	194.7	9,900	170
175	9.2	143.1	11,900	23.5	173.2	10,600	31.8	187.2	9,400	175
176	6.1	135.7	11,700	22.3	170.6	10,500	31.0	185.4	9,300	176
180				17.7	159.9	10,100	27.7	178.4	8,900	180
185				8.7	138.5	9,600	22.9	167.8	8,400	185
186				5.3	130.3	9,500	21.7	165.1	8,400	186
190							16.9	154.0	8,000	190
195							7.0	130.5	7,500	195
196							1.6	117.3	7,400	196

# MLC150-1 S-2

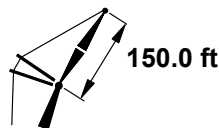
ASME B30.5



110,500 lb  
+  
35,000 lb



118.1 ft



150.0 ft

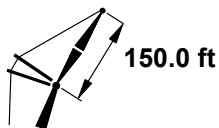
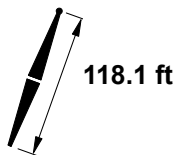
	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
52	74.7	269.8	39,100 b						52	
55	73.5	268.9	38,600 b						55	
60	71.5	267.3	37,600						60	
65	69.5	265.6	36,500						65	
70	67.4	263.6	35,400	70.8	265.8	37,300			70	
75	65.4	261.4	34,300	68.8	264.0	36,900			75	
80	63.2	259.0	33,100	66.7	262.0	36,700			80	
83	61.9	257.4	32,300	65.4	260.6	36,300	68.0	262.2	35,400	83
85	61.1	256.4	31,800	64.6	259.7	36,000	67.2	261.4	35,300	85
90	58.9	253.5	30,600	62.5	257.2	34,700	65.1	259.2	33,800	90
95	56.6	250.3	29,400	60.3	254.5	33,100	62.9	256.7	31,500	95
100	54.3	246.9	28,100	58.1	251.5	31,000	60.8	254.1	29,500	100
105	51.9	243.1	26,900	55.8	248.2	29,000	58.6	251.1	27,600	105
110	49.4	239.0	25,700	53.4	244.7	27,300	56.3	248.0	25,900	110
115	46.9	234.5	24,600	51.0	240.8	25,700	54.0	244.5	24,400	115
120	44.2	229.6	23,500	48.5	236.6	24,300	51.6	240.7	23,000	120
125	41.4	224.2	22,400	45.9	232.0	23,000	49.1	236.5	21,800	125
127	40.2	221.8	22,000	44.8	229.9	22,500	48.1	234.7	21,300	127
130	38.4	218.2	21,400	43.2	226.9	21,800	46.5	232.0	20,600	130
135	35.2	211.6	20,500	40.3	221.3	20,600	43.8	227.0	19,600	135
140	31.7	204.0	19,600	37.3	215.1	19,600	41.0	221.5	18,600	140
145	27.9	195.3	18,700	34.0	208.1	18,600	38.0	215.5	17,600	145
147	26.1	191.1	18,400	32.6	204.9	18,300	36.7	212.8	17,300	147
150	23.5	184.9	18,000	30.4	200.2	17,800	34.8	208.7	16,800	150
155	18.1	171.7	17,300	26.4	190.9	16,900	31.3	201.0	16,000	155
160	10.4	152.0	16,800	21.7	179.7	16,100	27.4	192.1	15,200	160
162	4.4	136.5	16,700	19.4	173.8	15,800	25.5	187.8	14,900	162
165				15.8	165.0	15,400	22.8	181.4	14,500	165
170				5.4	138.2	14,600	17.3	167.7	13,800	170
175							8.8	146.1	13,200	175
176							5.8	138.3	13,000	176
180										180
185										185
186										186
190										190
195										195
196										196
200										200
205										205
206										206

# MLC150-1 S-2

ASME B30.5



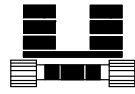
110,500 lb  
+  
35,000 lb



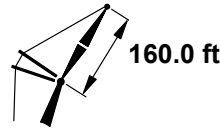
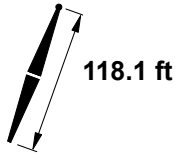
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
52										52
55										55
60										60
65										65
70										70
75										75
80										80
83										83
85										85
90										90
95										95
100										100
105	63.0	254.3	25,200							105
110	60.8	251.7	23,700							110
115	58.6	248.7	22,300							115
120	56.3	245.6	21,000							120
125	54.0	242.1	19,800							125
127	53.0	240.6	19,400	57.6	244.1	17,500				127
130	51.6	238.3	18,700	56.2	242.1	16,900				130
135	49.1	234.1	17,700	53.9	238.6	16,000				135
140	46.5	229.6	16,800	51.5	234.8	15,100				140
145	43.8	224.6	16,000	49.0	230.7	14,400				145
147	42.7	222.4	15,700	48.0	228.8	14,100	52.7	232.6	12,500	147
150	41.0	219.2	15,200	46.4	226.1	13,600	51.2	230.3	12,100	150
155	38.0	213.1	14,400	43.7	221.1	12,900	48.7	226.1	11,500	155
160	34.8	206.3	13,700	40.9	215.6	12,300	46.1	221.5	10,900	160
162	33.4	203.2	13,500	39.7	213.2	12,000	45.1	219.4	10,700	162
165	31.3	198.6	13,100	37.9	209.5	11,700	43.4	216.4	10,300	165
170	27.4	189.7	12,500	34.6	202.7	11,100	40.6	210.9	9,800	170
175	22.9	179.1	11,900	31.1	195.0	10,600	37.5	204.7	9,300	175
176	21.8	176.3	11,800	30.3	193.2	10,500	36.9	203.3	9,200	176
180	17.3	165.4	11,300	27.2	186.0	10,100	34.3	197.8	8,800	180
185	8.9	143.9	10,800	22.7	175.3	9,600	30.7	190.0	8,400	185
186	5.9	136.2	10,600	21.5	172.5	9,500	29.9	188.1	8,300	186
190				17.1	161.4	9,100	26.8	180.8	8,000	190
195				8.4	139.2	8,600	22.1	169.8	7,600	195
196				5.1	130.8	8,500	21.0	167.0	7,500	196
200							16.3	155.5	7,200	200
205							6.8	131.1	6,800	205
206							1.6	117.4	6,600	206

# MLC150-1 S-2

ASME B30.5



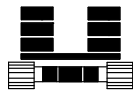
110,500 lb  
+  
35,000 lb



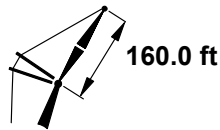
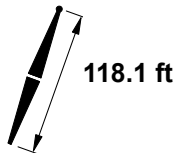
ft	87°			83°			80°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
54	74.9	279.6	34,700 b						54	
55	74.6	279.3	34,400 b						55	
60	72.7	277.8	34,100						60	
65	70.8	276.2	33,300						65	
70	68.9	274.4	32,500						70	
73	67.8	273.1	31,900	70.9	275.4	32,400			73	
75	67.0	272.3	31,500	70.1	274.7	32,300			75	
80	65.0	270.1	30,500	68.2	272.8	32,000			80	
85	63.0	267.7	29,500	66.3	270.7	31,900			85	
87	62.2	266.6	29,100	65.5	269.8	31,700	67.9	271.4	30,700	87
90	61.0	265.0	28,500	64.3	268.4	31,500	66.7	270.1	30,700	90
95	58.9	262.1	27,500	62.3	265.9	30,300	64.8	267.9	30,500	95
100	56.8	259.0	26,500	60.3	263.1	29,100	62.8	265.4	29,100	100
105	54.7	255.6	25,500	58.2	260.2	27,900	60.7	262.7	27,300	105
110	52.4	251.9	24,500	56.1	256.9	26,700	58.7	259.8	25,600	110
115	50.1	247.9	23,400	53.9	253.4	25,400	56.5	256.6	24,100	115
120	47.8	243.5	22,400	51.6	249.6	24,000	54.4	253.2	22,700	120
125	45.3	238.8	21,400	49.3	245.5	22,700	52.1	249.5	21,500	125
130	42.7	233.6	20,400	46.9	241.0	21,500	49.8	245.4	20,300	130
132	41.6	231.3	20,000	45.9	239.0	21,000	48.9	243.6	19,900	132
135	40.0	227.9	19,500	44.4	236.1	20,400	47.4	241.0	19,300	135
140	37.1	221.7	18,600	41.8	230.8	19,300	45.0	236.2	18,300	140
145	34.1	214.7	17,700	39.0	224.9	18,400	42.4	231.0	17,400	145
150	30.7	206.8	16,900	36.1	218.4	17,500	39.6	225.2	16,500	150
153	28.5	201.3	16,500	34.2	214.0	17,000	37.9	221.4	16,000	153
155	27.0	197.7	16,200	32.9	211.1	16,700	36.7	218.9	15,700	155
160	22.7	186.9	15,500	29.4	202.8	15,900	33.6	211.8	15,000	160
165	17.5	173.3	14,700	25.6	193.2	15,100	30.2	203.7	14,300	165
170	10.0	152.9	13,800	21.0	181.6	14,400	26.5	194.5	13,600	170
172	4.2	136.9	13,500	18.7	175.5	14,200	24.7	190.0	13,300	172
175				15.3	166.4	13,800	22.1	183.4	13,000	175
180				5.2	138.7	13,100	16.7	169.2	12,400	180
185							8.5	146.9	11,800	185
186							5.6	138.8	11,600	186
190										190
195										195
196										196
200										200
205										205
206										206
210										210
215										215
216										216

# MLC150-1 S-2

ASME B30.5



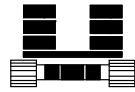
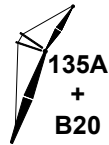
110,500 lb  
+  
35,000 lb



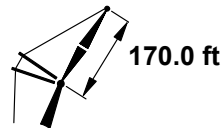
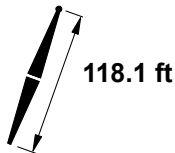
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
54										54
55										55
60										60
65										65
70										70
73										73
75										75
80										80
85										85
87										87
90										90
95										95
100										100
105										105
110	62.8	263.0	23,300							110
115	60.7	260.3	21,900							115
120	58.7	257.4	20,600							120
125	56.6	254.2	19,500							125
130	54.4	250.8	18,400							130
132	53.5	249.3	18,000	57.7	252.7	16,200				132
135	52.1	247.1	17,400	56.5	250.8	15,600				135
140	49.8	243.0	16,500	54.3	247.4	14,800				140
145	47.5	238.6	15,700	52.0	243.6	14,000				145
150	45.0	233.8	14,900	49.7	239.5	13,300				150
153	43.4	230.7	14,400	48.3	236.9	12,900	52.7	240.6	11,300	153
155	42.4	228.6	14,100	47.4	235.1	12,600	51.8	239.1	11,100	155
160	39.7	222.8	13,400	44.9	230.3	11,900	49.5	235.0	10,500	160
165	36.8	216.5	12,800	42.3	225.1	11,400	47.1	230.5	10,000	165
170	33.7	209.4	12,200	39.5	219.3	10,800	44.6	225.6	9,400	170
172	32.3	206.2	11,900	38.4	216.7	10,600	43.5	223.5	9,200	172
175	30.3	201.4	11,600	36.6	212.9	10,300	42.0	220.3	8,900	175
180	26.5	192.1	11,100	33.5	205.8	9,800	39.2	214.5	8,500	180
185	22.2	181.1	10,500	30.1	197.7	9,300	36.3	208.0	8,100	185
186	21.1	178.2	10,400	29.4	195.8	9,200	35.7	206.6	8,000	186
190	16.8	166.9	10,000	26.3	188.4	8,800	33.2	200.8	7,600	190
195	8.6	144.7	9,500	21.9	177.2	8,400	29.7	192.7	7,200	195
196	5.8	136.8	9,400	20.9	174.4	8,300	29.0	190.8	7,200	196
200				16.5	162.9	8,000	25.9	183.2	6,900	200
205				8.1	140.0	7,500	21.4	171.8	6,500	205
206				4.9	131.2	7,400	20.3	168.8	6,400	206
210							15.8	156.9	6,100	210
215							6.6	131.7	5,800	215
216							1.5	117.6	5,600	216

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



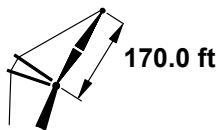
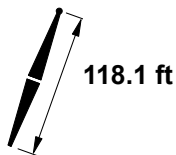
ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
57	74.8	289.1	30,600							57
60	73.8	288.3	30,200							60
65	72.0	286.7	30,100							65
70	70.2	285.0	29,300							70
75	68.4	283.1	28,900							75
77	67.7	282.3	28,600	70.6	284.6	28,400				77
80	66.6	281.1	28,100	69.6	283.5	28,200				80
85	64.7	278.8	27,300	67.8	281.5	27,900				85
90	62.9	276.3	26,500	65.9	279.4	27,600				90
91	62.5	275.8	26,300	65.6	278.9	27,500	67.8	280.6	26,800	91
95	60.9	273.7	25,600	64.1	277.1	27,300	66.3	278.9	26,800	95
100	59.0	270.8	24,500	62.2	274.5	26,600	64.5	276.6	26,400	100
105	57.0	267.7	23,400	60.3	271.8	25,400	62.6	274.1	26,300	105
110	55.0	264.3	22,300	58.3	268.8	24,300	60.7	271.4	25,400	110
114	53.3	261.4	21,400	56.7	266.3	23,400	59.1	269.1	24,200	114
115	52.9	260.7	21,200	56.3	265.6	23,200	58.7	268.5	23,900	115
120	50.8	256.7	20,200	54.2	262.1	22,100	56.7	265.3	22,500	120
125	48.5	252.5	19,300	52.1	258.4	21,100	54.7	261.9	21,200	125
130	46.3	247.9	18,300	50.0	254.4	20,000	52.6	258.2	20,100	130
135	43.9	242.9	17,400	47.7	250.0	19,100	50.5	254.3	19,000	135
137	42.9	240.7	17,000	46.8	248.1	18,700	49.6	252.5	18,600	137
140	41.4	237.4	16,500	45.4	245.3	18,100	48.2	250.0	18,000	140
145	38.8	231.5	15,700	43.0	240.1	17,200	45.9	245.3	17,100	145
150	36.0	225.0	14,900	40.5	234.5	16,400	43.5	240.3	16,300	150
155	33.0	217.7	14,100	37.8	228.4	15,600	41.0	234.8	15,500	155
159	30.4	211.1	13,300	35.5	222.9	14,900	38.9	230.0	14,900	159
160	29.8	209.5	13,100	35.0	221.6	14,700	38.4	228.8	14,700	160
165	26.2	200.1	12,200	31.9	214.0	13,900	35.6	222.1	14,000	165
170	22.1	188.9	11,400	28.5	205.4	12,900	32.6	214.7	13,400	170
175	17.0	174.8	10,600	24.8	195.5	12,000	29.3	206.4	12,800	175
180	9.7	153.8	9,900	20.4	183.4	11,100	25.7	196.8	12,200	180
182	4.1	137.3	9,700	18.2	177.1	10,900	24.0	192.2	11,900	182
185				14.8	167.7	10,400	21.4	185.3	11,400	185
190				5.0	139.1	9,700	16.2	170.6	10,600	190
195							8.3	147.6	9,900	195
196							5.4	139.3	9,800	196
200										200
205										205
206										206
210										210
215										215
216										216
220										220
225										225
226										226

# MLC150-1 S-2

ASME B30.5



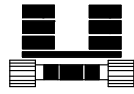
110,500 lb  
+  
35,000 lb



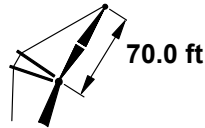
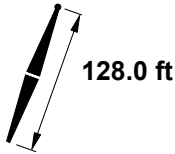
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
57										57
60										60
65										65
70										70
75										75
77										77
80										80
85										85
90										90
91										91
95										95
100										100
105										105
110										110
114	63.0	272.2	21,900							114
115	62.6	271.7	21,700							115
120	60.7	269.0	20,400							120
125	58.8	266.1	19,200							125
130	56.8	262.9	18,100							130
135	54.7	259.5	17,200							135
137	53.9	258.0	16,800	57.9	261.4	15,000				137
140	52.6	255.8	16,300	56.7	259.5	14,500				140
145	50.5	251.9	15,400	54.6	256.1	13,700				145
150	48.3	247.6	14,600	52.5	252.4	13,000				150
155	46.0	242.9	13,900	50.4	248.4	12,300				155
159	44.0	238.9	13,300	48.6	245.0	11,800	52.7	248.6	10,300	159
160	43.6	237.9	13,200	48.2	244.1	11,700	52.3	247.8	10,200	160
165	41.1	232.4	12,600	45.9	239.4	11,100	50.2	243.8	9,700	165
170	38.4	226.4	12,000	43.5	234.4	10,500	47.9	239.5	9,200	170
175	35.6	219.7	11,400	40.9	228.9	10,000	45.6	234.8	8,700	175
180	32.6	212.4	10,800	38.3	222.8	9,500	43.2	229.7	8,200	180
182	31.3	209.0	10,600	37.2	220.1	9,300	42.2	227.4	8,100	182
185	29.3	204.0	10,300	35.5	216.2	9,100	40.7	224.1	7,800	185
190	25.7	194.4	9,800	32.5	208.7	8,600	38.0	218.0	7,400	190
195	21.5	183.0	9,400	29.2	200.4	8,200	35.2	211.3	7,000	195
196	20.4	180.1	9,300	28.5	198.4	8,100	34.6	209.8	6,900	196
200	16.3	168.4	8,900	25.5	190.7	7,800	32.1	203.8	6,600	200
205	8.4	145.4	8,500	21.3	179.1	7,400	28.8	195.3	6,300	205
206	5.6	137.3	8,400	20.2	176.2	7,300	28.1	193.3	6,200	206
210				16.0	164.3	7,000	25.1	185.4	5,900	210
215				7.9	140.7	6,600	20.8	173.6	5,500	215
216				4.8	131.6	6,500	19.7	170.6	5,400	216
220							15.3	158.3	5,100	220
225							6.4	132.2	4,800	225
226							1.5	117.7	4,700	226

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb

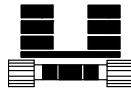


	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
35	73.6	201.9	84,500 d							35
36	72.7	201.6	84,500 d							36
38	71.0	200.9	84,500 d							38
40	69.2	200.2	84,300 d							40
42	67.5	199.4	81,400 c							42
44	65.7	198.5	78,000 c							44
45	64.8	198.0	76,400 c	70.7	200.0	83,800 d				45
46	63.9	197.6	74,800 c	69.8	199.7	82,800 d				46
48	62.0	196.6	72,000 c	68.1	198.9	80,700 c				48
50	60.2	195.5	69,300 c	66.3	198.1	77,700 c				50
55	55.3	192.3	63,600 b	61.7	195.6	68,800 c	67.7	197.6	65,700 c	55
60	50.2	188.5	58,900 b	57.0	192.7	61,600 b	63.2	195.4	58,800 c	60
65	44.6	183.9	55,100	52.0	189.1	55,700 b	58.6	192.6	53,200 b	65
70	38.5	178.3	51,800	46.5	184.8	50,700 b	53.6	189.2	48,400 b	70
72	35.6	175.4	50,500	44.2	182.7	49,000 b	51.5	187.6	46,800 b	72
75	31.3	171.1	48,600	40.6	179.5	46,500	48.3	185.2	44,400 b	75
80	22.2	161.2	44,700	33.8	172.9	42,900	42.6	180.2	40,900	80
85	4.2	139.8	41,200	25.6	164.2	39,700	36.2	174.1	37,900	85
88				18.2	155.7	37,900	31.6	169.4	36,300	88
90				13.2	150.0	36,800	28.5	166.2	35,200	90
91				9.0	144.9	36,200	26.4	163.9	34,700	91
95							18.1	154.6	32,800	95
98							6.7	141.0	31,400	98
100										100
103										103
105										105
109										109
110										110
115										115
119										119
120										120
125										125
130										130

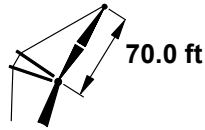
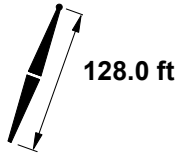


# MLC150-1 S-2

ASME B30.5



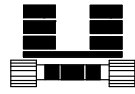
110,500 lb  
+  
35,000 lb



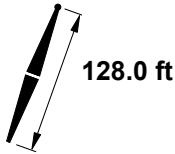
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
35									35	
36									36	
38									38	
40									40	
42									42	
44									44	
45									45	
46									46	
48									48	
50									50	
55									55	
60									60	
65									65	
70									70	
72	62.2	192.2	43,100 c						72	
75	59.4	190.5	40,900 b						75	
80	54.5	187.2	37,700 b						80	
85	49.3	183.3	35,000 b						85	
88	45.9	180.5	33,500 b	57.1	185.5	30,600 b			88	
90	43.7	178.6	32,500	55.1	184.1	29,800 b			90	
91	42.4	177.4	32,100	54.1	183.3	29,400 b			91	
95	37.4	172.7	30,300	50.0	180.3	27,800 b			95	
98	32.9	168.2	29,100	46.6	177.5	26,700 b			98	
100	30.0	165.2	28,300	44.4	175.6	26,000 b			100	
103	24.2	158.8	27,300	40.6	172.2	25,000 b	52.3	177.6	22,700 b	103
105	20.3	154.5	26,500	38.2	169.9	24,300	50.2	176.0	22,100 b	105
109	5.7	137.2	25,100	32.4	164.1	23,200	45.8	172.4	21,100 b	109
110				30.9	162.7	22,900	44.7	171.4	20,800 b	110
115				21.7	152.6	21,500	38.5	165.8	19,600	115
119				9.5	138.2	20,400	32.8	160.1	18,700	119
120							31.3	158.6	18,400	120
125							22.3	148.7	17,400	125
130							4.5	127.7	16,300	130

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



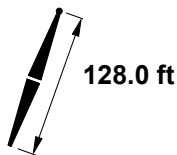
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38	73.4	211.4	77,900 d							38
40	71.9	210.8	77,900 d							40
42	70.4	210.1	77,800 c							42
44	68.9	209.4	77,300 c							44
46	67.3	208.6	74,100 c							46
48	65.8	207.7	71,200 c	70.9	209.6	77,400 c				48
50	64.2	206.8	68,500 c	69.4	208.9	75,600 c				50
55	60.2	204.1	62,800 b	65.5	206.8	68,400 c				55
59	56.8	201.6	59,000 b	62.3	204.8	62,700 c	67.6	206.8	59,700 c	59
60	55.9	201.0	58,000 b	61.5	204.3	61,200 b	66.8	206.4	58,400 c	60
65	51.5	197.3	54,100	57.4	201.3	55,300 b	62.8	204.0	52,800 b	65
70	46.8	193.0	50,700	53.0	197.9	50,400 b	58.7	201.2	48,100 b	70
75	41.6	187.9	47,900	48.4	193.8	46,200	54.4	197.9	44,100 b	75
76	40.5	186.6	47,200	47.4	192.8	45,500	53.5	197.2	43,400 b	76
80	35.9	181.6	44,600	43.4	188.9	42,600	49.9	194.1	40,600	80
85	29.2	173.8	41,300	37.9	183.1	39,500	45.0	189.5	37,600	85
90	20.7	163.1	38,300	31.6	175.9	36,700	39.7	184.0	35,000	90
93	10.6	149.3	36,700	27.0	170.2	35,200	36.1	180.0	33,600	93
95	3.9	140.2	35,600	23.9	166.4	34,200	33.7	177.3	32,600	95
100				12.4	151.1	31,900	26.6	168.7	30,500	100
101				8.4	145.6	31,500	24.7	166.2	30,100	101
105							17.0	156.2	28,600	105
108							6.3	141.6	27,400	108
109										109
110										110
115										115
119										119
120										120
125										125
129										129
130										130
135										135
140										140

# MLC150-1 S-2

ASME B30.5



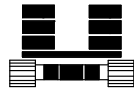
110,500 lb  
+  
35,000 lb



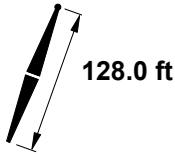
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
59										59
60										60
65										65
70										70
75										75
76	62.7	201.4	39,800 b							76
80	59.5	199.1	37,300 b							80
85	55.2	195.9	34,600 b							85
90	50.7	192.2	32,100							90
93	47.8	189.5	30,800	57.5	194.1	28,100 b				93
95	45.9	187.7	30,000	55.7	192.8	27,300 b				95
100	40.7	182.4	28,000	51.3	189.1	25,600				100
101	39.5	181.1	27,700	50.3	188.2	25,200				101
105	34.9	176.0	26,300	46.5	184.8	24,000				105
108	30.7	171.0	25,300	43.4	181.6	23,100				108
109	29.4	169.4	25,000	42.4	180.6	22,800	52.4	185.6	20,600 b	109
110	28.0	167.8	24,700	41.4	179.6	22,500	51.5	184.9	20,400	110
115	19.0	156.3	23,200	35.6	173.3	21,200	46.8	180.5	19,200	115
119	5.4	137.7	22,000	30.2	166.9	20,200	42.7	176.4	18,300	119
120				28.9	165.4	20,000	41.6	175.4	18,100	120
125				20.3	154.4	18,800	35.9	169.2	17,000	125
129				8.9	139.0	17,900	30.6	162.9	16,300	129
130							29.3	161.4	16,100	130
135							20.8	150.6	15,200	135
140							4.2	128.1	14,300	140

# MLC150-1 S-2

ASME B30.5



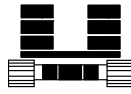
110,500 lb  
+  
35,000 lb



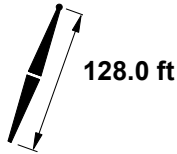
	86°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
40	74.0	221.2	71,400 d						40	
42	72.7	220.6	71,300 c						42	
44	71.3	220.0	71,200 c						44	
46	70.0	219.3	71,000 c						46	
48	68.6	218.5	69,700 c						48	
50	67.2	217.7	68,100 c						50	
52	65.8	216.8	65,800 c	70.4	218.8	71,100 c			52	
55	63.7	215.4	62,300 b	68.4	217.6	68,200 c			55	
60	60.1	212.8	57,500 b	64.9	215.5	61,000 b			60	
63	57.9	210.9	55,100 b	62.8	214.0	57,500 b	67.4	216.0	54,700 c	63
65	56.4	209.7	53,400	61.4	213.0	55,100 b	66.1	215.1	52,500 b	65
70	52.5	206.1	50,000	57.7	210.0	50,200 b	62.5	212.7	47,800 b	70
75	48.4	202.0	47,100	53.8	206.6	46,000	58.9	209.9	43,800 b	75
80	43.9	197.2	44,400	49.8	202.7	42,400	55.1	206.6	40,400	80
81	43.0	196.0	43,800	48.9	201.7	41,800	54.3	205.9	39,800	81
85	39.1	191.5	41,200	45.4	198.1	39,300	51.1	202.9	37,400	85
90	33.8	184.8	38,300	40.8	192.8	36,500	46.9	198.5	34,800	90
95	27.5	176.3	35,700	35.6	186.4	34,100	42.3	193.5	32,500	95
98	22.7	169.4	34,300	32.1	181.7	32,800	39.4	189.9	31,200	98
100	19.5	164.8	33,400	29.7	178.6	31,900	37.4	187.5	30,400	100
105	3.7	140.5	31,200	22.5	168.4	29,900	31.8	180.2	28,500	105
110				11.7	152.1	28,100	25.1	171.0	26,800	110
111				7.9	146.3	27,700	23.2	168.3	26,500	111
115							16.0	157.6	25,200	115
118							5.9	142.1	24,300	118
120										120
125										125
129										129
130										130
135										135
139										139
140										140
145										145
150										150

# MLC150-1 S-2

ASME B30.5



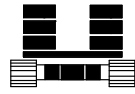
110,500 lb  
+  
35,000 lb



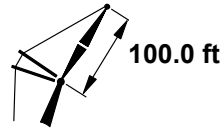
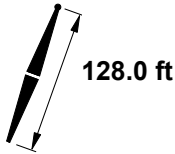
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
40										40
42										42
44										44
46										46
48										48
50										50
52										52
55										55
60										60
63										63
65										65
70										70
75										75
80										80
81	62.4	210.0	36,500 b							81
85	59.5	207.8	34,300 b							85
90	55.8	204.6	31,900							90
95	51.8	201.0	29,700							95
98	49.3	198.4	28,600	57.7	202.8	26,000 b				98
100	47.6	196.7	27,800	56.2	201.5	25,300				100
105	43.2	191.8	26,100	52.3	197.9	23,700				105
110	38.3	186.0	24,500	48.2	193.7	22,300				110
111	37.2	184.6	24,300	47.3	192.8	22,000				111
115	32.8	179.0	23,100	43.7	188.9	21,000	52.5	193.6	18,900	115
118	28.9	173.7	22,300	40.8	185.5	20,300	50.0	191.2	18,300	118
120	26.4	170.2	21,800	38.9	183.2	19,800	48.4	189.5	17,800	120
125	17.9	157.9	20,600	33.5	176.4	18,700	44.0	184.7	16,800	125
129	5.1	138.2	19,600	28.5	169.5	17,900	40.1	180.2	16,100	129
130				27.2	167.8	17,700	39.2	179.1	15,900	130
135				19.1	156.2	16,700	33.8	172.3	15,000	135
139				8.4	139.8	15,900	28.8	165.6	14,400	139
140							27.6	163.9	14,200	140
145							19.6	152.4	13,500	145
150							4.0	128.5	12,700	150

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



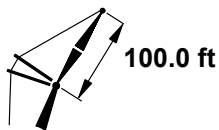
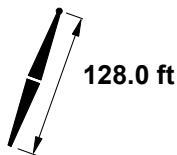
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
43	73.9	230.8	65,700 c							43
44	73.3	230.5	65,600 c							44
46	72.1	229.9	65,100 c							46
48	70.8	229.2	64,100 c							48
50	69.6	228.5	62,900 c							50
55	66.5	226.5	59,900 b	70.6	228.3	65,900 c				55
60	63.4	224.1	56,800 b	67.6	226.4	60,700 b				60
65	60.1	221.4	52,900	64.4	224.2	54,800 b				65
66	59.4	220.8	52,200	63.8	223.7	53,800 b	68.0	225.6	51,200 b	66
70	56.8	218.4	49,400	61.2	221.6	49,900	65.5	223.8	47,500 b	70
75	53.3	214.9	46,500	57.9	218.7	45,700	62.3	221.4	43,500 b	75
80	49.6	210.9	43,900	54.5	215.3	42,100	59.0	218.6	40,100	80
85	45.7	206.3	40,900	50.8	211.5	39,000	55.6	215.4	37,100	85
90	41.6	201.1	38,000	47.0	207.2	36,200	52.0	211.7	34,500	90
95	37.1	195.0	35,500	43.0	202.2	33,800	48.3	207.5	32,100	95
100	32.0	187.7	33,200	38.6	196.4	31,700	44.3	202.7	30,100	100
103	28.4	182.3	32,000	35.7	192.3	30,500	41.8	199.4	29,000	103
105	26.1	178.7	31,200	33.8	189.5	29,700	40.1	197.2	28,200	105
110	18.5	166.5	29,300	28.2	181.2	27,900	35.4	190.8	26,500	110
115	3.5	140.8	27,500	21.3	170.4	26,300	30.1	183.0	25,000	115
120				11.1	153.1	24,800	23.8	173.1	23,600	120
121				7.5	147.0	24,500	22.0	170.3	23,300	121
125							15.2	159.0	22,300	125
128							5.6	142.6	21,500	128
130										130
135										135
139										139
140										140
145										145
149										149
150										150
155										155
160										160

# MLC150-1 S-2

ASME B30.5



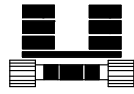
110,500 lb  
+  
35,000 lb



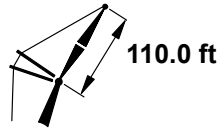
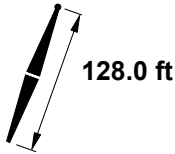
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
43										43
44										44
46										46
48										48
50										50
55										55
60										60
65										65
66										66
70										70
75										75
80										80
85	62.8	219.2	33,900 b							85
90	59.6	216.5	31,500							90
95	56.2	213.3	29,400							95
100	52.7	209.8	27,500							100
103	50.4	207.3	26,400	58.0	211.5	23,900				103
105	49.0	205.7	25,700	56.6	210.2	23,300				105
110	45.1	201.0	24,200	53.1	206.7	21,900				110
115	40.8	195.6	22,800	49.4	202.7	20,600				115
120	36.3	189.4	21,500	45.5	198.1	19,400				120
121	35.2	187.9	21,300	44.7	197.0	19,200	52.6	201.6	17,200	121
125	31.1	181.9	20,300	41.4	192.8	18,300	49.6	198.4	16,400	125
128	27.4	176.2	19,700	38.6	189.1	17,700	47.3	195.7	15,900	128
130	25.0	172.5	19,200	36.8	186.6	17,300	45.8	193.9	15,500	130
135	17.0	159.4	18,200	31.7	179.3	16,400	41.6	188.6	14,700	135
139	4.8	138.6	17,300	27.0	172.0	15,700	38.0	183.7	14,000	139
140				25.8	170.2	15,500	37.1	182.5	13,900	140
145				18.1	157.8	14,700	32.0	175.3	13,100	145
149				7.9	140.5	14,000	27.3	168.1	12,600	149
150							26.1	166.3	12,500	150
155							18.6	154.1	11,800	155
160							3.8	128.8	11,100	160

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
46	73.7	240.3	50,800 c							46
48	72.6	239.7	50,400 c							48
50	71.6	239.1	50,000 b							50
55	68.8	237.3	49,100 b							55
58	67.1	236.0	48,600 b	70.8	237.9	50,200 b				58
60	66.0	235.2	48,200 b	69.7	237.1	49,900 b				60
65	63.1	232.8	47,300	66.9	235.2	49,200 b				65
70	60.1	230.1	46,500	64.0	232.9	48,400	67.8	234.7	47,400 b	70
75	57.1	227.0	44,400	61.1	230.3	45,600	65.0	232.5	43,400 b	75
80	53.9	223.6	42,000	58.1	227.3	42,000	62.1	230.0	40,000	80
85	50.6	219.7	39,600	55.0	224.0	38,900	59.1	227.2	37,000	85
90	47.2	215.4	37,300	51.7	220.3	36,200	56.0	224.0	34,400	90
95	43.5	210.4	35,100	48.3	216.1	33,800	52.8	220.5	32,100	95
100	39.6	204.8	33,100	44.7	211.4	31,600	49.4	216.4	30,000	100
105	35.3	198.2	31,200	40.9	206.0	29,700	45.9	211.9	28,200	105
109	31.4	192.0	29,700	37.6	201.0	28,300	42.9	207.7	26,800	109
110	30.5	190.5	29,300	36.7	199.8	27,900	42.2	206.7	26,500	110
115	24.9	181.0	27,700	32.1	192.5	26,300	38.1	200.8	25,000	115
120	17.7	168.1	26,100	26.8	183.6	24,900	33.7	193.9	23,600	120
125	3.3	141.1	24,600	20.3	172.2	23,500	28.7	185.6	22,300	125
127				16.4	164.9	23,000	26.3	181.4	21,900	127
130				10.5	154.1	22,200	22.6	175.2	21,100	130
131				7.1	147.6	22,000	21.0	172.2	20,900	131
135							14.4	160.3	20,000	135
138							5.3	143.1	19,300	138
140										140
145										145
149										149
150										150
155										155
159										159
160										160
165										165
170										170

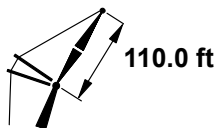
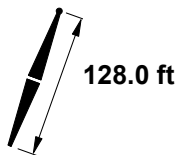


# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



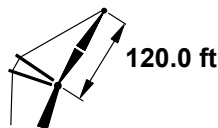
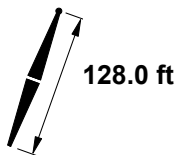
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
46										46
48										48
50										50
55										55
58										58
60										60
65										65
70										70
75										75
80										80
85										85
90	62.6	227.9	31,400							90
95	59.6	225.1	29,300							95
100	56.5	222.0	27,400							100
105	53.4	218.5	25,700							105
109	50.7	215.3	24,500	57.5	219.5	22,100				109
110	50.0	214.6	24,100	56.9	218.9	21,800				110
115	46.6	210.1	22,800	53.8	215.4	20,600				115
120	42.9	205.1	21,500	50.5	211.5	19,400				120
125	38.9	199.3	20,300	47.0	207.1	18,300				125
127	37.1	196.6	19,900	45.5	205.1	17,900	52.6	209.6	16,000	127
130	34.5	192.6	19,200	43.3	202.2	17,300	50.6	207.3	15,500	130
131	33.5	191.0	19,000	42.5	201.0	17,100	49.9	206.4	15,300	131
135	29.6	184.6	18,200	39.4	196.5	16,400	47.2	202.9	14,600	135
138	26.1	178.6	17,700	36.8	192.5	15,900	45.0	199.9	14,200	138
140	23.8	174.6	17,300	35.1	189.9	15,600	43.5	198.0	13,900	140
145	16.2	160.9	16,400	30.2	182.1	14,800	39.6	192.3	13,100	145
149	4.6	139.0	15,700	25.7	174.4	14,200	36.1	187.1	12,600	149
150				24.6	172.4	14,000	35.3	185.8	12,500	150
155				17.3	159.4	13,300	30.5	178.1	11,800	155
159				7.6	141.2	12,700	26.0	170.4	11,300	159
160							24.9	168.5	11,200	160
165							17.7	155.7	10,600	165
170							3.6	129.1	10,000	170

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



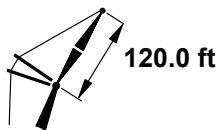
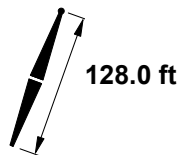
	86°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
49	73.6	249.9	47,400 c							49
50	73.1	249.6	47,200 b							50
55	70.6	247.9	46,400 b							55
60	68.1	246.0	45,700 b							60
61	67.6	245.6	45,500 b	71.0	247.4	46,800 b				61
65	65.5	243.9	44,900	68.9	245.9	46,300 b				65
70	62.8	241.5	44,000	66.4	243.9	45,700				70
74	60.6	239.3	42,300	64.2	242.0	45,200	67.7	243.9	43,800 b	74
75	60.1	238.8	41,900	63.7	241.6	45,100	67.2	243.5	43,000	75
80	57.3	235.7	39,900	61.0	238.9	41,700	64.6	241.2	39,600	80
85	54.4	232.3	37,800	58.3	236.0	38,600	61.9	238.7	36,600	85
90	51.4	228.5	35,800	55.4	232.7	35,900	59.2	235.9	34,000	90
94	48.9	225.2	34,300	53.0	229.8	34,000	56.9	233.4	32,200	94
95	48.3	224.3	33,900	52.4	229.1	33,500	56.3	232.7	31,700	95
100	45.0	219.6	32,100	49.4	225.0	31,300	53.4	229.2	29,700	100
105	41.5	214.3	30,400	46.1	220.5	29,400	50.4	225.3	27,900	105
110	37.8	208.3	28,600	42.7	215.4	27,600	47.2	220.9	26,200	110
114	34.5	202.7	27,400	39.8	210.8	26,400	44.5	217.0	25,000	114
115	33.7	201.3	27,100	39.1	209.6	26,100	43.9	216.0	24,700	115
120	29.1	193.2	25,700	35.1	203.0	24,600	40.3	210.5	23,300	120
125	23.8	183.1	24,400	30.7	195.3	23,300	36.5	204.2	22,000	125
130	16.9	169.6	23,200	25.7	186.0	22,100	32.2	196.8	20,900	130
133	8.7	152.7	22,500	21.9	178.8	21,400	29.3	191.6	20,200	133
135	3.2	141.4	22,000	19.5	173.9	20,900	27.4	188.1	19,800	135
140				10.1	155.0	19,800	21.7	177.2	18,800	140
141				6.8	148.3	19,600	20.1	174.0	18,600	141
145							13.8	161.5	17,800	145
148							5.1	143.5	17,200	148
150										150
155										155
159										159
160										160
165										165
169										169
170										170
175										175
180										180

# MLC150-1 S-2

ASME B30.5



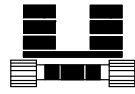
110,500 lb  
+  
35,000 lb



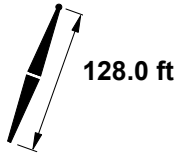
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
49										49
50										50
55										55
60										60
61										61
65										65
70										70
74										74
75										75
80										80
85										85
90										90
94	62.9	237.1	29,300							94
95	62.4	236.6	28,900							95
100	59.6	233.8	27,000							100
105	56.8	230.7	25,300							105
110	53.9	227.2	23,800							110
114	51.5	224.2	22,700	57.8	228.2	20,400				114
115	50.9	223.4	22,400	57.2	227.5	20,100				115
120	47.8	219.1	21,100	54.3	224.1	19,000				120
125	44.5	214.3	20,000	51.3	220.3	17,900				125
130	40.9	208.9	18,900	48.2	216.1	16,900				130
133	38.7	205.2	18,300	46.2	213.3	16,400	52.7	217.6	14,500	133
135	37.2	202.7	17,900	44.9	211.4	16,000	51.5	216.1	14,200	135
140	33.0	195.6	17,000	41.4	206.0	15,200	48.3	211.9	13,500	140
141	32.1	193.9	16,800	40.6	204.8	15,000	47.7	210.9	13,300	141
145	28.3	187.2	16,100	37.6	200.0	14,400	45.1	207.2	12,700	145
148	25.0	180.9	15,600	35.2	195.8	14,000	43.0	204.0	12,400	148
150	22.8	176.7	15,300	33.5	193.0	13,700	41.6	201.9	12,100	150
155	15.5	162.3	14,600	28.9	184.7	13,000	37.8	195.8	11,500	155
159	4.4	139.4	13,900	24.6	176.6	12,500	34.6	190.3	11,000	159
160				23.5	174.6	12,400	33.7	188.9	10,900	160
165				16.5	160.8	11,700	29.2	180.7	10,300	165
169				7.3	141.8	11,200	24.9	172.7	9,900	169
170							23.8	170.7	9,800	170
175							17.0	157.2	9,300	175
180							3.4	129.4	8,700	180

# MLC150-1 S-2

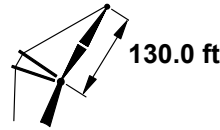
ASME B30.5



110,500 lb  
+  
35,000 lb



128.0 ft



130.0 ft

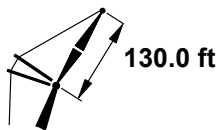
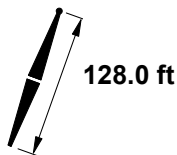
	86°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
52	73.6	259.4	44,100 b							52
55	72.2	258.5	43,700 b							55
60	69.8	256.8	43,000 b							60
65	67.5	254.8	42,400	70.6	256.6	43,400 b				65
70	65.1	252.6	40,900	68.3	254.7	43,000				70
75	62.6	250.1	39,400	65.9	252.6	42,400				75
78	61.1	248.5	38,300	64.4	251.2	41,800	67.6	253.1	40,700	78
80	60.1	247.4	37,600	63.4	250.2	41,500	66.7	252.2	39,400	80
85	57.5	244.4	35,900	60.9	247.6	38,400	64.2	249.9	36,400	85
90	54.9	241.0	34,200	58.4	244.7	35,700	61.8	247.4	33,800	90
95	52.1	237.3	32,500	55.8	241.4	33,200	59.2	244.5	31,500	95
99	49.8	234.1	31,300	53.6	238.6	31,500	57.1	242.0	29,900	99
100	49.3	233.2	30,900	53.1	237.9	31,100	56.6	241.4	29,500	100
105	46.3	228.7	29,300	50.2	233.9	29,200	53.9	237.9	27,600	105
110	43.2	223.7	27,800	47.3	229.5	27,400	51.2	234.1	26,000	110
115	39.8	218.0	26,400	44.2	224.7	25,900	48.3	229.9	24,500	115
119	37.0	212.9	25,400	41.6	220.3	24,700	45.9	226.1	23,400	119
120	36.3	211.6	25,100	41.0	219.2	24,400	45.3	225.2	23,100	120
125	32.4	204.3	23,900	37.5	213.1	23,100	42.1	219.9	21,800	125
130	28.0	195.7	22,700	33.7	206.1	21,900	38.7	214.1	20,700	130
135	22.8	185.2	21,600	29.5	198.0	20,800	35.0	207.4	19,600	135
139	17.6	173.9	20,900	25.6	190.2	19,900	31.7	201.2	18,800	139
140	16.2	171.1	20,800	24.7	188.2	19,700	30.9	199.7	18,600	140
145	3.1	141.7	19,700	18.7	175.6	18,800	26.3	190.5	17,700	145
150				9.7	155.8	17,800	20.8	179.0	16,800	150
151				6.6	148.8	17,600	19.3	175.8	16,700	151
155							13.3	162.7	16,000	155
158							4.9	144.0	15,500	158
160										160
165										165
169										169
170										170
175										175
179										179
180										180
185										185
190										190

# MLC150-1 S-2

ASME B30.5



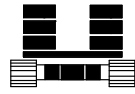
110,500 lb  
+  
35,000 lb



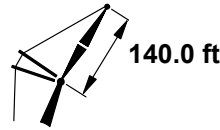
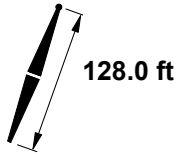
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
52										52
55										55
60										60
65										65
70										70
75										75
78										78
80										80
85										85
90										90
95										95
99	62.7	245.8	27,100							99
100	62.2	245.2	26,700							100
105	59.7	242.5	25,100							105
110	57.1	239.4	23,500							110
115	54.4	236.0	22,100							115
119	52.2	233.0	21,100	57.9	236.8	18,900				119
120	51.7	232.2	20,900	57.4	236.2	18,700				120
125	48.8	228.0	19,700	54.7	232.9	17,700				125
130	45.8	223.4	18,700	52.0	229.1	16,700				130
135	42.6	218.3	17,700	49.1	225.0	15,800				135
139	39.9	213.7	17,000	46.8	221.4	15,100	52.7	225.6	13,300	139
140	39.3	212.5	16,800	46.2	220.5	15,000	52.1	224.9	13,200	140
145	35.6	206.0	15,900	43.0	215.4	14,200	49.3	220.8	12,500	145
150	31.7	198.5	15,100	39.7	209.7	13,500	46.3	216.3	11,800	150
151	30.8	196.7	15,000	39.0	208.4	13,300	45.7	215.2	11,700	151
155	27.2	189.6	14,400	36.1	203.3	12,800	43.2	211.2	11,200	155
158	24.0	183.0	14,000	33.7	198.9	12,400	41.2	207.8	10,900	158
160	21.9	178.7	13,700	32.2	195.9	12,200	39.9	205.6	10,600	160
165	14.9	163.6	13,000	27.8	187.2	11,600	36.3	199.2	10,100	165
169	4.2	139.8	12,500	23.6	178.7	11,100	33.2	193.3	9,700	169
170				22.6	176.6	11,000	32.4	191.9	9,600	170
175				15.9	162.3	10,400	28.0	183.3	9,100	175
179				7.0	142.5	10,000	23.9	174.9	8,700	179
180							22.9	172.8	8,600	180
185							16.3	158.7	8,200	185
190							3.3	129.7	7,700	190

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



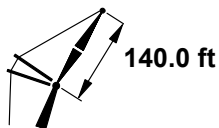
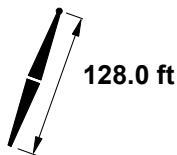
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
54	73.9	269.2	41,100 b							54
55	73.5	268.9	41,000 b							55
60	71.3	267.4	40,300 b							60
65	69.2	265.6	39,100							65
68	67.8	264.3	38,400	70.8	266.1	40,300				68
70	67.0	263.5	37,900	69.9	265.4	40,100				70
75	64.7	261.3	36,600	67.7	263.5	39,600				75
80	62.4	258.8	35,200	65.5	261.3	39,100				80
81	62.0	258.3	34,900	65.0	260.8	38,900	68.0	262.6	38,400	81
85	60.1	256.1	33,800	63.2	258.9	38,100	66.2	260.9	36,000	85
90	57.7	253.1	32,400	60.9	256.3	35,300	63.9	258.6	33,500	90
95	55.2	249.7	30,900	58.5	253.3	32,900	61.6	256.0	31,200	95
100	52.7	246.1	29,600	56.1	250.1	30,800	59.3	253.2	29,100	100
103	51.1	243.7	28,800	54.6	248.0	29,600	57.8	251.3	28,000	103
105	50.1	242.1	28,200	53.6	246.6	28,900	56.9	250.1	27,300	105
110	47.4	237.7	26,900	51.0	242.7	27,100	54.4	246.7	25,600	110
115	44.5	232.9	25,600	48.3	238.5	25,600	51.8	242.9	24,100	115
120	41.5	227.5	24,400	45.5	233.8	24,100	49.2	238.8	22,800	120
125	38.3	221.6	23,200	42.5	228.6	22,800	46.4	234.3	21,500	125
130	34.9	214.8	22,100	39.4	222.9	21,600	43.5	229.3	20,400	130
135	31.2	207.1	21,100	36.1	216.4	20,500	40.5	223.7	19,300	135
140	26.9	198.1	20,100	32.5	209.1	19,500	37.2	217.5	18,300	140
145	22.0	187.1	19,300	28.4	200.6	18,500	33.7	210.5	17,400	145
150	15.6	172.5	18,500	23.8	190.3	17,600	29.8	202.4	16,600	150
155	2.9	141.9	17,700	18.0	177.2	16,800	25.3	192.8	15,800	155
160				9.3	156.7	15,900	20.0	180.8	15,000	160
161				6.3	149.4	15,800	18.6	177.4	14,900	161
165							12.8	163.9	14,300	165
168							4.7	144.4	13,800	168
170										170
175										175
179										179
180										180
185										185
189										189
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195										195
200										200

# MLC150-1 S-2

ASME B30.5



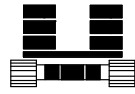
110,500 lb  
+  
35,000 lb



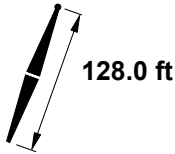
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
54										54
55										55
60										60
65										65
68										68
70										70
75										75
80										80
81										81
85										85
90										90
95										95
100										100
103	63.0	254.9	25,300							103
105	62.0	253.9	24,700							105
110	59.7	251.1	23,200							110
115	57.3	248.0	21,800							115
120	54.8	244.7	20,500							120
125	52.3	241.0	19,400	57.6	244.9	17,300				125
130	49.7	236.9	18,300	55.1	241.6	16,300				130
135	46.9	232.5	17,300	52.6	237.9	15,400				135
140	44.0	227.6	16,400	50.0	233.9	14,600				140
145	41.0	222.1	15,600	47.2	229.5	13,800	52.7	233.6	12,100	145
150	37.8	216.0	14,800	44.4	224.6	13,100	50.1	229.7	11,400	150
155	34.3	209.1	14,100	41.4	219.3	12,400	47.4	225.3	10,800	155
160	30.5	201.3	13,400	38.2	213.2	11,800	44.5	220.4	10,300	160
161	29.6	199.4	13,300	37.5	211.9	11,700	43.9	219.4	10,200	161
165	26.2	192.0	12,800	34.7	206.5	11,200	41.5	215.1	9,700	165
168	23.1	185.1	12,400	32.5	201.8	10,900	39.6	211.5	9,400	168
170	21.1	180.6	12,100	31.0	198.7	10,700	38.4	209.1	9,200	170
175	14.3	164.9	11,500	26.7	189.7	10,100	34.9	202.4	8,700	175
179	4.1	140.2	11,000	22.7	180.8	9,700	31.9	196.2	8,400	179
180				21.7	178.6	9,600	31.2	194.7	8,300	180
185				15.3	163.6	9,100	27.0	185.7	7,900	185
189				6.7	143.1	8,700	23.0	176.9	7,500	189
190							22.0	174.7	7,400	190
195							15.7	160.1	7,000	195
200							3.2	130.0	6,600	200

# MLC150-1 S-2

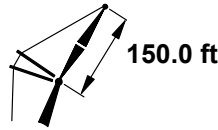
ASME B30.5



110,500 lb  
+  
35,000 lb



128.0 ft



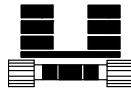
150.0 ft

ft	86°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
57	73.8	278.8	37,200 b							57
60	72.6	277.9	36,700							60
65	70.6	276.2	35,900							65
70	68.6	274.4	34,900							70
71	68.2	273.9	34,700	70.9	275.7	35,700				71
75	66.5	272.3	33,900	69.3	274.2	35,500				75
80	64.4	270.0	32,800	67.2	272.2	35,300				80
85	62.3	267.5	31,600	65.1	270.0	35,100	67.9	271.8	34,000	85
90	60.1	264.7	30,500	63.0	267.6	34,600	65.8	269.7	33,300	90
95	57.9	261.7	29,300	60.8	264.9	32,800	63.7	267.3	31,000	95
100	55.6	258.4	28,200	58.6	262.0	30,700	61.5	264.7	29,000	100
105	53.2	254.9	27,000	56.3	258.8	28,800	59.3	261.9	27,200	105
108	51.8	252.5	26,300	54.9	256.7	27,700	58.0	260.0	26,200	108
110	50.8	251.0	25,800	54.0	255.3	27,000	57.1	258.8	25,500	110
115	48.3	246.7	24,700	51.6	251.5	25,500	54.8	255.4	24,000	115
120	45.7	242.0	23,600	49.1	247.4	24,000	52.4	251.7	22,700	120
125	42.9	236.9	22,600	46.6	242.9	22,700	50.0	247.7	21,400	125
130	40.1	231.3	21,500	43.9	237.9	21,500	47.4	243.3	20,300	130
135	37.0	225.0	20,600	41.0	232.4	20,400	44.8	238.5	19,200	135
140	33.7	217.9	19,700	38.0	226.4	19,400	42.0	233.2	18,200	140
145	30.1	209.9	18,800	34.8	219.6	18,400	39.0	227.3	17,300	145
150	26.0	200.5	18,000	31.3	211.9	17,600	35.9	220.8	16,500	150
151	25.0	198.2	17,900	30.5	210.2	17,400	35.2	219.3	16,300	151
155	21.2	189.1	17,300	27.4	203.0	16,700	32.5	213.4	15,700	155
160	15.1	173.8	16,700	22.9	192.4	15,900	28.7	205.0	15,000	160
165	2.8	142.2	16,100	17.4	178.8	15,200	24.5	195.0	14,300	165
170				9.0	157.5	14,500	19.4	182.6	13,600	170
171				6.1	150.0	14,300	18.0	179.0	13,500	171
175							12.4	165.0	12,900	175
178							4.6	144.8	12,500	178
180										180
185										185
189										189
190										190
195										195
199										199
200										200
205										205
210										210

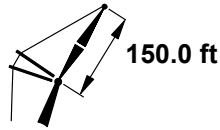
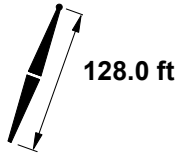


# MLC150-1 S-2

ASME B30.5



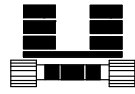
110,500 lb  
+  
35,000 lb



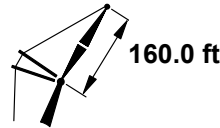
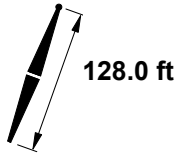
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
57										57
60										60
65										65
70										70
71										71
75										75
80										80
85										85
90										90
95										95
100										100
105										105
108	62.8	263.6	23,600							108
110	61.9	262.6	23,000							110
115	59.7	259.8	21,700							115
120	57.5	256.7	20,400							120
125	55.2	253.4	19,300							125
130	52.8	249.8	18,200	57.8	253.6	16,200				130
135	50.4	245.8	17,200	55.5	250.3	15,300				135
140	47.9	241.5	16,300	53.1	246.7	14,500				140
145	45.2	236.7	15,500	50.7	242.7	13,700				145
150	42.5	231.5	14,700	48.2	238.5	13,000				150
151	41.9	230.4	14,600	47.6	237.5	12,900	52.8	241.6	11,200	151
155	39.6	225.8	14,000	45.6	233.8	12,300	50.8	238.5	10,700	155
160	36.5	219.4	13,300	42.8	228.6	11,700	48.3	234.2	10,200	160
165	33.1	212.2	12,700	39.9	223.0	11,100	45.7	229.6	9,600	165
170	29.4	203.9	12,100	36.8	216.6	10,600	43.0	224.4	9,100	170
171	28.6	202.0	12,000	36.2	215.2	10,500	42.4	223.3	9,000	171
175	25.3	194.3	11,500	33.5	209.5	10,100	40.1	218.8	8,700	175
178	22.3	187.1	11,200	31.3	204.7	9,800	38.2	215.0	8,400	178
180	20.3	182.4	11,000	29.9	201.5	9,600	37.0	212.5	8,200	180
185	13.8	166.1	10,400	25.8	192.0	9,100	33.7	205.5	7,800	185
189	3.9	140.5	10,000	22.0	182.7	8,800	30.8	199.0	7,500	189
190				21.0	180.4	8,700	30.1	197.4	7,400	190
195				14.8	164.9	8,200	26.0	188.1	7,000	195
199				6.5	143.6	7,900	22.2	178.9	6,700	199
200							21.3	176.6	6,600	200
205							15.2	161.4	6,300	205
210							3.1	130.3	5,800	210

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



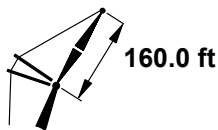
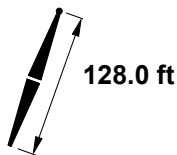
ft	86°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
60	73.7	288.3	32,700							60
65	71.9	286.8	32,400							65
70	70.0	285.0	31,900							70
74	68.4	283.5	31,300	71.0	285.2	31,300				74
75	68.1	283.1	31,100	70.6	284.9	31,200				75
80	66.1	281.0	30,200	68.7	283.0	31,000				80
85	64.1	278.7	29,300	66.8	281.0	30,700				85
89	62.5	276.7	28,600	65.2	279.2	30,500	67.8	281.0	29,600	89
90	62.1	276.2	28,400	64.8	278.7	30,500	67.4	280.6	29,600	90
95	60.1	273.4	27,400	62.8	276.3	30,300	65.4	278.4	29,600	95
100	58.0	270.4	26,500	60.8	273.6	29,100	63.5	276.0	28,700	100
105	55.9	267.1	25,500	58.7	270.7	28,000	61.4	273.4	26,800	105
110	53.7	263.6	24,500	56.6	267.5	26,700	59.4	270.5	25,200	110
112	52.8	262.1	24,100	55.7	266.1	26,100	58.5	269.3	24,600	112
115	51.4	259.8	23,600	54.4	264.1	25,200	57.3	267.4	23,700	115
120	49.1	255.6	22,600	52.2	260.3	23,700	55.1	264.1	22,400	120
125	46.7	251.1	21,700	49.9	256.3	22,400	52.9	260.5	21,100	125
130	44.1	246.2	20,800	47.5	251.9	21,200	50.6	256.5	20,000	130
135	41.5	240.8	20,000	45.0	247.1	20,100	48.3	252.2	18,900	135
140	38.7	234.8	19,100	42.4	241.9	19,100	45.8	247.6	17,900	140
145	35.8	228.3	18,300	39.7	236.1	18,200	43.3	242.5	17,000	145
150	32.6	220.9	17,500	36.8	229.8	17,300	40.6	236.9	16,200	150
155	29.1	212.5	16,700	33.7	222.7	16,500	37.7	230.8	15,400	155
157	27.5	208.6	16,400	32.3	219.5	16,200	36.5	228.1	15,100	157
160	25.2	202.8	16,000	30.3	214.7	15,700	34.7	224.0	14,700	160
165	20.6	190.9	15,300	26.5	205.4	15,000	31.4	216.3	14,000	165
170	14.6	175.1	14,300	22.2	194.4	14,300	27.8	207.5	13,300	170
175	2.8	142.4	13,500	16.8	180.3	13,600	23.7	197.1	12,700	175
180				8.7	158.3	13,000	18.7	184.2	12,100	180
181				5.9	150.5	12,800	17.4	180.6	12,000	181
185							12.0	166.0	11,500	185
188							4.4	145.2	11,200	188
190										190
195										195
199										199
200										200
205										205
209										209
210										210
215										215
220										220

# MLC150-1 S-2

ASME B30.5



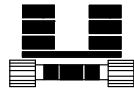
110,500 lb  
+  
35,000 lb



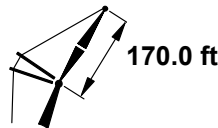
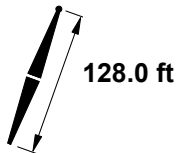
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60										60
65										65
70										70
74										74
75										75
80										80
85										85
89										89
90										90
95										95
100										100
105										105
110										110
112	63.0	272.8	22,100							112
115	61.8	271.2	21,300							115
120	59.7	268.4	20,100							120
125	57.6	265.4	18,900							125
130	55.5	262.1	17,900							130
135	53.3	258.5	16,900	57.9	262.2	14,900				135
140	51.0	254.6	16,000	55.8	259.0	14,100				140
145	48.7	250.4	15,200	53.6	255.4	13,400				145
150	46.3	245.8	14,400	51.3	251.6	12,600				150
155	43.7	240.8	13,700	49.0	247.4	12,000				155
157	42.7	238.6	13,400	48.0	245.6	11,700	52.8	249.6	10,100	157
160	41.1	235.3	13,000	46.6	242.8	11,400	51.4	247.3	9,800	160
165	38.3	229.3	12,400	44.0	237.9	10,800	49.1	243.1	9,300	165
170	35.3	222.6	11,800	41.4	232.5	10,300	46.7	238.6	8,800	170
175	32.0	215.1	11,200	38.6	226.5	9,700	44.2	233.7	8,300	175
180	28.5	206.5	10,700	35.6	219.9	9,300	41.5	228.3	7,900	180
181	27.7	204.5	10,600	35.0	218.4	9,200	41.0	227.1	7,800	181
185	24.5	196.5	10,200	32.4	212.5	8,800	38.8	222.4	7,400	185
188	21.6	189.1	9,900	30.3	207.4	8,500	37.0	218.4	7,200	188
190	19.7	184.1	9,700	28.9	204.1	8,400	35.8	215.8	7,000	190
195	13.4	167.3	9,200	25.0	194.2	7,900	32.6	208.5	6,600	195
199	3.8	140.8	8,800	21.3	184.7	7,600	29.8	201.8	6,300	199
200				20.3	182.3	7,500	29.1	200.1	6,200	200
205				14.3	166.2	7,100	25.2	190.3	5,800	205
209				6.3	144.2	6,800	21.5	180.9	5,500	209
210							20.6	178.5	5,500	210
215							14.7	162.8	5,100	215
220							3.0	130.5	4,700	220

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



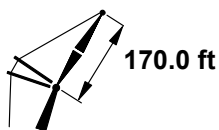
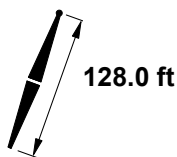
	86°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
64	73.7	297.9	28,000						64	
65	73.3	297.6	28,000						65	
70	71.6	296.0	27,700						70	
75	69.8	294.2	27,300						75	
79	68.3	292.7	27,000	70.7	294.4	26,700			79	
80	68.0	292.3	26,900	70.4	294.1	26,600			80	
85	66.1	290.2	26,000	68.6	292.2	26,400			85	
90	64.3	287.9	24,900	66.7	290.1	26,100			90	
94	62.8	285.9	24,000	65.3	288.3	25,500	67.7	290.1	25,200	94
95	62.4	285.4	23,800	64.9	287.9	25,300	67.3	289.7	25,200	95
100	60.5	282.6	22,800	63.0	285.5	24,300	65.5	287.5	25,000	100
105	58.5	279.7	21,800	61.1	282.8	23,200	63.6	285.2	24,500	105
110	56.5	276.5	20,800	59.2	279.9	22,200	61.7	282.6	23,600	110
115	54.5	273.1	19,900	57.2	276.8	21,300	59.8	279.8	22,600	115
118	53.2	270.8	19,300	56.0	274.8	20,700	58.6	278.0	22,000	118
120	52.4	269.3	18,900	55.2	273.5	20,300	57.8	276.8	21,600	120
125	50.2	265.3	18,100	53.1	269.9	19,300	55.8	273.5	20,600	125
130	48.0	261.0	17,200	50.9	266.0	18,500	53.8	270.0	19,700	130
135	45.7	256.3	16,300	48.7	261.7	17,600	51.6	266.1	18,700	135
140	43.3	251.2	15,600	46.4	257.2	16,800	49.5	262.0	17,800	140
142	42.2	249.0	15,300	45.5	255.2	16,400	48.5	260.2	17,400	142
145	40.7	245.7	14,800	44.1	252.2	16,000	47.2	257.6	16,900	145
150	38.1	239.6	14,000	41.6	246.8	15,200	44.9	252.7	16,000	150
155	35.3	232.9	13,300	39.0	240.9	14,400	42.4	247.5	15,200	155
160	32.2	225.4	12,400	36.2	234.4	13,600	39.8	241.8	14,500	160
164	29.6	218.6	11,700	33.9	228.7	12,900	37.7	236.7	14,000	164
165	28.9	216.9	11,600	33.3	227.2	12,700	37.1	235.5	13,800	165
170	25.2	207.1	10,800	30.1	219.1	11,900	34.3	228.5	13,000	170
175	20.9	195.4	10,000	26.5	209.8	11,100	31.1	220.7	12,200	175
180	15.5	180.2	9,400	22.4	198.8	10,300	27.7	211.9	11,400	180
185	6.8	154.8	8,800	17.5	185.0	9,600	23.8	201.5	10,600	185
186	2.7	142.7	8,700	16.1	181.0	9,500	22.9	199.0	10,500	186
190				10.5	165.0	9,000	19.2	188.8	9,900	190
192				5.8	151.0	8,800	16.8	181.9	9,600	192
195							13.2	171.6	9,300	195
199							4.3	145.6	8,800	199
200										200
205										205
210										210
215										215
220										220
225										225
230										230
231										231

# MLC150-1 S-2

ASME B30.5



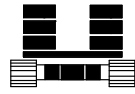
110,500 lb  
+  
35,000 lb



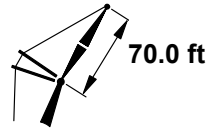
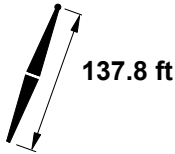
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb		
64									64	
65									65	
70									70	
75									75	
79									79	
80									80	
85									85	
90									90	
94									94	
95									95	
100									100	
105									105	
110									110	
115									115	
118	62.8	281.5	20,300						118	
120	62.1	280.4	19,900						120	
125	60.1	277.7	18,700						125	
130	58.2	274.7	17,700						130	
135	56.2	271.5	16,700						135	
140	54.1	268.0	15,800						140	
142	53.3	266.5	15,500	57.6	270.3	13,600			142	
145	52.0	264.2	15,000	56.4	268.3	13,100			145	
150	49.8	260.2	14,200	54.4	264.9	12,400			150	
155	47.6	255.8	13,500	52.3	261.1	11,800			155	
160	45.3	251.0	12,800	50.1	257.1	11,200			160	
164	43.3	246.9	12,300	48.3	253.6	10,700	52.8	257.6	9,100	164
165	42.8	245.8	12,200	47.9	252.8	10,600	52.4	256.9	9,000	165
170	40.3	240.2	11,600	45.6	248.1	10,000	50.2	252.9	8,500	170
175	37.6	234.0	11,000	43.1	242.9	9,500	48.0	248.5	8,100	175
180	34.8	227.2	10,500	40.6	237.4	9,100	45.7	243.9	7,600	180
185	31.7	219.6	10,000	38.0	231.3	8,600	43.3	238.8	7,100	185
186	31.0	217.8	9,900	37.4	229.9	8,500	42.8	237.6	7,100	186
190	28.3	210.9	9,500	35.1	224.5	8,200	40.8	233.2	6,700	190
192	26.8	206.9	9,300	33.9	221.5	8,000	39.7	230.8	6,500	192
195	24.5	200.8	9,100	32.1	217.0	7,800	38.1	227.1	6,300	195
199	21.0	191.1	8,700	29.4	210.2	7,400	35.8	221.8	6,000	199
200	20.1	188.7	8,600	28.8	208.5	7,400	35.3	220.4	5,900	200
205	14.4	172.6	8,200	25.0	198.6	7,000	32.2	212.9	5,500	205
210	3.7	141.2	7,800	20.7	186.7	6,600	28.9	204.5	5,200	210
215				15.2	171.3	6,300	25.2	194.7	4,800	215
220				6.1	144.7	5,900	20.9	183.0	4,500	220
225							15.5	167.8	4,200	225
230							6.9	142.5	3,800	230
231							2.9	130.8	3,700	231

# MLC150-1 S-2

ASME B30.5



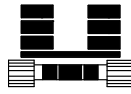
110,500 lb  
+  
35,000 lb



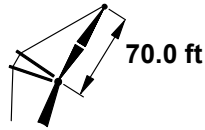
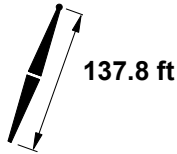
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
36	73.3	211.6	80,500 d							36
38	71.6	211.0	80,500 d							38
40	69.8	210.3	80,300 d							40
42	68.1	209.5	78,800 c							42
44	66.3	208.6	75,500 c							44
46	64.5	207.7	72,600 c	70.9	209.9	78,600 d				46
48	62.7	206.7	69,800 c	69.1	209.1	76,600 d				48
50	60.8	205.7	67,300 c	67.4	208.3	74,700 c				50
55	56.0	202.6	61,900 b	62.9	206.0	68,200 c				55
57	54.0	201.1	60,100 b	61.0	204.9	65,400 c	67.5	207.2	62,000 c	57
60	50.9	198.9	57,400 b	58.1	203.2	61,100 b	64.8	205.9	58,100 c	60
65	45.4	194.4	53,700 b	53.2	199.8	55,200 b	60.2	203.3	52,500 c	65
70	39.4	188.9	50,600	47.9	195.7	50,300 b	55.3	200.1	47,800 b	70
74	33.8	183.4	48,500	43.2	191.7	47,000 b	51.2	197.1	44,600 b	74
75	32.4	182.0	47,900	42.1	190.7	46,100	50.2	196.3	43,800 b	75
80	23.6	172.6	44,600	35.6	184.4	42,500	44.6	191.7	40,400 b	80
85	9.1	155.6	41,200	27.8	176.3	39,400	38.5	186.1	37,400	85
90				17.0	164.2	36,500	31.3	178.9	34,800	90
91				12.1	158.3	36,000	29.5	176.9	34,300	91
93				2.2	146.5	34,900	25.8	173.0	33,400	93
95							22.2	169.0	32,400	95
100							4.2	147.6	30,100	100
105										105
107										107
110										110
111										111
115										115
120										120
123										123
125										125
130										130
134										134

# MLC150-1 S-2

ASME B30.5



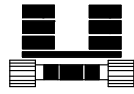
110,500 lb  
+  
35,000 lb



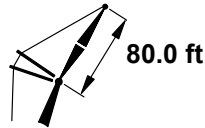
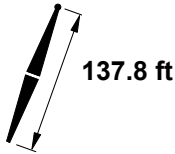
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
57										57
60										60
65										65
70										70
74	62.7	202.0	40,700 c							74
75	61.8	201.4	40,000 c							75
80	57.0	198.5	36,900 b							80
85	52.0	194.9	34,100 b							85
90	46.6	190.6	31,700 b							90
91	45.4	189.6	31,300 b	57.4	194.9	28,300 b				91
93	43.0	187.5	30,500 b	55.5	193.6	27,500 b				93
95	40.7	185.4	29,600	53.5	192.2	26,800 b				95
100	33.9	178.8	27,700	48.2	188.1	25,000 b				100
105	25.7	170.1	25,900	42.4	183.2	23,500				105
107	20.7	164.4	25,300	39.8	180.7	22,900	52.5	186.7	20,500 b	107
110	13.4	155.9	24,300	35.9	177.0	22,100	49.3	184.2	19,700 b	110
111	9.2	150.9	24,000	34.4	175.4	21,800	48.2	183.3	19,500 b	111
115				28.2	169.1	20,700	43.7	179.5	18,600	115
120				17.7	157.3	19,500	37.4	173.7	17,500	120
123				5.5	142.7	18,700	33.0	169.2	16,900	123
125							30.0	166.2	16,500	125
130							20.4	155.5	15,600	130
134							5.9	138.4	14,800	134

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb

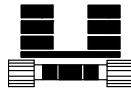


	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	lb	ft	ft
38	73.9	221.4	74,400 d							38
40	72.5	220.8	74,300 d							40
42	70.9	220.2	74,000 c							42
44	69.4	219.4	72,400 c							44
46	67.9	218.7	70,900 c							46
48	66.3	217.8	68,900 c							48
50	64.8	216.9	66,500 c	70.3	219.1	71,700 c				50
55	60.7	214.3	61,000 b	66.5	217.1	67,600 c				55
60	56.5	211.3	56,400 b	62.5	214.7	60,800 b				60
61	55.6	210.6	55,700 b	61.7	214.1	59,600 b	67.3	216.4	56,500 c	61
65	52.1	207.7	52,600	58.4	211.9	54,900 b	64.2	214.6	52,100 c	65
70	47.4	203.5	49,400	54.1	208.5	50,000 b	60.2	211.9	47,400 b	70
75	42.3	198.4	46,700	49.5	204.6	45,800	55.9	208.8	43,500 b	75
79	37.8	193.6	44,800	45.6	200.9	43,000	52.4	205.9	40,800 b	79
80	36.7	192.4	44,300	44.6	199.9	42,300	51.5	205.1	40,100	80
85	30.2	184.8	41,100	39.3	194.4	39,100	46.8	200.8	37,100	85
90	22.1	174.6	38,200	33.2	187.5	36,400	41.6	195.7	34,500	90
95	8.5	156.3	35,600	25.9	178.7	33,900	35.9	189.4	32,200	95
96				23.9	176.1	33,500	34.6	187.9	31,800	96
100				15.9	165.6	31,700	29.2	181.6	30,100	100
103				2.1	146.7	30,300	24.1	175.2	29,000	103
105							20.7	170.9	28,200	105
110							3.9	148.0	26,400	110
113										113
115										115
120										120
121										121
125										125
130										130
133										133
135										135
140										140
144										144

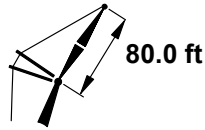
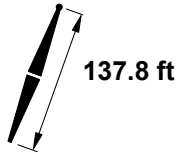


# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



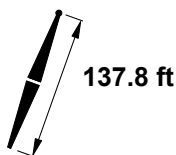
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
60										60
61										61
65										65
70										70
75										75
79	62.4	210.6	37,000 b							79
80	61.6	210.1	36,500 b							80
85	57.4	207.1	33,700 b							85
90	53.0	203.7	31,400 b							90
95	48.4	199.6	29,200							95
96	47.4	198.6	28,900	57.8	203.6	26,000 b				96
100	43.4	194.7	27,400	54.3	200.9	24,600 b				100
103	40.1	191.2	26,300	51.6	198.6	23,700 b				103
105	37.9	188.9	25,700	49.8	197.0	23,100				105
110	31.7	181.7	24,100	44.9	192.4	21,700				110
113	27.0	176.0	23,200	41.7	189.1	20,900	52.6	194.7	18,600 b	113
115	24.0	172.3	22,700	39.6	186.9	20,400	50.7	193.1	18,200	115
120	12.5	157.1	21,300	33.6	180.2	19,200	46.0	188.7	17,100	120
121	8.6	151.7	21,000	32.1	178.4	19,000	44.9	187.6	16,900	121
125				26.4	171.5	18,100	40.7	183.4	16,100	125
130				16.6	158.8	17,100	34.9	176.9	15,200	130
133				5.2	143.1	16,400	30.8	172.0	14,700	133
135							28.0	168.7	14,400	135
140							19.0	157.3	13,600	140
144							5.6	138.9	12,900	144

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



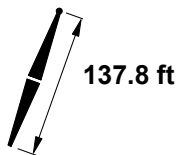
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
41	73.8	231.0	68,300 d							41
42	73.1	230.7	68,000 c							42
44	71.8	230.0	66,900 c							44
46	70.4	229.4	65,700 c							46
48	69.1	228.6	64,400 c							48
50	67.7	227.8	63,100 c							50
53	65.6	226.5	61,000 c	70.6	228.6	66,500 c				53
55	64.2	225.6	59,600 b	69.2	227.9	65,100 c				55
60	60.6	223.0	55,800 b	65.8	225.8	60,500 b				60
64	57.7	220.6	52,700 b	62.9	223.8	55,800 b	67.9	226.0	52,900 c	64
65	56.9	220.0	51,900 b	62.2	223.4	54,700 b	67.2	225.5	51,800 c	65
70	53.0	216.4	48,700	58.6	220.5	49,800 b	63.7	223.3	47,200 b	70
75	48.9	212.4	45,900	54.8	217.2	45,600	60.1	220.6	43,200 b	75
80	44.6	207.7	43,100	50.8	213.4	42,100	56.4	217.5	39,900	80
83	41.7	204.4	41,400	48.2	210.8	40,200	54.0	215.4	38,100	83
85	39.8	202.2	40,300	46.5	209.0	39,000	52.5	213.9	36,900	85
90	34.6	195.6	37,700	41.9	203.9	36,200	48.4	209.8	34,300	90
95	28.5	187.4	35,400	36.9	197.8	33,800	43.9	205.0	32,000	95
100	20.8	176.5	33,300	31.2	190.4	31,600	39.1	199.3	30,000	100
102	15.7	168.7	32,500	28.5	186.6	30,900	37.0	196.6	29,200	102
105	8.0	157.0	31,200	24.4	180.9	29,700	33.8	192.6	28,100	105
110				15.0	167.0	27,900	27.5	184.1	26,400	110
113				2.0	146.8	26,800	22.7	177.2	25,500	113
115							19.5	172.7	24,900	115
119							6.8	153.2	23,700	119
120							3.7	148.3	23,300	120
125										125
130										130
131										131
135										135
140										140
143										143
145										145
150										150
154										154

# MLC150-1 S-2

ASME B30.5



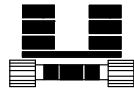
110,500 lb  
+  
35,000 lb



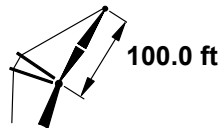
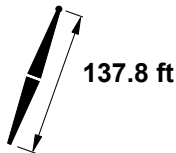
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
41										41
42										42
44										44
46										46
48										48
50										50
53										53
55										55
60										60
64										64
65										65
70										70
75										75
80										80
83	62.8	219.8	34,500 b							83
85	61.4	218.8	33,500 b							85
90	57.7	215.8	31,100 b							90
95	53.8	212.4	29,000							95
100	49.8	208.5	27,100							100
102	48.1	206.7	26,500	57.3	211.6	23,700 b				102
105	45.5	203.9	25,500	55.0	209.6	22,800				105
110	40.8	198.6	23,900	51.0	205.9	21,400				110
113	37.7	194.8	23,100	48.4	203.2	20,700				113
115	35.7	192.3	22,500	46.7	201.5	20,200				115
119	31.0	186.0	21,500	43.1	197.4	19,300	52.6	202.7	17,100	119
120	29.8	184.5	21,300	42.2	196.4	19,000	51.8	201.9	16,900	120
125	22.6	174.3	20,100	37.2	190.4	18,000	47.7	197.7	15,900	125
130	11.8	158.1	18,900	31.6	183.1	17,000	43.2	192.7	15,000	130
131	8.1	152.4	18,700	30.2	181.2	16,800	42.2	191.6	14,900	131
135				24.8	173.7	16,100	38.3	186.9	14,200	135
140				15.6	160.2	15,200	32.8	180.0	13,400	140
143				4.9	143.6	14,600	29.0	174.7	13,000	143
145							26.4	171.2	12,700	145
150							17.9	158.9	12,000	150
154							5.2	139.4	11,400	154

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



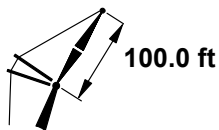
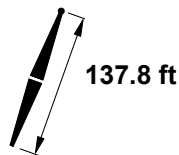
	86°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
44	73.7	240.5	61,200 c							44
46	72.5	239.9	60,300 c							46
48	71.3	239.2	59,400 c							48
50	70.0	238.5	58,300 c							50
55	67.0	236.6	55,700 b							55
56	66.3	236.1	55,100 b	70.8	238.2	61,700 c				56
60	63.8	234.3	52,800 b	68.3	236.7	59,200 b				60
65	60.6	231.6	49,900	65.2	234.5	54,300 b				65
68	58.6	229.8	48,200	63.3	233.0	51,400 b	67.8	235.1	48,600 b	68
70	57.2	228.6	47,000	62.0	232.0	49,500 b	66.5	234.3	46,800 b	70
75	53.8	225.2	44,200	58.7	229.2	45,300	63.4	231.9	42,900 b	75
80	50.1	221.3	41,500	55.3	225.9	41,800	60.1	229.3	39,500	80
85	46.3	216.8	38,900	51.7	222.2	38,700	56.8	226.2	36,500	85
88	43.8	213.7	37,500	49.5	219.7	37,000	54.7	224.1	35,000	88
90	42.2	211.7	36,600	48.0	218.0	35,900	53.3	222.7	34,000	90
95	37.7	205.7	34,300	44.0	213.2	33,500	49.6	218.7	31,700	95
100	32.7	198.6	32,300	39.7	207.6	31,400	45.7	214.1	29,600	100
105	27.0	189.9	30,400	35.0	201.0	29,400	41.6	208.9	27,800	105
107	24.1	185.2	29,800	32.8	197.9	28,700	39.8	206.5	27,100	107
110	19.7	178.3	28,800	29.6	193.1	27,700	37.1	202.8	26,100	110
115	7.6	157.7	27,500	23.2	183.1	26,100	32.0	195.5	24,600	115
120				14.2	168.3	24,600	26.1	186.5	23,200	120
123				1.9	147.0	23,700	21.6	179.2	22,500	123
125							18.5	174.3	21,900	125
130							3.5	148.6	20,700	130
135										135
140										140
141										141
145										145
150										150
153										153
155										155
160										160
164										164

# MLC150-1 S-2

ASME B30.5



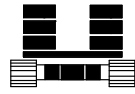
110,500 lb  
+  
35,000 lb



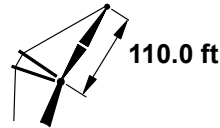
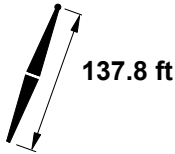
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
44										44
46										46
48										48
50										50
55										55
56										56
60										60
65										65
68										68
70										70
75										75
80										80
85										85
88	62.6	228.5	31,600 b							88
90	61.3	227.4	30,700							90
95	57.9	224.5	28,600							95
100	54.5	221.1	26,700							100
105	50.9	217.3	25,100							105
107	49.4	215.6	24,500	57.5	220.3	21,800				107
110	47.1	213.0	23,600	55.5	218.3	21,000				110
115	43.0	208.0	22,200	51.9	214.7	19,800				115
120	38.7	202.2	20,900	48.2	210.5	18,600				120
123	35.7	198.1	20,200	45.8	207.6	18,000				123
125	33.8	195.4	19,800	44.2	205.7	17,600	52.7	210.7	15,500	125
130	28.2	187.1	18,700	39.9	200.1	16,600	49.0	206.6	14,600	130
135	21.4	176.3	17,700	35.2	193.6	15,700	45.1	202.0	13,800	135
140	11.2	159.1	16,700	29.9	185.8	14,900	40.9	196.6	13,100	140
141	7.7	153.1	16,500	28.6	183.8	14,700	40.0	195.3	12,900	141
145				23.5	175.9	14,100	36.3	190.3	12,400	145
150				14.8	161.5	13,400	31.1	182.8	11,700	150
153				4.6	144.0	12,900	27.4	177.2	11,300	153
155							25.0	173.4	11,100	155
160							17.0	160.4	10,500	160
164							5.0	139.8	9,900	164

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



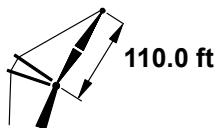
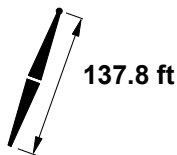
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
47	73.6	250.0	49,300 c							47
48	73.0	249.7	49,100 c							48
50	71.9	249.1	48,800 c							50
55	69.2	247.4	47,900 b							55
59	66.9	245.7	47,200 b	70.9	247.7	48,800 b				59
60	66.4	245.3	47,000 b	70.4	247.3	48,600 b				60
65	63.5	243.0	46,100	67.6	245.4	48,000 b				65
70	60.5	240.3	43,800	64.7	243.2	47,300				70
72	59.3	239.1	42,900	63.6	242.2	46,500	67.7	244.3	45,100 b	72
75	57.5	237.3	41,500	61.8	240.7	45,200	66.0	243.0	42,800 b	75
80	54.3	233.9	39,300	58.8	237.8	41,700	63.1	240.6	39,400	80
85	51.1	230.1	37,100	55.7	234.6	38,600	60.1	237.9	36,500	85
90	47.6	225.8	35,100	52.5	231.0	35,900	57.1	234.9	33,900	90
92	46.2	223.9	34,300	51.2	229.4	34,900	55.8	233.5	33,000	92
95	44.0	221.0	33,000	49.2	226.9	33,500	53.9	231.4	31,600	95
100	40.1	215.4	31,200	45.6	222.3	31,300	50.6	227.6	29,600	100
105	35.9	209.0	29,500	41.8	217.1	29,400	47.1	223.2	27,800	105
110	31.2	201.5	27,900	37.8	211.1	27,700	43.5	218.2	26,100	110
112	29.0	197.8	27,300	36.0	208.3	27,100	41.9	216.0	25,500	112
115	25.7	192.2	26,500	33.3	204.1	26,100	39.6	212.6	24,600	115
120	18.8	180.0	25,200	28.2	195.7	24,700	35.3	206.1	23,200	120
125	7.2	158.4	24,400	22.1	185.1	23,300	30.5	198.3	22,000	125
130				13.5	169.5	22,100	24.9	188.8	20,800	130
131				9.6	162.0	21,800	23.4	186.2	20,600	131
133				1.8	147.2	21,300	20.5	181.1	20,200	133
135							17.7	175.9	19,700	135
140							3.3	148.9	18,600	140
145										145
150										150
151										151
155										155
160										160
163										163
165										165
170										170
174										174

# MLC150-1 S-2

ASME B30.5



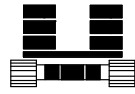
110,500 lb  
+  
35,000 lb



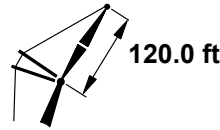
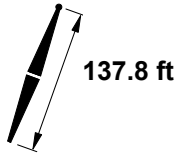
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
47										47
48										48
50										50
55										55
59										59
60										60
65										65
70										70
72										72
75										75
80										80
85										85
90										90
92	62.9	237.7	29,800							92
95	61.1	236.1	28,500							95
100	58.1	233.2	26,700							100
105	55.0	229.9	25,000							105
110	51.8	226.1	23,500							110
112	50.4	224.5	23,000	57.8	229.0	20,500				112
115	48.4	221.9	22,100	55.9	227.0	19,700				115
120	44.8	217.2	20,900	52.7	223.4	18,600				120
125	40.9	211.8	19,800	49.3	219.4	17,600				125
130	36.8	205.6	18,700	45.8	214.8	16,600				130
131	35.9	204.2	18,500	45.1	213.8	16,400	52.7	218.7	14,400	131
133	34.0	201.2	18,100	43.6	211.7	16,100	51.4	217.1	14,100	133
135	32.2	198.3	17,700	42.1	209.6	15,700	50.1	215.5	13,800	135
140	26.9	189.5	16,800	38.0	203.7	14,900	46.6	211.0	13,000	140
145	20.4	178.1	16,000	33.6	196.7	14,100	42.9	206.0	12,300	145
150	10.7	160.1	15,100	28.5	188.4	13,400	38.9	200.2	11,700	150
151	7.3	153.8	14,900	27.3	186.3	13,300	38.0	198.9	11,600	151
155				22.4	177.9	12,700	34.5	193.5	11,100	155
160				14.1	162.8	12,100	29.6	185.5	10,500	160
163				4.4	144.4	11,600	26.1	179.6	10,200	163
165							23.8	175.6	10,000	165
170							16.2	161.9	9,400	170
174							4.7	140.2	9,000	174

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



ft	86°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
49	74.0	259.9	46,100 c							49
50	73.5	259.6	46,000 c							50
55	71.0	258.0	45,200 b							55
60	68.4	256.1	44,500 b							60
63	66.9	254.9	43,600 b	70.6	256.9	45,400 b				63
65	65.8	254.0	43,000	69.5	256.2	45,200 b				65
70	63.2	251.6	41,200	67.0	254.2	44,600				70
75	60.5	249.0	39,300	64.4	251.9	44,100				75
76	59.9	248.4	38,900	63.8	251.4	43,500	67.6	253.5	41,700	76
80	57.7	246.0	37,300	61.7	249.4	41,400	65.5	251.7	39,000	80
85	54.8	242.6	35,400	58.9	246.5	38,300	62.8	249.3	36,100	85
90	51.9	238.9	33,600	56.1	243.3	35,600	60.1	246.6	33,500	90
95	48.8	234.8	31,900	53.2	239.8	33,200	57.3	243.5	31,300	95
97	47.4	232.9	31,200	51.9	238.2	32,300	56.2	242.2	30,500	97
100	45.5	230.1	30,200	50.1	235.8	31,000	54.4	240.2	29,200	100
105	42.0	224.9	28,600	46.9	231.4	29,100	51.4	236.4	27,400	105
110	38.3	219.0	27,000	43.6	226.4	27,400	48.3	232.2	25,800	110
115	34.3	212.2	25,700	40.0	220.8	25,800	45.0	227.4	24,300	115
117	32.5	209.0	25,100	38.4	218.3	25,300	43.6	225.3	23,800	117
120	29.8	204.2	24,400	36.1	214.5	24,400	41.5	222.1	22,900	120
125	24.6	194.5	23,100	31.8	207.0	23,100	37.8	216.1	21,700	125
130	18.0	181.6	22,200	27.0	198.2	21,900	33.7	209.2	20,600	130
135	6.9	159.0	21,500	21.1	187.0	20,700	29.1	201.0	19,500	135
137				17.8	180.4	20,300	27.0	197.0	19,100	137
140				13.0	170.6	19,700	23.8	190.9	18,500	140
143				1.7	147.3	19,000	19.7	182.8	17,900	143
145							16.9	177.4	17,600	145
150							3.2	149.2	16,600	150
155										155
160										160
161										161
165										165
170										170
173										173
175										175
180										180
184										184

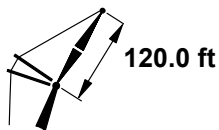
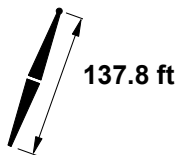


# MLC150-1 S-2

ASME B30.5



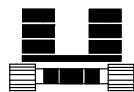
110,500 lb  
+  
35,000 lb



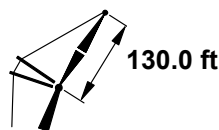
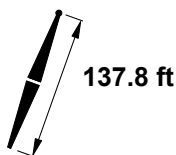
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
49										49
50										50
55										55
60										60
63										63
65										65
70										70
75										75
76										76
80										80
85										85
90										90
95										95
97	62.7	246.4	27,400							97
100	61.0	244.7	26,300							100
105	58.3	241.8	24,600							105
110	55.4	238.6	23,100							110
115	52.5	234.9	21,800							115
117	51.2	233.3	21,300	58.0	237.7	18,800				117
120	49.4	230.9	20,500	56.3	235.7	18,200				120
125	46.2	226.3	19,400	53.3	232.2	17,200				125
130	42.8	221.2	18,400	50.3	228.3	16,200				130
135	39.1	215.5	17,400	47.1	223.9	15,300				135
137	37.5	212.8	17,000	45.8	221.9	15,000	52.8	226.7	13,000	137
140	35.2	208.9	16,500	43.8	218.9	14,500	50.9	224.3	12,600	140
143	32.5	204.2	16,000	41.6	215.6	14,100	49.0	221.7	12,200	143
145	30.8	201.2	15,700	40.2	213.4	13,800	47.8	220.0	11,900	145
150	25.7	191.9	14,900	36.3	207.0	13,100	44.5	215.2	11,300	150
155	19.5	179.9	14,100	32.1	199.7	12,400	41.0	209.8	10,700	155
160	10.2	161.0	13,400	27.3	190.9	11,800	37.2	203.7	10,100	160
161	7.0	154.4	13,200	26.1	188.7	11,700	36.3	202.2	10,000	161
165				21.5	179.9	11,200	33.0	196.5	9,600	165
170				13.5	164.0	10,600	28.3	188.1	9,100	170
173				4.2	144.8	10,200	25.0	181.8	8,800	173
175							22.8	177.7	8,600	175
180							15.5	163.3	8,200	180
184							4.5	140.6	7,800	184

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



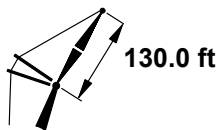
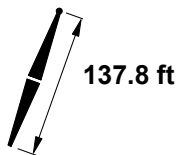
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
52	73.9	269.4	43,000 b							52
55	72.5	268.5	42,600 b							55
60	70.2	266.8	41,300 b							60
65	67.8	264.9	39,900							65
66	67.3	264.5	39,600	70.7	266.4	42,300 b				66
70	65.4	262.7	38,500	68.8	265.0	41,900				70
75	63.0	260.3	36,900	66.5	262.9	41,400				75
79	60.9	258.2	35,600	64.5	261.1	40,900	67.9	263.0	39,400	79
80	60.4	257.6	35,300	64.0	260.6	40,800	67.5	262.6	38,800	80
85	57.9	254.6	33,700	61.5	258.0	38,000	65.1	260.4	35,900	85
90	55.2	251.3	32,200	59.0	255.2	35,300	62.6	258.0	33,300	90
95	52.5	247.7	30,600	56.4	252.0	32,900	60.1	255.2	31,000	95
100	49.7	243.7	29,100	53.7	248.5	30,800	57.5	252.2	29,000	100
101	49.1	242.8	28,800	53.2	247.7	30,400	57.0	251.5	28,600	101
105	46.7	239.2	27,600	50.9	244.7	28,900	54.9	248.9	27,200	105
110	43.6	234.2	26,200	48.0	240.4	27,200	52.1	245.2	25,600	110
115	40.3	228.6	24,900	45.0	235.6	25,600	49.3	241.1	24,100	115
120	36.8	222.4	23,700	41.8	230.3	24,200	46.3	236.5	22,700	120
123	34.5	218.1	23,000	39.7	226.8	23,400	44.4	233.5	22,000	123
125	32.9	215.2	22,600	38.4	224.4	22,900	43.2	231.5	21,500	125
130	28.6	206.8	21,500	34.7	217.6	21,700	39.8	225.8	20,300	130
135	23.6	196.6	20,500	30.6	209.8	20,600	36.3	219.5	19,300	135
140	17.3	183.2	19,700	25.9	200.5	19,500	32.4	212.1	18,300	140
143	10.9	169.0	19,300	22.5	193.5	19,000	29.7	207.0	17,800	143
145	6.6	159.6	19,100	20.3	188.8	18,600	28.0	203.5	17,400	145
150				12.4	171.7	17,600	22.8	193.0	16,600	150
153				1.7	147.5	17,100	18.9	184.5	16,100	153
155							16.2	178.9	15,700	155
160							3.1	149.5	14,900	160
165										165
170										170
171										171
175										175
180										180
183										183
185										185
190										190
194										194

# MLC150-1 S-2

ASME B30.5



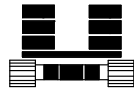
110,500 lb  
+  
35,000 lb



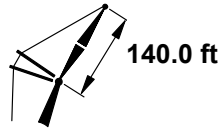
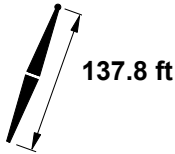
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
52										52
55										55
60										60
65										65
66										66
70										70
75										75
79										79
80										80
85										85
90										90
95										95
100										100
101	63.0	255.5	25,700							101
105	61.0	253.4	24,400							105
110	58.4	250.5	22,900							110
115	55.8	247.3	21,500							115
120	53.1	243.7	20,300							120
123	51.4	241.3	19,600	57.6	245.7	17,300				123
125	50.3	239.7	19,200	56.5	244.4	16,900				125
130	47.3	235.3	18,100	53.9	240.9	16,000				130
135	44.3	230.5	17,200	51.1	237.1	15,100				135
140	41.0	225.1	16,300	48.2	232.8	14,300				140
143	38.9	221.4	15,800	46.4	230.0	13,800	52.8	234.7	11,900	143
145	37.5	218.9	15,500	45.2	228.1	13,500	51.7	233.1	11,700	145
150	33.7	212.0	14,700	42.0	222.9	12,800	48.8	229.0	11,000	150
153	31.2	207.1	14,300	39.9	219.3	12,400	47.0	226.2	10,700	153
155	29.5	203.8	14,000	38.6	217.0	12,200	45.8	224.4	10,500	155
160	24.7	194.1	13,300	34.9	210.2	11,600	42.6	219.2	9,900	160
165	18.8	181.5	12,600	30.8	202.5	11,000	39.3	213.5	9,400	165
170	9.8	161.9	12,000	26.2	193.3	10,400	35.7	206.9	8,900	170
171	6.7	155.0	11,800	25.1	191.0	10,300	34.9	205.4	8,800	171
175				20.6	181.7	9,900	31.7	199.4	8,400	175
180				13.0	165.2	9,400	27.2	190.6	8,000	180
183				4.1	145.1	9,100	24.0	184.0	7,700	183
185							21.9	179.6	7,600	185
190							14.9	164.6	7,100	190
194							4.4	141.0	6,800	194

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



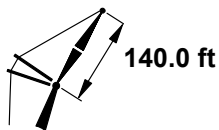
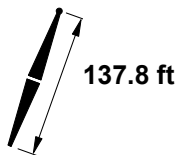
ft	86°			83°			80°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
55	73.8	279.0	38,800 b							55
60	71.6	277.4	37,900 b							60
65	69.5	275.6	36,800							65
69	67.7	274.0	35,900	70.8	276.0	38,500				69
70	67.3	273.7	35,600	70.4	275.6	38,500				70
75	65.0	271.4	34,400	68.2	273.7	38,300				75
80	62.7	269.0	33,100	66.0	271.6	37,600				80
83	61.3	267.4	32,300	64.6	270.2	37,000	67.8	272.2	36,600	83
85	60.4	266.3	31,800	63.7	269.3	36,600	67.0	271.4	35,500	85
90	58.0	263.3	30,400	61.4	266.7	35,000	64.7	269.1	32,900	90
95	55.6	260.0	29,100	59.1	263.8	32,600	62.4	266.6	30,700	95
100	53.1	256.4	27,800	56.7	260.7	30,500	60.1	263.9	28,700	100
105	50.5	252.5	26,600	54.2	257.2	28,600	57.7	260.9	26,900	105
106	49.9	251.6	26,300	53.7	256.5	28,300	57.2	260.2	26,500	106
110	47.8	248.2	25,300	51.6	253.5	26,900	55.2	257.6	25,200	110
115	44.9	243.4	24,100	49.0	249.3	25,300	52.7	253.9	23,700	115
120	42.0	238.1	23,000	46.2	244.7	23,900	50.1	249.9	22,400	120
125	38.8	232.2	21,900	43.3	239.7	22,600	47.4	245.6	21,200	125
128	36.8	228.3	21,300	41.4	236.3	21,900	45.7	242.6	20,500	128
130	35.4	225.6	20,900	40.2	234.1	21,400	44.5	240.7	20,000	130
135	31.7	218.1	20,000	36.9	227.8	20,300	41.5	235.4	19,000	135
140	27.6	209.3	19,000	33.4	220.7	19,300	38.3	229.4	18,000	140
145	22.7	198.6	18,300	29.4	212.5	18,300	34.9	222.7	17,100	145
149	17.9	187.5	17,700	25.8	204.7	17,600	31.9	216.5	16,400	149
150	16.7	184.7	17,600	24.9	202.8	17,400	31.2	215.0	16,300	150
155	6.4	160.1	17,100	19.5	190.5	16,600	26.9	206.0	15,500	155
160				12.0	172.8	15,800	22.0	195.0	14,700	160
163				1.6	147.6	15,300	18.2	186.2	14,300	163
165							15.6	180.3	14,000	165
170							2.9	149.7	13,300	170
175										175
180										180
181										181
185										185
190										190
193										193
195										195
200										200
204										204

# MLC150-1 S-2

ASME B30.5



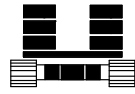
110,500 lb  
+  
35,000 lb



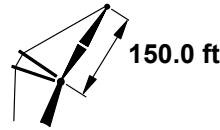
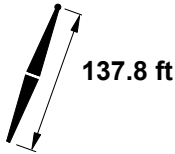
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
69										69
70										70
75										75
80										80
83										83
85										85
90										90
95										95
100										100
105										105
106	62.8	264.2	23,700							106
110	60.9	262.1	22,500							110
115	58.5	259.2	21,100							115
120	56.1	255.9	19,900							120
125	53.6	252.4	18,800							125
128	52.0	250.1	18,200	57.8	254.4	15,900				128
130	51.0	248.6	17,800	56.8	253.1	15,600				130
135	48.3	244.3	16,800	54.3	249.7	14,700				135
140	45.5	239.6	15,900	51.8	245.9	13,900				140
145	42.6	234.5	15,100	49.1	241.8	13,200				145
149	40.1	229.9	14,500	46.9	238.1	12,600	52.8	242.7	10,700	149
150	39.5	228.7	14,400	46.3	237.2	12,500	52.3	241.9	10,600	150
155	36.1	222.3	13,600	43.4	232.2	11,800	49.7	237.9	10,100	155
160	32.5	214.9	13,000	40.4	226.6	11,200	46.9	233.4	9,500	160
163	30.1	209.8	12,600	38.4	222.9	10,900	45.2	230.5	9,200	163
165	28.4	206.4	12,300	37.1	220.4	10,700	44.1	228.5	9,000	165
170	23.8	196.2	11,700	33.6	213.3	10,100	41.0	223.0	8,500	170
175	18.1	183.2	11,200	29.6	205.2	9,600	37.8	217.0	8,100	175
180	9.5	162.7	10,600	25.2	195.6	9,100	34.3	210.1	7,600	180
181	6.5	155.6	10,500	24.1	193.1	9,000	33.6	208.5	7,500	181
185				19.9	183.5	8,700	30.5	202.2	7,200	185
190				12.5	166.3	8,200	26.2	192.9	6,800	190
193				3.9	145.5	7,900	23.1	186.1	6,500	193
195							21.1	181.5	6,300	195
200							14.4	165.9	5,900	200
204							4.2	141.4	5,600	204

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



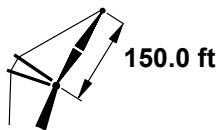
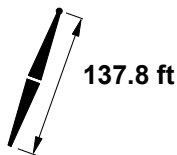
ft	86°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
58	73.7	288.5	35,000 b							58
60	72.9	287.9	34,700 b							60
65	70.9	286.3	33,900							65
70	68.9	284.4	33,000							70
72	68.0	283.6	32,600	71.0	285.5	34,100				72
75	66.8	282.4	32,000	69.7	284.5	33,900				75
80	64.7	280.1	30,900	67.7	282.5	33,900				80
85	62.6	277.7	29,900	65.6	280.3	33,600				85
87	61.7	276.6	29,400	64.8	279.4	33,300	67.7	281.4	32,500	87
90	60.4	274.9	28,800	63.5	278.0	32,900	66.5	280.1	32,400	90
95	58.2	272.0	27,700	61.3	275.4	32,000	64.4	277.8	30,600	95
100	55.9	268.7	26,600	59.1	272.5	30,400	62.3	275.3	28,500	100
105	53.5	265.2	25,500	56.9	269.4	28,500	60.1	272.6	26,700	105
110	51.1	261.3	24,300	54.6	266.0	26,800	57.9	269.6	25,100	110
115	48.6	257.1	23,300	52.2	262.3	25,200	55.6	266.3	23,600	115
120	46.0	252.5	22,300	49.7	258.2	23,800	53.2	262.7	22,300	120
125	43.3	247.5	21,300	47.2	253.8	22,500	50.8	258.8	21,100	125
130	40.5	241.9	20,300	44.5	248.9	21,300	48.3	254.5	19,900	130
133	38.6	238.2	19,800	42.8	245.7	20,700	46.7	251.7	19,300	133
135	37.4	235.7	19,400	41.7	243.6	20,200	45.7	249.9	18,900	135
140	34.2	228.8	18,600	38.8	237.7	19,200	42.9	244.7	17,900	140
145	30.6	220.9	17,800	35.6	231.1	18,300	40.1	239.1	17,000	145
150	26.6	211.7	17,100	32.2	223.6	17,400	37.0	232.8	16,200	150
155	22.0	200.6	16,400	28.4	215.1	16,600	33.7	225.7	15,400	155
160	16.1	186.1	15,800	24.1	204.9	15,800	30.1	217.7	14,700	160
165	6.2	160.7	15,400	18.9	192.2	15,000	26.0	208.3	14,000	165
170				11.6	173.8	14,300	21.2	196.9	13,300	170
173				1.5	147.7	13,900	17.6	187.7	13,000	173
175							15.1	181.6	12,700	175
180							2.8	150.0	12,100	180
185										185
190										190
191										191
195										195
200										200
203										203
205										205
210										210
214										214

# MLC150-1 S-2

ASME B30.5



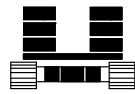
110,500 lb  
+  
35,000 lb



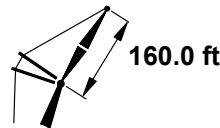
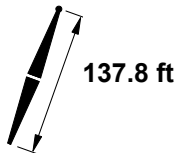
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
58										58
60										60
65										65
70										70
72										72
75										75
80										80
85										85
87										87
90										90
95										95
100										100
105										105
110	63.0	273.4	22,400							110
115	60.8	270.7	21,000							115
120	58.6	267.8	19,800							120
125	56.4	264.6	18,700							125
130	54.0	261.2	17,700							130
133	52.6	258.9	17,100	57.9	263.0	14,900				133
135	51.6	257.4	16,700	57.0	261.8	14,600				135
140	49.2	253.2	15,800	54.7	258.4	13,800				140
145	46.6	248.7	15,000	52.3	254.7	13,100				145
150	43.9	243.7	14,300	49.9	250.6	12,400				150
155	41.1	238.3	13,600	47.3	246.2	11,700	52.8	250.7	9,900	155
160	38.1	232.2	12,900	44.7	241.4	11,100	50.4	246.7	9,400	160
165	34.9	225.5	12,300	41.9	236.1	10,600	47.9	242.4	8,900	165
170	31.4	217.8	11,700	38.9	230.2	10,000	45.2	237.7	8,400	170
173	29.0	212.5	11,300	37.1	226.3	9,700	43.6	234.5	8,200	173
175	27.5	208.9	11,100	35.8	223.7	9,500	42.5	232.5	8,000	175
180	23.0	198.3	10,600	32.4	216.3	9,100	39.6	226.7	7,500	180
185	17.4	184.7	10,100	28.6	207.8	8,600	36.5	220.3	7,100	185
190	9.1	163.5	9,600	24.3	197.8	8,200	33.1	213.1	6,600	190
191	6.3	156.1	9,500	23.3	195.2	8,100	32.4	211.5	6,600	191
195				19.2	185.2	7,800	29.4	204.9	6,200	195
200				12.1	167.4	7,300	25.3	195.2	5,900	200
203				3.8	145.8	7,100	22.3	188.1	5,600	203
205							20.4	183.4	5,500	205
210							13.9	167.1	5,100	210
214							4.1	141.8	4,800	214

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
60	74.0	298.3	31,500 b							60
65	72.1	296.8	30,900							65
70	70.2	295.1	30,200							70
75	68.3	293.2	29,400							75
76	67.9	292.8	29,300	70.7	294.7	30,100				76
80	66.4	291.1	28,600	69.2	293.3	29,800				80
85	64.4	288.8	27,800	67.2	291.3	29,500				85
90	62.4	286.3	26,900	65.3	289.1	29,300				90
91	62.0	285.8	26,700	64.9	288.6	29,300	67.7	290.5	28,400	91
95	60.4	283.6	26,000	63.3	286.6	29,100	66.1	288.8	28,300	95
100	58.3	280.6	25,100	61.3	284.0	28,800	64.1	286.5	28,200	100
105	56.2	277.4	24,100	59.2	281.2	28,000	62.1	284.0	26,400	105
110	54.0	273.9	23,200	57.1	278.1	26,500	60.1	281.2	24,800	110
115	51.7	270.1	22,300	54.9	274.7	24,900	58.0	278.2	23,300	115
120	49.4	266.0	21,400	52.7	271.0	23,500	55.9	275.0	22,000	120
125	47.0	261.6	20,500	50.4	267.1	22,200	53.7	271.4	20,700	125
130	44.5	256.7	19,600	48.1	262.7	21,000	51.4	267.6	19,600	130
135	41.9	251.4	18,800	45.6	258.1	19,900	49.1	263.4	18,600	135
139	39.7	246.7	18,200	43.6	254.0	19,100	47.1	259.8	17,800	139
140	39.1	245.5	18,000	43.0	252.9	18,900	46.7	258.9	17,600	140
145	36.2	239.0	17,300	40.3	247.3	18,000	44.1	254.0	16,700	145
150	33.0	231.8	16,600	37.5	241.1	17,100	41.5	248.6	15,900	150
155	29.6	223.6	15,900	34.5	234.2	16,300	38.7	242.7	15,100	155
160	25.7	214.0	15,300	31.1	226.5	15,500	35.8	236.1	14,400	160
161	24.8	211.7	15,200	30.4	224.7	15,400	35.1	234.6	14,300	161
165	21.2	202.5	14,800	27.5	217.6	14,800	32.6	228.7	13,700	165
170	15.6	187.5	14,300	23.3	207.0	14,100	29.1	220.3	13,100	170
175	6.0	161.2	13,700	18.3	193.9	13,500	25.2	210.6	12,500	175
180				11.2	174.8	12,800	20.6	198.7	11,900	180
183				1.5	147.9	12,400	17.0	189.3	11,500	183
185							14.6	182.9	11,300	185
190							2.8	150.2	10,700	190
195										195
200										200
201										201
205										205
210										210
213										213
215										215
220										220
224										224

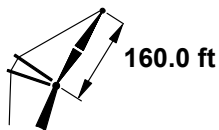
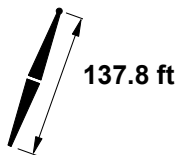


# MLC150-1 S-2

ASME B30.5



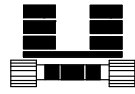
110,500 lb  
+  
35,000 lb



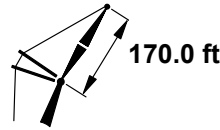
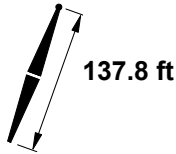
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60										60
65										65
70										70
75										75
76										76
80										80
85										85
90										90
91										91
95										95
100										100
105										105
110										110
115	62.8	282.1	20,700							115
120	60.8	279.4	19,400							120
125	58.7	276.5	18,300							125
130	56.6	273.3	17,300							130
135	54.4	269.9	16,400							135
139	52.6	266.9	15,700	57.6	271.1	13,600				139
140	52.2	266.2	15,500	57.2	270.4	13,400				140
145	49.9	262.1	14,700	55.0	267.1	12,700				145
150	47.5	257.7	13,900	52.8	263.4	12,000				150
155	45.0	252.9	13,200	50.6	259.5	11,400				155
160	42.4	247.7	12,600	48.2	255.2	10,800				160
161	41.9	246.5	12,400	47.7	254.3	10,700	52.9	258.7	8,800	161
165	39.7	242.0	11,900	45.7	250.5	10,200	51.0	255.6	8,400	165
170	36.8	235.6	11,400	43.2	245.4	9,700	48.7	251.3	7,900	170
175	33.7	228.5	10,800	40.5	239.8	9,200	46.3	246.8	7,400	175
180	30.3	220.5	10,300	37.7	233.7	8,700	43.7	241.7	7,000	180
183	28.1	215.0	10,000	35.8	229.6	8,500	42.1	238.5	6,700	183
185	26.6	211.3	9,800	34.6	226.8	8,300	41.1	236.3	6,500	185
190	22.2	200.3	9,300	31.3	219.1	7,900	38.3	230.2	6,100	190
195	16.9	186.2	8,900	27.7	210.3	7,400	35.3	223.6	5,700	195
200	8.8	164.3	8,400	23.6	199.9	7,100	32.0	216.0	5,400	200
201	6.1	156.7	8,300	22.6	197.3	7,000	31.3	214.3	5,300	201
205				18.6	186.9	6,700	28.5	207.5	5,000	205
210				11.7	168.4	6,300	24.5	197.4	4,700	210
213				3.7	146.1	6,000	21.6	190.0	4,500	213
215							19.7	185.1	4,300	215
220							13.4	168.3	4,000	220
224							3.9	142.1	3,700	224

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



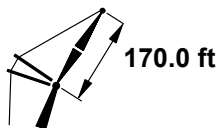
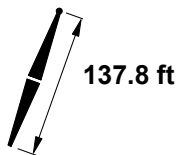
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
64	73.9	307.9	27,300						64	
65	73.6	307.6	27,100						65	
70	71.8	306.0	26,800						70	
75	70.0	304.3	26,400						75	
80	68.2	302.4	26,200	70.8	304.3	25,700			80	
85	66.4	300.3	25,700	69.0	302.4	25,600			85	
90	64.5	298.0	24,900	67.2	300.4	25,300			90	
95	62.6	295.5	23,800	65.3	298.2	25,000	68.0	300.1	24,300	95
100	60.7	292.8	22,800	63.5	295.8	24,400	66.1	298.0	24,200	100
105	58.8	289.9	21,900	61.6	293.2	23,400	64.3	295.7	24,100	105
110	56.8	286.8	20,900	59.6	290.4	22,400	62.4	293.2	23,700	110
115	54.7	283.4	20,000	57.7	287.4	21,500	60.5	290.5	22,800	115
120	52.7	279.7	19,100	55.6	284.1	20,400	58.5	287.5	21,800	120
121	52.2	278.9	18,900	55.2	283.4	20,300	58.1	286.9	21,500	121
125	50.5	275.7	18,100	53.6	280.5	19,600	56.5	284.3	20,600	125
130	48.3	271.4	17,300	51.5	276.7	18,600	54.5	280.9	19,400	130
135	46.0	266.8	16,500	49.3	272.5	17,800	52.4	277.2	18,400	135
140	43.6	261.8	15,700	47.0	268.1	16,900	50.2	273.2	17,400	140
145	41.1	256.3	15,000	44.7	263.2	16,100	48.0	268.8	16,600	145
150	38.5	250.3	14,200	42.2	257.9	15,400	45.7	264.1	15,700	150
155	35.7	243.6	13,400	39.6	252.1	14,600	43.3	259.0	15,000	155
160	32.7	236.3	12,600	36.9	245.8	13,900	40.7	253.5	14,200	160
165	29.4	228.0	11,700	34.0	238.8	13,000	38.1	247.4	13,500	165
168	27.2	222.2	11,200	32.1	234.1	12,500	36.4	243.4	13,200	168
170	25.7	218.4	10,900	30.9	230.9	12,100	35.3	240.7	12,900	170
175	21.5	207.0	10,200	27.4	221.9	11,300	32.2	233.2	12,300	175
180	16.4	192.4	9,500	23.5	211.4	10,500	28.9	224.7	11,700	180
185	8.5	169.7	8,900	18.8	198.5	9,800	25.2	214.9	10,900	185
186	5.8	161.7	8,800	17.5	194.9	9,700	24.3	212.6	10,700	186
190				12.5	180.6	9,200	20.9	203.2	10,200	190
194				1.5	148.0	8,700	16.6	191.0	9,600	194
195							15.5	188.0	9,500	195
200							6.8	162.6	8,800	200
201							2.7	150.5	8,700	201
205										205
210										210
212										212
215										215
220										220
224										224
225										225
230										230

# MLC150-1 S-2

ASME B30.5



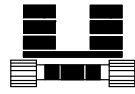
110,500 lb  
+  
35,000 lb



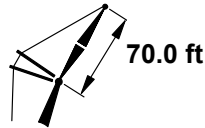
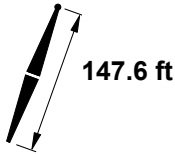
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
64										64
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
121	62.7	290.8	19,000							121
125	61.1	288.6	18,100							125
130	59.2	285.7	17,100							130
135	57.2	282.6	16,200							135
140	55.2	279.3	15,300							140
145	53.1	275.7	14,500	57.8	279.7	12,500				145
150	51.0	271.8	13,700	55.8	276.5	11,800				150
155	48.7	267.6	13,000	53.7	272.9	11,100				155
160	46.5	263.0	12,400	51.6	269.1	10,500				160
165	44.1	258.0	11,800	49.4	265.0	10,000				165
168	42.6	254.8	11,400	48.0	262.3	9,700	52.9	266.7	7,800	168
170	41.6	252.6	11,200	47.1	260.5	9,500	52.0	265.1	7,600	170
175	39.0	246.8	10,600	44.8	255.7	9,000	49.9	261.1	7,100	175
180	36.3	240.3	10,100	42.3	250.4	8,500	47.6	256.7	6,600	180
185	33.3	233.1	9,600	39.8	244.7	8,100	45.3	251.9	6,200	185
186	32.6	231.4	9,500	39.2	243.4	8,000	44.8	250.9	6,100	186
190	30.1	225.0	9,200	37.1	238.4	7,700	42.9	246.8	5,800	190
194	27.2	217.5	8,800	34.7	232.8	7,300	40.8	242.3	5,500	194
195	26.5	215.7	8,700	34.2	231.4	7,300	40.3	241.1	5,400	195
200	22.5	204.7	8,300	31.0	223.6	6,900	37.6	235.0	5,100	200
201	21.5	202.0	8,200	30.3	221.8	6,800	37.1	233.6	5,000	201
205	17.5	191.0	7,900	27.6	214.7	6,500	34.8	228.1	4,700	205
210	10.6	171.0	7,500	23.7	204.2	6,100	31.7	220.5	4,400	210
212	5.9	157.2	7,300	21.8	199.1	5,900	30.4	217.0	4,200	212
215				19.1	191.5	5,700	28.3	211.9	4,000	215
220				13.0	174.1	5,300	24.6	201.8	3,700	220
224				3.6	146.5	5,000	21.0	192.1	3,500	224
225							20.1	189.6	3,400	225
230							14.5	173.6	3,100	230

# MLC150-1 S-2

ASME B30.5



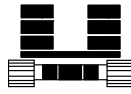
110,500 lb  
+  
35,000 lb



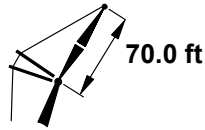
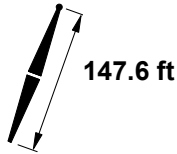
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
36	73.9	221.6	76,600 d							36
38	72.2	221.0	76,600 d							38
40	70.4	220.3	75,200 d							40
42	68.7	219.6	73,400 c							42
44	66.9	218.8	71,500 c							44
46	65.1	217.9	69,700 c							46
48	63.3	216.9	67,500 c	70.2	219.4	71,500 d				48
50	61.5	215.9	65,100 c	68.4	218.6	69,800 c				50
55	56.7	212.9	59,900 b	63.9	216.4	65,600 c				55
59	52.7	210.0	56,600 b	60.2	214.2	61,500 c	67.2	216.8	58,500 c	59
60	51.6	209.3	55,700 b	59.3	213.7	60,500 b	66.3	216.4	57,200 c	60
65	46.2	204.9	52,100 b	54.4	210.4	54,700 b	61.8	213.9	51,700 c	65
70	40.2	199.6	49,100	49.2	206.5	49,800 b	57.0	211.0	47,100 b	70
75	33.4	192.9	46,500	43.5	201.7	45,700	52.0	207.4	43,200 b	75
77	30.0	189.3	45,500	41.0	199.4	44,300	49.8	205.7	41,800 b	77
80	25.0	183.9	44,000	37.2	195.8	42,100	46.6	203.1	39,800 b	80
85	12.1	169.0	41,000	29.8	188.3	39,000	40.7	197.8	36,900	85
86	7.2	163.2	40,300	27.8	186.1	38,400	39.3	196.5	36,400	86
90				20.1	177.5	36,200	33.9	191.3	34,300	90
94				4.9	159.5	34,100	27.3	184.3	32,400	94
95							25.6	182.5	31,900	95
100							13.4	168.4	29,800	100
101							9.2	163.4	29,400	101
105										105
110										110
111										111
114										114
115										115
120										120
125										125
126										126
130										130
135										135
138										138

# MLC150-1 S-2

ASME B30.5



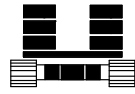
110,500 lb  
+  
35,000 lb



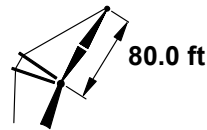
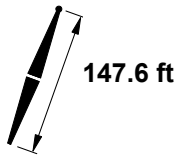
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
59										59
60										60
65										65
70										70
75										75
77	62.3	211.2	37,800 c							77
80	59.5	209.6	36,000 c							80
85	54.6	206.3	33,300 b							85
86	53.6	205.5	32,800 b							86
90	49.4	202.4	31,000 b							90
94	44.9	198.6	29,300 b	57.8	204.4	26,100 b				94
95	43.8	197.7	28,900	56.8	203.8	25,800 b				95
100	37.5	191.8	27,000	51.8	200.2	24,100 b				100
101	36.0	190.3	26,700	50.7	199.3	23,800 b				101
105	30.1	184.4	25,300	46.4	195.9	22,600 b				105
110	20.5	173.8	23,700	40.4	190.6	21,200				110
111	17.0	169.6	23,400	39.0	189.2	21,000	52.7	195.7	18,500 b	111
114	6.5	157.1	22,500	35.0	185.2	20,200	49.5	193.3	17,800 b	114
115				33.6	183.9	20,000	48.4	192.4	17,600 b	115
120				25.3	175.1	18,800	42.7	187.5	16,600	120
125				12.6	160.5	17,700	36.2	181.4	15,600	125
126				8.1	155.0	17,400	34.7	179.9	15,500	126
130							28.6	173.6	14,700	130
135							18.3	162.0	13,900	135
138							7.1	148.7	13,300	138

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



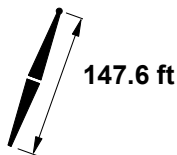
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
39	73.7	231.2	69,900 d							39
40	73.0	230.9	69,300 d							40
42	71.5	230.2	68,100 c							42
44	69.9	229.5	66,800 c							44
46	68.4	228.7	65,400 c							46
48	66.9	227.9	64,000 c							48
50	65.3	227.0	62,500 c							50
51	64.5	226.5	61,800 c	70.5	228.9	66,200 c				51
55	61.3	224.5	58,800 b	67.4	227.4	63,200 c				55
60	57.1	221.5	54,600 b	63.5	225.1	59,700 b				60
62	55.4	220.1	53,200 b	61.8	224.0	57,600 b	67.9	226.4	54,500 c	62
65	52.7	218.0	51,000 b	59.4	222.4	54,400 b	65.6	225.1	51,300 c	65
70	48.1	213.9	47,900	55.1	219.1	49,500 b	61.6	222.6	46,700 b	70
75	43.1	209.0	45,000	50.6	215.3	45,400	57.4	219.6	42,800 b	75
80	37.5	203.1	42,100	45.8	210.9	41,900	53.0	216.2	39,500 b	80
81	36.3	201.6	41,500	44.8	209.8	41,200	52.1	215.3	38,900 b	81
85	31.2	195.8	39,500	40.6	205.6	38,800	48.4	212.1	36,500	85
90	23.4	186.1	37,100	34.7	199.1	36,000	43.4	207.2	34,000	90
95	11.3	170.1	35,300	27.8	190.9	33,600	37.9	201.4	31,700	95
96	6.8	163.8	34,900	26.0	188.5	33,200	36.7	200.0	31,300	96
100				18.8	179.2	31,400	31.6	194.2	29,600	100
104				4.6	159.9	29,700	25.5	186.6	28,200	104
105							24.0	184.7	27,800	105
110							12.5	169.5	26,000	110
111							8.6	164.2	25,700	111
115										115
117										117
120										120
124										124
125										125
130										130
135										135
136										136
140										140
145										145
148										148

# MLC150-1 S-2

ASME B30.5



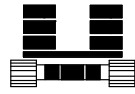
110,500 lb  
+  
35,000 lb



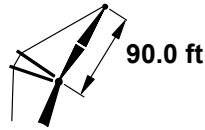
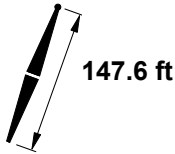
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
39										39
40										40
42										42
44										44
46										46
48										48
50										50
51										51
55										55
60										60
62										62
65										65
70										70
75										75
80										80
81	62.8	220.4	35,000 b							81
85	59.5	218.2	32,900 b							85
90	55.3	215.0	30,600 b							90
95	50.8	211.3	28,500							95
96	49.9	210.4	28,100							96
100	46.0	206.8	26,600	57.2	212.5	23,700 b				100
104	41.9	202.6	25,300	53.7	209.7	22,500 b				104
105	40.8	201.5	25,000	52.9	209.0	22,200 b				105
110	35.0	195.1	23,500	48.2	204.8	20,800				110
111	33.6	193.5	23,200	47.2	203.9	20,600				111
115	28.1	187.0	22,100	43.2	200.0	19,600				115
117	24.5	182.4	21,600	41.0	197.6	19,200	52.7	203.7	16,700 b	117
120	19.2	175.6	20,800	37.7	194.1	18,500	50.0	201.3	16,100	120
124	6.1	157.7	19,800	32.6	188.3	17,600	46.1	197.7	15,400	124
125				31.4	186.8	17,400	45.1	196.7	15,200	125
130				23.6	177.2	16,500	39.8	191.3	14,400	130
135				11.8	161.6	15,500	33.8	184.6	13,600	135
136				7.5	155.7	15,300	32.4	182.9	13,400	136
140							26.7	176.0	12,800	140
145							17.1	163.6	12,100	145
148							6.6	149.3	11,600	148

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
42	73.6	240.7	62,700 d							42
44	72.3	240.1	61,800 c							44
46	70.9	239.4	60,700 c							46
48	69.6	238.7	59,600 c							48
50	68.2	237.9	58,400 c							50
54	65.4	236.2	56,000 c	70.7	238.4	61,600 c				54
55	64.7	235.7	55,400 b	70.0	238.1	60,900 c				55
60	61.1	233.2	52,300 b	66.6	236.1	57,700 b				60
65	57.4	230.2	49,200 b	63.1	233.8	54,100 b				65
66	56.7	229.5	48,600 b	62.4	233.2	53,200 b	67.7	235.5	50,100 c	66
70	53.6	226.8	46,200	59.5	231.0	49,300 b	65.0	233.8	46,500 b	70
75	49.5	222.8	43,300	55.7	227.8	45,200	61.4	231.2	42,600 b	75
80	45.2	218.2	40,600	51.7	224.2	41,700	57.7	228.3	39,200 b	80
85	40.5	212.8	38,000	47.6	219.9	38,600	53.8	224.9	36,300	85
86	39.5	211.5	37,600	46.7	218.9	38,000	53.0	224.1	35,800	86
90	35.3	206.4	35,700	43.1	215.0	35,900	49.8	221.0	33,800	90
95	29.4	198.5	33,600	38.2	209.1	33,500	45.5	216.4	31,500	95
100	22.0	188.1	31,800	32.7	202.1	31,300	40.8	211.1	29,500	100
105	10.7	171.0	30,300	26.2	193.3	29,400	35.7	204.7	27,700	105
106	6.4	164.4	30,200	24.5	190.8	29,000	34.5	203.2	27,300	106
110				17.7	180.8	27,600	29.8	197.0	26,000	110
114				4.3	160.3	26,200	24.0	188.8	24,800	114
115							22.6	186.8	24,500	115
120							11.8	170.6	23,100	120
121							8.1	164.9	22,800	121
123										123
125										125
130										130
134										134
135										135
140										140
145										145
146										146
150										150
155										155
158										158

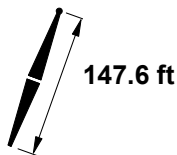


# MLC150-1 S-2

ASME B30.5



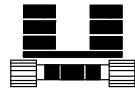
110,500 lb  
+  
35,000 lb



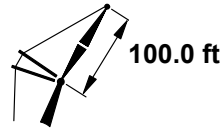
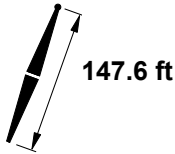
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
42										42
44										44
46										46
48										48
50										50
54										54
55										55
60										60
65										65
66										66
70										70
75										75
80										80
85										85
86	62.5	229.1	32,100 b							86
90	59.6	226.9	30,300 b							90
95	55.8	223.7	28,300							95
100	51.9	220.1	26,400							100
105	47.7	215.8	24,800	57.5	221.1	21,900 b				105
106	46.8	214.9	24,500	56.8	220.4	21,700 b				106
110	43.3	210.9	23,300	53.7	217.7	20,600				110
114	39.4	206.3	22,200	50.4	214.5	19,600				114
115	38.4	205.1	21,900	49.6	213.8	19,400				115
120	32.9	198.2	20,700	45.3	209.2	18,300				120
121	31.6	196.4	20,500	44.4	208.1	18,100				121
123	29.1	192.9	20,000	42.5	205.9	17,600	52.8	211.7	15,300	123
125	26.5	189.4	19,500	40.6	203.8	17,200	51.1	210.2	15,000	125
130	18.1	177.2	18,400	35.5	197.4	16,300	46.9	205.8	14,100	130
134	5.7	158.2	17,600	30.7	191.1	15,600	43.3	201.8	13,500	134
135				29.5	189.6	15,400	42.4	200.8	13,400	135
140				22.2	179.2	14,600	37.4	194.8	12,600	140
145				11.1	162.6	13,800	31.8	187.5	12,000	145
146				7.1	156.3	13,600	30.5	185.7	11,800	146
150							25.2	178.3	11,300	150
155							16.1	165.1	10,700	155
158							6.3	149.9	10,300	158

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



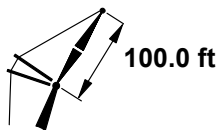
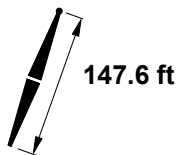
ft	86°			83°			80°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
45	73.5	250.2	50,800 c							45
46	72.9	249.9	50,600 c							46
48	71.7	249.3	50,300 c							48
50	70.5	248.6	49,900 c							50
55	67.4	246.7	48,900 b							55
57	66.1	245.8	48,500 b	70.9	248.0	50,400 c				57
60	64.3	244.4	47,900 b	69.1	246.9	49,900 b				60
65	61.0	241.8	45,600	66.0	244.8	49,100 b				65
70	57.7	238.9	43,200	62.8	242.4	48,400 b	67.6	244.7	46,100 b	70
75	54.2	235.5	40,700	59.5	239.7	44,900	64.5	242.5	42,200 b	75
80	50.6	231.7	38,400	56.1	236.5	41,300	61.2	239.9	38,900	80
85	46.8	227.3	36,200	52.6	232.9	38,300	57.9	237.0	36,000	85
90	42.7	222.2	34,100	48.9	228.9	35,600	54.5	233.6	33,400	90
95	38.3	216.4	32,100	45.0	224.2	33,200	50.9	229.8	31,200	95
100	33.4	209.5	30,300	40.8	218.8	31,100	47.1	225.5	29,200	100
105	27.8	201.0	28,600	36.2	212.5	29,100	43.0	220.5	27,400	105
110	20.9	190.0	27,200	31.0	205.0	27,400	38.6	214.7	25,700	110
115	10.1	171.9	26,200	24.8	195.5	25,800	33.8	207.9	24,200	115
116	6.1	164.9	26,000	23.2	192.9	25,500	32.7	206.2	24,000	116
120				16.8	182.4	24,300	28.2	199.5	22,900	120
124				4.1	160.6	23,200	22.8	190.9	21,800	124
125							21.4	188.7	21,600	125
129							13.2	175.0	20,600	129
130							11.2	171.6	20,400	130
131							7.7	165.6	20,100	131
135										135
140										140
144										144
145										145
150										150
155										155
156										156
160										160
165										165
168										168

# MLC150-1 S-2

ASME B30.5



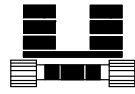
110,500 lb  
+  
35,000 lb



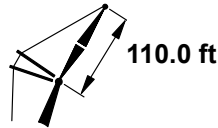
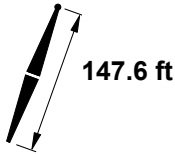
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
45									45	
46									46	
48									48	
50									50	
55									55	
57									57	
60									60	
65									65	
70									70	
75									75	
80									80	
85									85	
90	62.9	238.3	29,900 b						90	
95	59.6	235.5	27,800						95	
100	56.3	232.4	26,000						100	
105	52.7	228.8	24,400						105	
110	49.0	224.8	22,900	57.8	229.8	20,200			110	
115	45.1	220.1	21,600	54.3	226.4	18,900			115	
116	44.3	219.1	21,300	53.6	225.7	18,700			116	
120	40.9	214.8	20,300	50.7	222.6	17,900			120	
124	37.3	209.8	19,400	47.7	219.1	17,000			124	
125	36.3	208.5	19,200	46.9	218.2	16,800			125	
129	32.2	202.5	18,400	43.7	214.2	16,100	52.8	219.7	13,900	
130	31.2	201.0	18,200	42.9	213.2	15,900	52.1	219.0	13,700	
131	30.0	199.2	18,000	42.0	212.0	15,700	51.3	218.1	13,500	
135	25.1	191.7	17,200	38.5	207.4	15,100	48.3	214.8	12,900	
140	17.2	178.7	16,300	33.6	200.5	14,300	44.4	210.0	12,200	
144	5.4	158.7	15,500	29.1	193.8	13,600	41.0	205.6	11,700	
145				28.0	192.1	13,500	40.1	204.5	11,600	
150				21.1	181.2	12,800	35.5	198.1	10,900	
155				10.6	163.5	12,100	30.2	190.3	10,400	
156				6.7	156.9	11,900	28.9	188.3	10,200	
160							23.8	180.5	9,800	
165							15.3	166.4	9,200	
168							5.9	150.4	8,900	

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



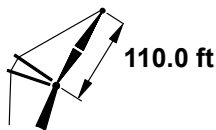
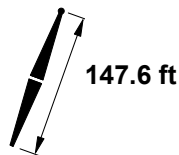
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
47	73.9	260.1	47,900 c							47
48	73.4	259.8	47,700 c							48
50	72.3	259.2	47,400 c							50
55	69.5	257.4	46,600 b							55
60	66.7	255.4	45,100 b							60
61	66.2	255.0	44,700 b	70.5	257.2	47,200 b				61
65	63.9	253.1	43,100	68.3	255.7	46,700 b				65
70	60.9	250.5	41,000	65.4	253.5	46,000 b				70
74	58.5	248.1	39,300	63.1	251.6	45,000 b	67.5	253.9	42,800 b	74
75	57.9	247.6	38,900	62.5	251.1	44,800	66.9	253.4	42,100 b	75
80	54.8	244.2	36,900	59.6	248.3	41,200	64.1	251.2	38,800	80
85	51.5	240.5	35,000	56.5	245.2	38,200	61.1	248.6	35,900	85
90	48.1	236.3	33,000	53.3	241.7	35,500	58.1	245.6	33,400	90
95	44.5	231.5	31,200	50.0	237.7	33,100	55.0	242.3	31,100	95
100	40.7	226.0	29,500	46.5	233.3	31,000	51.8	238.6	29,100	100
105	36.5	219.8	28,000	42.8	228.2	29,100	48.4	234.4	27,300	105
110	31.9	212.4	26,500	38.8	222.4	27,400	44.8	229.7	25,700	110
115	26.5	203.4	25,200	34.4	215.7	25,800	40.9	224.3	24,200	115
120	19.9	191.8	24,000	29.5	207.7	24,400	36.8	218.1	22,900	120
125	9.7	172.8	23,200	23.7	197.7	23,100	32.2	210.8	21,600	125
126	5.8	165.4	23,100	22.1	194.9	22,800	31.1	209.0	21,400	126
130				16.0	183.8	21,800	26.9	202.0	20,500	130
134				3.9	161.0	20,800	21.7	192.9	19,600	134
135							20.4	190.6	19,400	135
140							10.7	172.6	18,400	140
141							7.3	166.2	18,200	141
145										145
150										150
154										154
155										155
160										160
165										165
166										166
170										170
175										175
178										178

# MLC150-1 S-2

ASME B30.5



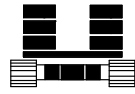
110,500 lb  
+  
35,000 lb



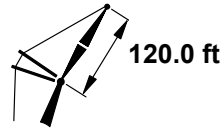
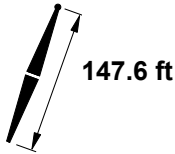
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
47										47
48										48
50										50
55										55
60										60
61										61
65										65
70										70
74										74
75										75
80										80
85										85
90										90
95	62.6	247.0	27,800							95
100	59.7	244.2	26,000							100
105	56.6	241.1	24,300							105
110	53.4	237.6	22,900							110
115	50.1	233.7	21,500	58.0	238.5	18,900				115
120	46.6	229.2	20,300	54.9	235.1	17,800				120
125	42.9	224.2	19,200	51.6	231.4	16,800				125
126	42.1	223.0	19,000	50.9	230.6	16,600				126
130	38.9	218.4	18,200	48.2	227.2	15,900				130
134	35.5	213.0	17,400	45.3	223.4	15,200				134
135	34.6	211.7	17,200	44.6	222.4	15,000	52.8	227.7	12,900	135
140	29.7	203.8	16,300	40.8	217.0	14,200	49.5	223.7	12,200	140
141	28.5	201.8	16,200	39.9	215.8	14,100	48.8	222.8	12,100	141
145	23.9	193.9	15,500	36.6	210.8	13,500	46.0	219.2	11,500	145
150	16.4	180.2	14,700	32.0	203.4	12,800	42.2	214.0	10,900	150
154	5.2	159.2	14,000	27.7	196.3	12,300	39.0	209.3	10,500	154
155				26.7	194.5	12,200	38.2	208.1	10,400	155
160				20.1	183.0	11,500	33.8	201.2	9,800	160
165				10.1	164.4	10,900	28.7	192.9	9,300	165
166				6.4	157.5	10,800	27.5	190.9	9,200	166
170							22.7	182.6	8,800	170
175							14.6	167.7	8,300	175
178							5.7	150.9	8,000	178

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



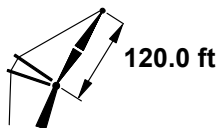
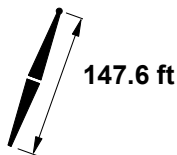
	86°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
50	73.8	269.6	44,700 c							50
55	71.3	268.0	43,300 b							55
60	68.8	266.2	41,900 b							60
64	66.7	264.6	40,500 b	70.7	266.7	44,100 b				64
65	66.2	264.2	40,200	70.2	266.4	43,900 b				65
70	63.6	261.8	38,500	67.6	264.4	43,400				70
75	60.9	259.2	36,800	65.0	262.2	42,400				75
77	59.7	258.0	36,100	63.9	261.3	41,800	67.9	263.4	40,300 b	77
80	58.1	256.2	35,000	62.3	259.8	40,900	66.4	262.2	38,400	80
85	55.2	252.9	33,400	59.6	257.0	37,900	63.7	259.9	35,500	85
90	52.3	249.3	31,700	56.8	253.9	35,200	61.0	257.2	33,000	90
95	49.2	245.2	30,000	53.9	250.4	32,800	58.3	254.3	30,800	95
99	46.6	241.5	28,800	51.5	247.3	31,100	56.0	251.7	29,200	99
100	45.9	240.6	28,500	50.9	246.6	30,700	55.4	251.0	28,800	100
105	42.5	235.5	27,000	47.7	242.3	28,800	52.5	247.4	27,000	105
110	38.9	229.7	25,700	44.4	237.5	27,100	49.4	243.3	25,400	110
115	34.9	223.0	24,300	40.9	232.0	25,500	46.2	238.8	23,900	115
120	30.5	215.2	23,200	37.1	225.8	24,100	42.8	233.7	22,500	120
121	29.4	213.3	22,900	36.2	224.4	23,900	42.0	232.6	22,300	121
125	25.4	205.7	22,000	32.9	218.7	22,800	39.1	227.9	21,300	125
130	19.0	193.5	21,100	28.2	210.2	21,600	35.2	221.3	20,200	130
135	9.2	173.6	20,400	22.7	199.7	20,500	30.8	213.6	19,100	135
136	5.5	165.9	20,400	21.2	196.8	20,300	29.8	211.8	18,900	136
140				15.3	185.2	19,400	25.7	204.3	18,200	140
141				12.4	179.2	19,200	24.5	201.9	18,000	141
144				3.7	161.3	18,600	20.8	194.7	17,400	144
145							19.5	192.3	17,200	145
150							10.2	173.5	16,400	150
151							7.0	166.9	16,200	151
155										155
160										160
164										164
165										165
170										170
175										175
176										176
180										180
185										185
188										188

# MLC150-1 S-2

ASME B30.5



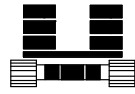
110,500 lb  
+  
35,000 lb



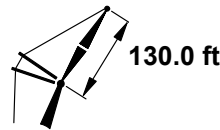
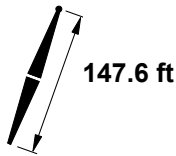
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
50										50
55										55
60										60
64										64
65										65
70										70
75										75
77										77
80										80
85										85
90										90
95										95
99	63.0	256.1	25,900							99
100	62.4	255.6	25,500							100
105	59.7	252.9	23,900							105
110	56.9	249.8	22,500							110
115	54.0	246.3	21,100							115
120	51.0	242.5	19,900							120
121	50.4	241.6	19,700	57.6	246.5	17,200				121
125	47.8	238.2	18,800	55.3	243.9	16,400				125
130	44.5	233.4	17,800	52.3	240.2	15,500				130
135	41.0	228.0	16,900	49.3	236.1	14,600				135
136	40.3	226.8	16,700	48.6	235.2	14,500				136
140	37.2	221.9	16,000	46.0	231.6	13,900				140
141	36.4	220.4	15,800	45.3	230.5	13,700	52.9	235.7	11,600	141
144	33.9	216.2	15,300	43.3	227.5	13,300	51.0	233.3	11,200	144
145	33.1	214.8	15,200	42.6	226.4	13,100	50.4	232.6	11,100	145
150	28.4	206.3	14,400	39.0	220.6	12,400	47.2	228.2	10,500	150
151	27.3	204.3	14,300	38.2	219.3	12,300	46.6	227.2	10,400	151
155	22.9	195.9	13,700	35.0	214.0	11,800	43.9	223.3	10,000	155
160	15.7	181.6	13,000	30.6	206.2	11,200	40.3	217.8	9,400	160
164	4.9	159.6	12,400	26.5	198.7	10,800	37.3	212.7	9,000	164
165				25.5	196.9	10,600	36.5	211.5	8,900	165
170				19.2	184.7	10,100	32.3	204.1	8,500	170
175				9.6	165.3	9,500	27.5	195.4	8,000	175
176				6.2	158.1	9,400	26.3	193.3	7,900	176
180							21.7	184.5	7,600	180
185							13.9	169.0	7,100	185
188							5.4	151.4	6,800	188

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb

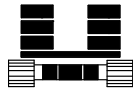


ft	86°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
53	73.7	279.2	40,300 b							53
55	72.8	278.6	39,900 b							55
60	70.5	276.9	38,700 b							60
65	68.1	275.0	37,400							65
67	67.2	274.1	36,900	70.8	276.3	40,800 b				67
70	65.7	272.9	36,100	69.4	275.2	40,300				70
75	63.3	270.5	34,700	67.0	273.2	39,300				75
80	60.8	267.8	33,200	64.6	270.9	38,200				80
81	60.3	267.2	32,900	64.1	270.4	38,000	67.8	272.6	37,500	81
85	58.2	264.9	31,700	62.1	268.4	37,000	65.9	270.9	35,300	85
90	55.6	261.6	30,300	59.6	265.7	34,900	63.5	268.5	32,700	90
95	52.9	258.0	28,900	57.0	262.6	32,600	61.0	265.9	30,500	95
100	50.1	254.1	27,500	54.4	259.2	30,500	58.4	263.0	28,500	100
104	47.7	250.5	26,400	52.2	256.1	29,000	56.3	260.4	27,100	104
105	47.1	249.6	26,100	51.6	255.4	28,600	55.8	259.7	26,700	105
110	44.1	244.7	24,900	48.7	251.2	26,900	53.1	256.2	25,100	110
115	40.8	239.3	23,700	45.7	246.6	25,300	50.3	252.2	23,700	115
120	37.3	233.1	22,500	42.6	241.4	23,900	47.3	247.8	22,300	120
125	33.5	226.1	21,400	39.2	235.7	22,600	44.3	243.0	21,100	125
126	32.6	224.4	21,200	38.5	234.4	22,400	43.6	241.9	20,900	126
130	29.2	217.9	20,400	35.6	229.1	21,400	41.0	237.5	20,000	130
135	24.3	208.0	19,500	31.6	221.6	20,300	37.5	231.4	18,900	135
140	18.3	195.1	18,800	27.1	212.7	19,300	33.7	224.4	18,000	140
145	8.9	174.4	18,200	21.8	201.7	18,400	29.5	216.3	17,100	145
146	5.3	166.4	18,200	20.3	198.6	18,200	28.6	214.4	16,900	146
147				18.9	195.6	18,000	27.6	212.4	16,700	147
150				14.7	186.5	17,400	24.7	206.6	16,200	150
154				3.6	161.6	16,700	19.9	196.5	15,600	154
155							18.7	194.0	15,400	155
160							9.8	174.3	14,700	160
161							6.7	167.5	14,500	161
165										165
170										170
174										174
175										175
180										180
185										185
186										186
190										190
195										195
198										198

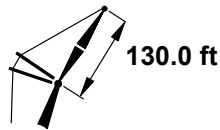
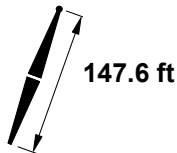


# MLC150-1 S-2

ASME B30.5



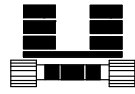
110,500 lb  
+  
35,000 lb



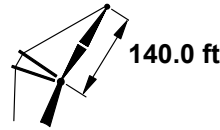
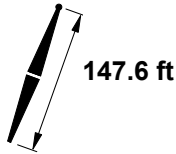
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
53										53
55										55
60										60
65										65
67										67
70										70
75										75
80										80
81										81
85										85
90										90
95										95
100										100
104	62.7	264.8	24,000							104
105	62.2	264.3	23,700							105
110	59.7	261.5	22,200							110
115	57.1	258.4	20,900							115
120	54.5	255.1	19,700							120
125	51.7	251.3	18,600							125
126	51.1	250.5	18,400	57.8	255.2	15,900				126
130	48.8	247.1	17,600	55.7	252.6	15,200				130
135	45.9	242.5	16,600	53.0	249.0	14,400				135
140	42.7	237.4	15,800	50.2	245.0	13,600				140
145	39.3	231.7	15,000	47.2	240.6	12,900				145
146	38.6	230.3	14,800	46.6	239.6	12,700				146
147	37.9	229.0	14,700	46.0	238.6	12,600	52.9	243.7	10,600	147
150	35.7	225.1	14,200	44.1	235.7	12,200	51.2	241.4	10,200	150
154	32.5	219.1	13,600	41.5	231.3	11,700	48.9	238.0	9,800	154
155	31.7	217.7	13,500	40.9	230.3	11,600	48.3	237.2	9,700	155
160	27.3	208.8	12,800	37.4	224.1	11,000	45.3	232.5	9,200	160
161	26.2	206.6	12,700	36.6	222.7	10,900	44.7	231.4	9,100	161
165	22.0	197.9	12,200	33.6	217.1	10,400	42.1	227.2	8,700	165
170	15.0	183.0	11,600	29.4	208.9	9,900	38.7	221.3	8,200	170
174	4.8	160.0	11,100	25.5	201.0	9,500	35.8	216.0	7,800	174
175				24.5	199.1	9,400	35.0	214.7	7,700	175
180				18.5	186.4	8,900	31.0	207.0	7,300	180
185				9.3	166.1	8,400	26.4	197.8	6,800	185
186				5.9	158.6	8,300	25.3	195.5	6,800	186
190							20.9	186.4	6,400	190
195							13.4	170.2	6,000	195
198							5.2	151.9	5,700	198

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



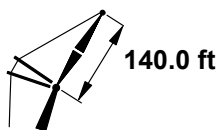
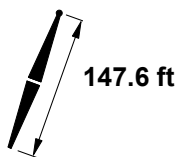
ft	86°			83°			80°			ft
	ft	lb	lb	ft	lb	lb	ft	lb	lb	
56	73.6	288.7	36,300 b							56
60	71.9	287.5	35,600 b							60
65	69.8	285.7	34,600							65
70	67.6	283.8	33,500	70.9	285.8	36,600				70
75	65.3	281.6	32,300	68.8	284.0	36,100				75
80	63.1	279.2	31,100	66.5	281.9	35,300				80
85	60.7	276.5	29,900	64.3	279.6	34,400	67.7	281.8	34,900	85
90	58.4	273.6	28,700	62.0	277.1	33,400	65.5	279.6	32,400	90
95	55.9	270.3	27,500	59.7	274.3	32,200	63.2	277.2	30,100	95
100	53.4	266.8	26,300	57.2	271.2	30,200	60.9	274.6	28,200	100
105	50.8	262.9	25,100	54.8	267.9	28,300	58.5	271.6	26,400	105
109	48.7	259.5	24,200	52.7	264.9	26,900	56.6	269.1	25,100	109
110	48.1	258.6	24,000	52.2	264.2	26,600	56.1	268.4	24,800	110
115	45.3	253.9	22,900	49.6	260.1	25,000	53.6	264.9	23,300	115
120	42.4	248.7	21,800	46.9	255.6	23,600	51.0	261.0	22,000	120
125	39.2	242.9	20,800	44.0	250.7	22,300	48.3	256.8	20,800	125
130	35.9	236.4	19,900	41.0	245.3	21,200	45.5	252.1	19,700	130
131	35.1	234.9	19,700	40.3	244.0	20,900	44.9	251.1	19,500	131
135	32.2	229.0	19,000	37.7	239.2	20,100	42.6	246.9	18,600	135
140	28.2	220.4	18,100	34.2	232.3	19,000	39.5	241.2	17,700	140
145	23.4	210.1	17,400	30.4	224.4	18,100	36.1	234.7	16,800	145
150	17.6	196.7	16,700	26.1	215.0	17,200	32.5	227.4	16,000	150
153	12.2	183.8	16,500	23.0	208.1	16,700	30.1	222.3	15,500	153
155	8.6	175.2	16,300	21.0	203.6	16,400	28.4	218.9	15,200	155
156	5.1	166.8	16,300	19.6	200.4	16,200	27.5	216.9	15,000	156
160				14.2	187.8	15,600	23.8	208.7	14,400	160
164				3.5	161.9	14,900	19.2	198.2	13,900	164
165							18.1	195.6	13,800	165
170							9.4	175.2	13,100	170
171							6.5	168.0	12,900	171
175										175
180										180
184										184
185										185
190										190
195										195
196										196
200										200
205										205
208										208

# MLC150-1 S-2

ASME B30.5



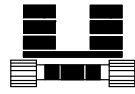
110,500 lb  
+  
35,000 lb



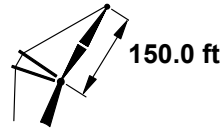
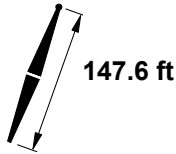
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
56										56
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
109	62.5	273.5	22,100							109
110	62.1	273.0	21,800							110
115	59.7	270.2	20,500							115
120	57.3	267.1	19,300							120
125	54.9	263.8	18,200							125
130	52.3	260.1	17,200							130
131	51.8	259.3	17,000	57.9	263.8	14,600				131
135	49.7	256.0	16,300	56.0	261.2	14,000				135
140	47.0	251.6	15,400	53.5	257.7	13,200				140
145	44.1	246.7	14,600	50.9	253.8	12,500				145
150	41.1	241.2	13,900	48.2	249.6	11,800				150
153	39.1	237.6	13,500	46.5	246.7	11,400	52.9	251.7	9,400	153
155	37.9	235.2	13,200	45.4	244.9	11,200	51.9	250.2	9,200	155
156	37.2	233.8	13,000	44.8	243.8	11,100	51.3	249.4	9,100	156
160	34.4	228.3	12,500	42.5	239.7	10,600	49.2	246.1	8,600	160
164	31.3	222.0	12,000	39.9	235.1	10,200	47.0	242.4	8,200	164
165	30.6	220.4	11,900	39.3	233.9	10,100	46.5	241.5	8,100	165
170	26.3	211.2	11,300	36.0	227.4	9,600	43.6	236.5	7,600	170
171	25.2	208.9	11,200	35.2	225.9	9,500	42.9	235.4	7,500	171
175	21.2	199.8	10,800	32.3	220.0	9,100	40.5	231.0	7,200	175
180	14.5	184.3	10,200	28.3	211.5	8,600	37.2	224.8	6,700	180
184	4.6	160.4	9,800	24.5	203.3	8,200	34.4	219.2	6,400	184
185				23.6	201.2	8,200	33.7	217.8	6,300	185
190				17.8	188.0	7,700	29.8	209.7	5,900	190
195				8.9	166.9	7,300	25.4	200.1	5,500	195
196				5.7	159.1	7,200	24.3	197.7	5,400	196
200							20.1	188.2	5,100	200
205							12.9	171.3	4,800	205
208							5.0	152.3	4,500	208

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



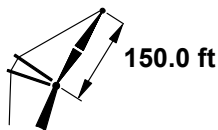
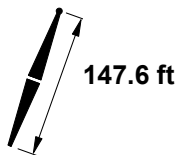
	86°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
58	74.0	298.5	33,000 b							58
60	73.2	297.9	32,700 b							60
65	71.2	296.3	32,000							65
70	69.1	294.5	31,100							70
74	67.5	292.9	30,300	70.6	295.0	32,500				74
75	67.1	292.5	30,100	70.2	294.7	32,300				75
80	65.0	290.3	29,200	68.2	292.8	32,100				80
85	62.9	287.8	28,100	66.1	290.7	31,800				85
89	61.1	285.7	27,300	64.4	288.8	31,200	67.6	290.9	30,900	89
90	60.7	285.2	27,100	64.0	288.3	31,100	67.2	290.5	30,900	90
95	58.5	282.2	26,100	61.9	285.8	30,200	65.1	288.3	30,000	95
100	56.2	279.0	25,100	59.7	283.0	29,300	63.0	285.9	28,000	100
105	53.9	275.5	24,100	57.4	279.9	28,200	60.8	283.2	26,300	105
110	51.5	271.7	23,000	55.1	276.6	26,500	58.6	280.3	24,700	110
113	50.0	269.2	22,400	53.7	274.4	25,500	57.3	278.4	23,800	113
115	49.0	267.5	22,000	52.8	272.9	24,900	56.4	277.1	23,200	115
120	46.4	263.0	21,100	50.3	269.0	23,500	54.0	273.6	21,900	120
125	43.7	258.0	20,200	47.8	264.6	22,200	51.6	269.8	20,700	125
130	40.9	252.5	19,300	45.2	259.9	21,100	49.2	265.7	19,600	130
135	37.9	246.4	18,400	42.4	254.7	20,000	46.6	261.2	18,500	135
137	36.6	243.7	18,100	41.2	252.4	19,600	45.5	259.2	18,200	137
140	34.6	239.6	17,700	39.5	248.9	19,000	43.9	256.2	17,600	140
145	31.1	231.8	16,900	36.4	242.5	18,000	41.1	250.8	16,700	145
150	27.2	222.9	16,200	33.0	235.3	17,200	38.1	244.7	15,900	150
155	22.6	212.1	15,600	29.4	227.0	16,300	34.8	237.9	15,100	155
159	18.1	201.0	15,200	26.0	219.3	15,700	32.0	231.8	14,500	159
160	17.0	198.2	15,100	25.2	217.3	15,600	31.4	230.3	14,400	160
165	8.3	175.9	14,700	20.2	205.4	14,800	27.5	221.4	13,700	165
166	4.9	167.3	14,600	18.9	202.1	14,700	26.6	219.3	13,600	166
170				13.7	189.0	14,100	23.0	210.8	13,100	170
174				3.3	162.2	13,600	18.5	199.9	12,600	174
175							17.4	197.2	12,500	175
180							9.1	176.0	11,800	180
181							6.3	168.6	11,700	181
185										185
190										190
194										194
195										195
200										200
205										205
206										206
210										210
215										215
218										218

# MLC150-1 S-2

ASME B30.5



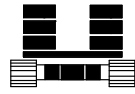
110,500 lb  
+  
35,000 lb



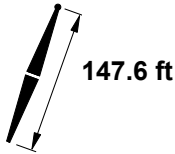
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
58										58
60										60
65										65
70										70
74										74
75										75
80										80
85										85
89										89
90										90
95										95
100										100
105										105
110										110
113	62.8	282.7	20,900							113
115	61.9	281.6	20,400							115
120	59.8	278.8	19,200							120
125	57.5	275.8	18,100							125
130	55.2	272.5	17,100							130
135	52.9	268.8	16,200							135
137	51.9	267.3	15,800	57.6	271.9	13,500				137
140	50.4	264.9	15,300	56.3	269.9	13,100				140
145	47.9	260.6	14,500	53.9	266.4	12,400				145
150	45.3	255.8	13,800	51.5	262.6	11,700				150
155	42.5	250.6	13,100	49.1	258.5	11,100				155
159	40.2	246.0	12,600	47.0	254.8	10,600	52.9	259.7	8,600	159
160	39.6	244.9	12,400	46.5	253.9	10,500	52.4	259.0	8,500	160
165	36.5	238.5	11,800	43.8	249.0	10,000	50.0	254.9	8,000	165
166	35.9	237.1	11,700	43.2	247.9	9,900	49.5	254.1	7,900	166
170	33.2	231.3	11,300	40.9	243.5	9,500	47.4	250.6	7,500	170
174	30.2	224.8	10,800	38.5	238.6	9,100	45.3	246.7	7,100	174
175	29.5	223.1	10,700	37.9	237.4	9,000	44.8	245.7	7,000	175
180	25.4	213.5	10,200	34.7	230.6	8,500	42.0	240.5	6,600	180
181	24.4	211.1	10,100	34.0	229.1	8,400	41.4	239.3	6,500	181
185	20.4	201.6	9,700	31.2	222.9	8,100	39.1	234.6	6,200	185
190	14.0	185.5	9,200	27.3	214.0	7,700	35.9	228.1	5,800	190
194	4.4	160.8	8,800	23.7	205.4	7,400	33.2	222.2	5,500	194
195				22.8	203.3	7,300	32.5	220.7	5,400	195
200				17.2	189.5	6,900	28.8	212.3	5,000	200
205				8.6	167.7	6,500	24.5	202.3	4,700	205
206				5.5	159.6	6,400	23.5	199.9	4,600	206
210							19.4	190.0	4,400	210
215							12.5	172.5	4,000	215
218							4.8	152.7	3,800	218

# MLC150-1 S-2

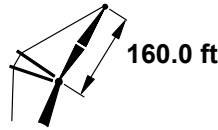
ASME B30.5



110,500 lb  
+  
35,000 lb



147.6 ft



160.0 ft

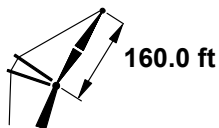
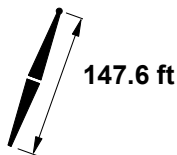
ft	86°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
62	73.9	308.1	29,500							62
65	72.8	307.2	29,000							65
70	70.9	305.5	28,500							70
75	69.0	303.7	27,800							75
78	67.8	302.5	27,400	70.8	304.6	27,900				78
80	67.0	301.7	27,100	70.0	303.8	27,900				80
85	65.1	299.5	26,300	68.1	301.9	27,800				85
90	63.1	297.0	25,500	66.1	299.8	27,500				90
93	61.9	295.4	25,000	64.9	298.4	27,400	67.9	300.5	26,600	93
95	61.1	294.4	24,600	64.2	297.5	27,300	67.2	299.7	26,600	95
100	59.0	291.5	23,800	62.2	295.0	26,600	65.2	297.5	26,500	100
105	56.9	288.4	22,900	60.1	292.2	25,600	63.2	295.1	26,000	105
110	54.7	285.0	22,000	58.0	289.2	24,600	61.2	292.4	24,400	110
115	52.5	281.3	21,200	55.9	286.0	23,600	59.1	289.6	22,900	115
119	50.6	278.1	20,500	54.1	283.1	22,800	57.4	287.1	21,900	119
120	50.2	277.3	20,400	53.7	282.4	22,600	57.0	286.5	21,600	120
125	47.8	272.9	19,600	51.4	278.6	21,700	54.9	283.1	20,400	125
130	45.4	268.2	18,800	49.1	274.5	20,800	52.6	279.4	19,300	130
135	42.8	263.0	18,000	46.7	269.9	19,700	50.4	275.4	18,300	135
140	40.1	257.4	17,300	44.2	265.0	18,700	48.0	271.1	17,300	140
143	38.3	253.6	16,900	42.6	261.8	18,200	46.5	268.3	16,800	143
145	37.2	251.1	16,600	41.6	259.6	17,800	45.5	266.4	16,400	145
150	34.1	244.1	15,900	38.8	253.7	16,900	43.0	261.3	15,600	150
155	30.8	236.3	15,300	35.8	247.1	16,100	40.3	255.6	14,900	155
160	27.1	227.2	14,700	32.6	239.8	15,400	37.4	249.4	14,100	160
165	22.9	216.5	14,200	29.1	231.4	14,600	34.3	242.5	13,500	165
166	21.8	213.8	14,000	28.4	229.5	14,500	33.7	241.0	13,300	166
170	17.7	203.0	13,400	25.2	221.7	14,000	31.0	234.7	12,800	170
175	10.3	182.9	12,700	20.6	209.9	13,300	27.4	225.8	12,200	175
177	4.8	167.7	12,400	18.3	203.6	13,100	25.7	221.5	12,000	177
180				14.7	194.2	12,700	23.2	215.2	11,700	180
185				3.2	162.5	12,100	18.1	201.9	11,100	185
190							10.9	182.5	10,600	190
192							6.1	169.1	10,400	192
195										195
200										200
205										205
210										210
215										215
217										217
220										220
225										225

# MLC150-1 S-2

ASME B30.5



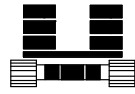
110,500 lb  
+  
35,000 lb



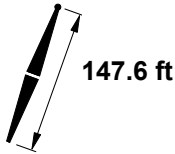
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
62									62	
65									65	
70									70	
75									75	
78									78	
80									80	
85									85	
90									90	
93									93	
95									95	
100									100	
105									105	
110									110	
115									115	
119	62.6	291.4	19,100						119	
120	62.2	290.8	18,900						120	
125	60.2	288.1	17,800						125	
130	58.1	285.1	16,800						130	
135	56.0	281.9	15,900						135	
140	53.8	278.3	15,000						140	
143	52.4	276.0	14,500	57.8	280.6	12,300			143	
145	51.5	274.5	14,200	56.9	279.3	12,000			145	
150	49.2	270.4	13,500	54.8	275.9	11,400			150	
155	46.8	265.9	12,800	52.5	272.2	10,800			155	
160	44.3	261.0	12,100	50.3	268.2	10,200			160	
165	41.7	255.6	11,500	47.9	263.9	9,700			165	
166	41.1	254.4	11,400	47.4	262.9	9,600	52.9	267.7	7,300	166
170	38.9	249.7	11,000	45.4	259.2	9,100	51.1	264.6	7,000	170
175	35.9	243.2	10,400	42.9	254.0	8,700	48.8	260.4	6,500	175
177	34.7	240.2	10,200	41.8	251.7	8,500	47.8	258.6	6,300	177
180	32.8	235.8	9,900	40.1	248.3	8,200	46.3	255.8	6,100	180
185	29.3	227.5	9,500	37.3	242.1	7,800	43.8	250.8	5,700	185
190	25.4	217.8	9,000	34.2	235.2	7,400	41.2	245.4	5,300	190
192	23.6	213.2	8,800	32.9	232.0	7,200	40.0	243.0	5,200	192
195	20.8	206.1	8,500	30.9	227.3	6,900	38.4	239.4	4,900	195
200	15.0	190.7	8,100	27.2	218.3	6,500	35.4	232.7	4,600	200
205	4.3	161.2	7,700	23.0	207.6	6,100	32.2	225.2	4,200	205
210				17.8	194.2	5,700	28.6	216.7	3,900	210
215				10.5	174.4	5,400	24.6	206.7	3,600	215
217				5.3	160.1	5,200	22.7	201.8	3,500	217
220							19.9	194.5	3,300	220
225							13.7	177.9	3,000	225

# MLC150-1 S-2

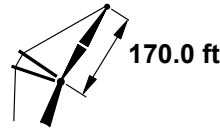
ASME B30.5



110,500 lb  
+  
35,000 lb



147.6 ft



170.0 ft

	86°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
65	73.8	317.6	26,000							65
70	72.0	316.1	25,800							70
75	70.3	314.4	25,300							75
80	68.5	312.5	24,900							80
81	68.1	312.1	24,800	70.9	314.1	24,700				81
85	66.6	310.4	24,300	69.4	312.7	24,700				85
90	64.8	308.2	23,700	67.6	310.7	24,300				90
95	62.9	305.7	23,000	65.8	308.5	24,100				95
97	62.1	304.6	22,700	65.0	307.6	24,100	67.9	309.7	23,400	97
100	61.0	303.0	22,300	63.9	306.2	24,000	66.8	308.4	23,300	100
105	59.1	300.2	21,600	62.0	303.6	23,400	64.9	306.2	23,200	105
110	57.1	297.0	20,900	60.1	300.9	22,500	63.0	303.8	23,100	110
115	55.0	293.7	20,000	58.1	297.9	21,600	61.1	301.1	22,700	115
120	52.9	290.0	19,100	56.1	294.7	20,600	59.2	298.2	21,400	120
123	51.7	287.7	18,600	54.9	292.6	20,100	58.0	296.4	20,600	123
125	50.8	286.1	18,200	54.1	291.2	19,700	57.2	295.1	20,200	125
130	48.6	281.9	17,400	52.0	287.4	18,800	55.2	291.8	19,000	130
135	46.3	277.3	16,600	49.8	283.3	18,000	53.1	288.2	18,000	135
140	43.9	272.3	15,800	47.6	278.9	17,100	51.0	284.3	17,100	140
145	41.4	266.9	15,100	45.2	274.2	16,300	48.7	280.0	16,200	145
148	39.9	263.3	14,600	43.8	271.1	15,900	47.4	277.3	15,700	148
150	38.8	260.9	14,300	42.8	269.0	15,600	46.5	275.5	15,400	150
155	36.1	254.4	13,500	40.3	263.4	14,800	44.1	270.5	14,600	155
160	33.1	247.2	12,600	37.6	257.2	14,100	41.6	265.1	13,900	160
165	29.9	239.0	11,800	34.7	250.3	13,300	39.0	259.2	13,300	165
170	26.3	229.6	11,000	31.6	242.7	12,400	36.2	252.8	12,600	170
172	24.6	225.2	10,800	30.3	239.2	12,000	35.1	249.9	12,400	172
175	22.2	218.5	10,300	28.3	234.0	11,500	33.3	245.5	12,000	175
180	17.2	204.5	9,600	24.5	223.9	10,800	30.1	237.4	11,500	180
185	10.0	183.7	9,000	20.0	211.7	10,000	26.5	228.2	10,900	185
187	4.7	168.1	8,700	17.7	205.2	9,700	24.9	223.8	10,700	187
190				14.3	195.4	9,300	22.5	217.2	10,400	190
195				3.1	162.8	8,800	17.5	203.4	9,800	195
200							10.6	183.5	9,100	200
202							5.9	169.7	8,800	202
205										205
210										210
215										215
220										220
225										225
227										227

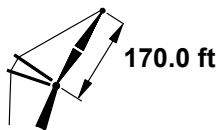
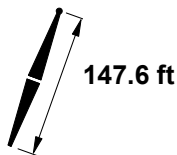


# MLC150-1 S-2

ASME B30.5



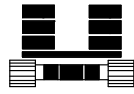
110,500 lb  
+  
35,000 lb



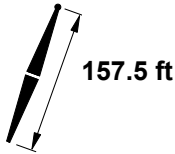
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
65										65
70										70
75										75
80										80
81										81
85										85
90										90
95										95
97										97
100										100
105										105
110										110
115										115
120										120
123	62.9	300.5	17,900							123
125	62.1	299.5	17,500							125
130	60.2	296.7	16,500							130
135	58.2	293.8	15,600							135
140	56.2	290.5	14,700							140
145	54.2	287.1	14,000							145
148	52.9	284.8	13,500	57.9	289.2	11,400				148
150	52.1	283.3	13,200	57.1	288.0	11,100				150
155	49.9	279.3	12,500	55.1	284.6	10,500				155
160	47.6	274.9	11,900	53.0	281.0	9,900				160
165	45.3	270.1	11,300	50.9	277.0	9,400				165
170	42.9	265.0	10,700	48.7	272.8	8,900				170
172	41.9	262.7	10,500	47.7	271.0	8,700	52.9	275.7	6,400	172
175	40.4	259.3	10,200	46.4	268.2	8,400	51.7	273.4	6,100	175
180	37.7	253.2	9,700	44.0	263.3	7,900	49.5	269.3	5,700	180
185	34.8	246.3	9,200	41.5	257.9	7,400	47.2	264.8	5,300	185
187	33.6	243.3	9,000	40.5	255.5	7,300	46.3	262.9	5,100	187
190	31.8	238.7	8,800	38.9	251.9	7,000	44.9	260.0	4,900	190
195	28.4	230.1	8,300	36.1	245.4	6,600	42.4	254.8	4,600	195
200	24.6	220.1	7,900	33.2	238.2	6,200	39.9	249.1	4,200	200
202	22.8	215.2	7,800	31.9	234.9	6,000	38.8	246.5	4,100	202
205	20.2	207.9	7,500	29.9	230.0	5,800	37.2	242.8	3,900	205
210	14.5	191.9	7,100	26.4	220.7	5,400	34.3	235.8	3,600	210
215	4.2	161.6	6,700	22.3	209.6	5,100	31.2	228.1	3,300	215
220				17.3	195.8	4,700	27.7	219.2	3,000	220
225				10.2	175.3	4,400				225
227				5.2	160.5	4,200				227

# MLC150-1 S-2

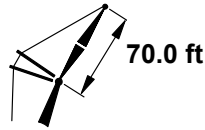
ASME B30.5



110,500 lb  
+  
35,000 lb



157.5 ft

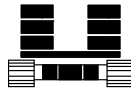


70.0 ft

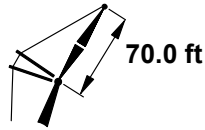
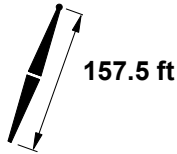
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
37	73.6	231.3	70,900 d							37
38	72.8	231.0	70,300 d							38
40	71.0	230.4	69,000 d							40
42	69.3	229.7	67,600 d							42
44	67.5	228.9	66,100 c							44
46	65.8	228.0	64,600 c							46
48	63.9	227.1	63,100 c							48
49	63.0	226.6	62,300 c	70.3	229.2	66,900 d				49
50	62.1	226.0	61,500 c	69.5	228.8	66,100 d				50
55	57.4	223.1	57,700 b	65.0	226.7	62,200 c				55
60	52.4	219.6	53,900 b	60.4	224.2	58,400 c	67.9	226.8	56,400 c	60
65	47.0	215.4	50,300 b	55.6	221.0	54,200 b	63.4	224.5	51,000 c	65
70	41.1	210.2	47,000	50.5	217.3	49,400 b	58.7	221.7	46,400 b	70
75	34.4	203.7	44,000	44.9	212.7	45,300 b	53.7	218.4	42,600 b	75
79	27.9	196.9	41,800	40.0	208.3	42,500 b	49.5	215.2	39,900 b	79
80	26.3	195.2	41,300	38.8	207.1	41,800	48.5	214.4	39,200 b	80
85	14.6	181.8	40,000	31.7	200.1	38,700	42.8	209.5	36,300	85
87	4.8	170.0	38,600	28.1	196.2	37,600	40.2	207.0	35,300	87
90				22.8	190.4	35,900	36.3	203.4	33,800	90
95				6.5	171.2	33,400	28.7	195.6	31,500	95
98							22.6	188.7	30,200	98
100							18.5	184.1	29,400	100
103							7.5	171.1	28,200	103
105										105
110										110
115										115
116										116
120										120
125										125
130										130
135										135
140										140
142										142

# MLC150-1 S-2

ASME B30.5



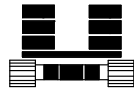
110,500 lb  
+  
35,000 lb



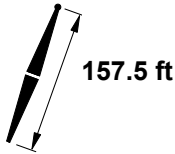
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
37									37	
38									38	
40									40	
42									42	
44									44	
46									46	
48									48	
49									49	
50									50	
55									55	
60									60	
65									65	
70									70	
75									75	
79	62.8	221.0	35,600 c						79	
80	61.9	220.5	35,000 c						80	
85	57.1	217.6	32,400 b						85	
87	55.1	216.1	31,500 b						87	
90	52.1	214.0	30,200 b						90	
95	46.7	209.7	28,100 b						95	
98	43.1	206.6	27,000 b	57.2	213.3	23,800 b			98	
100	40.8	204.5	26,300	55.2	211.9	23,100 b			100	
103	36.7	200.6	25,300	52.1	209.6	22,300 b			103	
105	34.0	197.9	24,700	50.1	208.1	21,700 b			105	
110	25.8	189.3	23,100	44.5	203.5	20,400 b			110	
115	13.7	175.4	21,700	38.3	197.8	19,200	52.8	204.8	16,500 b	115
116	9.7	170.5	21,400	36.9	196.4	18,900	51.8	203.9	16,400 b	116
120				31.1	190.6	18,000	47.5	200.6	15,600 b	120
125				21.9	180.6	17,000	41.7	195.5	14,700	125
130				2.3	157.3	15,900	35.1	189.2	13,900	130
135							27.1	180.9	13,100	135
140							16.0	168.2	12,300	140
142							8.1	158.8	12,000	142

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



157.5 ft



80.0 ft

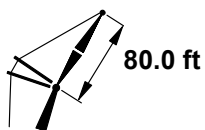
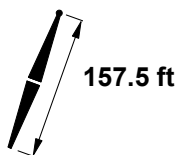
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
40	73.5	240.9	63,600 d							40
42	72.0	240.3	62,500 d							42
44	70.5	239.6	61,400 c							44
46	68.9	238.8	60,200 c							46
48	67.4	238.0	59,000 c							48
50	65.8	237.2	57,700 c							50
52	64.2	236.2	56,400 c	70.6	238.7	61,800 c				52
55	61.8	234.7	54,400 b	68.3	237.6	59,800 c				55
60	57.7	231.8	51,200 b	64.4	235.4	56,400 c				60
64	54.2	229.0	48,600 b	61.2	233.3	53,900 c	67.7	235.9	51,600 c	64
65	53.4	228.4	47,900 b	60.4	232.8	53,200 b	66.9	235.5	50,600 c	65
70	48.7	224.3	44,900	56.2	229.7	49,100 b	62.9	233.2	46,000 b	70
75	43.8	219.5	42,100	51.7	226.1	45,000	58.8	230.4	42,200 b	75
80	38.3	213.8	39,400	47.0	221.8	41,500	54.6	227.1	38,900 b	80
84	33.4	208.1	37,500	42.9	217.7	39,000	50.9	224.0	36,600 b	84
85	32.1	206.7	37,000	41.9	216.7	38,400	50.0	223.2	36,000	85
90	24.6	197.4	34,900	36.2	210.5	35,700	45.2	218.7	33,500	90
95	13.6	183.0	33,300	29.6	202.8	33,300	39.9	213.2	31,200	95
97	4.5	170.4	32,800	26.3	198.6	32,400	37.5	210.6	30,400	97
100				21.3	192.3	31,100	33.9	206.6	29,200	100
103				12.2	180.0	29,900	29.6	201.4	28,100	103
105				6.1	171.8	29,100	26.8	198.0	27,400	105
110							17.3	185.7	25,700	110
113							7.0	171.7	24,700	113
115										115
120										120
121										121
125										125
126										126
130										130
135										135
140										140
145										145
150										150
152										152

# MLC150-1 S-2

ASME B30.5



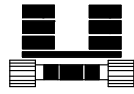
110,500 lb  
+  
35,000 lb



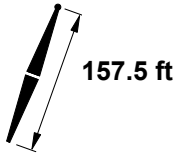
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
40										40
42										42
44										44
46										46
48										48
50										50
52										52
55										55
60										60
64										64
65										65
70										70
75										75
80										80
84	62.5	229.7	32,500 b							84
85	61.6	229.2	32,000 b							85
90	57.5	226.2	29,700 b							90
95	53.1	222.8	27,700 b							95
97	51.3	221.1	27,000 b							97
100	48.5	218.7	25,900							100
103	45.5	215.8	24,900	57.5	221.9	21,800 b				103
105	43.5	213.9	24,300	55.8	220.6	21,200 b				105
110	38.0	208.1	22,800	51.4	216.9	19,900				110
113	34.3	203.8	22,000	48.5	214.3	19,200				113
115	31.8	200.9	21,500	46.6	212.6	18,800				115
120	24.1	191.5	20,200	41.5	207.4	17,700				120
121	21.9	188.5	20,000	40.3	206.2	17,500	52.9	212.8	14,900 b	121
125	12.8	176.5	19,000	35.7	201.2	16,700	49.2	209.5	14,200	125
126	9.0	171.3	18,800	34.4	199.6	16,500	48.2	208.6	14,100	126
130				29.0	193.3	15,700	44.3	204.8	13,400	130
135				20.5	182.4	14,900	38.9	199.2	12,700	135
140				2.2	157.5	13,900	32.7	192.2	12,000	140
145							25.3	183.2	11,300	145
150							14.9	169.6	10,600	150
152							7.6	159.5	10,400	152

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



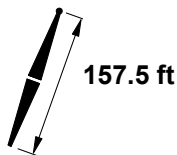
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
43	73.4	250.4	52,400 d							43
44	72.7	250.1	52,200 c							44
46	71.4	249.5	51,800 c							46
48	70.0	248.8	51,300 c							48
50	68.7	248.0	50,900 c							50
55	65.2	245.9	49,800 b	70.8	248.3	52,000 c				55
60	61.6	243.4	47,500 b	67.4	246.4	51,200 c				60
65	58.0	240.5	44,900 b	63.9	244.1	50,300 b				65
68	55.6	238.4	43,400 b	61.8	242.5	49,000 b	67.5	245.1	47,500 c	68
70	54.1	237.1	42,300	60.3	241.5	48,100 b	66.2	244.2	45,800 b	70
75	50.1	233.2	39,900	56.6	238.4	44,800	62.6	241.9	41,900 b	75
80	45.8	228.7	37,500	52.7	234.9	41,300	59.0	239.1	38,600 b	80
85	41.2	223.4	35,300	48.6	230.8	38,200	55.2	235.8	35,800	85
88	38.1	219.7	34,100	45.9	227.9	36,600	52.8	233.6	34,300	88
90	36.1	217.2	33,200	44.2	226.0	35,600	51.2	232.1	33,300	90
95	30.2	209.5	31,300	39.4	220.4	33,200	47.0	227.7	31,000	95
100	23.2	199.6	29,700	34.1	213.7	31,000	42.5	222.7	29,000	100
105	12.8	184.2	28,500	27.9	205.4	29,100	37.5	216.7	27,200	105
107	4.2	170.8	28,100	24.8	200.9	28,400	35.3	213.8	26,600	107
108				23.2	198.6	28,100	34.1	212.4	26,300	108
110				20.1	194.1	27,400	31.9	209.5	25,600	110
115				5.8	172.3	25,700	25.3	200.3	24,100	115
120							16.3	187.1	22,700	120
123							6.6	172.3	21,900	123
125										125
127										127
130										130
135										135
136										136
140										140
145										145
150										150
155										155
160										160
162										162

# MLC150-1 S-2

ASME B30.5



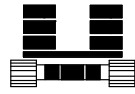
110,500 lb  
+  
35,000 lb



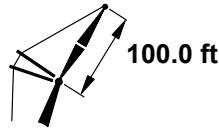
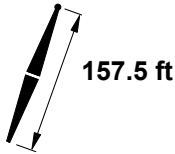
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
43										43
44										44
46										46
48										48
50										50
55										55
60										60
65										65
68										68
70										70
75										75
80										80
85										85
88	62.9	238.9	30,300 b							88
90	61.5	237.8	29,500 b							90
95	57.8	234.9	27,500 b							95
100	53.9	231.5	25,700							100
105	49.9	227.6	24,100							105
107	48.1	225.8	23,500							107
108	47.3	224.9	23,200	57.8	230.6	20,200 b				108
110	45.6	223.0	22,600	56.3	229.3	19,700				110
115	40.9	217.7	21,300	52.4	225.7	18,500				115
120	35.8	211.4	20,100	48.2	221.6	17,400				120
123	32.3	206.7	19,400	45.6	218.7	16,900				123
125	29.9	203.7	19,000	43.8	216.8	16,500				125
127	27.0	199.6	18,600	41.9	214.5	16,100	52.9	220.8	13,700	127
130	22.7	193.6	17,900	39.0	211.1	15,600	50.5	218.4	13,200	130
135	12.1	177.6	16,900	33.6	204.3	14,700	46.2	213.9	12,500	135
136	8.5	172.1	16,700	32.4	202.6	14,500	45.3	212.9	12,300	136
140				27.4	195.8	13,900	41.6	208.7	11,800	140
145				19.3	184.2	13,200	36.5	202.6	11,100	145
150				2.1	157.7	12,300	30.8	195.1	10,500	150
155							23.9	185.4	9,900	155
160							14.1	170.9	9,400	160
162							7.1	160.2	9,100	162

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	lb	ft	ft
45	73.9	260.3	49,300 c							45
46	73.3	260.0	49,100 c							46
48	72.1	259.3	48,700 c							48
50	70.9	258.7	48,300 c							50
55	67.8	256.8	46,800 b							55
59	65.3	255.0	45,100 b	70.4	257.5	48,500 c				59
60	64.7	254.6	44,700 b	69.8	257.1	48,400 c				60
65	61.5	252.0	42,500 b	66.7	255.1	47,700 b				65
70	58.2	249.1	40,200	63.6	252.8	46,400 b				70
72	56.8	247.8	39,300	62.3	251.7	45,500 b	67.4	254.3	43,800 b	72
75	54.7	245.8	38,000	60.3	250.1	44,200	65.6	253.0	41,600 b	75
80	51.1	242.0	35,900	56.9	247.1	40,900	62.4	250.5	38,300 b	80
85	47.4	237.7	33,900	53.5	243.6	37,900	59.1	247.7	35,400	85
90	43.3	232.8	32,000	49.8	239.7	35,200	55.7	244.5	32,900	90
93	40.7	229.3	30,900	47.5	236.9	33,800	53.5	242.3	31,600	93
95	39.0	227.1	30,200	45.9	235.1	32,900	52.1	240.9	30,700	95
100	34.2	220.3	28,600	41.8	229.9	30,800	48.4	236.7	28,700	100
105	28.7	212.1	27,100	37.3	223.9	28,900	44.4	232.0	26,900	105
110	21.9	201.6	25,700	32.3	216.7	27,100	40.2	226.5	25,300	110
114	14.1	188.5	24,900	27.6	209.6	25,900	36.4	221.3	24,100	114
115	12.2	185.3	24,600	26.4	207.8	25,600	35.5	220.0	23,800	115
117	4.0	171.2	24,400	23.5	203.0	25,000	33.4	216.9	23,300	117
120				19.0	195.8	24,100	30.2	212.3	22,500	120
125				5.5	172.8	22,700	23.9	202.5	21,200	125
130							15.4	188.5	20,100	130
133							6.3	172.9	19,400	133
135										135
140										140
145										145
146										146
150										150
155										155
160										160
165										165
170										170
172										172

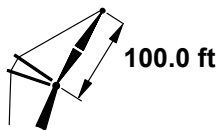
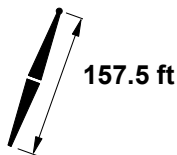


# MLC150-1 S-2

ASME B30.5



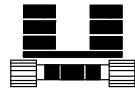
110,500 lb  
+  
35,000 lb



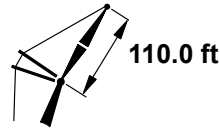
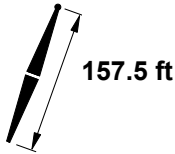
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
45									45	
46									46	
48									48	
50									50	
55									55	
59									59	
60									60	
65									65	
70									70	
72									72	
75									75	
80									80	
85									85	
90									90	
93	62.6	247.6	27,800 b						93	
95	61.3	246.5	27,000						95	
100	58.0	243.6	25,300						100	
105	54.5	240.2	23,700						105	
110	51.0	236.4	22,200						110	
114	47.9	232.9	21,200	57.4	238.6	18,300			114	
115	47.2	232.1	20,900	56.7	238.0	18,100			115	
117	45.5	230.1	20,500	55.3	236.6	17,600			117	
120	43.1	227.1	19,700	53.2	234.5	17,000			120	
125	38.7	221.3	18,600	49.5	230.5	16,000			125	
130	33.9	214.5	17,600	45.6	225.9	15,200			130	
133	30.6	209.6	17,100	43.1	222.8	14,700	52.9	228.8	12,300	133
135	28.4	206.3	16,700	41.5	220.7	14,300	51.5	227.2	12,000	135
140	21.6	195.5	15,800	36.9	214.5	13,600	47.7	223.0	11,300	140
145	11.5	178.6	14,900	31.9	207.2	12,800	43.7	218.1	10,700	145
146	8.1	172.8	14,700	30.7	205.4	12,700	42.8	216.9	10,600	146
150				25.9	198.2	12,100	39.4	212.4	10,100	150
155				18.3	185.8	11,500	34.6	205.8	9,600	155
160				1.9	157.8	10,800	29.2	197.8	9,000	160
165							22.6	187.5	8,500	165
170							13.3	172.1	8,000	170
172							6.8	160.8	7,800	172

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



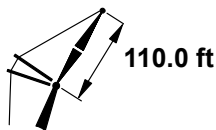
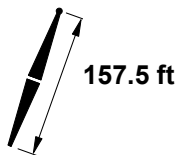
	86°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
48	73.8	269.8	45,800 c						48	
50	72.7	269.2	45,200 c						50	
55	69.9	267.5	43,700 b						55	
60	67.1	265.5	41,900 b						60	
62	66.0	264.6	41,200 b	70.6	267.0	45,600 b			62	
65	64.3	263.3	40,100	68.9	265.9	45,300 b			65	
70	61.3	260.7	38,200	66.1	263.9	43,900 b			70	
75	58.3	257.8	36,300	63.2	261.5	42,400	67.9	263.9	41,500 b	75
80	55.2	254.5	34,500	60.3	258.8	40,600	65.1	261.7	38,200 b	80
85	52.0	250.8	32,700	57.2	255.8	37,800	62.1	259.2	35,300	85
90	48.6	246.7	31,000	54.1	252.3	35,200	59.2	256.4	32,800	90
95	45.0	242.0	29,300	50.8	248.5	32,800	56.1	253.2	30,600	95
97	43.5	239.9	28,700	49.4	246.8	32,000	54.8	251.8	29,800	97
100	41.2	236.7	27,700	47.3	244.2	30,700	52.9	249.6	28,600	100
105	37.1	230.5	26,300	43.7	239.2	28,800	49.5	245.6	26,900	105
110	32.5	223.3	25,000	39.8	233.6	27,100	46.0	241.1	25,300	110
115	27.3	214.6	23,700	35.5	227.2	25,600	42.3	235.9	23,800	115
119	22.2	205.7	22,900	31.7	221.0	24,400	39.0	231.2	22,700	119
120	20.9	203.4	22,700	30.7	219.5	24,200	38.2	230.0	22,500	120
125	11.6	186.3	21,900	25.2	210.1	22,800	33.8	223.1	21,300	125
127	3.8	171.5	21,700	22.4	205.0	22,400	31.8	219.9	20,800	127
130				18.1	197.5	21,600	28.8	214.9	20,100	130
135				5.2	173.2	20,400	22.8	204.6	19,100	135
139							16.3	192.8	18,300	139
140							14.7	189.9	18,100	140
143							6.0	173.4	17,500	143
145										145
150										150
155										155
156										156
160										160
165										165
170										170
175										175
180										180
182										182

# MLC150-1 S-2

ASME B30.5



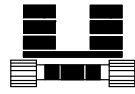
110,500 lb  
+  
35,000 lb



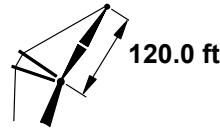
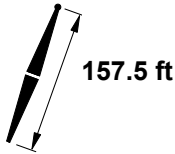
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
48										48
50										50
55										55
60										60
62										62
65										65
70										70
75										75
80										80
85										85
90										90
95										95
97	63.0	256.7	26,200							97
100	61.2	255.2	25,200							100
105	58.2	252.2	23,600							105
110	55.1	248.9	22,200							110
115	51.8	245.2	20,900							115
119	49.1	241.9	19,900	57.6	247.3	17,200				119
120	48.4	241.0	19,700	57.0	246.7	17,000				120
125	44.8	236.3	18,600	53.8	243.2	16,000				125
127	43.3	234.2	18,200	52.5	241.7	15,600				127
130	41.0	230.9	17,600	50.5	239.3	15,100				130
135	36.9	224.8	16,700	47.1	235.0	14,300				135
139	33.2	219.0	16,000	44.1	231.0	13,700	52.9	236.8	11,400	139
140	32.3	217.5	15,800	43.4	230.0	13,500	52.3	236.0	11,300	140
143	29.1	212.2	15,300	41.0	226.6	13,100	50.3	233.5	10,900	143
145	27.0	208.7	15,000	39.5	224.3	12,800	48.9	231.9	10,700	145
150	20.5	197.4	14,200	35.2	217.8	12,200	45.4	227.3	10,100	150
155	10.9	179.6	13,500	30.3	210.0	11,500	41.6	222.0	9,600	155
156	7.7	173.5	13,300	29.2	208.1	11,400	40.7	220.8	9,500	156
160				24.7	200.4	10,900	37.5	215.9	9,000	160
165				17.4	187.4	10,400	33.0	208.8	8,600	165
170				1.9	158.0	9,700	27.8	200.3	8,100	170
175							21.6	189.4	7,600	175
180							12.7	173.2	7,100	180
182							6.4	161.3	6,900	182

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



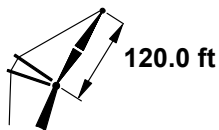
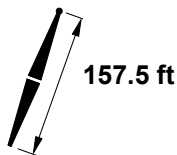
	86°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
51	73.7	279.3	41,400 c							51
55	71.7	278.1	40,400 b							55
60	69.1	276.3	39,000 b							60
65	66.6	274.3	37,500	70.8	276.6	41,700 b				65
70	63.9	272.0	36,000	68.2	274.7	40,700 b				70
75	61.2	269.4	34,300	65.6	272.6	39,500				75
79	59.0	267.0	33,100	63.5	270.6	38,400	67.8	273.0	38,400 b	79
80	58.5	266.5	32,700	63.0	270.2	38,200	67.3	272.6	37,800	80
85	55.6	263.2	31,200	60.3	267.5	36,700	64.6	270.4	34,900	85
90	52.7	259.6	29,600	57.5	264.4	34,800	62.0	267.9	32,500	90
95	49.6	255.6	28,200	54.6	261.1	32,500	59.2	265.0	30,200	95
100	46.4	251.1	26,800	51.6	257.3	30,400	56.4	261.9	28,300	100
102	45.0	249.1	26,200	50.3	255.6	29,600	55.2	260.5	27,600	102
105	43.0	246.0	25,400	48.5	253.1	28,500	53.5	258.4	26,500	105
110	39.4	240.3	24,100	45.2	248.4	26,800	50.5	254.5	24,900	110
115	35.5	233.8	22,900	41.7	243.2	25,300	47.3	250.1	23,500	115
120	31.1	226.2	21,900	38.0	237.2	23,900	44.0	245.2	22,200	120
124	27.1	218.8	21,000	34.8	231.7	22,800	41.1	240.8	21,200	124
125	26.1	217.0	20,800	34.0	230.3	22,600	40.4	239.7	20,900	125
130	20.0	205.2	20,000	29.4	222.2	21,400	36.6	233.4	19,800	130
135	11.1	187.3	19,400	24.1	212.3	20,300	32.3	226.1	18,800	135
137	3.7	171.8	19,200	21.4	207.0	19,900	30.4	222.6	18,400	137
140				17.3	199.0	19,200	27.5	217.4	17,800	140
145				5.0	173.7	18,200	21.8	206.6	16,900	145
150							14.1	191.1	16,100	150
153							5.7	173.9	15,500	153
155										155
160										160
165										165
166										166
170										170
175										175
180										180
185										185
190										190
192										192

# MLC150-1 S-2

ASME B30.5



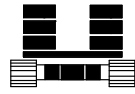
110,500 lb  
+  
35,000 lb



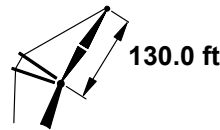
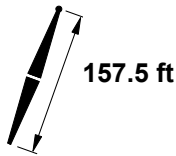
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
51										51
55										55
60										60
65										65
70										70
75										75
79										79
80										80
85										85
90										90
95										95
100										100
102	62.7	265.4	24,100							102
105	61.1	263.8	23,200							105
110	58.3	260.9	21,800							110
115	55.5	257.6	20,500							115
120	52.5	254.0	19,300							120
124	50.1	250.8	18,400	57.8	256.0	15,800				124
125	49.5	250.0	18,200	57.2	255.4	15,600				125
130	46.2	245.4	17,200	54.4	252.0	14,700				130
135	42.8	240.3	16,300	51.4	248.2	13,900				135
137	41.4	238.0	16,000	50.1	246.5	13,600				137
140	39.2	234.6	15,500	48.2	243.9	13,100				140
145	35.2	228.0	14,700	44.9	239.2	12,400	53.0	244.8	10,200	145
150	30.9	220.3	13,900	41.5	233.9	11,800	49.9	240.8	9,600	150
153	27.8	214.8	13,500	39.2	230.3	11,400	48.0	238.1	9,300	153
155	25.8	211.1	13,200	37.7	227.8	11,200	46.7	236.3	9,100	155
160	19.7	199.1	12,600	33.6	220.9	10,600	43.3	231.3	8,500	160
165	10.5	180.5	11,900	29.0	212.6	10,100	39.7	225.7	8,000	165
166	7.4	174.2	11,800	27.9	210.6	9,900	38.9	224.4	7,900	166
170				23.6	202.5	9,500	35.8	219.2	7,500	170
175				16.7	188.9	9,000	31.5	211.7	7,100	175
180				1.8	158.2	8,500	26.6	202.7	6,600	180
185							20.6	191.3	6,200	185
190							12.2	174.3	5,800	190
192							6.2	161.9	5,600	192

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



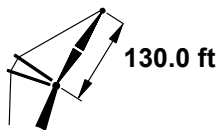
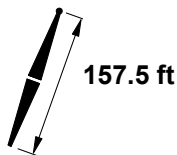
	86°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
54	73.6	288.9	37,500 b						54	
55	73.1	288.6	37,300 b						55	
60	70.8	287.0	36,200 b						60	
65	68.5	285.1	35,000						65	
68	67.0	283.8	34,200	70.9	286.1	37,900 b			68	
70	66.1	283.0	33,700	70.0	285.4	37,600 b			70	
75	63.6	280.6	32,400	67.6	283.5	36,700			75	
80	61.1	278.0	31,100	65.2	281.3	35,700			80	
83	59.6	276.3	30,300	63.7	279.8	35,000	67.7	282.2	35,800	83
85	58.6	275.1	29,700	62.7	278.8	34,600	66.7	281.3	34,700	85
90	56.0	271.9	28,400	60.2	276.1	33,300	64.3	279.1	32,200	90
95	53.3	268.4	27,100	57.7	273.1	32,100	61.8	276.5	30,000	95
100	50.5	264.4	25,800	55.0	269.8	30,200	59.3	273.7	28,000	100
105	47.5	260.1	24,500	52.3	266.1	28,300	56.7	270.6	26,300	105
107	46.3	258.2	24,100	51.1	264.5	27,600	55.6	269.2	25,600	107
110	44.5	255.3	23,400	49.4	262.0	26,600	54.0	267.1	24,700	110
115	41.2	249.9	22,200	46.5	257.5	25,100	51.2	263.3	23,200	115
120	37.8	243.8	21,200	43.3	252.5	23,700	48.4	259.1	21,900	120
125	34.0	236.9	20,200	40.0	246.9	22,400	45.3	254.4	20,700	125
129	30.7	230.5	19,500	37.2	241.8	21,400	42.8	250.2	19,800	129
130	29.9	228.9	19,300	36.5	240.5	21,200	42.1	249.2	19,600	130
135	25.1	219.3	18,500	32.6	233.3	20,100	38.7	243.3	18,600	135
140	19.2	207.0	17,800	28.2	224.7	19,100	35.1	236.6	17,700	140
145	10.7	188.2	17,200	23.1	214.3	18,200	31.0	228.9	16,800	145
147	3.5	172.2	17,100	20.5	208.8	17,800	29.2	225.3	16,400	147
150				16.7	200.5	17,300	26.4	219.8	15,900	150
151				14.3	195.2	17,100	25.3	217.5	15,800	151
155				4.8	174.1	16,400	21.0	208.4	15,200	155
160							13.5	192.3	14,400	160
163							5.5	174.4	13,900	163
165										165
170										170
175										175
176										176
180										180
185										185
190										190
195										195
200										200
202										202

# MLC150-1 S-2

ASME B30.5



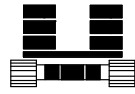
110,500 lb  
+  
35,000 lb



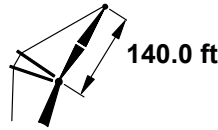
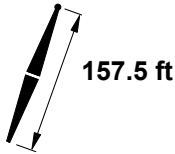
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
54										54
55										55
60										60
65										65
68										68
70										70
75										75
80										80
83										83
85										85
90										90
95										95
100										100
105										105
107	62.5	274.1	22,300							107
110	61.0	272.5	21,500							110
115	58.5	269.6	20,200							115
120	55.8	266.3	19,100							120
125	53.1	262.8	18,000							125
129	50.9	259.6	17,200	58.0	264.7	14,600				129
130	50.3	258.8	17,000	57.5	264.0	14,400				130
135	47.4	254.4	16,100	54.8	260.7	13,600				135
140	44.3	249.6	15,200	52.1	257.0	12,900				140
145	41.1	244.2	14,500	49.2	252.9	12,200				145
147	39.7	241.7	14,200	48.0	251.0	11,900				147
150	37.6	238.1	13,700	46.2	248.3	11,500				150
151	36.8	236.7	13,600	45.6	247.3	11,400	53.0	252.8	9,100	151
155	33.8	231.1	13,000	43.1	243.2	10,900	50.7	249.6	8,700	155
160	29.6	223.0	12,400	39.8	237.6	10,400	47.8	245.3	8,100	160
163	26.7	217.2	12,000	37.6	233.7	10,000	46.0	242.4	7,800	163
165	24.8	213.3	11,800	36.2	231.2	9,800	44.8	240.5	7,600	165
170	18.9	200.8	11,200	32.3	223.8	9,300	41.5	235.2	7,200	170
175	10.1	181.4	10,600	27.9	215.2	8,800	38.1	229.2	6,700	175
176	7.1	174.8	10,500	26.8	213.1	8,800	37.4	227.8	6,600	176
180				22.7	204.6	8,400	34.4	222.4	6,300	180
185				16.0	190.4	7,900	30.2	214.5	5,900	185
190				1.7	158.3	7,400	25.5	205.0	5,500	190
195							19.8	193.1	5,100	195
200							11.7	175.3	4,700	200
202							5.9	162.4	4,600	202

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



ft	86°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
56	73.9	298.7	34,000 b							56
60	72.2	297.5	33,400 b							60
65	70.1	295.8	32,400							65
70	67.9	293.9	31,400							70
72	67.0	293.0	31,000	70.6	295.3	34,100				72
75	65.6	291.7	30,300	69.3	294.2	33,800				75
80	63.4	289.3	29,200	67.1	292.2	33,000				80
85	61.1	286.7	28,100	64.8	290.0	32,200				85
87	60.1	285.5	27,600	63.9	289.0	31,800	67.6	291.4	32,700	87
90	58.7	283.8	26,900	62.5	287.5	31,200	66.2	290.1	31,800	90
95	56.3	280.6	25,700	60.2	284.8	30,200	64.0	287.8	29,600	95
100	53.8	277.1	24,600	57.8	281.8	29,200	61.7	285.2	27,700	100
105	51.2	273.3	23,600	55.4	278.5	28,000	59.3	282.4	25,900	105
110	48.5	269.0	22,500	52.9	274.9	26,300	56.9	279.3	24,300	110
111	47.9	268.1	22,300	52.3	274.1	26,000	56.4	278.6	24,000	111
115	45.7	264.4	21,500	50.2	270.9	24,800	54.5	275.8	22,900	115
120	42.8	259.3	20,500	47.5	266.5	23,400	51.9	272.1	21,600	120
125	39.7	253.6	19,600	44.7	261.7	22,100	49.2	268.0	20,400	125
130	36.4	247.2	18,700	41.7	256.4	20,900	46.5	263.5	19,300	130
135	32.7	239.9	17,900	38.5	250.4	19,800	43.6	258.5	18,300	135
140	28.7	231.5	17,100	35.1	243.8	18,800	40.5	252.9	17,300	140
145	24.1	221.4	16,400	31.4	236.1	17,900	37.3	246.7	16,500	145
150	18.5	208.6	15,900	27.2	227.2	17,000	33.8	239.7	15,700	150
155	10.3	189.2	15,400	22.3	216.4	16,200	29.9	231.7	14,900	155
157	3.4	172.5	15,300	19.8	210.6	15,900	28.1	227.8	14,600	157
160				16.0	202.0	15,400	25.5	222.1	14,200	160
165				4.6	174.5	14,600	20.2	210.3	13,500	165
170							13.0	193.5	12,800	170
173							5.3	174.9	12,400	173
175										175
180										180
185										185
186										186
190										190
195										195
200										200
205										205
210										210
212										212

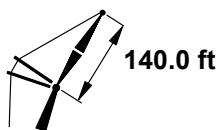
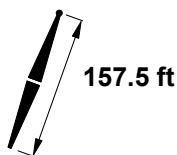


# MLC150-1 S-2

ASME B30.5



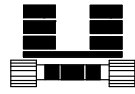
110,500 lb  
+  
35,000 lb



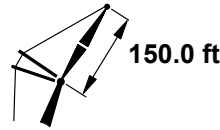
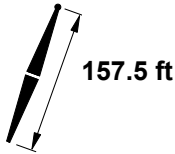
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
56									56	
60									60	
65									65	
70									70	
72									72	
75									75	
80									80	
85									85	
87									87	
90									90	
95									95	
100									100	
105									105	
110									110	
111	62.8	283.3	20,800						111	
115	60.9	281.1	19,800						115	
120	58.6	278.2	18,700						120	
125	56.1	275.0	17,600						125	
130	53.6	271.5	16,600						130	
135	51.1	267.6	15,700	57.6	272.7	13,200			135	
140	48.4	263.4	14,900	55.2	269.4	12,500			140	
145	45.6	258.7	14,100	52.7	265.7	11,800			145	
150	42.6	253.6	13,400	50.0	261.7	11,100			150	
155	39.5	247.8	12,700	47.3	257.3	10,500			155	
157	38.2	245.3	12,400	46.2	255.4	10,300	53.0	260.8	7,800	157
160	36.2	241.4	12,100	44.5	252.5	10,000	51.4	258.4	7,500	160
165	32.6	234.1	11,500	41.5	247.1	9,500	48.8	254.3	7,000	165
170	28.5	225.6	10,900	38.3	241.1	9,000	46.0	249.7	6,600	170
173	25.7	219.5	10,600	36.2	237.1	8,700	44.2	246.6	6,300	173
175	23.9	215.5	10,400	34.8	234.4	8,500	43.1	244.6	6,200	175
180	18.2	202.5	9,800	31.1	226.6	8,000	40.0	238.9	5,800	180
185	9.7	182.3	9,300	26.8	217.6	7,600	36.7	232.6	5,400	185
186	6.8	175.4	9,200	25.8	215.4	7,500	35.9	231.1	5,300	186
190				21.9	206.5	7,200	33.1	225.4	5,000	190
195				15.5	191.7	6,700	29.1	217.1	4,600	195
200				1.6	158.5	6,200	24.6	207.2	4,300	200
205							19.1	194.8	3,900	205
210							11.3	176.3	3,600	210
212							5.7	162.9	3,400	212

# MLC150-1 S-2

ASME B30.5



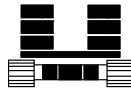
110,500 lb  
+  
35,000 lb



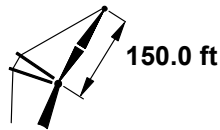
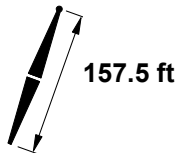
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
59	73.8	308.3	30,900 b							59
60	73.4	308.0	30,700 b							60
65	71.4	306.4	30,000							65
70	69.4	304.6	29,200							70
75	67.4	302.6	28,300	70.7	304.9	30,800				75
80	65.3	300.4	27,400	68.7	303.0	30,300				80
85	63.2	298.0	26,400	66.6	300.9	29,900				85
90	61.0	295.4	25,500	64.5	298.7	29,100	67.9	300.9	29,500	90
95	58.8	292.5	24,500	62.4	296.2	28,300	65.8	298.8	29,100	95
100	56.5	289.3	23,500	60.2	293.4	27,500	63.7	296.4	27,500	100
105	54.2	285.8	22,600	58.0	290.4	26,600	61.6	293.9	25,800	105
110	51.8	282.1	21,600	55.7	287.2	25,600	59.4	291.0	24,200	110
115	49.3	278.0	20,800	53.4	283.6	24,700	57.1	287.9	22,800	115
116	48.8	277.1	20,600	52.9	282.8	24,400	56.7	287.3	22,500	116
120	46.8	273.5	19,900	50.9	279.7	23,300	54.8	284.6	21,500	120
125	44.1	268.5	19,000	48.4	275.5	22,000	52.5	280.9	20,300	125
130	41.3	263.1	18,200	45.8	270.8	20,800	50.0	276.9	19,200	130
135	38.3	257.1	17,400	43.1	265.7	19,700	47.5	272.5	18,200	135
140	35.1	250.4	16,600	40.2	260.1	18,800	44.8	267.7	17,200	140
145	31.6	242.8	16,000	37.2	253.9	17,800	42.0	262.4	16,400	145
150	27.7	234.0	15,300	33.9	246.9	17,000	39.1	256.5	15,600	150
155	23.3	223.5	14,700	30.3	238.9	16,100	36.0	250.0	14,800	155
160	17.9	210.2	14,300	26.2	229.6	15,400	32.6	242.7	14,100	160
163	13.1	198.1	14,000	23.4	222.8	15,000	30.3	237.6	13,700	163
165	9.9	190.0	13,900	21.5	218.3	14,700	28.8	234.3	13,400	165
167	3.3	172.7	13,800	19.1	212.3	14,400	27.1	230.3	13,200	167
170				15.5	203.3	14,000	24.6	224.4	12,800	170
175				4.5	174.9	13,300	19.5	212.0	12,200	175
180							12.6	194.6	11,600	180
183							5.1	175.4	11,200	183
185										185
190										190
195										195
196										196
200										200
205										205
210										210
215										215

# MLC150-1 S-2

ASME B30.5



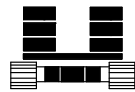
110,500 lb  
+  
35,000 lb



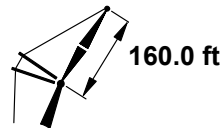
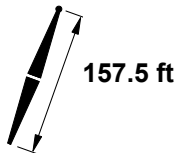
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
59										59
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
116	62.6	292.0	19,500							116
120	60.9	289.8	18,500							120
125	58.7	286.9	17,500							125
130	56.4	283.7	16,500							130
135	54.1	280.2	15,600							135
140	51.7	276.5	14,800	57.8	281.4	12,400				140
145	49.2	272.3	14,000	55.5	278.1	11,700				145
150	46.6	267.8	13,300	53.2	274.5	11,000				150
155	43.9	262.9	12,600	50.7	270.6	10,400				155
160	41.1	257.4	12,000	48.2	266.3	9,900				160
163	39.3	253.8	11,600	46.6	263.5	9,600	53.0	268.8	7,100	163
165	38.1	251.4	11,400	45.6	261.6	9,400	52.0	267.2	6,900	165
167	36.8	248.7	11,200	44.5	259.6	9,200	51.0	265.6	6,700	167
170	34.9	244.6	10,800	42.9	256.5	8,900	49.6	263.2	6,400	170
175	31.4	237.0	10,300	40.0	250.8	8,400	47.0	258.7	6,000	175
180	27.5	228.1	9,800	36.9	244.5	7,900	44.3	253.8	5,600	180
183	24.9	221.8	9,500	34.9	240.3	7,700	42.6	250.6	5,400	183
185	23.1	217.5	9,300	33.6	237.4	7,500	41.5	248.4	5,200	185
190	17.6	204.0	8,900	30.0	229.4	7,000	38.6	242.5	4,900	190
195	9.4	183.1	8,400	25.9	219.9	6,600	35.4	235.8	4,500	195
196	6.6	176.0	8,300	24.9	217.6	6,500	34.7	234.3	4,400	196
200				21.1	208.4	6,200	31.9	228.3	4,200	200
205				14.9	193.1	5,800	28.1	219.7	3,800	205
210				1.6	158.6	5,400	23.7	209.4	3,500	210
215							18.4	196.4	3,200	215

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



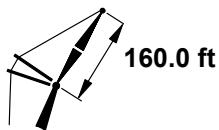
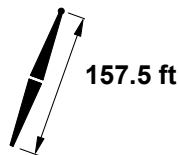
	86°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
63	73.8	317.8	27,700						63	
65	73.0	317.2	27,500						65	
70	71.1	315.6	26,800						70	
75	69.2	313.8	26,200						75	
79	67.7	312.2	25,600	70.8	314.4	26,600			79	
80	67.3	311.8	25,500	70.5	314.0	26,500			80	
85	65.3	309.6	24,700	68.5	312.2	26,400			85	
90	63.4	307.2	24,000	66.6	310.1	26,100			90	
95	61.3	304.6	23,200	64.6	307.8	26,000	67.8	310.1	25,300	95
100	59.3	301.7	22,300	62.6	305.4	25,600	65.9	308.0	25,200	100
105	57.2	298.6	21,500	60.6	302.7	24,900	63.9	305.6	25,100	105
110	55.0	295.3	20,700	58.5	299.7	24,200	61.9	303.1	23,900	110
115	52.8	291.6	20,000	56.4	296.5	23,500	59.8	300.3	22,500	115
120	50.5	287.7	19,200	54.2	293.1	22,600	57.7	297.2	21,200	120
121	50.0	286.8	19,000	53.8	292.3	22,500	57.3	296.6	21,000	121
125	48.2	283.4	18,400	52.0	289.3	21,700	55.6	294.0	20,000	125
130	45.7	278.7	17,700	49.7	285.3	20,600	53.4	290.4	18,900	130
135	43.1	273.6	17,000	47.3	280.8	19,500	51.1	286.5	17,900	135
140	40.5	268.0	16,300	44.8	276.0	18,500	48.8	282.3	17,000	140
145	37.6	261.8	15,700	42.2	270.7	17,600	46.4	277.7	16,100	145
146	37.0	260.4	15,500	41.6	269.6	17,400	45.9	276.7	16,000	146
150	34.6	255.0	15,000	39.5	264.9	16,700	43.8	272.8	15,300	150
155	31.3	247.2	14,400	36.5	258.5	15,900	41.2	267.3	14,600	155
160	27.6	238.4	13,800	33.4	251.4	15,200	38.4	261.3	13,800	160
165	23.5	227.9	13,400	30.0	243.3	14,500	35.4	254.7	13,200	165
170	18.5	214.9	12,900	26.2	233.9	13,800	32.2	247.2	12,600	170
175	11.6	196.2	12,600	21.8	222.7	13,200	28.7	238.7	12,000	175
178	3.2	173.0	12,400	18.5	214.0	12,800	26.3	232.7	11,600	178
180				16.3	208.3	12,500	24.7	228.7	11,400	180
185				7.7	184.8	11,900	20.0	216.5	10,900	185
186				4.3	175.3	11,800	18.7	213.2	10,800	186
190							13.8	200.0	10,400	190
194							5.0	175.8	9,900	194
195										195
200										200
205										205
207										207
210										210
215										215
220										220
221										221

# MLC150-1 S-2

ASME B30.5



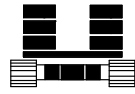
110,500 lb  
+  
35,000 lb



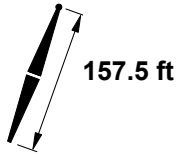
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
63										63
65										65
70										70
75										75
79										79
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
121	62.9	301.1	18,000							121
125	61.2	299.0	17,200							125
130	59.2	296.2	16,200							130
135	57.1	293.0	15,300							135
140	54.9	289.7	14,500							140
145	52.7	286.0	13,700							145
146	52.2	285.2	13,500	57.9	290.0	11,200				146
150	50.4	282.0	13,000	56.2	287.4	10,700				150
155	48.0	277.7	12,300	54.1	284.0	10,100				155
160	45.6	273.0	11,700	51.8	280.2	9,500				160
165	43.0	267.9	11,100	49.5	276.1	8,900				165
170	40.3	262.3	10,500	47.1	271.6	8,400	53.0	276.8	5,900	170
175	37.5	256.1	10,000	44.6	266.8	7,900	50.7	272.8	5,500	175
178	35.6	251.9	9,700	43.0	263.6	7,600	49.3	270.3	5,200	178
180	34.4	249.2	9,500	42.0	261.5	7,500	48.4	268.6	5,100	180
185	31.1	241.4	9,000	39.2	255.6	7,000	45.9	263.9	4,700	185
186	30.4	239.6	9,000	38.6	254.3	6,900	45.4	262.9	4,600	186
190	27.4	232.5	8,600	36.3	249.2	6,600	43.4	258.9	4,400	190
194	24.1	224.0	8,300	33.8	243.4	6,300	41.2	254.4	4,100	194
195	23.3	221.9	8,200	33.2	242.0	6,200	40.7	253.3	4,000	195
200	18.2	208.7	7,800	29.7	233.8	5,800	37.9	247.2	3,700	200
205	11.1	189.6	7,300	25.9	224.3	5,400	34.9	240.4	3,400	205
207	6.4	176.6	7,200	24.1	219.7	5,300	33.5	237.4	3,300	207
210				21.4	212.9	5,100	31.6	232.8	3,100	210
215				15.8	198.1	4,700				215
220				6.6	172.8	4,300				220
221				1.6	158.8	4,200				221

# MLC150-1 S-2

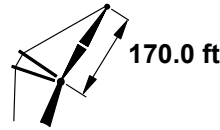
ASME B30.5



110,500 lb  
+  
35,000 lb



157.5 ft

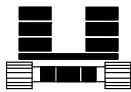


170.0 ft

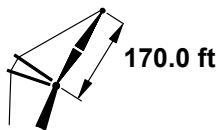
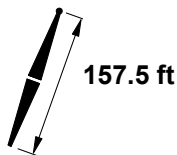
ft	86°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
66	73.7	327.3	24,700							66
70	72.3	326.1	24,600							70
75	70.5	324.4	24,200							75
80	68.7	322.6	23,600							80
82	68.0	321.7	23,300	70.9	323.9	23,700				82
85	66.9	320.5	23,000	69.9	322.9	23,500				85
90	65.0	318.3	22,400	68.1	321.0	23,300				90
95	63.2	315.9	21,700	66.2	318.8	23,100				95
99	61.6	313.8	21,100	64.7	317.0	23,000	67.7	319.3	22,400	99
100	61.3	313.2	21,000	64.4	316.5	22,900	67.4	318.9	22,300	100
105	59.3	310.4	20,300	62.5	314.0	22,800	65.5	316.7	22,300	105
110	57.3	307.3	19,600	60.6	311.3	22,500	63.7	314.3	22,200	110
115	55.3	304.0	19,000	58.6	308.4	21,700	61.8	311.7	22,100	115
120	53.2	300.4	18,300	56.6	305.2	20,700	59.9	308.9	21,000	120
125	51.1	296.5	17,600	54.6	301.8	19,900	57.9	305.9	19,800	125
126	50.7	295.6	17,500	54.2	301.1	19,700	57.5	305.3	19,500	126
130	48.9	292.3	16,900	52.5	298.1	19,000	55.9	302.6	18,700	130
135	46.6	287.7	16,400	50.3	294.1	18,100	53.8	299.1	17,700	135
140	44.3	282.8	15,700	48.1	289.8	17,300	51.7	295.3	16,700	140
145	41.8	277.5	15,100	45.8	285.1	16,500	49.5	291.2	15,900	145
150	39.2	271.6	14,400	43.4	280.0	15,800	47.3	286.8	15,100	150
152	38.1	269.0	14,100	42.4	277.8	15,500	46.3	284.8	14,800	152
155	36.4	265.2	13,700	40.9	274.5	15,000	44.9	282.0	14,300	155
160	33.5	258.0	12,800	38.2	268.5	14,300	42.5	276.7	13,600	160
165	30.3	250.0	12,000	35.4	261.8	13,500	39.9	271.0	13,000	165
170	26.8	240.8	11,200	32.4	254.3	12,600	37.2	264.7	12,300	170
175	22.8	230.0	10,400	29.1	245.9	11,800	34.3	257.8	11,800	175
177	20.8	224.6	10,200	27.6	242.1	11,500	33.1	254.7	11,500	177
180	17.9	216.5	9,800	25.4	236.2	11,000	31.2	250.0	11,200	180
185	11.2	197.2	9,100	21.2	224.6	10,200	27.8	241.2	10,700	185
188	3.1	173.3	8,800	18.0	215.6	9,800	25.5	235.0	10,400	188
190				15.8	209.7	9,500	23.9	230.9	10,200	190
195				7.5	185.5	8,900	19.4	218.3	9,700	195
196				4.2	175.7	8,800	18.2	214.9	9,600	196
200							13.4	201.2	9,200	200
204							4.8	176.2	8,800	204
205										205
210										210
215										215
217										217
220										220
225										225
230										230
231										231

# MLC150-1 S-2

ASME B30.5



110,500 lb  
+  
35,000 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
66										66
70										70
75										75
80										80
82										82
85										85
90										90
95										95
99										99
100										100
105										105
110										110
115										115
120										120
125										125
126	62.7	309.8	16,700							126
130	61.2	307.7	15,900							130
135	59.2	304.8	15,000							135
140	57.2	301.7	14,200							140
145	55.2	298.4	13,400							145
150	53.1	294.8	12,700							150
152	52.3	293.2	12,400	57.7	298.1	10,000				152
155	51.0	290.9	12,000	56.5	296.1	9,700				155
160	48.8	286.7	11,400	54.4	292.7	9,100				160
165	46.5	282.1	10,800	52.3	289.0	8,500				165
170	44.1	277.2	10,300	50.2	284.9	8,000				170
175	41.7	271.8	9,800	47.9	280.6	7,500				175
177	40.6	269.4	9,600	47.0	278.7	7,400	52.6	284.0	4,900	177
180	39.1	265.9	9,300	45.6	275.9	7,100	51.3	281.7	4,700	180
185	36.3	259.4	8,800	43.2	270.8	6,600	49.1	277.5	4,300	185
188	34.5	255.1	8,600	41.7	267.5	6,400	47.7	274.8	4,100	188
190	33.4	252.2	8,400	40.7	265.2	6,200	46.8	273.0	4,000	190
195	30.2	244.1	8,000	38.0	259.1	5,800	44.5	268.1	3,600	195
196	29.4	242.3	7,900	37.4	257.8	5,800	44.0	267.0	3,600	196
200	26.6	234.9	7,600	35.2	252.4	5,500	42.0	262.8	3,300	200
204	23.4	226.1	7,300	32.7	246.4	5,200	39.9	258.1	3,100	204
205	22.6	224.0	7,200	32.1	244.9	5,100	39.4	257.0	3,000	205
210	17.6	210.3	6,800	28.8	236.4	4,700				210
215	10.8	190.5	6,400	25.1	226.6	4,400				215
217	6.2	177.1	6,200	23.4	221.8	4,300				217
220				20.8	214.8	4,100				220
225				15.3	199.4	3,800				225
230				6.4	173.4	3,400				230
231				1.5	158.9	3,300				231