

Liftcrane Luffing Jib Capacities

Luffing Jib No. 135 on
 Boom No. B10:76A
 114,600 lb Crane Counterweight
 0 lb Carbody Counterweight
 360 Degree Rating

MLC200 SERIES 1



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. 80149429, Luffing Jib Rigging No. 80149433, Wire Rope Specification chart No. A030-A, Counterweight Arrangements chart No. A004-A, Luffing Jib Raising Procedure chart No. A032-A, and Wind Conditions chart No. A031-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. A033-A.



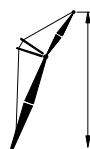
OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle and luffing jib angle are an indication of operating radius. In all cases, operating radius shall govern capacity.



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.



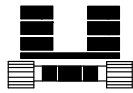
LUFFING JIB POINT ELEVATION: Luffing jib point elevation is vertical distance from ground level to centerline of luffing jib point shaft.

MACHINE EQUIPMENT: Machine equipped with 27 ft 2 in. crawlers, 48 in. treads, 10 ft 3 in. retractable gantry, 27 ft live mast, 20 part boom hoist reeving, boom support straps, 8 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants and backstays.

Explanation of Symbols



Luffing Jib No. 135
+
Boom No. B10:76A



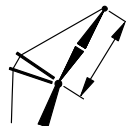
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



Luffing Jib Length



Boom Angle
(see page 1)



Operating Radius
(see page 1)



Luffing Jib Angle
(see page 1)



Luffing Jib Point Elevation
(see page 1)



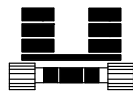
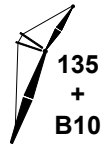
Lifting Capacities
(see page 1)

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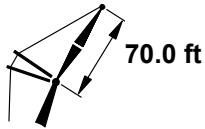
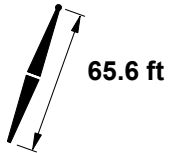
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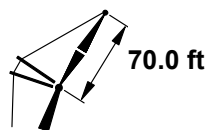
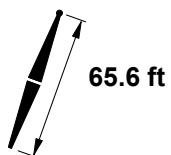
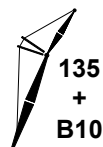
114,600 lb
+
0 lb



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
29	74.8	140.9	118,100 d							29
30	74.0	140.7	118,100 c							30
35	69.7	139.0	114,600 c							35
39	66.1	137.4	109,700 c	70.2	138.7	114,200 c				39
40	65.2	136.9	108,400 b	69.3	138.3	110,300 c				40
45	60.6	134.4	97,000 b	64.8	136.2	94,100 b	67.9	137.0	91,900 b	45
50	55.8	131.3	84,400	60.2	133.6	81,900 b	63.4	134.8	80,000 b	50
55	50.7	127.6	74,600	55.4	130.4	72,400	58.7	132.0	70,700	55
56	49.6	126.7	73,000	54.4	129.7	70,800	57.7	131.3	69,200	56
60	45.2	123.1	66,700	50.2	126.6	64,700	53.8	128.7	63,200	60
65	39.1	117.5	60,200	44.7	122.0	58,400	48.5	124.6	57,000	65
67	36.3	114.7	58,000	42.2	119.8	56,300	46.2	122.7	55,000	67
70	32.1	110.5	54,700	38.5	116.4	53,100	42.8	119.7	51,900	70
75	23.2	101.0	50,100	31.4	109.3	48,600	36.3	113.7	47,500	75
77	17.1	93.8	48,200	27.7	105.3	47,100	33.3	110.5	46,000	77
80	8.0	83.1	45,400	22.3	99.4	44,700	28.7	105.8	43,700	80
85				4.6	78.5	41,200	18.5	94.4	40,400	85
88							7.6	81.4	38,500	88
90										90
94										94
95										95
99										99
100										100
104										104

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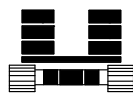
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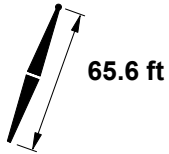
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
29										29
30										30
35										35
39										39
40										40
45										45
50										50
55										55
56	62.9	133.1	66,300 b							56
60	59.2	130.9	60,700							60
65	54.3	127.6	54,800							65
67	52.2	126.0	52,800	57.7	128.0	50,600				67
70	49.1	123.7	49,800	54.7	126.0	47,800				70
75	43.4	118.9	45,600	49.5	122.1	43,800				75
77	40.9	116.5	44,200	47.3	120.2	42,400	52.9	122.3	40,600	77
80	37.1	113.0	42,000	43.9	117.4	40,300	49.8	119.9	38,600	80
85	29.6	105.4	38,800	37.6	111.6	37,300	44.1	115.2	35,700	85
88	23.8	98.9	37,100	33.2	107.1	35,600	40.4	111.8	34,200	88
90	19.8	94.5	36,000	30.3	104.2	34,600	37.9	109.5	33,100	90
94	3.8	75.4	33,800	22.7	95.8	32,600	32.1	103.6	31,300	94
95				20.8	93.7	32,200	30.6	102.2	30,900	95
99				7.2	77.7	30,300	23.1	93.9	29,200	99
100							21.3	91.9	28,800	100
104							8.5	76.8	27,200	104

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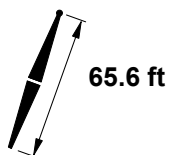
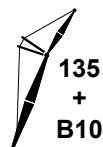
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
32	74.5	150.5	108,200 c							32
35	72.3	149.6	106,100 c							35
40	68.5	147.8	100,400 b							40
42	66.9	146.9	98,400 b	70.5	148.2	103,000 b				42
45	64.6	145.6	95,300 b	68.2	147.1	93,800 b				45
49	61.4	143.6	86,400 b	65.0	145.3	84,100 b	67.7	146.2	81,900 b	49
50	60.6	143.0	84,200	64.2	144.9	81,700	66.9	145.8	79,700 b	50
55	56.4	140.0	74,400	60.2	142.2	72,100	62.9	143.4	70,400	55
60	51.9	136.4	66,500	56.0	139.1	64,500	58.8	140.7	63,000	60
61	51.0	135.5	65,200	55.1	138.4	63,200	58.0	140.0	61,700	61
65	47.2	132.1	60,100	51.5	135.5	58,200	54.6	137.4	56,800	65
70	42.1	127.1	54,700	46.8	131.1	53,000	50.0	133.5	51,700	70
72	39.9	124.6	52,800	44.7	129.1	51,200	48.1	131.7	49,900	72
75	36.5	120.9	50,000	41.7	126.0	48,500	45.2	128.9	47,300	75
80	29.9	113.3	46,100	35.9	119.8	44,600	39.9	123.5	43,600	80
83	25.0	107.1	44,000	32.0	115.1	42,600	36.3	119.5	41,600	83
85	21.7	103.0	42,600	29.3	112.0	41,300	33.9	116.8	40,300	85
90	7.5	83.8	39,000	20.8	101.3	38,300	26.8	108.3	37,400	90
95				4.3	78.9	35,500	17.3	96.0	34,800	95
98							7.1	82.0	33,300	98
100										100
104										104
105										105
109										109
110										110
114										114

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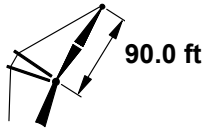
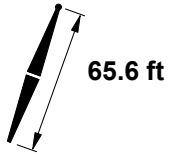
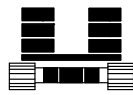
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
35										35
40										40
42										42
45										45
49										49
50										50
55										55
60										60
61	62.6	141.8	59,100							61
65	59.3	139.6	54,500							65
70	55.0	136.3	49,600							70
72	53.2	134.8	47,900	58.0	136.7	45,800				72
75	50.5	132.5	45,400	55.4	134.7	43,500				75
80	45.7	128.1	41,800	50.9	131.0	40,000				80
83	42.6	124.8	39,900	48.0	128.3	38,200	52.9	130.3	36,500	83
85	40.5	122.7	38,700	46.1	126.5	37,000	51.1	128.8	35,400	85
90	34.6	116.2	35,900	40.9	121.3	34,400	46.3	124.4	32,900	90
95	27.7	107.9	33,400	35.1	114.9	32,000	41.2	119.1	30,600	95
98	22.2	100.9	32,100	31.0	110.0	30,700	37.7	115.3	29,400	98
100	18.5	96.2	31,200	28.3	106.8	29,900	35.4	112.8	28,600	100
104	3.6	75.7	29,400	21.2	97.7	28,400	30.0	106.4	27,100	104
105				19.4	95.5	28,000	28.6	104.8	26,800	105
109				6.8	78.3	26,500	21.6	95.9	25,400	109
110							19.9	93.7	25,100	110
114							7.9	77.5	23,800	114

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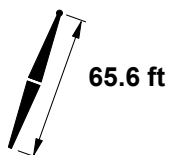
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	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
34	75.0	160.3	94,000 c							34
35	74.3	160.0	92,900 c							35
40	71.0	158.5	88,100 b							40
45	67.6	156.6	83,700 b	70.7	157.8	88,000 b				45
50	64.1	154.3	79,700	67.3	155.8	81,500				50
53	61.9	152.8	76,500	65.2	154.5	75,800	67.5	155.4	73,700 b	53
55	60.5	151.7	74,300	63.8	153.6	72,000	66.2	154.5	70,300	55
60	56.8	148.7	66,400	60.2	150.9	64,300	62.6	152.1	62,800	60
65	52.9	145.1	60,000	56.4	147.8	58,100	59.0	149.3	56,700	65
66	52.1	144.3	58,900	55.6	147.1	57,000	58.2	148.7	55,600	66
70	48.8	141.1	54,600	52.5	144.2	52,800	55.2	146.1	51,600	70
75	44.4	136.3	50,000	48.4	140.1	48,400	51.2	142.3	47,200	75
78	41.5	133.0	47,600	45.7	137.2	46,100	48.7	139.7	45,000	78
80	39.6	130.8	46,000	44.0	135.3	44,600	47.0	138.0	43,500	80
85	34.3	124.1	42,600	39.2	129.7	41,200	42.5	133.0	40,200	85
89	29.4	117.5	40,200	34.9	124.3	38,900	38.5	128.2	37,900	89
90	28.2	115.9	39,600	33.8	122.9	38,300	37.5	127.0	37,400	90
95	20.5	104.8	36,900	27.6	114.5	35,700	31.9	119.8	34,800	95
100	7.0	84.4	34,200	19.6	103.1	33,400	25.3	110.6	32,600	100
105				4.1	79.2	31,100	16.3	97.4	30,500	105
108							6.7	82.6	29,300	108
110										110
114										114
115										115
119										119
120										120
124										124

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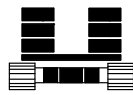
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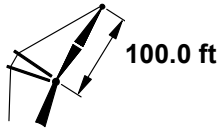
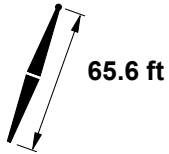
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
35										35
40										40
45										45
50										50
53										53
55										55
60										60
65										65
66	62.3	150.4	53,300							66
70	59.4	148.2	49,400							70
75	55.6	145.0	45,200							75
78	53.2	142.8	43,100	57.4	144.7	41,200				78
80	51.7	141.3	41,600	55.9	143.4	39,800				80
85	47.5	137.1	38,500	52.0	139.8	36,900				85
89	43.9	133.1	36,300	48.6	136.4	34,700	53.0	138.3	33,200	89
90	43.0	132.1	35,800	47.8	135.5	34,200	52.1	137.5	32,700	90
95	38.1	126.3	33,400	43.4	130.6	31,900	48.0	133.4	30,500	95
100	32.6	119.2	31,200	38.5	124.9	29,800	43.6	128.5	28,500	100
105	26.1	110.3	29,200	33.0	117.9	27,900	38.7	122.8	26,700	105
108	20.9	102.8	28,100	29.2	112.7	26,900	35.5	118.6	25,700	108
110	17.5	97.8	27,400	26.6	109.2	26,200	33.3	115.9	25,000	110
114	3.4	76.0	26,000	20.0	99.5	25,000	28.2	109.0	23,800	114
115				18.3	97.1	24,700	26.9	107.3	23,600	115
119				6.4	78.8	23,400	20.4	97.8	22,400	119
120							18.7	95.4	22,200	120
124							7.5	78.2	21,100	124

MLC200 S-1

ASME B30.5



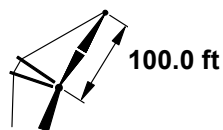
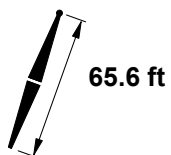
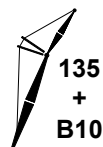
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
37	74.7	169.9	85,300 b							37
40	73.0	169.0	82,600 b							40
45	69.9	167.3	78,400							45
48	68.1	166.1	76,100	70.9	167.3	79,900 b				48
50	66.9	165.3	74,600	69.7	166.6	78,300				50
55	63.7	163.0	71,000	66.6	164.6	71,700				55
57	62.4	162.0	69,100	65.3	163.6	68,700	67.4	164.5	66,800	57
60	60.5	160.4	66,200	63.4	162.2	64,100	65.6	163.2	62,500	60
65	57.1	157.3	59,800	60.2	159.6	57,800	62.4	160.8	56,400	65
70	53.6	153.9	54,400	56.8	156.5	52,600	59.1	158.0	51,300	70
75	50.0	149.9	49,800	53.3	153.0	48,200	55.7	154.8	46,900	75
80	46.1	145.5	45,900	49.6	149.0	44,300	52.1	151.1	43,200	80
83	43.6	142.3	43,800	47.3	146.3	42,400	49.9	148.6	41,300	83
85	42.0	140.3	42,400	45.8	144.5	41,000	48.4	147.0	40,000	85
90	37.5	134.3	39,400	41.6	139.2	38,100	44.4	142.2	37,100	90
95	32.5	127.1	36,800	37.1	133.1	35,500	40.2	136.7	34,600	95
100	26.7	118.3	34,400	32.0	125.9	33,200	35.5	130.3	32,400	100
105	19.4	106.6	32,200	26.1	116.9	31,100	30.2	122.6	30,300	105
110	6.7	85.0	30,000	18.6	104.7	29,200	24.0	112.8	28,500	110
115				3.9	79.6	27,400	15.4	98.8	26,800	115
118							6.3	83.2	25,800	118
120										120
124										124
125										125
129										129
130										130
134										134

MLC200 S-1

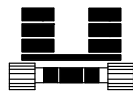
ASME B30.5



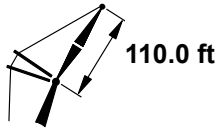
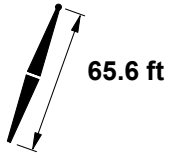
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
37										37
40										40
45										45
48										48
50										50
55										55
57										57
60										60
65										65
70	62.7	159.6	49,100							70
75	59.4	156.9	44,900							75
80	56.1	153.7	41,400							80
83	53.9	151.6	39,500	57.7	153.4	37,700				83
85	52.5	150.1	38,200	56.3	152.1	36,500				85
90	48.8	146.0	35,500	52.8	148.5	33,900				90
95	44.9	141.3	33,100	49.1	144.5	31,600	53.0	146.3	30,100	95
100	40.7	135.9	30,900	45.2	139.8	29,500	49.3	142.3	28,100	100
105	36.1	129.6	29,000	41.0	134.5	27,700	45.4	137.7	26,400	105
110	30.9	122.1	27,200	36.4	128.3	26,000	41.2	132.4	24,800	110
115	24.7	112.6	25,600	31.3	120.8	24,500	36.7	126.2	23,300	115
118	19.8	104.6	24,700	27.7	115.2	23,600	33.6	121.7	22,500	118
120	16.6	99.3	24,100	25.3	111.5	23,100	31.5	118.8	22,000	120
124	3.2	76.3	22,900	18.9	101.3	22,000	26.7	111.4	21,000	124
125				17.4	98.7	21,700	25.5	109.6	20,700	125
129				6.0	79.4	20,700	19.3	99.5	19,800	129
130							17.8	97.0	19,600	130
134							7.1	78.9	18,600	134

MLC200 S-1

ASME B30.5



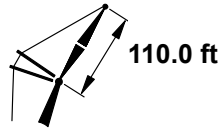
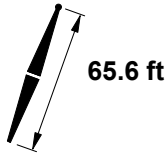
114,600 lb
+
0 lb



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
40	74.5	179.4	77,000 b						40	
45	71.8	177.9	73,600 b						45	
50	69.1	176.1	70,500						50	
52	67.9	175.3	69,300	70.5	176.5	72,300			52	
55	66.2	174.1	67,500	68.8	175.4	70,500			55	
60	63.4	171.7	64,800	66.0	173.3	64,000	67.9	174.1	62,400	60
65	60.4	169.0	59,700	63.1	170.9	57,800	65.1	171.9	56,300	65
70	57.4	166.0	54,300	60.1	168.2	52,500	62.2	169.5	51,200	70
75	54.2	162.6	49,700	57.1	165.2	48,100	59.2	166.6	46,900	75
80	50.9	158.8	45,800	53.9	161.7	44,300	56.1	163.5	43,200	80
85	47.5	154.5	42,400	50.6	157.9	41,000	52.9	159.9	39,900	85
88	45.3	151.5	40,600	48.6	155.2	39,300	50.9	157.5	38,200	88
90	43.9	149.6	39,400	47.2	153.5	38,100	49.5	155.9	37,100	90
95	40.0	144.0	36,800	43.5	148.6	35,500	46.0	151.3	34,600	95
100	35.7	137.6	34,400	39.6	142.9	33,200	42.3	146.2	32,400	100
101	34.8	136.1	34,000	38.7	141.6	32,800	41.5	145.0	32,000	101
105	31.0	130.0	32,300	35.3	136.4	31,200	38.2	140.3	30,400	105
110	25.5	120.7	30,400	30.5	128.7	29,300	33.8	133.4	28,600	110
115	18.5	108.3	28,600	24.9	119.1	27,600	28.8	125.2	26,900	115
120	6.4	85.6	24,900	17.7	106.3	26,100	22.8	114.9	25,400	120
125				3.7	79.9	24,500	14.7	100.1	24,000	125
128							6.0	83.7	23,100	128
130										130
134										134
135										135
139										139
140										140
144										144

MLC200 S-1

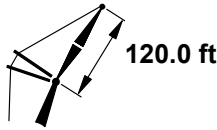
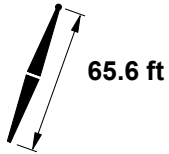
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
40										40
45										45
50										50
52										52
55										55
60										60
65										65
70										70
75	62.5	168.3	44,900							75
80	59.5	165.5	41,300							80
85	56.4	162.4	38,200							85
88	54.5	160.3	36,600	57.9	162.1	34,900				88
90	53.2	158.9	35,500	56.7	160.8	33,900				90
95	49.9	154.9	33,100	53.5	157.3	31,600				95
100	46.4	150.4	30,900	50.2	153.3	29,500				100
101	45.7	149.4	30,500	49.5	152.5	29,100	53.0	154.3	27,700	101
105	42.7	145.4	29,000	46.7	148.9	27,700	50.3	151.2	26,300	105
110	38.7	139.5	27,300	43.0	143.9	26,000	46.9	146.7	24,700	110
115	34.3	132.8	25,700	39.0	138.1	24,500	43.2	141.7	23,300	115
120	29.4	124.7	24,200	34.7	131.5	23,100	39.2	136.0	22,000	120
125	23.5	114.7	22,900	29.8	123.5	21,800	34.9	129.4	20,800	125
128	18.9	106.3	22,200	26.4	117.6	21,100	32.0	124.7	20,100	128
130	15.8	100.7	21,700	24.1	113.7	20,600	30.0	121.5	19,600	130
134	3.0	76.6	20,600	18.0	102.9	19,800	25.5	113.7	18,800	134
135				16.5	100.2	19,500	24.3	111.8	18,600	135
139				5.8	79.9	18,600	18.4	101.2	17,800	139
140							16.9	98.5	17,600	140
144							6.8	79.5	16,800	144

MLC200 S-1

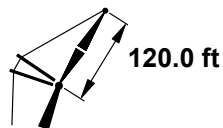
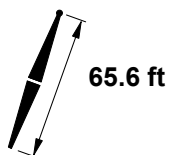
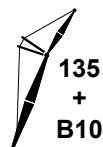
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
42	74.9	189.2	70,200 b							42
45	73.4	188.4	68,300							45
50	70.9	186.8	65,300							50
55	68.3	184.9	62,400	70.6	186.0	65,200				55
60	65.7	182.8	59,800	68.1	184.2	62,400				60
64	63.6	180.9	57,800	66.0	182.4	58,500	67.8	183.3	57,200	64
65	63.1	180.4	57,200	65.5	182.0	57,500	67.3	182.9	56,000	65
70	60.4	177.7	54,100	62.8	179.6	52,300	64.6	180.6	50,900	70
75	57.6	174.7	49,500	60.1	176.9	47,900	62.0	178.1	46,600	75
79	55.3	172.0	46,400	57.9	174.4	44,800	59.8	175.9	43,700	79
80	54.7	171.3	45,600	57.3	173.8	44,100	59.2	175.3	42,900	80
85	51.7	167.6	42,200	54.5	170.5	40,800	56.4	172.2	39,700	85
90	48.6	163.4	39,200	51.5	166.7	37,900	53.5	168.7	36,900	90
94	46.0	159.7	37,100	49.0	163.3	35,800	51.1	165.5	34,900	94
95	45.4	158.8	36,600	48.3	162.5	35,300	50.5	164.7	34,400	95
100	41.9	153.5	34,200	45.1	157.8	33,000	47.3	160.4	32,100	100
105	38.2	147.6	32,100	41.6	152.5	31,000	44.0	155.5	30,100	105
107	36.6	144.8	31,300	40.1	150.0	30,200	42.5	153.3	29,400	107
110	34.1	140.7	30,200	37.8	146.4	29,100	40.4	150.0	28,300	110
115	29.6	132.7	28,400	33.8	139.5	27,400	36.6	143.7	26,700	115
120	24.4	122.9	26,900	29.2	131.3	25,900	32.3	136.4	25,200	120
125	17.7	109.9	25,400	23.8	121.3	24,500	27.6	127.7	23,800	125
130	6.1	86.1	22,000	17.0	107.9	23,200	21.8	116.8	22,500	130
135				3.5	80.2	21,900	14.1	101.4	21,300	135
138							5.8	84.3	20,600	138
140										140
144										144
145										145
149										149
150										150
154										154

MLC200 S-1

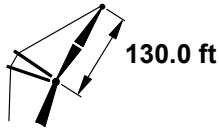
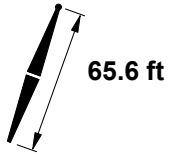
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
42										42
45										45
50										50
55										55
60										60
64										64
65										65
70										70
75										75
79	62.8	177.5	41,700							79
80	62.3	177.0	41,000							80
85	59.5	174.2	37,900							85
90	56.7	171.1	35,200							90
94	54.4	168.3	33,300	57.5	170.1	31,700				94
95	53.8	167.6	32,800	57.0	169.4	31,200				95
100	50.8	163.8	30,700	54.1	166.0	29,200				100
105	47.7	159.4	28,700	51.0	162.2	27,400				105
107	46.3	157.5	28,000	49.8	160.5	26,700	53.0	162.3	25,400	107
110	44.3	154.6	27,000	47.9	157.9	25,700	51.2	160.0	24,400	110
115	40.8	149.2	25,400	44.6	153.1	24,200	48.0	155.7	23,000	115
120	37.0	143.0	24,000	41.1	147.7	22,800	44.7	151.0	21,700	120
125	32.8	135.8	22,700	37.3	141.6	21,600	41.2	145.6	20,500	125
130	28.1	127.3	21,500	33.2	134.5	20,400	37.5	139.5	19,400	130
135	22.5	116.7	20,300	28.5	126.1	19,300	33.4	132.5	18,300	135
138	18.1	107.9	19,700	25.2	119.9	18,700	30.6	127.5	17,800	138
140	15.1	102.1	19,300	23.0	115.8	18,300	28.7	124.2	17,400	140
144	2.9	76.8	18,400	17.3	104.4	17,600	24.4	116.0	16,700	144
145				15.8	101.6	17,400	23.3	113.9	16,500	145
149				5.5	80.4	16,600	17.6	102.8	15,800	149
150							16.2	100.0	15,600	150
154							6.5	80.0	14,900	154

MLC200 S-1

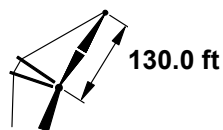
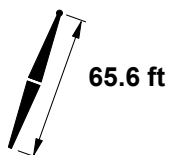
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	74.7	198.8	53,300							45
50	72.4	197.3	52,100							50
55	70.1	195.6	50,900							55
58	68.6	194.4	50,300	70.8	195.6	51,500				58
60	67.7	193.7	49,900	69.9	194.9	51,000				60
65	65.3	191.5	48,800	67.5	192.9	50,100				65
68	63.8	190.0	47,800	66.0	191.6	49,500	67.7	192.5	50,100	68
70	62.9	189.1	47,200	65.1	190.7	49,100	66.7	191.6	49,700	70
75	60.3	186.4	45,300	62.6	188.3	47,200	64.3	189.3	46,400	75
80	57.8	183.4	43,400	60.1	185.5	43,900	61.8	186.8	42,700	80
84	55.7	180.7	42,000	58.1	183.1	41,200	59.8	184.5	40,100	84
85	55.1	180.0	41,600	57.5	182.5	40,600	59.3	184.0	39,500	85
90	52.4	176.4	39,000	54.9	179.2	37,700	56.7	180.8	36,700	90
95	49.6	172.3	36,400	52.2	175.5	35,100	54.0	177.4	34,200	95
99	47.2	168.7	34,500	49.9	172.2	33,300	51.8	174.3	32,400	99
100	46.6	167.8	34,000	49.3	171.4	32,800	51.2	173.6	31,900	100
105	43.5	162.8	31,900	46.3	166.9	30,800	48.4	169.3	29,900	105
110	40.2	157.3	30,000	43.2	161.8	29,000	45.3	164.7	28,100	110
114	37.3	152.2	28,700	40.5	157.3	27,600	42.8	160.5	26,800	114
115	36.6	150.9	28,300	39.9	156.2	27,300	42.1	159.4	26,500	115
120	32.8	143.7	26,700	36.3	149.8	25,800	38.7	153.6	25,000	120
125	28.4	135.3	25,300	32.4	142.5	24,400	35.1	146.9	23,700	125
130	23.4	125.0	24,000	28.0	133.9	23,100	31.0	139.2	22,400	130
135	17.0	111.4	22,700	22.9	123.4	21,900	26.5	130.1	21,200	135
140	5.9	86.6	19,700	16.3	109.3	20,800	21.0	118.7	20,200	140
145				3.4	80.5	19,600	13.5	102.6	19,100	145
148							5.5	84.8	18,500	148
150										150
154										154
155										155
159										159
160										160
164										164

MLC200 S-1

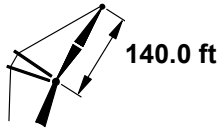
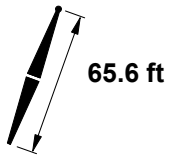
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
45										45
50										50
55										55
58										58
60										60
65										65
68										68
70										70
75										75
80										80
84	62.6	186.2	38,300							84
85	62.1	185.7	37,700							85
90	59.6	182.9	35,000							90
95	57.0	179.8	32,600							95
99	54.8	177.0	30,900	57.7	178.8	29,400				99
100	54.3	176.4	30,400	57.2	178.1	29,000				100
105	51.6	172.6	28,500	54.5	174.7	27,100				105
110	48.7	168.4	26,800	51.8	171.0	25,500				110
114	46.3	164.7	25,600	49.5	167.7	24,300	52.5	169.6	23,000	114
115	45.7	163.8	25,200	48.9	166.8	24,000	51.9	168.8	22,800	115
120	42.5	158.6	23,800	45.9	162.2	22,600	49.0	164.7	21,500	120
125	39.1	152.8	22,500	42.8	157.1	21,400	46.0	160.1	20,300	125
130	35.5	146.2	21,300	39.4	151.4	20,200	42.9	155.0	19,200	130
135	31.5	138.7	20,200	35.8	144.9	19,200	39.6	149.3	18,100	135
140	27.0	129.8	19,200	31.8	137.4	18,200	36.0	142.8	17,200	140
145	21.6	118.7	18,200	27.4	128.6	17,200	32.0	135.4	16,300	145
148	17.4	109.5	17,600	24.2	122.1	16,700	29.4	130.2	15,800	148
150	14.5	103.4	17,300	22.1	117.8	16,400	27.6	126.7	15,500	150
154	2.8	77.1	16,500	16.6	105.9	15,700	23.4	118.1	14,900	154
155				15.2	103.0	15,600	22.4	115.9	14,700	155
159				5.3	80.9	14,900	16.9	104.3	14,100	159
160							15.6	101.4	14,000	160
164							6.2	80.6	13,400	164

MLC200 S-1

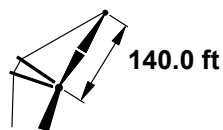
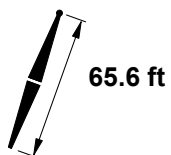
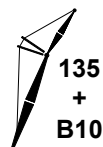
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
47	75.0	208.6	49,500							47
50	73.7	207.7	48,900							50
55	71.5	206.2	47,800							55
60	69.4	204.4	46,900							60
61	68.9	204.0	46,600	70.9	205.1	47,700				61
65	67.2	202.4	45,300	69.2	203.7	47,000				65
70	64.9	200.2	43,400	67.0	201.7	45,300				70
72	64.0	199.2	42,600	66.1	200.8	44,500	67.6	201.6	45,700	72
75	62.7	197.7	41,500	64.7	199.4	43,300	66.3	200.3	44,600	75
80	60.3	195.0	39,800	62.4	196.9	41,500	64.0	198.0	42,400	80
85	57.9	192.0	38,000	60.1	194.2	39,700	61.7	195.5	39,200	85
88	56.5	190.1	37,000	58.7	192.4	38,300	60.3	193.8	37,500	88
90	55.5	188.7	36,400	57.7	191.2	37,400	59.3	192.6	36,400	90
95	53.0	185.1	34,900	55.3	187.9	34,900	56.9	189.5	33,900	95
100	50.4	181.2	33,400	52.7	184.2	32,600	54.5	186.1	31,700	100
104	48.2	177.7	32,000	50.6	181.0	31,000	52.4	183.1	30,100	104
105	47.6	176.8	31,700	50.1	180.3	30,600	51.9	182.4	29,700	105
110	44.8	172.0	29,800	47.4	175.9	28,700	49.3	178.3	27,900	110
115	41.8	166.7	28,100	44.6	171.0	27,000	46.5	173.7	26,300	115
120	38.7	160.8	26,500	41.6	165.7	25,500	43.6	168.7	24,800	120
125	35.3	154.2	25,100	38.4	159.7	24,100	40.5	163.2	23,400	125
130	31.5	146.6	23,800	34.9	153.0	22,900	37.3	157.0	22,200	130
135	27.4	137.8	22,500	31.2	145.3	21,700	33.8	150.0	21,000	135
140	22.5	127.0	21,400	27.0	136.3	20,600	29.9	141.9	20,000	140
145	16.4	112.8	20,300	22.0	125.4	19,500	25.5	132.4	19,000	145
150	5.6	87.1	17,500	15.7	110.7	18,600	20.2	120.5	18,000	150
155				3.3	80.8	17,600	13.0	103.8	17,100	155
158							5.3	85.2	16,600	158
160										160
164										164
165										165
169										169
170										170
174										174

MLC200 S-1

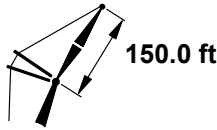
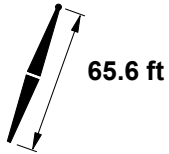
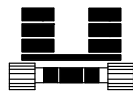
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
47										47
50										50
55										55
60										60
61										61
65										65
70										70
72										72
75										75
80										80
85										85
88	62.9	195.4	35,700							88
90	61.9	194.3	34,700							90
95	59.6	191.5	32,300							95
100	57.2	188.4	30,100							100
104	55.2	185.7	28,600	57.9	187.4	27,200				104
105	54.7	185.1	28,200	57.4	186.8	26,800				105
110	52.2	181.4	26,500	54.9	183.4	25,200				110
115	49.5	177.3	25,000	52.4	179.8	23,700				115
120	46.8	172.8	23,500	49.8	175.7	22,300	52.5	177.6	21,100	120
125	43.9	167.9	22,200	47.0	171.3	21,100	49.9	173.5	19,900	125
130	40.9	162.4	21,000	44.2	166.4	19,900	47.1	169.1	18,800	130
135	37.7	156.3	19,900	41.1	161.0	18,900	44.3	164.2	17,800	135
140	34.2	149.4	18,900	37.9	154.9	17,900	41.3	158.8	16,900	140
145	30.3	141.5	18,000	34.5	148.1	17,000	38.1	152.8	16,000	145
150	26.0	132.1	17,100	30.7	140.2	16,100	34.6	146.0	15,200	150
155	20.8	120.6	16,200	26.4	131.0	15,300	30.8	138.2	14,500	155
158	16.7	111.0	15,700	23.3	124.2	14,900	28.3	132.7	14,000	158
160	14.0	104.6	15,400	21.3	119.7	14,600	26.6	129.1	13,700	160
164	2.7	77.3	14,800	16.0	107.4	14,000	22.5	120.1	13,200	164
165				14.7	104.3	13,900	21.5	117.9	13,100	165
169				5.1	81.3	13,300	16.3	105.7	12,500	169
170							15.0	102.7	12,400	170
174							6.0	81.1	11,900	174

MLC200 S-1

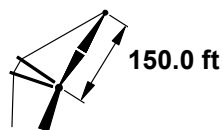
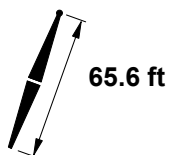
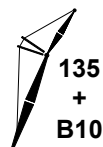
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	74.8	218.1	45,800							50
55	72.8	216.7	44,800							55
60	70.8	215.0	43,800							60
65	68.8	213.2	41,900	70.6	214.3	43,700				65
70	66.7	211.2	40,100	68.6	212.5	41,800				70
75	64.6	208.9	38,300	66.5	210.4	40,000	67.9	211.2	41,100	75
80	62.5	206.4	36,600	64.4	208.1	38,300	65.8	209.1	39,400	80
85	60.3	203.7	35,000	62.3	205.6	36,600	63.7	206.7	37,700	85
90	58.1	200.7	33,400	60.1	202.9	35,000	61.6	204.1	36,000	90
93	56.7	198.7	32,500	58.8	201.1	34,000	60.3	202.4	34,700	93
95	55.8	197.4	31,900	57.9	199.9	33,400	59.4	201.3	33,800	95
100	53.5	193.9	30,500	55.6	196.6	31,900	57.1	198.2	31,600	100
105	51.0	190.0	29,100	53.2	193.0	30,500	54.8	194.8	29,600	105
110	48.5	185.8	27,800	50.8	189.1	28,600	52.5	191.1	27,800	110
115	45.9	181.2	26,600	48.3	184.8	27,000	50.0	187.1	26,200	115
120	43.2	176.1	25,400	45.7	180.2	25,500	47.5	182.7	24,700	120
125	40.4	170.5	24,300	43.0	175.0	24,100	44.8	177.9	23,300	125
126	39.7	169.2	24,100	42.4	173.9	23,800	44.3	176.9	23,100	126
130	37.3	164.3	23,200	40.1	169.4	22,800	42.1	172.7	22,100	130
135	34.0	157.3	22,200	37.0	163.1	21,600	39.1	166.8	21,000	135
140	30.4	149.4	21,300	33.7	156.1	20,500	36.0	160.3	19,900	140
145	26.4	140.1	20,300	30.1	148.1	19,500	32.6	153.0	18,900	145
150	21.8	129.0	19,300	26.0	138.7	18,600	28.8	144.6	18,000	150
155	15.8	114.3	18,400	21.3	127.3	17,700	24.6	134.6	17,100	155
160	5.5	87.6	15,700	15.2	112.1	16,800	19.5	122.3	16,300	160
165				3.2	81.1	16,000	12.6	104.9	15,500	165
168							5.2	85.7	15,000	168
170										170
174										174
175										175
179										179
180										180
184										184

MLC200 S-1

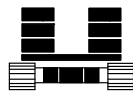
ASME B30.5



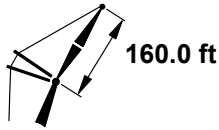
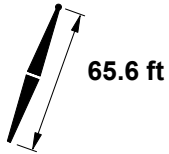
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
93	62.7	204.0	33,100							93
95	61.8	203.0	32,200							95
100	59.6	200.2	30,000							100
105	57.4	197.1	28,100							105
110	55.1	193.8	26,400	57.6	195.5	25,100				110
115	52.7	190.1	24,900	55.3	192.1	23,600				115
120	50.3	186.2	23,500	52.9	188.5	22,200				120
125	47.8	181.8	22,200	50.5	184.6	21,000				125
126	47.2	180.9	21,900	50.0	183.7	20,800	52.5	185.6	19,600	126
130	45.1	177.1	21,000	48.0	180.3	19,900	50.6	182.4	18,800	130
135	42.4	171.8	19,900	45.3	175.5	18,800	48.1	178.1	17,800	135
140	39.4	166.1	18,900	42.6	170.4	17,800	45.5	173.4	16,800	140
145	36.3	159.6	17,900	39.7	164.6	16,900	42.7	168.2	16,000	145
150	33.0	152.4	17,000	36.6	158.3	16,100	39.8	162.5	15,100	150
155	29.3	144.1	16,200	33.3	151.1	15,300	36.7	156.2	14,400	155
160	25.1	134.4	15,400	29.6	142.9	14,600	33.4	149.1	13,700	160
165	20.1	122.4	14,700	25.5	133.3	13,900	29.8	140.9	13,000	165
168	16.2	112.4	14,300	22.5	126.2	13,500	27.3	135.2	12,600	168
170	13.5	105.8	14,000	20.6	121.5	13,200	25.6	131.4	12,400	170
174	2.6	77.6	13,400	15.4	108.7	12,700	21.8	122.1	11,900	174
175				14.2	105.5	12,600	20.8	119.7	11,800	175
179				4.9	81.7	12,000	15.7	107.1	11,300	179
180							14.5	104.0	11,200	180
184							5.8	81.6	10,700	184

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ASME B30.5



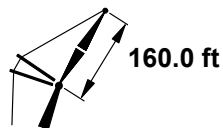
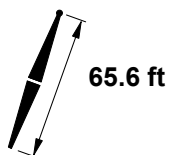
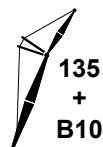
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
53	74.7	227.7	42,100						53	
55	73.9	227.1	41,700						55	
60	72.1	225.6	40,200						60	
65	70.2	223.9	38,400						65	
68	69.0	222.7	37,400	70.7	223.9	39,000			68	
70	68.2	222.0	36,700	70.0	223.2	38,300			70	
75	66.3	219.9	35,000	68.1	221.2	36,600			75	
79	64.7	218.0	33,600	66.5	219.5	35,200	67.8	220.4	36,300	79
80	64.3	217.6	33,300	66.1	219.1	34,900	67.4	220.0	36,000	80
85	62.3	215.1	31,800	64.2	216.8	33,300	65.5	217.8	34,300	85
90	60.3	212.3	30,300	62.1	214.3	31,700	63.5	215.4	32,700	90
95	58.2	209.4	28,800	60.1	211.5	30,200	61.5	212.8	31,200	95
97	57.3	208.1	28,200	59.3	210.3	29,600	60.7	211.6	30,600	97
100	56.1	206.1	27,400	58.0	208.5	28,800	59.4	210.0	29,800	100
105	53.9	202.6	26,100	55.9	205.3	27,400	57.3	206.9	28,300	105
110	51.6	198.8	24,800	53.7	201.7	26,000	55.2	203.5	27,000	110
115	49.3	194.7	23,600	51.4	197.9	24,800	53.0	199.9	25,700	115
120	46.9	190.2	22,400	49.1	193.7	23,600	50.7	196.0	24,400	120
125	44.4	185.3	21,400	46.7	189.2	22,400	48.3	191.7	23,100	125
130	41.8	180.0	20,300	44.2	184.3	21,400	45.9	187.1	21,900	130
132	40.7	177.6	19,900	43.1	182.1	20,900	44.9	185.0	21,400	132
135	39.0	174.1	19,400	41.5	178.9	20,300	43.3	182.0	20,700	135
140	36.1	167.6	18,400	38.8	173.0	19,300	40.7	176.4	19,700	140
145	32.9	160.3	17,500	35.8	166.4	18,400	37.8	170.3	18,700	145
150	29.5	152.1	16,700	32.6	159.1	17,600	34.8	163.5	17,800	150
155	25.6	142.5	15,900	29.1	150.7	16,700	31.5	155.8	16,900	155
160	21.1	130.9	15,300	25.2	140.9	15,900	27.9	147.1	16,100	160
165	15.3	115.6	14,400	20.6	129.1	15,200	23.8	136.8	15,300	165
170	5.3	88.1	13,600	14.7	113.4	14,300	18.9	124.0	14,600	170
175				3.1	81.4	13,600	12.2	106.0	13,900	175
178							5.0	86.1	13,500	178
180										180
184										184
185										185
189										189
190										190
194										194

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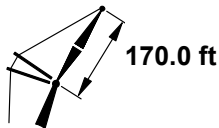
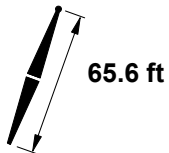
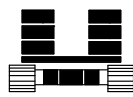
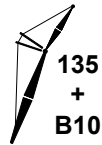
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
53										53
55										55
60										60
65										65
68										68
70										70
75										75
79										79
80										80
85										85
90										90
95										95
97	62.9	213.2	31,000							97
100	61.7	211.7	29,800							100
105	59.7	208.8	27,900							105
110	57.6	205.8	26,100							110
115	55.4	202.5	24,600	57.7	204.1	23,300				115
120	53.2	198.9	23,200	55.6	200.8	21,900				120
125	50.9	195.0	21,900	53.4	197.3	20,700				125
130	48.6	190.8	20,700	51.1	193.4	19,600				130
132	47.6	188.9	20,300	50.2	191.7	19,100	52.6	193.6	18,000	132
135	46.2	186.2	19,600	48.8	189.2	18,500	51.2	191.2	17,400	135
140	43.6	181.1	18,600	46.4	184.6	17,500	48.9	187.0	16,500	140
145	41.0	175.6	17,600	43.8	179.6	16,600	46.5	182.5	15,600	145
150	38.1	169.6	16,800	41.2	174.2	15,800	43.9	177.5	14,800	150
155	35.1	162.9	16,000	38.4	168.2	15,000	41.3	172.1	14,100	155
160	31.9	155.3	15,200	35.4	161.5	14,300	38.5	166.1	13,400	160
165	28.3	146.7	14,500	32.2	154.0	13,600	35.5	159.4	12,700	165
170	24.3	136.6	13,800	28.6	145.5	12,900	32.3	152.0	12,100	170
175	19.5	124.1	13,100	24.6	135.5	12,300	28.8	143.5	11,500	175
178	15.6	113.8	12,800	21.8	128.2	12,000	26.4	137.6	11,200	178
180	13.1	107.0	12,500	19.9	123.3	11,700	24.8	133.6	11,000	180
184	2.5	77.8	12,000	14.9	110.1	11,300	21.1	123.9	10,600	184
185				13.7	106.8	11,200	20.1	121.5	10,400	185
189				4.8	82.2	10,700	15.2	108.5	10,000	189
190							14.0	105.3	9,900	190
194							5.6	82.1	9,500	194

MLC200 S-1

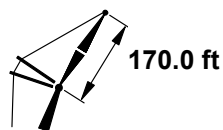
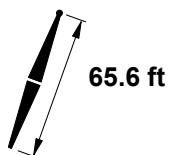
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	74.9	237.5	38,800							55
60	73.1	236.1	37,200							60
65	71.4	234.5	35,400							65
70	69.6	232.7	33,800							70
71	69.2	232.3	33,400	70.9	233.4	35,000				71
75	67.8	230.7	32,200	69.4	232.0	33,700				75
80	65.9	228.6	30,600	67.6	230.0	32,100				80
83	64.8	227.2	29,800	66.5	228.7	31,200	67.7	229.5	32,100	83
85	64.1	226.3	29,200	65.8	227.8	30,500	67.0	228.7	31,500	85
90	62.2	223.7	27,700	63.9	225.5	29,100	65.2	226.5	30,000	90
95	60.3	221.0	26,300	62.0	222.9	27,700	63.3	224.1	28,600	95
100	58.3	218.0	25,000	60.1	220.2	26,300	61.4	221.4	27,200	100
102	57.5	216.7	24,500	59.3	219.0	25,700	60.6	220.3	26,700	102
105	56.3	214.8	23,800	58.1	217.2	24,900	59.5	218.6	25,900	105
110	54.3	211.3	22,500	56.1	214.0	23,700	57.5	215.5	24,500	110
115	52.2	207.6	21,300	54.1	210.5	22,500	55.5	212.2	23,300	115
120	50.0	203.6	20,200	52.0	206.7	21,300	53.4	208.7	22,200	120
125	47.7	199.2	19,200	49.8	202.6	20,200	51.3	204.8	21,000	125
130	45.4	194.5	18,200	47.5	198.2	19,200	49.1	200.6	19,900	130
135	43.0	189.3	17,200	45.2	193.5	18,200	46.8	196.1	18,900	135
138	41.5	186.0	16,600	43.8	190.4	17,600	45.4	193.2	18,300	138
140	40.5	183.7	16,300	42.8	188.3	17,200	44.4	191.2	17,900	140
145	37.8	177.6	15,500	40.2	182.6	16,300	42.0	185.9	16,900	145
150	35.0	170.8	14,600	37.6	176.4	15,400	39.4	180.1	16,000	150
155	31.9	163.2	13,900	34.7	169.6	14,700	36.7	173.7	15,200	155
160	28.6	154.6	13,100	31.6	161.9	13,800	33.7	166.6	14,400	160
165	24.8	144.7	12,100	28.2	153.2	13,000	30.6	158.6	13,600	165
170	20.4	132.7	11,200	24.4	143.1	12,000	27.1	149.5	12,700	170
175	14.9	117.0	10,400	20.0	130.9	11,100	23.1	138.8	11,800	175
180	5.1	88.6	9,700	14.3	114.7	10,400	18.3	125.6	10,900	180
185				3.0	81.6	9,700	11.8	107.0	10,200	185
188							4.9	86.6	9,700	188
190										190
194										194
195										195
199										199
200										200
204										204

MLC200 S-1

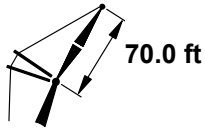
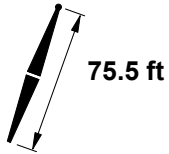
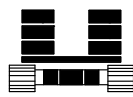
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
55										55
60										60
65										65
70										70
71										71
75										75
80										80
83										83
85										85
90										90
95										95
100										100
102	62.8	221.9	28,000							102
105	61.6	220.3	27,300							105
110	59.7	217.5	25,900							110
115	57.7	214.5	24,400							115
120	55.7	211.2	22,900	57.9	212.8	21,700				120
125	53.6	207.6	21,700	55.8	209.5	20,500				125
130	51.5	203.8	20,500	53.8	206.0	19,300				130
135	49.3	199.7	19,400	51.7	202.2	18,300				135
138	47.9	197.0	18,800	50.4	199.7	17,700	52.6	201.6	16,600	138
140	47.0	195.2	18,400	49.5	198.1	17,300	51.8	200.0	16,300	140
145	44.7	190.3	17,400	47.2	193.7	16,400	49.6	195.9	15,400	145
150	42.3	185.1	16,600	44.9	188.8	15,600	47.3	191.5	14,600	150
155	39.7	179.3	15,800	42.5	183.6	14,800	45.0	186.7	13,900	155
160	37.0	173.0	15,000	39.9	177.9	14,100	42.6	181.5	13,200	160
165	34.1	166.0	14,300	37.2	171.6	13,400	40.0	175.8	12,500	165
170	30.9	158.1	13,600	34.3	164.6	12,700	37.3	169.5	11,900	170
175	27.5	149.2	12,800	31.2	156.9	12,100	34.4	162.6	11,300	175
180	23.6	138.7	11,900	27.8	148.0	11,600	31.3	154.9	10,800	180
185	18.9	125.8	11,100	23.9	137.7	11,000	27.9	146.1	10,300	185
188	15.2	115.2	10,600	21.1	130.1	10,700	25.6	139.9	10,000	188
190	12.7	108.1	10,300	19.3	125.1	10,500	24.1	135.8	9,800	190
194	2.4	78.0	9,800	14.5	111.4	10,100	20.4	125.8	9,400	194
195				13.3	107.9	10,000	19.5	123.3	9,300	195
199				4.6	82.6	9,600	14.8	109.8	8,900	199
200							13.6	106.5	8,800	200
204							5.5	82.6	8,400	204

MLC200 S-1

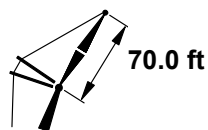
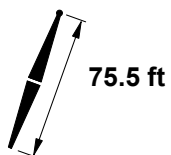
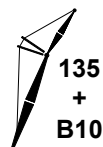
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
30	74.4	150.6	116,100 d							30
35	70.1	149.0	114,700 c							35
40	65.7	147.0	108,600 b	70.3	148.5	109,700 c				40
45	61.1	144.5	97,000 b	65.9	146.5	93,600 b				45
47	59.2	143.3	91,900 b	64.1	145.5	88,700 b	67.6	146.6	86,000 b	47
50	56.3	141.5	84,400	61.3	144.0	81,500 b	64.9	145.3	79,200 b	50
55	51.3	137.8	74,600	56.6	141.0	72,000	60.3	142.7	70,000 b	55
59	46.9	134.3	68,300	52.5	138.1	65,900	56.4	140.2	64,100 b	59
60	45.8	133.4	66,700	51.5	137.4	64,400	55.5	139.6	62,600	60
65	39.8	128.0	60,200	46.1	133.0	58,100	50.3	135.8	56,500	65
70	32.9	121.2	54,800	40.1	127.6	52,800	44.8	131.2	51,400	70
71	31.1	119.3	53,800	38.7	126.3	52,000	43.6	130.1	50,500	71
75	24.3	112.0	50,100	33.2	120.9	48,400	38.6	125.6	47,100	75
80	10.6	96.1	46,000	24.7	111.9	44,500	31.5	118.5	43,300	80
81	4.3	88.4	44,800	22.1	108.8	43,800	29.7	116.5	42,700	81
82				19.5	105.8	43,100	27.9	114.5	42,000	82
85				11.6	96.7	41,100	22.5	108.7	40,000	85
86				6.3	90.3	40,400	19.1	104.6	39,400	86
90							5.5	88.5	37,000	90
95										95
96										96
100										100
102										102
105										105
108										108

MLC200 S-1

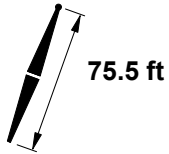
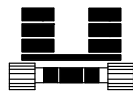
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
30										30
35										35
40										40
45										45
47										47
50										50
55										55
59	62.5	142.4	61,000 b							59
60	61.6	141.8	59,700 b							60
65	56.8	138.9	53,900							65
70	51.8	135.3	49,000							70
71	50.7	134.4	48,200	57.0	136.8	45,800				71
75	46.4	130.9	44,900	53.1	134.1	42,700				75
80	40.4	125.7	41,300	47.7	129.9	39,300				80
81	39.1	124.3	40,700	46.6	128.9	38,700				81
82	37.7	123.0	40,100	45.4	127.9	38,100	52.0	130.6	36,100	82
85	33.6	119.0	38,200	41.9	124.9	36,300	48.8	128.1	34,500	85
86	31.9	117.2	37,600	40.6	123.6	35,800	47.7	127.1	34,000	86
90	25.3	110.2	35,400	35.4	118.6	33,700	43.2	123.3	32,000	90
95	12.7	95.6	32,900	27.5	110.5	31,400	36.8	117.3	29,800	95
96	8.1	90.2	32,400	25.3	108.0	31,000	35.3	115.8	29,400	96
100				16.6	98.1	29,300	29.3	109.6	27,800	100
102				9.3	89.4	28,400	25.3	105.2	27,100	102
105							19.3	98.5	26,000	105
108							9.3	86.8	24,900	108

MLC200 S-1

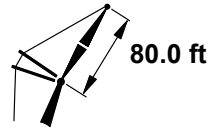
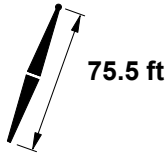
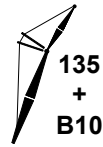
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
32	74.9	160.5	105,800 c							32
35	72.7	159.6	105,700 c							35
40	68.9	157.8	100,400 b							40
43	66.6	156.6	97,400 b	70.6	158.1	99,200 b				43
45	65.0	155.7	95,300 b	69.1	157.3	93,300 b				45
50	61.0	153.2	84,200	65.2	155.2	81,200 b				50
51	60.1	152.6	82,300	64.4	154.7	79,300 b	67.5	155.8	76,900 b	51
55	56.8	150.1	74,400	61.2	152.7	71,700	64.3	154.0	69,700 b	55
60	52.4	146.6	66,500	57.0	149.7	64,100	60.3	151.4	62,300	60
64	48.7	143.2	61,400	53.5	146.9	59,100	56.9	148.9	57,500	64
65	47.7	142.4	60,100	52.6	146.2	57,900	56.0	148.3	56,300	65
70	42.7	137.4	54,700	48.0	142.0	52,700	51.6	144.6	51,200	70
75	37.1	131.5	50,100	42.9	137.1	48,200	46.9	140.3	46,900	75
76	35.8	130.0	49,300	41.8	135.9	47,500	45.9	139.3	46,100	76
80	30.7	124.0	46,100	37.4	131.2	44,400	41.8	135.2	43,100	80
85	22.7	114.1	42,600	31.0	123.8	41,100	36.1	129.0	39,900	85
88	15.0	103.8	40,700	26.3	117.9	39,300	32.1	124.3	38,200	88
90	9.9	97.0	39,500	23.1	114.0	38,100	29.4	121.2	37,100	90
91	4.0	88.8	38,800	20.7	110.7	37,600	27.7	119.1	36,500	91
95				10.8	97.6	35,400	21.0	110.6	34,500	95
96				5.9	90.8	34,900	17.8	106.3	34,000	96
100							5.1	89.0	32,100	100
105										105
106										106
110										110
112										112
115										115
118										118

MLC200 S-1

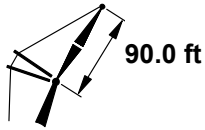
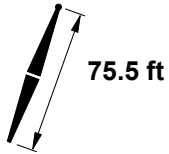
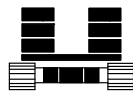
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
35										35
40										40
43										43
45										45
50										50
51										51
55										55
60										60
64	62.2	151.1	54,600							64
65	61.4	150.5	53,600							65
70	57.2	147.5	48,700							70
75	52.9	144.1	44,600							75
76	51.9	143.2	43,900	57.4	145.5	41,600				76
80	48.2	139.9	41,100	54.0	142.8	39,000				80
85	43.2	135.1	38,000	49.4	138.8	36,000				85
88	39.9	131.5	36,300	46.4	136.0	34,500	52.2	138.6	32,600	88
90	37.7	129.2	35,300	44.5	134.2	33,500	50.3	137.0	31,700	90
91	36.4	127.7	34,800	43.4	133.0	33,000	49.4	136.1	31,300	91
95	31.4	121.9	32,800	39.1	128.6	31,200	45.5	132.5	29,500	95
96	29.8	120.0	32,400	37.9	127.2	30,800	44.4	131.4	29,100	96
100	23.6	112.3	30,700	33.0	121.7	29,100	40.2	127.1	27,600	100
105	11.8	96.7	28,600	25.7	112.8	27,300	34.3	120.5	25,800	105
106	7.6	90.8	28,200	23.7	110.2	26,900	32.9	118.8	25,500	106
110				15.5	99.5	25,500	27.3	112.1	24,200	110
112				8.7	90.2	24,800	23.6	107.3	23,600	112
115							18.0	100.2	22,700	115
118							8.7	87.6	21,800	118

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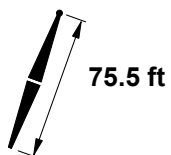
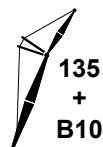
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
35	74.7	170.0	92,800 c							35
40	71.3	168.5	88,100 b							40
45	67.9	166.6	83,800 b							45
46	67.2	166.2	83,000 b	70.8	167.6	87,800 b				46
50	64.5	164.4	79,800	68.1	166.1	81,000 b				50
55	60.9	161.8	74,300	64.6	163.9	71,600	67.3	164.9	69,600 b	55
60	57.2	158.8	66,400	61.0	161.3	64,000	63.8	162.7	62,200	60
65	53.3	155.4	60,000	57.3	158.4	57,800	60.2	160.0	56,100	65
68	50.8	152.9	56,700	55.0	156.3	54,600	58.0	158.2	53,100	68
70	49.2	151.3	54,600	53.5	154.9	52,500	56.5	156.9	51,000	70
75	44.9	146.7	50,000	49.4	150.9	48,100	52.6	153.4	46,700	75
80	40.1	141.2	46,000	45.1	146.3	44,300	48.5	149.3	43,000	80
81	39.1	139.9	45,400	44.1	145.2	43,700	47.6	148.3	42,400	81
85	34.9	134.7	42,600	40.4	140.9	41,000	44.1	144.5	39,800	85
90	28.9	126.7	39,600	35.2	134.4	38,100	39.3	138.9	37,000	90
94	22.9	118.1	37,400	30.4	128.1	36,000	35.0	133.5	35,000	94
95	21.4	116.0	36,900	29.2	126.5	35,500	33.9	132.1	34,500	95
100	9.3	97.8	34,400	21.8	116.0	33,200	27.7	123.7	32,200	100
101	3.8	89.1	33,900	19.5	112.5	32,800	26.1	121.5	31,800	101
105				10.2	98.6	31,000	19.8	112.4	30,200	105
106				5.6	91.3	30,600	16.8	107.8	29,800	106
110							4.8	89.4	28,200	110
115										115
116										116
120										120
122										122
125										125
128										128

MLC200 S-1

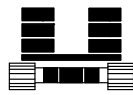
ASME B30.5



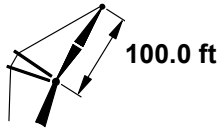
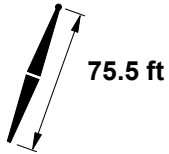
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
35										35
40										40
45										45
46										46
50										50
55										55
60										60
65										65
68	62.7	160.2	50,400							68
70	61.2	159.2	48,500							70
75	57.5	156.2	44,400							75
80	53.7	152.8	40,900							80
81	52.9	152.0	40,300	57.7	154.2	38,200				81
85	49.6	148.8	37,800	54.6	151.5	35,900				85
90	45.3	144.3	35,100	50.6	147.7	33,300				90
94	41.6	140.0	33,200	47.2	144.2	31,500	52.3	146.6	29,800	94
95	40.6	138.9	32,700	46.4	143.3	31,000	51.5	145.8	29,300	95
100	35.5	132.5	30,600	41.8	138.1	29,000	47.3	141.5	27,400	100
101	34.3	130.9	30,200	40.8	136.9	28,600	46.4	140.5	27,100	101
105	29.5	124.7	28,700	36.8	132.0	27,200	42.8	136.5	25,700	105
106	28.1	122.6	28,300	35.6	130.5	26,800	41.8	135.3	25,400	106
110	22.3	114.4	26,900	31.1	124.6	25,500	37.8	130.6	24,100	110
115	11.2	97.7	25,300	24.2	115.0	24,000	32.3	123.5	22,700	115
116	7.2	91.5	24,900	22.3	112.2	23,700	31.0	121.7	22,400	116
120				14.6	100.9	22,600	25.7	114.5	21,400	120
122				8.2	90.9	22,000	22.2	109.4	20,900	122
125							17.0	101.7	20,100	125
128							8.2	88.3	19,400	128

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ASME B30.5



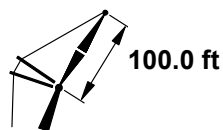
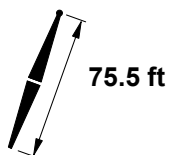
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
38	74.5	179.5	84,300 c						38	
40	73.3	179.0	82,600 b						40	
45	70.2	177.3	78,400 b						45	
49	67.8	175.8	75,300 b	71.0	177.1	79,600 b			49	
50	67.2	175.4	74,600	70.4	176.8	78,900 b			50	
55	64.0	173.1	71,100	67.3	174.9	71,300			55	
58	62.1	171.5	68,200	65.4	173.5	66,800	67.9	174.5	64,600	58
60	60.8	170.5	66,200	64.2	172.6	63,700	66.6	173.7	61,900	60
65	57.5	167.5	59,800	60.9	170.0	57,500	63.5	171.4	55,800	65
70	54.0	164.1	54,400	57.6	167.0	52,300	60.2	168.7	50,800	70
73	51.8	161.8	51,600	55.5	165.0	49,600	58.2	166.8	48,200	73
75	50.4	160.2	49,800	54.2	163.6	47,900	56.9	165.6	46,500	75
80	46.5	155.8	45,900	50.5	159.8	44,100	53.4	162.1	42,800	80
85	42.4	150.7	42,400	46.7	155.4	40,800	49.7	158.2	39,600	85
86	41.5	149.5	41,800	45.9	154.4	40,200	48.9	157.2	39,000	86
90	38.0	144.8	39,400	42.6	150.3	37,900	45.8	153.6	36,700	90
95	33.1	137.8	36,800	38.2	144.5	35,300	41.7	148.4	34,300	95
100	27.4	129.2	34,400	33.3	137.5	33,000	37.2	142.3	32,000	100
105	20.3	117.9	32,200	27.7	129.0	31,000	32.1	135.1	30,000	105
110	8.9	98.6	30,200	20.7	117.9	29,100	26.3	126.1	28,200	110
111	3.6	89.4	29,800	18.5	114.2	28,700	24.8	123.7	27,900	111
115				9.7	99.4	27,300	18.8	114.1	26,500	115
116				5.3	91.8	27,000	15.9	109.2	26,200	116
120							4.6	89.8	24,900	120
125										125
126										126
130										130
132										132
135										135
138										138

MLC200 S-1

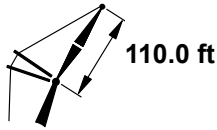
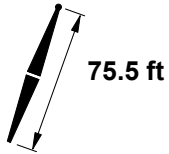
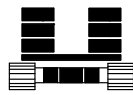
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
49										49
50										50
55										55
58										58
60										60
65										65
70										70
73	62.4	168.9	45,700							73
75	61.1	167.8	44,100							75
80	57.8	164.9	40,600							80
85	54.3	161.5	37,500							85
86	53.6	160.8	37,000	57.9	162.9	35,000				86
90	50.7	157.7	34,800	55.2	160.2	33,000				90
95	46.9	153.3	32,500	51.6	156.5	30,700				95
100	42.9	148.3	30,400	47.9	152.3	28,700	52.4	154.6	27,100	100
105	38.5	142.5	28,400	43.9	147.4	26,900	48.6	150.5	25,400	105
110	33.6	135.6	26,700	39.6	141.8	25,200	44.7	145.8	23,800	110
111	32.5	133.9	26,400	38.6	140.5	25,000	43.9	144.7	23,500	111
115	28.0	127.2	25,100	34.8	135.2	23,800	40.5	140.3	22,400	115
116	26.6	125.0	24,900	33.8	133.6	23,500	39.5	139.0	22,100	116
120	21.1	116.3	23,700	29.5	127.3	22,400	35.8	134.0	21,100	120
125	10.6	98.6	22,300	23.0	117.1	21,100	30.6	126.3	19,900	125
126	6.8	92.1	22,000	21.1	114.1	20,900	29.4	124.4	19,700	126
130				13.9	102.1	19,900	24.4	116.7	18,800	130
132				7.8	91.6	19,400	21.1	111.3	18,400	132
135							16.1	103.2	17,700	135
138							7.8	89.0	17,100	138

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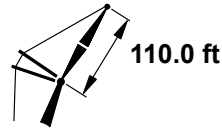
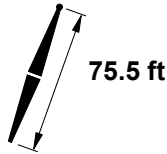
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
40	74.8	189.4	76,700 b						40	
45	72.1	187.9	73,500 b						45	
50	69.3	186.1	70,300						50	
53	67.7	184.9	68,600	70.6	186.3	71,900			53	
55	66.5	184.1	67,500	69.5	185.6	70,800			55	
60	63.7	181.8	64,800	66.7	183.6	63,600			60	
62	62.5	180.7	62,800	65.5	182.7	61,200	67.7	183.7	59,200	
65	60.7	179.2	59,700	63.8	181.3	57,400	66.0	182.4	55,700	
70	57.7	176.2	54,300	60.9	178.7	52,200	63.2	180.0	50,700	
75	54.6	172.8	49,700	57.8	175.7	47,800	60.2	177.3	46,400	
77	53.2	171.3	48,200	56.6	174.4	46,300	59.0	176.1	44,900	
80	51.3	169.0	45,800	54.7	172.4	44,000	57.1	174.3	42,700	
85	47.9	164.8	42,400	51.4	168.6	40,800	54.0	170.9	39,500	
90	44.2	160.0	39,400	48.0	164.4	37,900	50.7	167.0	36,700	
92	42.7	157.8	38,400	46.6	162.4	36,900	49.3	165.3	35,700	
95	40.4	154.5	36,800	44.4	159.6	35,300	47.2	162.7	34,200	
100	36.2	148.1	34,400	40.6	154.1	33,000	43.6	157.7	32,000	
105	31.5	140.7	32,300	36.4	147.8	31,000	39.7	152.1	30,000	
106	30.4	138.8	31,900	35.4	146.3	30,600	38.8	150.8	29,700	
110	26.1	131.6	30,400	31.7	140.4	29,200	35.4	145.6	28,200	
115	19.3	119.6	28,600	26.4	131.4	27,500	30.6	137.9	26,600	
120	8.5	99.4	26,900	19.7	119.6	25,900	25.0	128.4	25,100	
121	3.4	89.7	25,000	17.6	115.8	25,600	23.6	125.9	24,800	
125				9.2	100.3	24,400	17.9	115.7	23,700	
126				5.1	92.3	24,100	15.2	110.6	23,400	
130							4.4	90.2	22,400	
135									135	
136									136	
140									140	
142									142	
145									145	
148									148	

MLC200 S-1

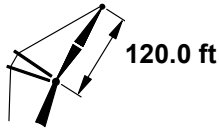
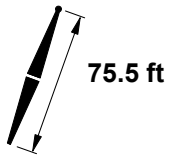
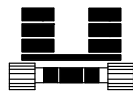
ASME B30.5



ft	75°			70°			65°			ft
	ft	lb	lb	ft	lb	lb	ft	lb	lb	
40										40
45										45
50										50
53										53
55										55
60										60
62										62
65										65
70										70
75										75
77	62.8	178.1	42,600							77
80	61.0	176.5	40,500							80
85	58.0	173.6	37,500							85
90	54.9	170.2	34,800							90
92	53.6	168.7	33,900	57.5	170.9	32,000				92
95	51.6	166.5	32,400	55.6	168.9	30,700				95
100	48.2	162.3	30,300	52.4	165.3	28,700				100
105	44.6	157.5	28,400	49.1	161.2	26,900				105
106	43.9	156.4	28,100	48.4	160.3	26,500	52.4	162.6	25,000	106
110	40.8	152.1	26,700	45.5	156.6	25,200	49.8	159.4	23,800	110
115	36.6	145.9	25,200	41.7	151.3	23,800	46.3	154.9	22,400	115
120	32.0	138.5	23,800	37.7	145.3	22,400	42.5	149.8	21,100	120
121	30.9	136.8	23,500	36.8	143.9	22,200	41.7	148.6	20,900	121
125	26.7	129.6	22,500	33.2	138.3	21,200	38.5	143.9	19,900	125
126	25.4	127.3	22,200	32.1	136.6	20,900	37.6	142.5	19,700	126
130	20.1	118.1	21,200	28.1	129.8	20,000	34.1	137.1	18,800	130
135	10.1	99.5	20,100	21.9	119.1	19,000	29.2	129.0	17,800	135
136	6.5	92.7	19,800	20.2	115.9	18,800	28.0	126.9	17,600	136
140				13.2	103.3	17,900	23.2	118.8	16,900	140
142				7.4	92.3	17,500	20.1	113.1	16,500	142
145							15.4	104.5	16,000	145
148							7.5	89.7	15,500	148

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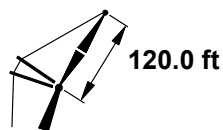
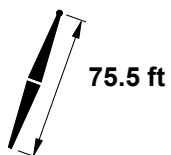
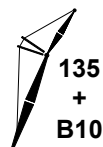
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
43	74.6	198.9	69,400 b							43
45	73.6	198.3	68,100 b							45
50	71.1	196.8	65,200							50
55	68.6	194.9	62,400							55
56	68.1	194.5	61,900	70.7	195.9	64,900				56
60	66.0	192.8	59,800	68.7	194.4	62,800				60
65	63.4	190.5	57,300	66.1	192.3	57,200				65
66	62.8	189.9	56,700	65.6	191.9	56,100	67.6	192.9	54,400	66
70	60.7	187.8	54,100	63.5	190.0	52,000	65.5	191.1	50,400	70
75	57.9	184.8	49,500	60.8	187.3	47,600	62.9	188.7	46,100	75
80	55.0	181.5	45,600	58.0	184.4	43,800	60.2	186.0	42,400	80
82	53.8	180.0	44,200	56.9	183.1	42,500	59.1	184.8	41,200	82
85	52.0	177.8	42,200	55.2	181.1	40,500	57.4	183.0	39,200	85
90	49.0	173.7	39,200	52.2	177.4	37,600	54.5	179.6	36,400	90
95	45.7	169.1	36,600	49.1	173.3	35,100	51.5	175.8	34,000	95
97	44.3	167.0	35,600	47.8	171.5	34,200	50.3	174.1	33,100	97
100	42.3	163.9	34,200	45.9	168.7	32,800	48.4	171.6	31,800	100
105	38.6	158.0	32,100	42.4	163.6	30,800	45.1	166.9	29,800	105
110	34.6	151.3	30,200	38.8	157.7	28,900	41.6	161.6	28,000	110
112	32.8	148.1	29,500	37.2	155.0	28,300	40.1	159.2	27,400	112
115	30.1	143.4	28,400	34.8	151.0	27,300	37.9	155.6	26,400	115
120	24.9	133.8	26,900	30.3	143.2	25,700	33.8	148.7	24,900	120
125	18.5	121.3	25,400	25.2	133.7	24,300	29.3	140.6	23,500	125
130	8.1	100.1	24,000	18.8	121.3	23,000	23.9	130.6	22,300	130
131	3.3	90.0	22,200	16.8	117.3	22,800	22.6	127.9	22,000	131
135				8.8	101.0	21,800	17.1	117.2	21,100	135
136				4.8	92.7	21,500	14.5	111.9	20,900	136
140							4.2	90.6	19,900	140
145										145
146										146
150										150
152										152
155										155
158										158

MLC200 S-1

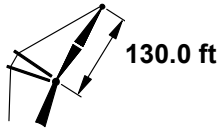
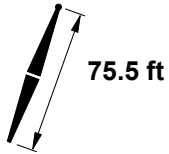
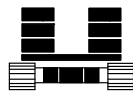
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
43										43
45										45
50										50
55										55
56										56
60										60
65										65
66										66
70										70
75										75
80										80
82	62.6	186.8	38,900							82
85	60.9	185.2	37,200							85
90	58.2	182.2	34,500							90
95	55.3	178.9	32,100							95
97	54.1	177.5	31,300	57.7	179.6	29,500				97
100	52.4	175.3	30,000	56.0	177.6	28,300				100
105	49.3	171.2	28,200	53.1	174.1	26,500				105
110	46.0	166.7	26,500	50.0	170.1	24,900				110
112	44.7	164.6	25,800	48.8	168.3	24,300	52.5	170.6	22,900	112
115	42.6	161.5	24,900	46.8	165.6	23,500	50.7	168.2	22,000	115
120	39.0	155.7	23,500	43.5	160.7	22,100	47.5	163.9	20,800	120
125	35.0	149.1	22,200	39.9	155.1	20,900	44.2	159.0	19,600	125
130	30.6	141.3	21,000	36.0	148.6	19,800	40.6	153.5	18,500	130
131	29.6	139.5	20,800	35.1	147.2	19,600	39.9	152.3	18,300	131
135	25.5	132.0	19,900	31.7	141.2	18,700	36.8	147.3	17,500	135
136	24.3	129.5	19,700	30.7	139.4	18,500	36.0	145.9	17,400	136
140	19.2	119.8	18,900	26.8	132.3	17,700	32.6	140.1	16,600	140
145	9.7	100.4	17,900	20.9	121.0	16,800	27.9	131.5	15,800	145
146	6.2	93.2	17,700	19.3	117.7	16,700	26.8	129.4	15,600	146
150				12.7	104.4	15,900	22.2	120.8	15,000	150
152				7.1	92.9	15,600	19.2	114.8	14,600	152
155							14.7	105.9	14,200	155
158							7.1	90.3	13,700	158

MLC200 S-1

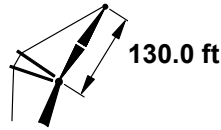
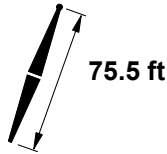
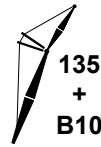
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	74.9	208.7	52,800 b							45
50	72.6	207.3	51,700							50
55	70.3	205.6	50,600							55
59	68.4	204.1	49,700	70.9	205.4	51,000				59
60	68.0	203.7	49,500	70.4	205.1	50,800				60
65	65.6	201.6	48,500	68.1	203.2	49,800				65
70	63.1	199.1	47,200	65.7	201.0	49,000	67.5	202.0	49,600	70
75	60.6	196.5	45,300	63.2	198.7	47,400	65.1	199.8	45,900	75
80	58.0	193.5	43,500	60.7	196.0	43,600	62.7	197.4	42,200	80
85	55.4	190.2	41,700	58.2	193.0	40,300	60.2	194.7	39,000	85
86	54.9	189.5	41,200	57.6	192.4	39,700	59.6	194.0	38,500	86
90	52.7	186.6	39,000	55.5	189.8	37,400	57.6	191.6	36,200	90
95	49.9	182.6	36,400	52.8	186.2	34,900	54.9	188.3	33,800	95
100	46.9	178.1	34,000	50.0	182.2	32,600	52.2	184.6	31,600	100
102	45.7	176.2	33,200	48.8	180.4	31,800	51.1	183.0	30,800	102
105	43.8	173.2	31,900	47.1	177.8	30,600	49.4	180.5	29,600	105
110	40.5	167.7	30,000	44.0	172.8	28,800	46.4	176.0	27,800	110
115	37.0	161.5	28,300	40.7	167.3	27,100	43.3	171.0	26,200	115
118	34.7	157.2	27,400	38.6	163.6	26,200	41.3	167.6	25,300	118
120	33.2	154.4	26,700	37.2	161.2	25,600	39.9	165.3	24,700	120
125	28.9	146.0	25,300	33.4	154.1	24,200	36.4	159.0	23,400	125
130	24.0	136.0	24,000	29.1	145.8	22,900	32.5	151.7	22,100	130
135	17.8	122.9	22,700	24.2	135.9	21,700	28.1	143.1	21,000	135
140	7.8	100.8	21,500	18.1	123.0	20,600	23.0	132.6	19,900	140
141	3.1	90.3	19,900	16.2	118.7	20,400	21.7	129.9	19,700	141
145				8.5	101.8	19,500	16.4	118.7	18,900	145
146				4.6	93.1	19,300	14.0	113.1	18,700	146
150							4.0	91.0	17,900	150
155										155
156										156
160										160
162										162
165										165
168										168

MLC200 S-1

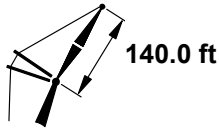
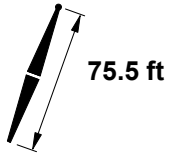
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
59										59
60										60
65										65
70										70
75										75
80										80
85										85
86	62.9	196.0	36,400							86
90	60.9	193.8	34,300							90
95	58.3	190.9	31,900							95
100	55.7	187.6	29,800							100
102	54.6	186.2	29,100	57.9	188.2	27,400				102
105	53.0	184.1	27,900	56.3	186.3	26,300				105
110	50.2	180.1	26,300	53.6	182.8	24,700				110
115	47.2	175.7	24,700	50.9	178.9	23,200				115
118	45.4	172.8	23,900	49.1	176.3	22,400	52.5	178.6	21,000	118
120	44.1	170.8	23,300	48.0	174.6	21,900	51.4	177.0	20,600	120
125	40.9	165.3	22,000	44.9	169.9	20,700	48.5	172.8	19,400	125
130	37.4	159.2	20,900	41.7	164.6	19,600	45.5	168.2	18,300	130
135	33.6	152.2	19,800	38.3	158.6	18,500	42.4	163.0	17,300	135
140	29.4	144.0	18,700	34.5	151.8	17,600	39.0	157.2	16,400	140
141	28.4	142.1	18,600	33.7	150.3	17,400	38.2	155.8	16,300	141
145	24.5	134.2	17,800	30.4	144.0	16,700	35.3	150.6	15,600	145
146	23.3	131.6	17,600	29.5	142.1	16,500	34.5	149.0	15,400	146
150	18.5	121.5	16,900	25.8	134.6	15,800	31.3	143.0	14,800	150
155	9.3	101.2	16,000	20.1	122.8	15,100	26.8	134.0	14,100	155
156	6.0	93.8	15,900	18.5	119.3	14,900	25.7	131.7	13,900	156
160				12.2	105.5	14,300	21.4	122.8	13,300	160
162				6.8	93.6	14,000	18.5	116.5	13,100	162
165							14.1	107.1	12,700	165
168							6.9	90.9	12,200	168

MLC200 S-1

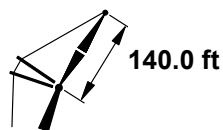
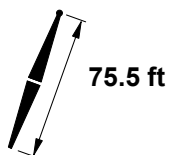
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
48	74.8	218.3	48,900							48
50	73.9	217.7	48,500							50
55	71.8	216.2	47,500							55
60	69.6	214.4	46,500							60
63	68.3	213.2	45,800	70.6	214.6	47,100				63
65	67.4	212.5	45,400	69.7	213.9	46,700				65
70	65.2	210.3	43,400	67.5	211.9	45,500				70
73	63.8	208.8	42,300	66.2	210.6	44,400	67.9	211.6	45,800	73
75	62.9	207.8	41,600	65.3	209.8	43,700	67.0	210.8	45,000	75
80	60.6	205.1	39,800	63.0	207.3	41,800	64.8	208.5	41,900	80
85	58.2	202.2	38,200	60.7	204.6	40,000	62.5	206.1	38,800	85
90	55.7	198.9	36,500	58.3	201.7	37,200	60.2	203.3	36,000	90
91	55.2	198.2	36,200	57.8	201.1	36,700	59.7	202.7	35,500	91
95	53.2	195.4	35,000	55.9	198.5	34,600	57.8	200.3	33,500	95
100	50.6	191.4	33,500	53.4	194.9	32,400	55.3	197.0	31,300	100
105	47.9	187.1	31,700	50.8	191.0	30,300	52.8	193.4	29,300	105
108	46.2	184.3	30,600	49.1	188.4	29,200	51.2	191.0	28,300	108
110	45.1	182.4	29,800	48.1	186.7	28,500	50.2	189.4	27,600	110
115	42.1	177.1	28,100	45.2	182.0	26,900	47.4	185.0	25,900	115
120	39.0	171.3	26,500	42.3	176.8	25,400	44.6	180.2	24,500	120
124	36.3	166.1	25,400	39.8	172.1	24,200	42.2	175.9	23,400	124
125	35.6	164.7	25,100	39.2	171.0	24,000	41.6	174.9	23,100	125
130	31.9	157.3	23,800	35.8	164.5	22,700	38.4	168.9	21,900	130
135	27.8	148.6	22,500	32.1	157.0	21,500	35.0	162.2	20,800	135
140	23.1	138.1	21,400	28.0	148.4	20,400	31.3	154.5	19,700	140
145	17.1	124.4	20,300	23.3	138.0	19,400	27.1	145.6	18,700	145
150	7.5	101.5	19,300	17.4	124.5	18,400	22.1	134.6	17,800	150
151	3.0	90.6	17,700	15.6	120.1	18,300	20.9	131.7	17,600	151
155				8.2	102.5	17,500	15.8	120.1	16,900	155
156				4.5	93.5	17,300	13.4	114.3	16,700	156
160							3.9	91.3	16,000	160
165										165
166										166
170										170
172										172
175										175
178										178

MLC200 S-1

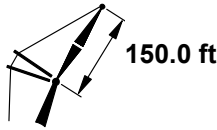
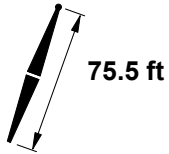
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
48										48
50										50
55										55
60										60
63										63
65										65
70										70
73										73
75										75
80										80
85										85
90										90
91	62.7	204.6	33,500							91
95	60.8	202.5	31,600							95
100	58.4	199.6	29,500							100
105	56.0	196.3	27,600							105
108	54.5	194.2	26,600	57.6	196.3	25,000				108
110	53.5	192.8	26,000	56.6	195.0	24,400				110
115	50.9	188.9	24,400	54.1	191.5	22,900				115
120	48.2	184.7	23,000	51.5	187.7	21,600				120
124	46.0	180.9	22,000	49.4	184.4	20,600	52.6	186.6	19,300	124
125	45.4	180.0	21,700	48.9	183.6	20,400	52.1	185.8	19,100	125
130	42.5	174.8	20,600	46.1	179.0	19,300	49.4	181.7	18,000	130
135	39.3	169.0	19,500	43.2	173.9	18,200	46.7	177.2	17,000	135
140	36.0	162.5	18,500	40.1	168.3	17,300	43.8	172.3	16,100	140
145	32.3	155.1	17,600	36.8	162.0	16,400	40.7	166.8	15,300	145
150	28.3	146.6	16,700	33.3	154.9	15,600	37.5	160.6	14,500	150
151	27.3	144.5	16,500	32.5	153.2	15,400	36.8	159.2	14,400	151
155	23.6	136.3	15,900	29.3	146.6	14,800	34.0	153.7	13,800	155
156	22.4	133.7	15,700	28.4	144.7	14,700	33.2	152.1	13,600	156
160	17.8	123.1	15,100	24.8	136.9	14,100	30.1	145.7	13,100	160
165	8.9	102.0	14,300	19.4	124.5	13,400	25.8	136.3	12,400	165
166	5.7	94.3	14,100	17.8	120.9	13,200	24.7	133.9	12,300	166
170				11.7	106.6	12,700	20.6	124.6	11,800	170
172				6.6	94.1	12,400	17.8	118.1	11,600	172
175							13.6	108.3	11,200	175
178							6.6	91.5	10,800	178

MLC200 S-1

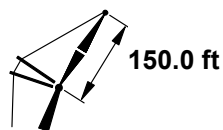
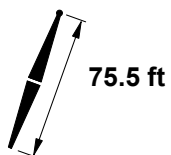
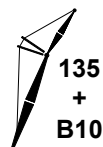
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
51	74.6	227.8	45,200						51	
55	73.0	226.7	44,400						55	
60	71.0	225.0	43,600						60	
65	69.0	223.2	41,900						65	
66	68.6	222.8	41,500	70.7	224.2	43,500			66	
70	66.9	221.2	40,100	69.1	222.7	42,100			70	
75	64.8	219.0	38,400	67.0	220.7	40,300			75	
77	64.0	218.0	37,700	66.2	219.8	39,600	67.8	220.8	40,800	77
80	62.7	216.5	36,700	64.9	218.5	38,600	66.6	219.5	39,900	80
85	60.5	213.8	35,100	62.8	216.0	36,900	64.5	217.2	38,100	85
90	58.3	210.8	33,600	60.6	213.3	35,300	62.3	214.7	35,900	90
95	56.0	207.6	32,100	58.4	210.4	33,700	60.1	212.0	33,400	95
100	53.7	204.1	30,600	56.1	207.2	32,300	57.9	209.0	31,200	100
105	51.3	200.3	29,300	53.8	203.7	30,300	55.6	205.7	29,200	105
110	48.8	196.1	27,900	51.4	199.8	28,400	53.3	202.1	27,500	110
113	47.2	193.3	27,200	49.9	197.3	27,400	51.8	199.8	26,500	113
115	46.2	191.5	26,700	48.9	195.7	26,800	50.9	198.2	25,900	115
120	43.5	186.5	25,500	46.3	191.1	25,300	48.4	194.0	24,400	120
125	40.7	180.9	24,400	43.6	186.1	23,900	45.7	189.3	23,100	125
130	37.6	174.8	23,400	40.8	180.6	22,600	43.0	184.2	21,800	130
135	34.4	167.9	22,400	37.8	174.5	21,500	40.1	178.6	20,700	135
140	30.8	160.1	21,400	34.5	167.6	20,400	37.1	172.3	19,600	140
145	26.9	151.0	20,300	31.0	159.9	19,400	33.8	165.3	18,700	145
150	22.3	140.1	19,300	27.1	150.8	18,400	30.2	157.3	17,800	150
155	16.5	125.9	18,400	22.5	140.0	17,600	26.1	147.9	16,900	155
160	7.2	102.1	17,500	16.8	126.0	16,700	21.4	136.6	16,100	160
161	2.9	90.8	15,900	15.0	121.5	16,600	20.2	133.5	15,900	161
165				7.9	103.2	15,900	15.3	121.5	15,300	165
166				4.3	93.9	15,700	13.0	115.5	15,200	166
170							3.7	91.6	14,600	170
175										175
176										176
180										180
182										182
185										185
188										188

MLC200 S-1

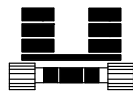
ASME B30.5



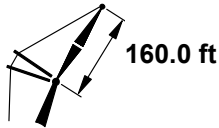
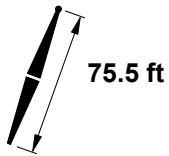
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
51										51
55										55
60										60
65										65
66										66
70										70
75										75
77										77
80										80
85										85
90										90
95	62.9	213.8	31,500							95
100	60.8	211.1	29,400							100
105	58.5	208.2	27,500							105
110	56.3	205.0	25,900							110
113	54.9	202.9	24,900	57.7	204.9	23,400				113
115	53.9	201.5	24,300	56.8	203.7	22,800				115
120	51.5	197.7	22,900	54.5	200.2	21,500				120
125	49.1	193.6	21,700	52.1	196.5	20,300				125
130	46.5	189.0	20,500	49.7	192.5	19,200	52.6	194.6	17,900	130
135	43.8	184.1	19,400	47.1	188.0	18,200	50.2	190.6	16,900	135
140	41.0	178.6	18,400	44.5	183.2	17,200	47.6	186.2	16,000	140
145	37.9	172.5	17,500	41.7	177.8	16,300	45.0	181.5	15,200	145
150	34.7	165.7	16,600	38.7	171.9	15,500	42.2	176.2	14,400	150
155	31.2	158.0	15,800	35.5	165.3	14,700	39.3	170.4	13,700	155
160	27.3	149.1	15,100	32.1	157.8	14,000	36.2	164.0	13,000	160
161	26.4	146.9	14,900	31.3	156.1	13,900	35.5	162.5	12,900	161
165	22.8	138.4	14,300	28.3	149.2	13,400	32.8	156.7	12,400	165
166	21.7	135.6	14,200	27.4	147.2	13,200	32.1	155.0	12,300	166
170	17.2	124.6	13,700	24.0	139.0	12,700	29.1	148.3	11,800	170
175	8.6	102.8	13,000	18.7	126.2	12,100	24.9	138.5	11,200	175
176	5.5	94.8	12,800	17.2	122.5	12,000	23.9	136.1	11,100	176
180				11.3	107.6	11,500	19.9	126.4	10,700	180
182				6.4	94.7	11,200	17.2	119.6	10,400	182
185							13.1	109.5	10,100	185
188							6.4	92.1	9,800	188

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ASME B30.5



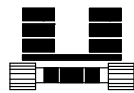
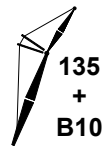
114,600 lb
+
0 lb



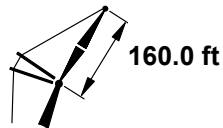
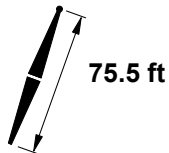
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
53	74.9	237.7	41,800						53	
55	74.1	237.1	41,500						55	
60	72.2	235.6	40,200						60	
65	70.4	233.9	38,400						65	
69	68.8	232.4	37,000	70.8	233.7	38,800			69	
70	68.4	232.0	36,700	70.4	233.4	38,500			70	
75	66.5	229.9	35,000	68.5	231.5	36,800			75	
80	64.5	227.7	33,400	66.6	229.4	35,200			80	
81	64.1	227.2	33,100	66.2	229.0	34,900	67.7	229.9	36,000	81
85	62.5	225.2	31,800	64.6	227.2	33,500	66.2	228.2	34,700	85
90	60.5	222.5	30,300	62.6	224.7	32,000	64.2	225.9	33,200	90
95	58.4	219.5	28,900	60.6	222.0	30,500	62.2	223.4	31,700	95
100	56.3	216.3	27,600	58.5	219.0	29,000	60.1	220.6	30,200	100
105	54.1	212.8	26,200	56.4	215.8	27,700	58.0	217.6	28,800	105
110	51.9	209.1	25,000	54.2	212.4	26,400	55.9	214.4	27,200	110
115	49.6	205.0	23,700	52.0	208.6	25,100	53.7	210.9	25,600	115
118	48.1	202.3	23,100	50.6	206.2	24,400	52.4	208.6	24,700	118
120	47.2	200.5	22,600	49.7	204.5	23,900	51.5	207.0	24,100	120
125	44.7	195.7	21,500	47.3	200.1	22,700	49.1	202.9	22,800	125
130	42.1	190.4	20,400	44.8	195.3	21,700	46.7	198.4	21,600	130
135	39.3	184.6	19,500	42.2	190.0	20,600	44.2	193.5	20,400	135
136	38.7	183.3	19,300	41.6	188.9	20,400	43.7	192.4	20,200	136
140	36.4	178.1	18,500	39.4	184.2	19,600	41.6	188.1	19,400	140
145	33.3	170.9	17,700	36.5	177.8	18,600	38.8	182.2	18,400	145
150	29.8	162.8	16,800	33.4	170.7	17,700	35.9	175.6	17,500	150
155	26.0	153.3	16,000	30.0	162.6	16,900	32.7	168.3	16,700	155
160	21.6	142.0	15,300	26.2	153.2	16,100	29.2	159.9	15,900	160
165	16.0	127.3	14,500	21.8	142.0	15,500	25.3	150.2	15,100	165
170	7.0	102.7	13,700	16.3	127.5	14,600	20.7	138.4	14,400	170
171	2.8	91.1	13,600	14.6	122.8	14,400	19.5	135.3	14,300	171
175				7.7	103.9	13,800	14.8	122.8	13,700	175
176				4.2	94.3	13,600	12.6	116.6	13,600	176
180							3.6	92.0	13,000	180
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186										186
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192										192
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ASME B30.5



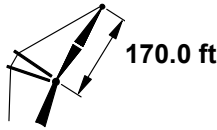
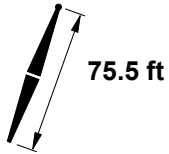
114,600 lb
+
0 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
53										53
55										55
60										60
65										65
69										69
70										70
75										75
80										80
81										81
85										85
90										90
95										95
100	62.7	222.5	29,100							100
105	60.7	219.8	27,200							105
110	58.6	216.9	25,600							110
115	56.5	213.7	24,000							115
118	55.2	211.6	23,200	57.9	213.6	21,700				118
120	54.3	210.3	22,600	57.0	212.3	21,200				120
125	52.1	206.5	21,400	54.9	209.0	20,000				125
130	49.8	202.5	20,200	52.7	205.3	18,900				130
135	47.4	198.1	19,100	50.4	201.3	17,900				135
136	46.9	197.1	18,900	49.9	200.4	17,700	52.7	202.6	16,400	136
140	44.9	193.3	18,100	48.0	197.0	16,900	50.8	199.4	15,700	140
145	42.3	188.0	17,200	45.5	192.3	16,000	48.5	195.2	14,900	145
150	39.6	182.2	16,400	43.0	187.2	15,200	46.0	190.6	14,100	150
155	36.7	175.9	15,600	40.3	181.5	14,500	43.5	185.5	13,400	155
160	33.6	168.8	14,800	37.4	175.3	13,700	40.8	180.0	12,700	160
165	30.2	160.7	14,100	34.4	168.4	13,100	38.0	173.9	12,100	165
170	26.4	151.4	13,400	31.1	160.6	12,400	35.0	167.2	11,500	170
171	25.5	149.2	13,300	30.3	158.8	12,300	34.3	165.7	11,400	171
175	22.1	140.3	12,800	27.4	151.7	11,800	31.7	159.6	10,900	175
176	21.0	137.5	12,700	26.5	149.6	11,700	31.0	157.8	10,800	176
180	16.6	126.1	12,200	23.2	141.1	11,300	28.2	150.9	10,400	180
185	8.4	103.5	11,600	18.1	127.8	10,700	24.1	140.7	9,900	185
186	5.4	95.2	11,500	16.7	124.0	10,600	23.1	138.2	9,800	186
190				11.0	108.5	10,200	19.2	128.1	9,400	190
192				6.2	95.2	10,000	16.6	121.1	9,200	192
195							12.7	110.6	8,900	195
198							6.2	92.6	8,600	198

MLC200 S-1

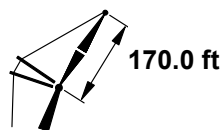
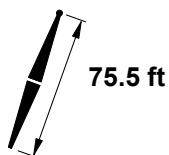
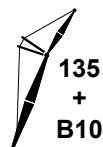
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
56	74.7	247.2	38,400							56
60	73.3	246.1	37,100							60
65	71.6	244.5	35,500							65
70	69.8	242.7	33,800							70
72	69.0	241.9	33,200	70.9	243.3	34,900				72
75	68.0	240.8	32,300	69.9	242.2	33,900				75
80	66.1	238.7	30,700	68.0	240.3	32,300				80
84	64.6	236.8	29,500	66.6	238.6	31,100	68.0	239.5	32,200	84
85	64.3	236.4	29,300	66.2	238.1	30,800	67.6	239.1	32,000	85
90	62.4	233.8	27,800	64.4	235.8	29,300	65.8	237.0	30,500	90
95	60.5	231.1	26,400	62.5	233.3	27,900	63.9	234.6	29,100	95
100	58.5	228.2	25,100	60.6	230.6	26,600	62.1	232.1	27,600	100
104	56.9	225.6	24,100	59.0	228.3	25,500	60.5	229.9	26,500	104
105	56.5	225.0	23,800	58.6	227.7	25,300	60.1	229.3	26,300	105
110	54.5	221.5	22,600	56.6	224.5	24,000	58.2	226.3	25,000	110
115	52.4	217.8	21,500	54.6	221.1	22,800	56.2	223.1	23,700	115
120	50.2	213.8	20,400	52.5	217.4	21,600	54.1	219.6	22,500	120
124	48.4	210.4	19,500	50.7	214.2	20,700	52.4	216.6	21,600	124
125	48.0	209.5	19,300	50.3	213.4	20,500	52.0	215.8	21,400	125
130	45.7	204.8	18,300	48.1	209.1	19,400	49.8	211.8	20,300	130
135	43.3	199.7	17,300	45.8	204.4	18,400	47.6	207.4	19,300	135
140	40.7	194.2	16,400	43.4	199.3	17,500	45.3	202.6	18,200	140
142	39.7	191.7	16,100	42.4	197.1	17,100	44.3	200.6	17,900	142
145	38.1	188.1	15,600	40.9	193.8	16,500	42.8	197.5	17,300	145
150	35.3	181.4	14,700	38.2	187.8	15,700	40.3	191.8	16,300	150
155	32.2	173.9	14,000	35.4	181.1	14,900	37.6	185.6	15,500	155
160	28.9	165.4	13,200	32.4	173.6	14,100	34.8	178.8	14,700	160
165	25.2	155.6	12,300	29.1	165.2	13,200	31.7	171.1	13,900	165
170	20.9	143.9	11,300	25.4	155.5	12,300	28.3	162.5	13,000	170
175	15.5	128.7	10,500	21.1	143.9	11,400	24.5	152.4	12,100	175
180	6.8	103.3	9,800	15.8	128.9	10,600	20.1	140.2	11,200	180
181	2.7	91.3	9,700	14.1	124.0	10,400	18.9	137.0	11,000	181
185				7.4	104.6	9,900	14.4	124.1	10,400	185
186				4.1	94.6	9,700	12.2	117.7	10,300	186
190							3.5	92.3	9,800	190
195										195
196										196
200										200
202										202
205										205
208										208

MLC200 S-1

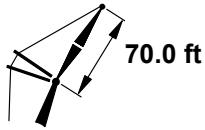
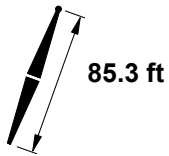
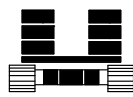
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
56										56
60										60
65										65
70										70
72										72
75										75
80										80
84										84
85										85
90										90
95										95
100										100
104	63.0	231.7	27,400							104
105	62.6	231.2	27,000							105
110	60.7	228.5	25,300							110
115	58.7	225.5	23,800							115
120	56.7	222.4	22,400							120
124	55.1	219.7	21,400	57.6	221.7	20,000				124
125	54.7	219.0	21,100	57.2	221.0	19,700				125
130	52.6	215.3	20,000	55.2	217.7	18,600				130
135	50.4	211.3	18,900	53.1	214.1	17,600				135
140	48.2	207.0	17,900	51.0	210.1	16,700				140
142	47.3	205.2	17,600	50.1	208.5	16,300	52.7	210.6	15,100	142
145	45.9	202.4	17,000	48.8	205.9	15,800	51.4	208.3	14,700	145
150	43.5	197.3	16,100	46.5	201.4	15,000	49.2	204.1	13,900	150
155	41.0	191.8	15,300	44.1	196.4	14,200	46.9	199.6	13,200	155
160	38.4	185.8	14,600	41.6	191.0	13,500	44.6	194.7	12,500	160
165	35.6	179.1	13,900	39.0	185.1	12,900	42.1	189.5	11,900	165
170	32.6	171.7	13,200	36.3	178.7	12,200	39.6	183.7	11,300	170
175	29.3	163.4	12,600	33.3	171.5	11,700	36.8	177.3	10,700	175
180	25.6	153.8	12,000	30.1	163.4	11,100	33.9	170.3	10,200	180
181	24.8	151.5	11,900	29.4	161.5	11,000	33.3	168.7	10,100	181
185	21.4	142.3	11,500	26.5	154.1	10,600	30.8	162.4	9,700	185
186	20.3	139.3	11,300	25.7	151.9	10,500	30.1	160.6	9,600	186
190	16.1	127.5	10,700	22.5	143.1	10,100	27.3	153.4	9,200	190
195	8.1	104.3	9,900	17.6	129.4	9,600	23.4	142.8	8,700	195
196	5.2	95.7	9,800	16.2	125.4	9,500	22.4	140.2	8,700	196
200				10.6	109.5	9,100	18.7	129.8	8,300	200
202				6.0	95.8	8,900	16.1	122.6	8,100	202
205							12.3	111.7	7,900	205
208							6.0	93.1	7,600	208

MLC200 S-1

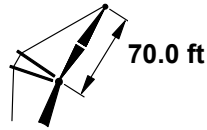
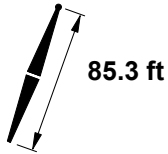
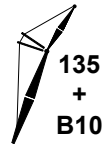
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
30	74.9	160.6	113,200 d							30
35	70.6	159.0	113,200 c							35
40	66.2	157.1	108,700 b							40
41	65.2	156.6	106,300 b	70.5	158.3	105,400 c				41
45	61.6	154.6	96,900 b	67.0	156.8	93,000 b				45
49	57.8	152.2	86,800 b	63.4	154.9	83,400 b	67.3	156.2	80,500 c	49
50	56.8	151.6	84,300	62.5	154.4	80,900 b	66.4	155.8	78,400 b	50
55	51.8	148.0	74,500	57.7	151.6	71,500	61.9	153.3	69,300 b	55
60	46.4	143.7	66,600	52.8	148.1	63,900	57.2	150.4	61,900	60
62	44.0	141.6	64,000	50.6	146.4	61,500	55.1	149.0	59,500	62
65	40.4	138.4	60,100	47.4	143.9	57,700	52.1	146.8	55,900	65
70	33.6	131.8	54,700	41.6	138.8	52,500	46.7	142.6	50,900	70
74	27.0	124.7	51,000	36.3	133.7	49,000	42.0	138.4	47,400	74
75	25.3	122.9	50,100	35.0	132.5	48,100	40.8	137.3	46,600	75
80	12.7	108.4	46,000	27.0	124.1	44,200	34.1	130.8	42,900	80
81	8.2	103.0	45,200	24.7	121.6	43,600	32.5	129.1	42,200	81
85				15.7	111.4	40,800	25.9	122.2	39,600	85
86				11.7	106.5	40,200	23.5	119.4	39,000	86
87				7.7	101.7	39,500	21.1	116.6	38,500	87
90							13.8	108.3	36,700	90
92							1.6	93.5	35,500	92
95										95
99										99
100										100
105										105
106										106
110										110
113										113

MLC200 S-1

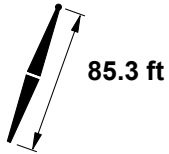
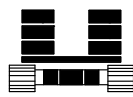
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
30										30
35										35
40										40
41										41
45										45
49										49
50										50
55										55
60										60
62	62.1	151.6	56,200 b							62
65	59.3	150.0	52,900 b							65
70	54.4	146.7	48,100							70
74	50.2	143.5	44,900	57.4	146.3	42,300				74
75	49.2	142.8	44,100	56.4	145.7	41,600				75
80	43.5	138.0	40,600	51.4	142.0	38,300				80
81	42.3	136.8	39,900	50.3	141.1	37,700				81
85	37.2	132.1	37,500	45.9	137.6	35,400				85
86	35.7	130.6	37,000	44.7	136.5	34,900	52.2	139.6	32,800	86
87	34.2	129.1	36,400	43.5	135.5	34,400	51.1	138.8	32,300	87
90	29.8	124.6	34,800	39.9	132.2	32,800	47.9	136.3	30,900	90
92	25.9	120.2	33,800	37.1	129.5	31,900	45.6	134.3	30,000	92
95	20.1	113.8	32,400	33.0	125.5	30,600	42.1	131.3	28,800	95
99	4.8	95.7	30,500	26.2	118.2	28,900	36.9	126.3	27,200	99
100				24.5	116.4	28,500	35.6	125.1	26,900	100
105				11.0	100.7	26,600	27.8	117.0	25,100	105
106				5.2	93.7	26,200	25.7	114.6	24,800	106
110							17.1	104.9	23,500	110
113							2.9	87.8	22,500	113

MLC200 S-1

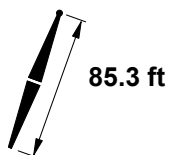
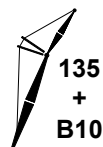
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
33	74.6	170.2	103,400 c							33
35	73.1	169.6	103,300 c							35
40	69.3	167.9	100,400 b							40
44	66.2	166.2	96,400 b	70.8	167.9	95,600 c				44
45	65.4	165.8	95,400 b	70.0	167.5	92,700 b				45
50	61.4	163.3	84,100	66.1	165.5	80,700 b				50
52	59.7	162.1	80,200	64.5	164.5	76,900 b	68.0	165.8	74,200 b	52
55	57.2	160.3	74,300	62.2	163.1	71,300	65.7	164.5	69,000 b	55
60	52.9	156.8	66,500	58.0	160.2	63,700	61.7	162.0	61,700	60
65	48.2	152.7	60,000	53.7	156.8	57,500	57.5	159.1	55,700	65
66	47.2	151.7	58,900	52.8	156.0	56,500	56.6	158.4	54,600	66
70	43.2	147.8	54,600	49.1	152.8	52,300	53.2	155.6	50,600	70
75	37.7	142.0	50,000	44.2	148.1	47,900	48.5	151.5	46,400	75
79	32.7	136.2	46,800	39.9	143.6	44,900	44.6	147.7	43,400	79
80	31.4	134.7	46,000	38.8	142.5	44,100	43.6	146.7	42,700	80
85	23.6	125.1	42,600	32.6	135.5	40,800	38.1	140.9	39,500	85
90	11.9	109.5	39,400	25.2	126.5	37,900	31.8	133.8	36,700	90
91	7.6	103.7	38,800	23.1	123.7	37,300	30.3	131.9	36,100	91
92				21.0	120.9	36,800	28.8	130.0	35,600	92
95				14.7	112.7	35,200	24.2	124.4	34,100	95
97				7.2	102.4	34,200	19.7	118.4	33,200	97
100							12.9	109.5	31,800	100
102							1.5	93.6	30,900	102
105										105
109										109
110										110
115										115
116										116
120										120
123										123

MLC200 S-1

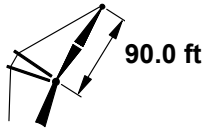
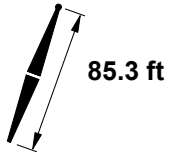
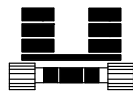
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
33										33
35										35
40										40
44										44
45										45
50										50
52										52
55										55
60										60
65										65
66	62.7	160.8	51,600							66
70	59.4	158.6	47,800							70
75	55.1	155.4	43,800							75
79	51.5	152.4	41,000	57.7	155.0	38,500				79
80	50.6	151.6	40,300	56.9	154.4	37,900				80
85	45.8	147.2	37,300	52.5	150.8	35,100				85
90	40.6	141.8	34,600	47.8	146.6	32,500				90
91	39.4	140.5	34,100	46.8	145.7	32,100				91
92	38.2	139.2	33,600	45.8	144.7	31,700	52.3	147.6	29,700	92
95	34.7	135.4	32,200	42.8	141.7	30,300	49.5	145.2	28,400	95
97	32.0	132.1	31,400	40.6	139.3	29,500	47.6	143.3	27,700	97
100	27.8	127.1	30,100	37.2	135.7	28,300	44.7	140.6	26,600	100
102	24.2	122.5	29,300	34.6	132.8	27,600	42.5	138.3	25,900	102
105	18.8	115.5	28,200	30.8	128.3	26,500	39.3	135.0	24,900	105
109	4.5	96.1	26,600	24.5	120.4	25,200	34.5	129.5	23,600	109
110				22.9	118.4	24,900	33.2	128.2	23,300	110
115				10.3	101.7	23,300	26.0	119.4	21,900	115
116				4.9	94.1	23,000	24.0	116.8	21,600	116
120							16.0	106.3	20,600	120
123							2.7	88.1	19,700	123

MLC200 S-1

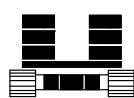
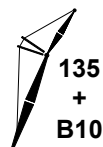
ASME B30.5



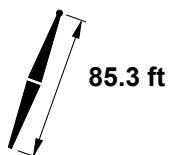
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
36	74.3	179.7	91,600 c							36
40	71.7	178.5	87,900 b							40
45	68.3	176.7	83,700 b							45
47	66.9	175.8	82,100 b	71.0	177.4	87,300 b				47
50	64.8	174.5	79,800	68.9	176.3	80,500 b				50
55	61.3	171.9	74,200	65.5	174.2	71,100				55
56	60.5	171.3	72,600	64.8	173.7	69,600	67.8	174.9	67,200 b	56
60	57.6	169.0	66,300	61.9	171.8	63,600	65.0	173.2	61,500	60
65	53.7	165.6	59,900	58.2	168.9	57,400	61.5	170.7	55,500	65
70	49.6	161.6	54,500	54.4	165.6	52,200	57.8	167.7	50,500	70
71	48.8	160.7	53,600	53.6	164.8	51,300	57.0	167.1	49,600	71
75	45.3	157.0	49,900	50.4	161.7	47,800	53.9	164.3	46,200	75
80	40.6	151.7	46,000	46.1	157.2	44,000	49.9	160.4	42,500	80
84	36.5	146.5	43,200	42.5	153.1	41,400	46.5	156.8	40,000	84
85	35.5	145.3	42,600	41.5	152.0	40,700	45.6	155.9	39,400	85
90	29.6	137.4	39,500	36.5	145.9	37,800	41.0	150.6	36,600	90
95	22.3	127.1	36,800	30.7	138.3	35,300	35.8	144.3	34,100	95
98	15.6	117.1	35,400	26.5	132.5	33,900	32.3	139.6	32,800	98
100	11.2	110.5	34,400	23.8	128.6	33,000	30.0	136.5	31,900	100
101	7.2	104.3	33,900	21.8	125.7	32,500	28.5	134.5	31,500	101
105				13.9	113.9	30,900	22.8	126.4	29,900	105
107				6.8	103.0	30,000	18.5	120.1	29,100	107
110							12.2	110.6	28,000	110
112							1.4	93.7	27,200	112
115										115
119										119
120										120
125										125
126										126
130										130
133										133

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ASME B30.5



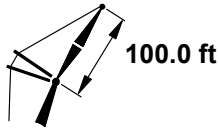
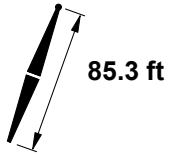
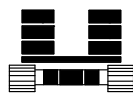
114,600 lb
+
0 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
40										40
45										45
47										47
50										50
55										55
56										56
60										60
65										65
70										70
71	62.4	169.5	46,800							71
75	59.5	167.3	43,600							75
80	55.7	164.1	40,100							80
84	52.5	161.2	37,700	58.0	163.7	35,400				84
85	51.7	160.4	37,100	57.2	163.0	34,900				85
90	47.5	156.2	34,500	53.4	159.6	32,400				90
95	43.1	151.2	32,100	49.3	155.6	30,200				95
98	40.1	147.7	30,900	46.7	152.8	29,000	52.4	155.6	27,100	98
100	38.2	145.4	30,000	44.9	150.9	28,200	50.8	154.1	26,400	100
101	37.1	144.0	29,600	44.0	149.8	27,800	49.9	153.2	26,000	101
105	32.7	138.4	28,100	40.2	145.5	26,400	46.5	149.7	24,700	105
107	30.1	134.8	27,400	38.1	142.9	25,800	44.7	147.6	24,100	107
110	26.2	129.5	26,400	35.0	139.0	24,800	42.0	144.5	23,200	110
112	22.8	124.6	25,800	32.6	135.8	24,200	40.0	142.1	22,600	112
115	17.7	117.1	24,800	29.0	131.0	23,300	37.0	138.4	21,800	115
119	4.3	96.5	23,600	23.0	122.5	22,200	32.4	132.5	20,800	119
120				21.5	120.4	22,000	31.3	131.1	20,500	120
125				9.7	102.5	20,600	24.5	121.6	19,400	125
126				4.6	94.5	20,400	22.6	118.8	19,100	126
130							15.1	107.7	18,200	130
133							2.5	88.3	17,500	133

MLC200 S-1

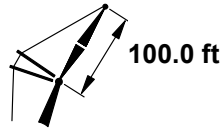
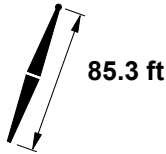
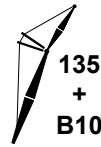
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
38	74.8	189.5	84,100 c						38	
40	73.6	189.0	82,400 b						40	
45	70.6	187.3	78,300 b						45	
50	67.5	185.4	74,600						50	
51	66.9	185.0	73,900	70.5	186.6	78,200 b			51	
55	64.4	183.2	71,100	68.1	185.1	70,800			55	
60	61.1	180.6	66,100	64.9	182.9	63,300	67.7	184.1	61,200	60
65	57.8	177.7	59,700	61.7	180.4	57,100	64.6	181.9	55,200	65
70	54.3	174.3	54,300	58.4	177.6	51,900	61.3	179.3	50,200	70
75	50.7	170.5	49,700	55.0	174.3	47,500	58.0	176.4	45,900	75
80	46.9	166.1	45,800	51.4	170.5	43,800	54.6	173.1	42,300	80
85	42.9	161.1	42,400	47.6	166.3	40,500	51.0	169.3	39,100	85
90	38.5	155.3	39,400	43.6	161.4	37,600	47.2	164.9	36,300	90
95	33.6	148.4	36,700	39.3	155.7	35,100	43.1	160.0	33,900	95
100	28.0	140.0	34,300	34.5	149.1	32,800	38.8	154.2	31,600	100
104	22.5	131.2	32,600	30.2	142.6	31,200	34.9	148.8	30,100	104
105	21.1	129.0	32,200	29.1	141.0	30,700	33.9	147.4	29,700	105
110	10.6	111.4	30,200	22.5	130.7	28,900	28.4	139.1	27,900	110
111	6.8	104.9	29,800	20.6	127.6	28,500	27.0	137.0	27,500	111
115				13.2	115.1	27,100	21.6	128.4	26,200	115
117				6.4	103.5	26,500	17.6	121.7	25,600	117
120							11.6	111.6	24,700	120
122							1.3	93.9	24,000	122
125										125
129										129
130										130
135										135
136										136
140										140
143										143

MLC200 S-1

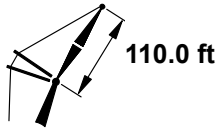
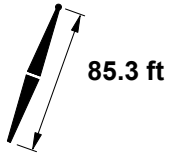
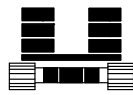
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
51										51
55										55
60										60
65										65
70										70
75	62.8	178.7	43,200							75
80	59.5	175.9	39,800							80
85	56.1	172.8	36,800							85
90	52.6	169.2	34,100	57.5	171.7	32,000				90
95	48.9	165.1	31,800	54.1	168.3	29,800				95
100	45.0	160.5	29,700	50.4	164.4	27,900				100
104	41.6	156.1	28,200	47.4	160.9	26,400	52.5	163.6	24,700	104
105	40.8	155.1	27,900	46.6	160.0	26,100	51.8	162.9	24,300	105
110	36.2	148.8	26,200	42.5	154.9	24,500	48.0	158.6	22,800	110
111	35.1	147.3	25,900	41.6	153.8	24,200	47.2	157.7	22,600	111
115	31.0	141.2	24,600	38.1	149.0	23,000	44.0	153.8	21,500	115
117	28.5	137.5	24,100	36.1	146.2	22,500	42.3	151.6	21,000	117
120	24.8	131.8	23,200	33.2	142.1	21,700	39.7	148.2	20,200	120
122	21.6	126.5	22,700	30.9	138.6	21,200	37.8	145.6	19,800	122
125	16.8	118.6	21,900	27.5	133.5	20,500	35.0	141.7	19,100	125
129	4.0	96.8	20,800	21.8	124.5	19,600	30.7	135.4	18,200	129
130				20.4	122.3	19,400	29.6	133.8	18,000	130
135				9.2	103.4	18,200	23.2	123.7	17,000	135
136				4.3	94.9	18,000	21.4	120.8	16,800	136
140							14.3	109.0	16,100	140
143							2.4	88.5	15,500	143

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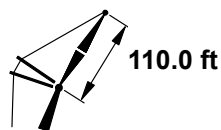
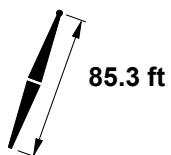
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
41	74.6	199.1	75,700 b						41	
45	72.4	197.9	73,200 b						45	
50	69.6	196.2	70,100						50	
54	67.4	194.6	67,900	70.7	196.2	71,500			54	
55	66.8	194.2	67,400	70.1	195.8	70,700			55	
60	64.0	191.9	64,800	67.3	193.9	63,200			60	
64	61.6	189.8	60,600	65.1	192.1	58,300	67.6	193.3	64	
65	61.0	189.3	59,600	64.5	191.6	57,000	67.0	192.8	65	
70	58.0	186.3	54,200	61.6	189.1	51,900	64.1	190.6	70	
75	54.9	183.0	49,700	58.6	186.2	47,500	61.2	188.0	75	
80	51.6	179.3	45,800	55.5	183.0	43,700	58.2	185.1	80	
85	48.2	175.1	42,300	52.2	179.3	40,500	55.1	181.8	85	
90	44.6	170.3	39,400	48.9	175.2	37,600	51.8	178.1	90	
95	40.8	164.9	36,700	45.3	170.6	35,100	48.4	173.9	95	
100	36.6	158.6	34,400	41.5	165.3	32,800	44.9	169.2	100	
105	32.0	151.3	32,200	37.4	159.2	30,800	41.0	163.8	105	
110	26.7	142.4	30,300	32.9	152.1	28,900	36.9	157.6	110	
115	20.1	130.9	28,600	27.7	143.5	27,300	32.3	150.4	115	
120	10.1	112.4	26,900	21.5	132.6	25,700	27.0	141.6	120	
121	6.5	105.5	26,600	19.7	129.3	25,400	25.8	139.3	121	
125				12.6	116.3	24,300	20.6	130.3	125	
127				6.1	104.1	23,700	16.8	123.2	127	
130							11.0	112.6	130	
132							1.2	94.0	132	
135									135	
139									139	
140									140	
145									145	
146									146	
150									150	
153									153	

MLC200 S-1

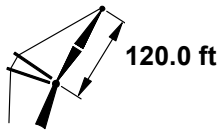
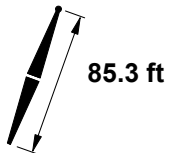
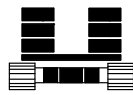
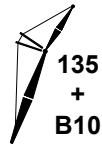
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
41										41
45										45
50										50
54										54
55										55
60										60
64										64
65										65
70										70
75										75
80	62.5	187.4	39,700							80
85	59.6	184.6	36,700							85
90	56.5	181.5	34,100							90
95	53.3	178.0	31,800	57.7	180.4	29,800				95
100	50.0	174.0	29,700	54.6	177.0	27,800				100
105	46.5	169.5	27,900	51.3	173.3	26,100				105
110	42.8	164.5	26,200	47.9	169.0	24,500	52.5	171.6	22,800	110
115	38.8	158.7	24,700	44.3	164.2	23,000	49.2	167.6	21,500	115
120	34.4	151.9	23,300	40.5	158.7	21,700	45.6	163.0	20,200	120
121	33.4	150.3	23,000	39.6	157.4	21,500	44.9	161.9	20,000	121
125	29.5	143.9	22,000	36.3	152.4	20,500	41.9	157.7	19,100	125
127	27.2	139.9	21,500	34.4	149.4	20,100	40.2	155.3	18,700	127
130	23.7	133.9	20,800	31.6	145.0	19,400	37.8	151.8	18,100	130
132	20.6	128.4	20,300	29.4	141.3	19,000	36.0	149.0	17,700	132
135	16.0	120.1	19,700	26.2	135.9	18,400	33.3	144.8	17,100	135
139	3.9	97.2	18,800	20.8	126.4	17,600	29.2	138.0	16,400	139
140				19.5	124.0	17,400	28.2	136.4	16,200	140
145				8.8	104.1	16,500	22.1	125.7	15,300	145
146				4.1	95.3	16,200	20.4	122.6	15,200	146
150							13.6	110.2	14,500	150
153							2.3	88.7	14,000	153

MLC200 S-1

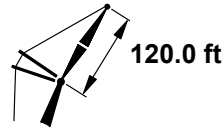
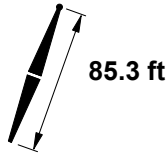
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
43	74.9	208.9	69,000 b							43
45	73.9	208.3	67,900 b							45
50	71.4	206.8	65,000							50
55	68.9	205.0	62,300							55
57	67.8	204.1	61,200	70.9	205.7	64,500				57
60	66.3	202.9	59,700	69.3	204.6	62,900				60
65	63.6	200.6	57,300	66.8	202.6	56,800				65
67	62.6	199.5	56,000	65.7	201.7	54,700	68.0	202.8	52,700	67
70	60.9	197.9	54,000	64.1	200.3	51,600	66.4	201.6	49,800	70
75	58.2	195.0	49,400	61.4	197.8	47,200	63.8	199.3	45,600	75
80	55.3	191.7	45,500	58.7	194.9	43,500	61.1	196.7	41,900	80
84	53.0	188.8	42,800	56.4	192.3	40,900	58.9	194.3	39,400	84
85	52.4	188.1	42,100	55.8	191.7	40,200	58.4	193.7	38,800	85
90	49.3	184.0	39,100	52.9	188.1	37,300	55.5	190.5	36,000	90
95	46.0	179.4	36,500	49.9	184.1	34,800	52.6	186.8	33,600	95
100	42.6	174.3	34,200	46.7	179.6	32,600	49.5	182.8	31,400	100
105	39.0	168.5	32,000	43.3	174.6	30,500	46.3	178.3	29,400	105
110	35.0	161.9	30,100	39.7	169.0	28,700	42.9	173.2	27,700	110
115	30.6	154.1	28,400	35.8	162.5	27,100	39.2	167.5	26,000	115
116	29.6	152.2	28,100	34.9	161.0	26,800	38.4	166.1	25,800	116
120	25.5	144.7	26,800	31.5	155.0	25,500	35.3	160.9	24,600	120
125	19.3	132.6	25,400	26.5	145.9	24,200	30.9	153.2	23,200	125
130	9.7	113.2	24,000	20.5	134.5	22,900	25.9	143.9	22,000	130
131	6.2	106.1	23,700	18.8	131.0	22,600	24.6	141.6	21,800	131
135				12.0	117.3	21,600	19.7	132.0	20,800	135
137				5.9	104.6	21,100	16.0	124.6	20,400	137
140							10.5	113.5	19,700	140
142							1.2	94.1	19,200	142
145										145
149										149
150										150
155										155
156										156
160										160
163										163

MLC200 S-1

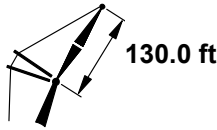
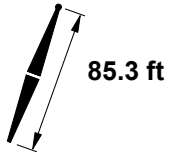
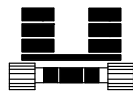
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb		
43										43
45										45
50										50
55										55
57										57
60										60
65										65
67										67
70										70
75										75
80										80
84	62.9	196.6	37,000							84
85	62.3	196.0	36,400							85
90	59.6	193.3	33,800							90
95	56.8	190.2	31,500							95
100	53.9	186.7	29,400	57.9	189.0	27,500				100
105	50.9	182.9	27,600	55.1	185.7	25,700				105
110	47.7	178.5	25,900	52.1	182.1	24,200				110
115	44.4	173.7	24,400	49.0	177.9	22,700				115
116	43.7	172.6	24,100	48.4	177.0	22,500	52.6	179.6	20,900	116
120	40.9	168.3	23,000	45.8	173.3	21,400	50.1	176.4	19,900	120
125	37.1	162.1	21,700	42.3	168.2	20,200	47.0	172.0	18,800	125
130	32.9	155.0	20,600	38.7	162.3	19,100	43.6	167.1	17,700	130
131	32.0	153.3	20,300	37.9	161.0	18,900	42.9	166.0	17,500	131
135	28.2	146.5	19,500	34.7	155.6	18,100	40.0	161.5	16,800	135
137	26.0	142.3	19,100	32.9	152.4	17,700	38.5	158.9	16,400	137
140	22.6	136.0	18,500	30.2	147.7	17,200	36.1	155.1	15,900	140
142	19.7	130.2	18,100	28.1	143.9	16,800	34.4	152.1	15,600	142
145	15.3	121.4	17,500	25.1	138.2	16,300	31.9	147.7	15,100	145
149	3.7	97.5	16,700	19.9	128.2	15,600	28.0	140.6	14,400	149
150				18.6	125.7	15,400	27.0	138.8	14,300	150
155				8.4	104.9	14,600	21.2	127.6	13,500	155
156				4.0	95.7	14,400	19.5	124.4	13,400	156
160							13.0	111.4	12,800	160
163							2.2	88.9	12,400	163

MLC200 S-1

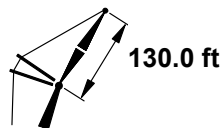
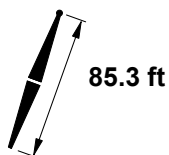
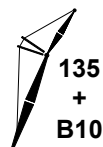
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
46	74.7	218.4	52,100 b							46
50	72.9	217.3	51,200							50
55	70.6	215.6	50,100							55
60	68.2	213.7	49,100	71.0	215.3	50,500				60
65	65.8	211.6	48,200	68.6	213.4	49,600				65
70	63.4	209.2	47,200	66.2	211.3	48,700				70
71	62.9	208.7	46,900	65.8	210.9	48,400	67.9	212.0	48,700	71
75	60.9	206.6	45,400	63.8	209.0	47,000	66.0	210.3	45,300	75
80	58.3	203.7	43,600	61.3	206.4	43,300	63.5	207.9	41,700	80
85	55.7	200.4	41,800	58.8	203.5	40,000	61.0	205.3	38,600	85
89	53.5	197.5	39,500	56.7	201.0	37,700	59.0	203.0	36,300	89
90	53.0	196.8	39,000	56.2	200.4	37,200	58.5	202.4	35,800	90
95	50.2	192.9	36,300	53.5	196.8	34,600	55.9	199.2	33,400	95
100	47.2	188.5	34,000	50.7	192.9	32,400	53.1	195.6	31,200	100
105	44.1	183.6	31,900	47.8	188.6	30,400	50.3	191.7	29,200	105
106	43.5	182.5	31,500	47.2	187.7	30,000	49.8	190.8	28,900	106
110	40.9	178.1	30,000	44.7	183.8	28,500	47.4	187.3	27,500	110
115	37.4	172.0	28,300	41.5	178.5	26,900	44.3	182.4	25,900	115
120	33.6	165.0	26,700	38.1	172.5	25,400	41.1	177.0	24,400	120
122	31.9	161.7	26,100	36.6	169.7	24,800	39.7	174.6	23,900	122
125	29.4	156.8	25,300	34.3	165.6	24,000	37.6	170.9	23,100	125
130	24.5	147.0	23,900	30.2	157.7	22,700	33.8	164.0	21,900	130
135	18.5	134.3	22,700	25.5	148.3	21,600	29.7	155.9	20,700	135
140	9.3	114.0	21,500	19.7	136.2	20,500	24.8	146.2	19,700	140
141	6.0	106.6	21,200	18.1	132.7	20,200	23.7	143.7	19,500	141
145				11.5	118.4	19,400	18.9	133.7	18,700	145
147				5.6	105.1	19,000	15.4	126.0	18,300	147
150							10.1	114.4	17,700	150
152							1.1	94.2	17,300	152
155										155
159										159
160										160
165										165
166										166
170										170
173										173

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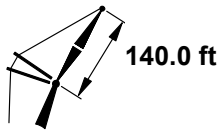
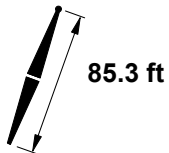
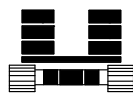
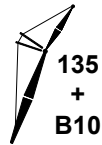
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb		
46										46
50										50
55										55
60										60
65										65
70										70
71										71
75										75
80										80
85										85
89	62.6	205.2	34,100							89
90	62.1	204.7	33,600							90
95	59.6	201.9	31,200							95
100	57.0	198.8	29,200							100
105	54.4	195.4	27,300							105
106	53.8	194.7	27,000	57.6	197.1	25,200				106
110	51.6	191.7	25,700	55.5	194.4	23,900				110
115	48.7	187.5	24,200	52.7	190.8	22,500				115
120	45.7	182.9	22,800	49.9	186.8	21,200				120
122	44.5	180.8	22,300	48.7	185.0	20,700	52.6	187.6	19,200	122
125	42.6	177.7	21,500	47.0	182.4	20,000	50.9	185.3	18,500	125
130	39.2	171.9	20,400	43.9	177.5	18,900	48.0	181.0	17,500	130
135	35.6	165.4	19,300	40.6	172.0	17,900	45.0	176.3	16,600	135
140	31.6	157.9	18,300	37.1	165.7	17,000	41.8	171.0	15,700	140
141	30.7	156.1	18,100	36.3	164.3	16,800	41.1	169.8	15,500	141
145	27.1	149.0	17,400	33.3	158.6	16,100	38.4	165.0	14,900	145
147	24.9	144.5	17,000	31.5	155.3	15,800	36.9	162.3	14,600	147
150	21.7	137.9	16,500	29.0	150.4	15,300	34.7	158.3	14,100	150
152	18.9	131.9	16,200	27.0	146.4	15,000	33.0	155.2	13,800	152
155	14.7	122.7	15,700	24.1	140.3	14,500	30.6	150.5	13,400	155
159	3.5	97.8	15,000	19.1	129.9	13,900	26.9	143.0	12,800	159
160				17.9	127.3	13,800	25.9	141.2	12,700	160
165				8.1	105.6	13,100	20.3	129.5	12,100	165
166				3.8	96.0	12,900	18.8	126.1	11,900	166
170							12.5	112.5	11,400	170
173							2.1	89.1	11,000	173

MLC200 S-1

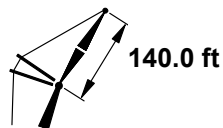
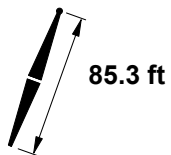
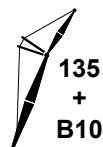
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
48	75.0	228.3	48,400							48
50	74.1	227.7	48,000							50
55	72.0	226.2	47,000							55
60	69.8	224.4	46,100							60
64	68.1	222.9	45,400	70.7	224.5	46,600				64
65	67.6	222.5	45,200	70.2	224.1	46,400				65
70	65.4	220.3	43,500	68.0	222.2	45,600				70
75	63.1	217.9	41,600	65.8	220.1	43,900	67.8	221.2	45,000	75
80	60.8	215.3	39,900	63.5	217.7	42,100	65.5	219.0	41,400	80
85	58.4	212.3	38,200	61.2	215.1	39,700	63.3	216.6	38,300	85
90	56.0	209.1	36,600	58.9	212.2	36,900	61.0	214.0	35,500	90
93	54.5	207.0	35,700	57.4	210.3	35,400	59.5	212.2	34,000	93
95	53.5	205.6	35,000	56.5	209.0	34,400	58.6	211.1	33,100	95
100	50.9	201.7	33,600	54.0	205.6	32,100	56.2	207.9	30,900	100
105	48.2	197.4	31,700	51.4	201.8	30,100	53.7	204.3	28,900	105
110	45.4	192.7	29,800	48.7	197.6	28,300	51.1	200.5	27,200	110
111	44.8	191.7	29,400	48.2	196.6	28,000	50.5	199.6	26,900	111
115	42.5	187.5	28,000	45.9	193.0	26,600	48.4	196.3	25,600	115
120	39.3	181.8	26,500	43.0	187.9	25,100	45.6	191.6	24,100	120
125	36.0	175.3	25,000	39.9	182.2	23,800	42.7	186.4	22,800	125
128	33.8	170.9	24,200	37.9	178.4	23,000	40.8	183.0	22,100	128
130	32.3	167.9	23,700	36.6	175.9	22,500	39.5	180.7	21,600	130
135	28.3	159.4	22,500	33.0	168.7	21,300	36.2	174.3	20,500	135
140	23.6	149.1	21,400	29.1	160.4	20,300	32.6	167.0	19,400	140
145	17.8	135.9	20,300	24.5	150.5	19,200	28.6	158.5	18,400	145
150	9.0	114.8	19,300	19.0	137.9	18,300	23.9	148.4	17,500	150
151	5.8	107.1	19,100	17.4	134.2	18,100	22.8	145.8	17,400	151
155				11.1	119.4	17,400	18.2	135.4	16,700	155
157				5.4	105.6	17,000	14.8	127.3	16,300	157
160							9.8	115.3	15,800	160
162							1.1	94.3	15,500	162
165										165
169										169
170										170
175										175
176										176
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183										183

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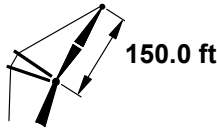
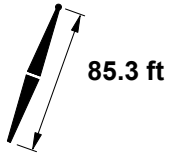
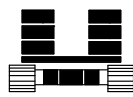
ASME B30.5



	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
80										80
85										85
90										90
93	62.9	214.4	31,800							93
95	62.0	213.4	30,900							95
100	59.6	210.6	28,900							100
105	57.2	207.5	27,000							105
110	54.8	204.1	25,400							110
111	54.3	203.4	25,100	57.8	205.8	23,300				111
115	52.2	200.4	23,900	55.8	203.1	22,200				115
120	49.6	196.4	22,500	53.3	199.6	20,900				120
125	46.9	191.9	21,200	50.7	195.7	19,700				125
128	45.1	189.0	20,500	49.1	193.1	19,000	52.7	195.6	17,600	128
130	44.0	187.0	20,100	48.0	191.4	18,600	51.6	194.1	17,200	130
135	40.9	181.5	19,000	45.2	186.6	17,600	49.0	189.9	16,200	135
140	37.7	175.4	18,000	42.2	181.4	16,700	46.2	185.4	15,400	140
145	34.2	168.5	17,100	39.1	175.6	15,800	43.3	180.3	14,500	145
150	30.4	160.6	16,300	35.7	169.0	15,000	40.2	174.7	13,800	150
151	29.5	158.8	16,100	34.9	167.5	14,900	39.6	173.5	13,600	151
155	26.1	151.3	15,500	32.0	161.6	14,300	36.9	168.4	13,100	155
157	24.0	146.7	15,200	30.4	158.1	14,000	35.5	165.6	12,800	157
160	20.9	139.8	14,700	27.9	152.9	13,600	33.4	161.3	12,400	160
162	18.2	133.5	14,400	26.0	148.7	13,300	31.8	158.1	12,200	162
165	14.2	124.0	14,000	23.2	142.4	12,900	29.5	153.2	11,800	165
169	3.4	98.1	13,400	18.4	131.6	12,400	25.9	145.4	11,300	169
170				17.2	128.8	12,200	25.0	143.4	11,200	170
175				7.8	106.3	11,600	19.6	131.2	10,600	175
176				3.7	96.3	11,400	18.1	127.7	10,500	176
180							12.1	113.6	10,100	180
183							2.0	89.3	9,700	183

MLC200 S-1

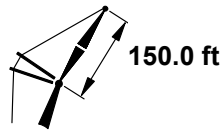
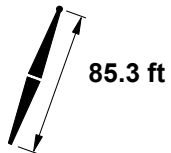
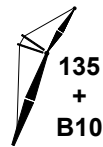
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
51	74.8	237.8	44,800							51
55	73.2	236.7	44,000							55
60	71.2	235.1	43,200							60
65	69.2	233.3	41,900							65
67	68.4	232.4	41,200	70.8	234.0	43,100				67
70	67.1	231.2	40,100	69.6	232.9	42,300				70
75	65.0	229.0	38,400	67.5	231.0	40,500				75
79	63.3	227.1	37,100	65.8	229.2	39,200	67.7	230.3	40,500	79
80	62.9	226.6	36,800	65.4	228.8	38,800	67.3	229.9	40,200	80
85	60.8	223.9	35,200	63.3	226.4	37,100	65.2	227.7	38,200	85
90	58.5	221.0	33,600	61.2	223.7	35,600	63.1	225.3	35,400	90
95	56.3	217.8	32,200	59.0	220.9	34,100	60.9	222.6	33,000	95
98	54.9	215.7	31,300	57.6	219.0	32,800	59.6	220.9	31,700	98
100	53.9	214.3	30,700	56.7	217.7	32,000	58.7	219.7	30,800	100
105	51.5	210.5	29,300	54.4	214.3	30,000	56.4	216.5	28,800	105
110	49.1	206.3	28,000	52.0	210.5	28,200	54.1	213.1	27,100	110
115	46.5	201.8	26,800	49.5	206.5	26,600	51.7	209.3	25,500	115
116	45.9	200.8	26,600	49.0	205.6	26,300	51.2	208.5	25,200	116
120	43.8	196.8	25,700	47.0	202.0	25,100	49.2	205.2	24,100	120
125	41.0	191.3	24,500	44.3	197.1	23,700	46.7	200.7	22,700	125
130	37.9	185.3	23,500	41.5	191.7	22,400	44.0	195.7	21,500	130
134	35.4	179.8	22,700	39.1	187.0	21,500	41.7	191.3	20,600	134
135	34.7	178.5	22,500	38.5	185.8	21,300	41.1	190.3	20,400	135
140	31.2	170.8	21,300	35.3	179.1	20,200	38.1	184.2	19,400	140
145	27.3	161.8	20,300	31.9	171.6	19,200	34.9	177.5	18,400	145
150	22.8	151.1	19,300	28.1	162.9	18,300	31.4	169.8	17,500	150
155	17.2	137.4	18,400	23.7	152.6	17,400	27.6	161.0	16,700	155
160	8.7	115.6	17,500	18.4	139.6	16,600	23.1	150.4	15,900	160
161	5.6	107.6	17,300	16.8	135.7	16,400	22.0	147.7	15,700	161
165				10.7	120.3	15,800	17.6	137.0	15,100	165
167				5.2	106.1	15,400	14.3	128.6	14,800	167
170							9.4	116.2	14,400	170
172							1.1	94.4	14,000	172
175										175
179										179
180										180
185										185
186										186
190										190
193										193

MLC200 S-1

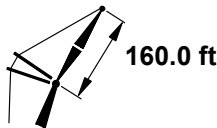
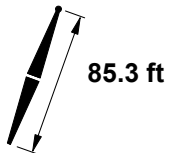
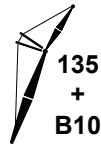
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
51										51
55										55
60										60
65										65
67										67
70										70
75										75
79										79
80										80
85										85
90										90
95										95
98	62.7	223.1	29,600							98
100	61.9	222.1	28,800							100
105	59.7	219.3	26,900							105
110	57.4	216.2	25,300							110
115	55.1	212.9	23,800							115
116	54.7	212.1	23,500	57.9	214.4	21,800				116
120	52.8	209.2	22,400	56.1	211.8	20,800				120
125	50.3	205.2	21,200	53.7	208.3	19,600				125
130	47.8	200.9	20,000	51.3	204.5	18,500				130
134	45.7	197.1	19,200	49.3	201.1	17,700	52.7	203.6	16,300	134
135	45.2	196.2	19,000	48.9	200.3	17,500	52.2	202.9	16,100	135
140	42.4	190.9	18,000	46.3	195.7	16,600	49.8	198.8	15,300	140
145	39.5	185.2	17,100	43.6	190.7	15,700	47.2	194.4	14,500	145
150	36.4	178.8	16,200	40.7	185.2	14,900	44.5	189.5	13,700	150
155	33.0	171.6	15,400	37.7	179.1	14,200	41.8	184.2	13,000	155
160	29.4	163.3	14,700	34.4	172.2	13,500	38.8	178.3	12,400	160
161	28.5	161.3	14,500	33.7	170.6	13,400	38.2	177.0	12,200	161
165	25.2	153.6	14,000	30.9	164.4	12,800	35.6	171.7	11,700	165
167	23.2	148.8	13,700	29.3	160.8	12,600	34.3	168.7	11,500	167
170	20.2	141.6	13,300	27.0	155.3	12,200	32.2	164.3	11,200	170
172	17.6	135.1	13,100	25.1	151.0	12,000	30.7	160.9	10,900	172
175	13.7	125.2	12,700	22.4	144.4	11,600	28.4	155.7	10,600	175
179	3.3	98.4	12,100	17.8	133.2	11,200	25.0	147.6	10,200	179
180				16.7	130.3	11,100	24.1	145.6	10,100	180
185				7.5	107.0	10,500	18.9	132.9	9,600	185
186				3.5	96.6	10,400	17.4	129.2	9,500	186
190							11.6	114.6	9,100	190
193							2.0	89.4	8,700	193

MLC200 S-1

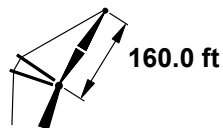
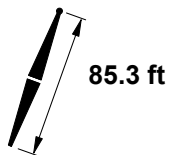
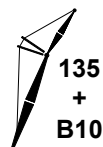
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
54	74.7	247.3	41,200						54	
55	74.3	247.1	41,100						55	
60	72.4	245.6	40,100						60	
65	70.5	243.9	38,400						65	
70	68.6	242.0	36,700	70.9	243.5	38,600			70	
75	66.7	240.0	35,000	69.0	241.7	37,000			75	
80	64.7	237.7	33,400	67.1	239.7	35,400			80	
82	63.9	236.7	32,800	66.3	238.8	34,800	68.0	239.9	36,100	82
85	62.7	235.3	31,900	65.1	237.5	33,800	66.8	238.7	35,200	85
90	60.7	232.6	30,400	63.1	235.1	32,300	64.9	236.4	33,600	90
95	58.6	229.6	29,000	61.1	232.4	30,800	62.9	234.0	32,100	95
100	56.5	226.5	27,600	59.0	229.5	29,400	60.8	231.3	30,500	100
102	55.6	225.1	27,100	58.2	228.3	28,800	60.0	230.1	29,700	102
105	54.3	223.0	26,300	56.9	226.4	28,000	58.8	228.4	28,600	105
110	52.1	219.3	25,100	54.7	223.0	26,700	56.6	225.2	26,800	110
115	49.8	215.2	23,800	52.5	219.3	25,400	54.5	221.8	25,200	115
120	47.4	210.8	22,700	50.2	215.3	24,200	52.2	218.1	23,800	120
122	46.4	208.9	22,200	49.3	213.6	23,700	51.3	216.5	23,300	122
125	44.9	206.0	21,600	47.9	211.0	23,000	49.9	214.0	22,500	125
130	42.3	200.8	20,600	45.4	206.3	21,900	47.6	209.7	21,300	130
135	39.6	195.0	19,600	42.8	201.1	20,800	45.1	204.9	20,100	135
140	36.7	188.6	18,600	40.1	195.4	19,800	42.5	199.7	19,100	140
145	33.6	181.5	17,800	37.2	189.2	18,900	39.8	193.9	18,100	145
150	30.2	173.5	16,900	34.2	182.2	18,000	36.9	187.6	17,200	150
155	26.4	164.2	16,200	30.8	174.4	17,200	33.8	180.6	16,400	155
160	22.1	153.1	15,400	27.2	165.4	16,400	30.4	172.6	15,600	160
165	16.7	138.9	14,600	22.9	154.7	15,600	26.7	163.4	14,900	165
170	8.4	116.4	13,800	17.8	141.2	14,800	22.4	152.4	14,200	170
171	5.4	108.1	13,600	16.3	137.2	14,700	21.3	149.6	14,100	171
175				10.4	121.2	13,900	17.0	138.5	13,500	175
177				5.1	106.5	13,700	13.9	129.9	13,300	177
180							9.1	117.0	12,900	180
182							1.0	94.5	12,600	182
185										185
189										189
190										190
195										195
196										196
200										200
203										203

MLC200 S-1

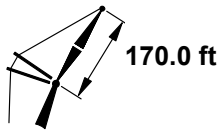
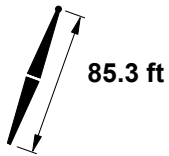
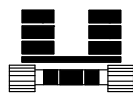
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
54										54
55										55
60										60
65										65
70										70
75										75
80										80
82										82
85										85
90										90
95										95
100										100
102	63.0	232.3	27,700							102
105	61.7	230.7	26,600							105
110	59.7	227.9	25,000							110
115	57.6	224.9	23,500							115
120	55.5	221.6	22,100							120
122	54.6	220.1	21,600	57.6	222.5	20,000				122
125	53.2	218.0	20,900	56.3	220.5	19,300				125
130	51.0	214.1	19,700	54.2	217.0	18,200				130
135	48.6	209.9	18,700	51.9	213.3	17,200				135
140	46.2	205.3	17,700	49.6	209.2	16,300	52.7	211.6	14,900	140
145	43.7	200.2	16,800	47.2	204.8	15,400	50.4	207.7	14,100	145
150	41.0	194.8	15,900	44.7	199.9	14,600	48.1	203.4	13,400	150
155	38.2	188.7	15,100	42.1	194.6	13,900	45.6	198.7	12,700	155
160	35.2	182.0	14,400	39.4	188.8	13,200	43.1	193.6	12,000	160
165	32.0	174.5	13,700	36.4	182.4	12,600	40.4	188.0	11,400	165
170	28.4	165.9	13,100	33.3	175.2	11,900	37.5	181.8	10,900	170
171	27.6	163.9	12,900	32.6	173.6	11,800	36.9	180.4	10,700	171
175	24.4	155.8	12,400	29.9	167.1	11,400	34.5	174.9	10,300	175
177	22.4	150.8	12,200	28.4	163.3	11,100	33.1	171.8	10,100	177
180	19.6	143.4	11,800	26.1	157.7	10,800	31.2	167.1	9,800	180
182	17.0	136.6	11,600	24.3	153.2	10,600	29.7	163.6	9,600	182
185	13.2	126.4	11,300	21.7	146.4	10,300	27.5	158.2	9,300	185
189	3.2	98.7	10,800	17.2	134.7	9,900	24.2	149.8	8,900	189
190				16.1	131.8	9,800	23.3	147.7	8,800	190
195				7.3	107.6	9,300	18.3	134.6	8,400	195
196				3.4	96.9	9,100	16.9	130.8	8,300	196
200							11.3	115.6	7,900	200
203							1.9	89.6	7,600	203

MLC200 S-1

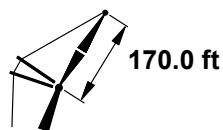
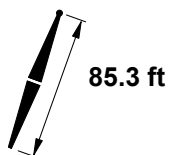
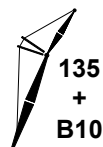
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
56	74.9	257.2	38,100							56
60	73.5	256.0	37,000							60
65	71.7	254.5	35,400							65
70	70.0	252.7	33,800							70
73	68.9	251.6	32,900	71.0	253.1	34,800				73
75	68.1	250.8	32,200	70.3	252.4	34,100				75
80	66.3	248.7	30,800	68.5	250.5	32,600				80
85	64.5	246.4	29,300	66.7	248.4	31,100				85
86	64.1	245.9	29,000	66.3	248.0	30,800	67.9	249.1	32,000	86
90	62.6	243.9	27,900	64.8	246.2	29,600	66.4	247.4	30,800	90
95	60.7	241.2	26,500	62.9	243.7	28,200	64.6	245.1	29,400	95
100	58.7	238.3	25,200	61.0	241.1	26,800	62.7	242.6	28,000	100
105	56.7	235.2	23,900	59.1	238.2	25,500	60.8	240.0	26,700	105
107	55.9	233.8	23,500	58.3	236.9	25,000	60.0	238.8	26,200	107
110	54.7	231.7	22,800	57.1	235.1	24,300	58.8	237.1	25,400	110
115	52.6	228.1	21,600	55.1	231.7	23,000	56.8	233.9	24,100	115
120	50.4	224.1	20,500	53.0	228.1	21,900	54.8	230.5	22,900	120
125	48.2	219.8	19,400	50.8	224.2	20,700	52.7	226.9	21,800	125
127	47.3	217.9	19,000	49.9	222.5	20,300	51.9	225.3	21,300	127
130	45.9	215.1	18,400	48.6	219.9	19,700	50.6	222.9	20,700	130
135	43.5	210.1	17,500	46.3	215.3	18,700	48.4	218.6	19,600	135
140	41.0	204.6	16,500	44.0	210.4	17,700	46.1	214.0	18,600	140
145	38.4	198.6	15,700	41.5	205.0	16,800	43.7	209.0	17,600	145
146	37.8	197.2	15,500	40.9	203.8	16,600	43.2	207.9	17,400	146
150	35.6	191.9	14,900	38.9	199.0	15,900	41.2	203.5	16,600	150
155	32.6	184.5	14,100	36.1	192.5	15,000	38.5	197.5	15,800	155
160	29.3	176.2	13,300	33.1	185.3	14,200	35.8	190.9	15,000	160
165	25.6	166.5	12,300	29.9	177.1	13,500	32.8	183.6	14,200	165
170	21.4	155.0	11,500	26.3	167.7	12,600	29.5	175.3	13,400	170
175	16.2	140.3	10,600	22.2	156.7	11,600	25.9	165.7	12,400	175
180	8.1	117.1	9,900	17.2	142.7	10,800	21.7	154.4	11,600	180
181	5.2	108.5	9,800	15.8	138.6	10,600	20.7	151.5	11,400	181
185				10.1	122.1	10,000	16.5	140.0	10,700	185
187				4.9	106.9	9,800	13.5	131.1	10,400	187
190							8.9	117.8	9,900	190
192							1.0	94.5	9,800	192
195										195
199										199
200										200
205										205
206										206
210										210
213										213

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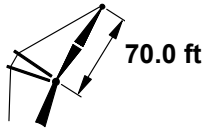
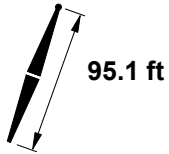
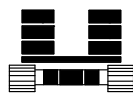
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
56										56
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	241.0	25,700							107
110	61.6	239.4	24,700							110
115	59.7	236.6	23,200							115
120	57.7	233.5	21,900							120
125	55.7	230.3	20,600							125
127	54.9	228.8	20,200	57.8	231.1	18,600				127
130	53.7	226.7	19,500	56.6	229.2	18,000				130
135	51.5	222.9	18,400	54.5	225.8	17,000				135
140	49.4	218.8	17,500	52.4	222.1	16,100				140
145	47.1	214.3	16,600	50.3	218.1	15,200				145
146	46.6	213.3	16,400	49.8	217.2	15,000	52.7	219.6	13,700	146
150	44.7	209.4	15,700	48.0	213.7	14,400	51.0	216.5	13,100	150
155	42.3	204.2	14,900	45.7	209.0	13,700	48.8	212.3	12,500	155
160	39.7	198.4	14,200	43.3	204.0	13,000	46.6	207.7	11,800	160
165	37.0	192.1	13,500	40.8	198.4	12,300	44.2	202.8	11,200	165
170	34.1	185.1	12,900	38.1	192.3	11,700	41.7	197.4	10,600	170
175	31.0	177.3	12,300	35.3	185.6	11,200	39.1	191.6	10,100	175
180	27.5	168.4	11,700	32.3	178.2	10,600	36.4	185.1	9,600	180
181	26.8	166.3	11,600	31.6	176.5	10,500	35.8	183.7	9,500	181
185	23.6	157.9	11,100	29.0	169.7	10,100	33.4	177.9	9,100	185
187	21.8	152.8	10,900	27.5	165.8	9,900	32.1	174.7	8,900	187
190	19.0	145.1	10,600	25.3	160.0	9,600	30.2	169.9	8,600	190
192	16.5	138.1	10,400	23.6	155.3	9,400	28.8	166.2	8,500	192
195	12.8	127.6	10,100	21.0	148.3	9,100	26.7	160.6	8,200	195
199	3.1	99.0	9,600	16.7	136.2	8,800	23.4	151.9	7,900	199
200				15.6	133.2	8,700	22.6	149.7	7,800	200
205				7.1	108.2	8,200	17.7	136.1	7,400	205
206				3.3	97.2	8,100	16.4	132.2	7,300	206
210							10.9	116.6	7,000	210
213							1.8	89.8	6,700	213

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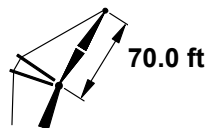
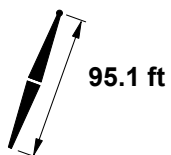
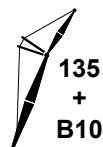
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
31	74.4	170.3	110,400 d							31
35	71.0	169.1	110,400 c							35
40	66.6	167.1	108,600 b							40
42	64.8	166.2	103,900 b	70.7	168.2	101,400 c				42
45	62.1	164.7	96,800 b	68.0	167.1	92,400 c				45
50	57.3	161.8	84,300	63.6	164.8	80,400 b	68.0	166.2	77,600 c	50
55	52.3	158.3	74,500	58.9	162.1	71,100 b	63.5	163.9	68,500 b	55
60	47.0	154.0	66,600	54.0	158.7	63,500	58.8	161.2	61,300 b	60
64	42.2	149.9	61,400	49.8	155.5	58,600	54.9	158.5	56,500 b	64
65	41.1	148.9	60,100	48.7	154.7	57,400	53.9	157.8	55,300	65
70	34.4	142.4	54,700	43.0	149.9	52,200	48.6	153.8	50,300	70
75	26.3	133.8	50,000	36.6	143.9	47,800	42.9	148.9	46,100	75
77	21.5	128.4	48,400	33.6	140.8	46,300	40.4	146.5	44,600	77
80	14.5	120.4	46,000	29.1	136.2	44,000	36.5	142.9	42,400	80
82	4.6	108.5	44,400	25.1	131.7	42,600	33.5	139.8	41,100	82
85				19.0	125.0	40,600	28.9	135.1	39,200	85
88				8.8	112.9	38,700	22.9	128.4	37,500	88
90							18.8	123.8	36,300	90
93							8.3	111.4	34,700	93
95										95
100										100
101										101
105										105
109										109
110										110
115										115
117										117

MLC200 S-1

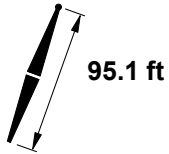
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
31										31
35										35
40										40
42										42
45										45
50										50
55										55
60										60
64	62.6	161.4	52,900 b							64
65	61.7	160.9	51,900 b							65
70	56.9	157.9	47,200							70
75	51.9	154.4	43,200							75
77	49.7	152.6	41,800	57.8	155.8	39,000 b				77
80	46.5	150.0	39,700	54.8	153.8	37,100				80
82	44.1	147.9	38,500	52.7	152.3	36,000				82
85	40.5	144.8	36,800	49.6	149.9	34,300				85
88	36.5	140.8	35,200	46.3	147.1	32,800				88
90	33.8	138.2	34,100	44.0	145.2	31,900	52.4	148.7	29,600	90
93	28.8	132.9	32,700	40.3	141.8	30,500	49.1	146.1	28,400	93
95	25.5	129.4	31,700	37.8	139.5	29,700	47.0	144.4	27,600	95
100	13.0	115.0	29,600	30.5	132.1	27,700	41.1	139.3	25,800	100
101	8.7	109.8	29,100	28.6	130.0	27,300	39.8	138.0	25,400	101
105				21.0	121.7	25,900	34.4	132.8	24,100	105
109				7.8	106.1	24,500	27.9	126.0	22,900	109
110							26.3	124.3	22,600	110
115							14.6	110.8	21,200	115
117							4.8	99.1	20,500	117

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ASME B30.5



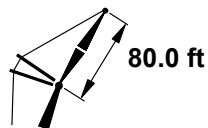
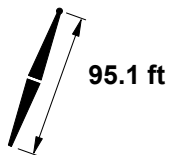
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
33	75.0	180.1	100,900 c							33
35	73.5	179.6	100,800 c							35
40	69.7	177.9	100,200 b							40
45	65.8	175.8	95,300 b	70.9	177.7	92,100 c				45
50	61.8	173.4	84,100	67.1	175.8	80,200 b				50
54	58.5	171.1	76,200	63.9	173.9	72,700 b	67.8	175.3	69,800 b	54
55	57.7	170.5	74,300	63.1	173.5	70,800 b	67.0	174.9	68,200 b	55
60	53.3	167.0	66,400	59.0	170.7	63,300	63.0	172.6	61,000 b	60
65	48.7	163.0	60,000	54.8	167.5	57,100	59.0	169.8	55,000	65
69	44.8	159.2	55,600	51.1	164.4	53,000	55.5	167.2	51,000	69
70	43.8	158.2	54,600	50.2	163.6	52,000	54.7	166.5	50,000	70
75	38.3	152.5	50,000	45.4	159.1	47,600	50.2	162.7	45,800	75
80	32.1	145.4	46,000	40.1	153.7	43,800	45.3	158.1	42,200	80
83	27.6	139.8	43,900	36.6	149.7	41,800	42.1	154.9	40,300	83
85	24.5	136.1	42,500	34.2	147.1	40,500	40.0	152.7	39,000	85
90	13.5	121.6	39,400	27.2	138.7	37,600	34.1	146.1	36,200	90
92	4.3	108.8	38,200	23.4	133.8	36,600	31.3	142.7	35,200	92
95				17.8	126.6	35,000	27.0	137.6	33,700	95
96				14.6	122.2	34,500	25.1	135.2	33,300	96
98				8.2	113.6	33,500	21.4	130.3	32,400	98
100							17.6	125.4	31,500	100
103							7.8	112.1	30,200	103
105										105
110										110
111										111
115										115
119										119
120										120
125										125
127										127

MLC200 S-1

ASME B30.5



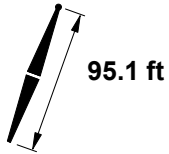
114,600 lb
+
0 lb



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
33										33
35										35
40										40
45										45
50										50
54										54
55										55
60										60
65										65
69	62.3	170.1	47,700							69
70	61.5	169.6	46,800							70
75	57.3	166.6	42,900							75
80	53.0	163.1	39,500							80
83	50.2	160.7	37,700	57.2	163.8	35,000				83
85	48.3	159.0	36,500	55.5	162.5	34,000				85
90	43.3	154.2	33,900	51.0	158.8	31,500				90
92	41.1	151.8	32,900	49.1	157.0	30,700				92
95	37.8	148.3	31,600	46.2	154.4	29,400				95
96	36.6	146.9	31,100	45.2	153.3	29,000	52.5	156.7	26,900	96
98	34.0	144.0	30,300	43.1	151.2	28,200	50.6	155.0	26,100	98
100	31.5	141.1	29,500	41.0	149.1	27,400	48.7	153.4	25,400	100
103	26.9	135.4	28,300	37.6	145.3	26,400	45.8	150.5	24,400	103
105	23.8	131.6	27,600	35.2	142.8	25,700	43.8	148.6	23,800	105
110	12.2	116.1	25,800	28.4	134.7	24,100	38.3	142.9	22,300	110
111	8.1	110.5	25,500	26.7	132.5	23,800	37.1	141.4	22,100	111
115				19.6	123.5	22,600	32.1	135.8	21,000	115
119				7.3	106.8	21,500	26.1	128.4	20,000	119
120							24.6	126.5	19,700	120
125							13.6	112.1	18,500	125
127							4.5	99.5	18,000	127

MLC200 S-1

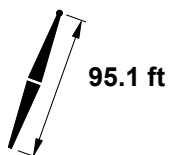
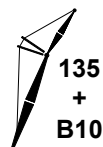
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
36	74.7	189.7	90,500 c							36
40	72.0	188.5	87,700 c							40
45	68.6	186.7	83,600 b							45
49	65.9	185.0	80,600 b	70.4	186.9	82,100 b				49
50	65.2	184.6	79,800	69.7	186.6	80,000 b				50
55	61.6	182.1	74,100	66.3	184.5	70,600 b				55
58	59.4	180.3	69,400	64.2	183.1	66,100 b	67.6	184.5	63,500 b	58
60	57.9	179.1	66,300	62.8	182.2	63,100	66.2	183.6	60,800 b	60
65	54.1	175.8	59,800	59.1	179.4	57,000	62.7	181.3	54,800	65
70	50.1	171.9	54,500	55.4	176.2	51,800	59.1	178.5	49,900	70
73	47.5	169.2	51,700	53.0	173.9	49,200	56.8	176.5	47,300	73
75	45.8	167.4	49,900	51.4	172.4	47,500	55.3	175.3	45,700	75
80	41.1	162.1	45,900	47.2	168.1	43,700	51.3	171.5	42,000	80
85	36.0	155.8	42,500	42.7	163.1	40,400	47.1	167.2	38,900	85
88	32.5	151.2	40,700	39.7	159.6	38,700	44.4	164.2	37,200	88
90	30.2	148.2	39,500	37.7	157.2	37,600	42.6	162.2	36,100	90
95	23.1	138.2	36,800	32.2	150.1	35,000	37.6	156.2	33,700	95
100	12.8	122.8	34,400	25.6	141.0	32,700	32.1	149.1	31,500	100
102	4.0	109.2	33,400	22.1	135.8	31,900	29.4	145.4	30,700	102
105				16.8	128.1	30,700	25.5	140.0	29,500	105
108				7.8	114.3	29,400	20.1	132.1	28,400	108
110							16.6	126.9	27,700	110
113							7.3	112.8	26,600	113
115										115
120										120
121										121
125										125
129										129
130										130
135										135
137										137

MLC200 S-1

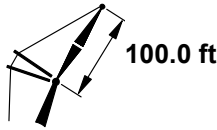
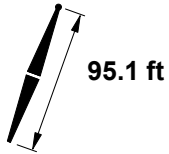
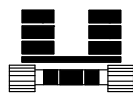
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
40										40
45										45
49										49
50										50
55										55
58										58
60										60
65										65
70										70
73	62.8	179.3	44,200							73
75	61.3	178.2	42,700							75
80	57.6	175.3	39,300							80
85	53.8	171.9	36,300							85
88	51.3	169.5	34,800	57.5	172.5	32,300				88
90	49.7	167.9	33,700	56.0	171.2	31,300				90
95	45.4	163.4	31,400	52.1	167.6	29,200				95
100	40.7	158.0	29,400	47.9	163.4	27,300				100
102	38.7	155.5	28,600	46.1	161.4	26,600	52.5	164.7	24,600	102
105	35.6	151.6	27,500	43.4	158.5	25,500	50.1	162.3	23,600	105
108	32.0	147.0	26,500	40.5	155.0	24,600	47.5	159.6	22,700	108
110	29.7	143.8	25,800	38.6	152.7	24,000	45.8	157.8	22,200	110
113	25.3	137.7	24,900	35.3	148.6	23,100	43.0	154.6	21,400	113
115	22.4	133.6	24,300	33.2	145.8	22,600	41.2	152.5	20,800	115
120	11.5	117.2	22,800	26.8	137.2	21,200	36.1	146.2	19,600	120
121	7.6	111.2	22,500	25.1	134.8	21,000	34.9	144.7	19,400	121
125				18.5	125.2	20,000	30.2	138.6	18,500	125
129				6.9	107.4	19,000	24.6	130.6	17,700	129
130							23.2	128.6	17,400	130
135							12.8	113.2	16,400	135
137							4.2	99.9	16,000	137

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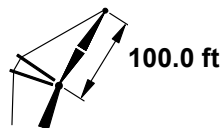
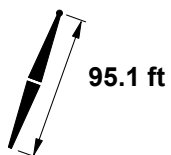
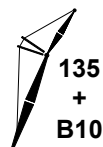
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
39	74.5	199.2	82,400 c						39	
40	73.9	198.9	82,200 c						40	
45	70.9	197.3	78,300 b						45	
50	67.8	195.5	74,600						50	
52	66.5	194.6	73,200	70.6	196.5	75,700 b			52	
55	64.7	193.3	71,100	68.8	195.4	70,300 b			55	
60	61.5	190.7	66,100	65.7	193.3	62,800			60	
62	60.1	189.5	63,500	64.4	192.3	60,400	67.5	193.7	57,900	
65	58.2	187.8	59,600	62.5	190.8	56,700	65.6	192.4	54,500	
70	54.7	184.5	54,200	59.2	188.0	51,600	62.4	189.9	49,600	
75	51.1	180.7	49,700	55.8	184.9	47,200	59.2	187.1	45,400	
78	48.8	178.1	47,300	53.7	182.7	45,000	57.1	185.2	43,200	
80	47.3	176.4	45,800	52.3	181.2	43,500	55.8	183.9	41,700	
85	43.3	171.5	42,300	48.6	177.1	40,200	52.2	180.3	38,600	
90	38.9	165.7	39,300	44.6	172.4	37,400	48.5	176.2	35,900	
93	36.1	161.7	37,700	42.1	169.1	35,800	46.1	173.3	34,400	
95	34.1	159.0	36,700	40.4	166.9	34,800	44.6	171.4	33,400	
100	28.6	150.8	34,300	35.7	160.5	32,600	40.3	166.0	31,200	
105	21.9	140.2	32,200	30.5	152.9	30,500	35.6	159.6	29,300	
108	16.0	130.4	31,000	26.7	147.1	29,400	32.5	154.9	28,200	
110	12.1	123.8	30,200	24.3	143.2	28,700	30.4	151.9	27,500	
112	3.8	109.6	29,400	20.9	137.7	28,000	27.9	148.0	26,900	
115				15.9	129.5	27,000	24.1	142.2	25,900	
118				7.4	115.0	26,000	19.1	133.9	25,000	
120							15.7	128.4	24,400	
123							7.0	113.4	23,500	
125									125	
130									130	
131									131	
135									135	
139									139	
140									140	
145									145	
147									147	

MLC200 S-1

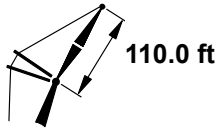
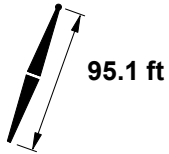
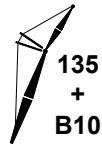
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
39										39
40										40
45										45
50										50
52										52
55										55
60										60
62										62
65										65
70										70
75										75
78	62.5	188.0	40,200							78
80	61.2	186.9	38,900							80
85	57.9	184.0	36,000							85
90	54.4	180.6	33,400							90
93	52.2	178.3	32,000	57.8	181.2	29,700				93
95	50.8	176.8	31,100	56.4	179.9	28,800				95
100	47.0	172.4	29,100	52.9	176.3	26,900				100
105	42.9	167.4	27,200	49.2	172.3	25,200				105
108	40.3	163.9	26,200	46.9	169.5	24,300	52.6	172.7	22,300	108
110	38.6	161.6	25,600	45.3	167.7	23,700	51.1	171.1	21,800	110
112	36.6	158.9	25,000	43.6	165.5	23,100	49.6	169.4	21,300	112
115	33.7	154.8	24,100	41.1	162.4	22,300	47.4	166.8	20,500	115
118	30.3	149.7	23,200	38.4	158.6	21,500	44.9	163.8	19,800	118
120	28.1	146.4	22,700	36.5	156.1	21,000	43.3	161.9	19,300	120
123	24.0	139.9	21,900	33.5	151.7	20,300	40.7	158.4	18,600	123
125	21.2	135.5	21,400	31.4	148.7	19,800	39.0	156.1	18,200	125
130	10.9	118.2	20,200	25.4	139.5	18,700	34.2	149.4	17,200	130
131	7.2	111.9	19,900	23.8	136.9	18,500	33.1	147.8	17,000	131
135				17.6	126.8	17,700	28.7	141.2	16,200	135
139				6.6	108.0	16,800	23.3	132.7	15,500	139
140							22.0	130.6	15,300	140
145							12.2	114.3	14,500	145
147							4.0	100.3	14,100	147

MLC200 S-1

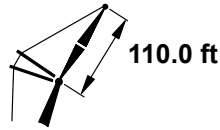
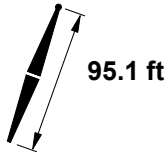
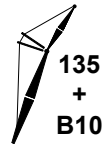
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
41	74.8	209.0	75,200 b							41
45	72.7	207.9	72,800 b							45
50	69.9	206.2	69,900							50
55	67.1	204.2	67,200	70.8	206.0	70,200 b				55
60	64.3	202.0	64,600	68.0	204.1	62,800				60
65	61.3	199.4	59,600	65.2	202.0	56,600	68.0	203.2	54,400	65
70	58.3	196.5	54,200	62.3	199.5	51,500	65.1	201.1	49,500	70
75	55.2	193.2	49,600	59.3	196.7	47,200	62.2	198.6	45,300	75
80	52.0	189.5	45,700	56.2	193.6	43,400	59.2	195.8	41,700	80
82	50.6	187.8	44,400	54.9	192.1	42,100	58.0	194.5	40,400	82
85	48.6	185.4	42,300	53.0	190.0	40,200	56.2	192.6	38,600	85
90	45.0	180.7	39,300	49.7	186.0	37,300	53.0	189.1	35,800	90
95	41.2	175.3	36,700	46.2	181.5	34,800	49.6	185.1	33,400	95
98	38.7	171.6	35,300	43.9	178.4	33,500	47.5	182.4	32,100	98
100	37.1	169.2	34,300	42.4	176.4	32,600	46.1	180.5	31,200	100
105	32.5	162.0	32,200	38.4	170.5	30,500	42.4	175.4	29,300	105
110	27.3	153.3	30,300	34.0	163.7	28,700	38.4	169.5	27,500	110
114	22.2	144.3	28,900	30.0	157.2	27,400	34.8	164.0	26,300	114
115	20.9	142.1	28,500	29.0	155.5	27,100	33.9	162.7	25,900	115
120	11.5	124.9	26,900	23.1	145.3	25,500	28.9	154.5	24,500	120
122	3.7	109.9	26,200	19.9	139.5	25,000	26.6	150.4	23,900	122
125				15.2	130.9	24,100	23.0	144.2	23,100	125
128				7.0	115.6	23,300	18.2	135.5	22,400	128
130							15.0	129.7	21,900	130
133							6.6	114.0	21,100	133
135										135
140										140
141										141
145										145
149										149
150										150
155										155
157										157

MLC200 S-1

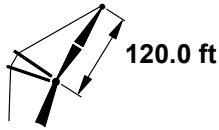
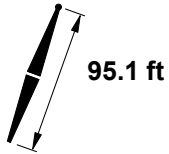
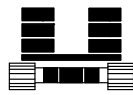
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
41										41
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
82	62.8	197.2	37,600							82
85	61.1	195.6	35,900							85
90	58.1	192.6	33,300							90
95	54.9	189.3	31,100							95
98	53.0	187.1	29,900	58.0	189.9	27,600				98
100	51.7	185.6	29,000	56.7	188.6	26,900				100
105	48.3	181.4	27,200	53.6	185.1	25,200				105
110	44.7	176.6	25,600	50.2	181.2	23,600				110
114	41.6	172.3	24,400	47.5	177.6	22,500	52.6	180.7	20,700	114
115	40.9	171.2	24,100	46.8	176.8	22,200	52.0	179.9	20,500	115
120	36.7	165.0	22,700	43.1	171.7	21,000	48.6	175.8	19,300	120
122	34.8	162.1	22,200	41.5	169.4	20,500	47.2	173.9	18,800	122
125	32.1	157.7	21,500	39.1	166.0	19,800	45.0	171.1	18,200	125
128	28.9	152.4	20,800	36.5	162.0	19,200	42.7	167.9	17,600	128
130	26.8	148.8	20,300	34.8	159.4	18,700	41.2	165.7	17,200	130
133	22.9	141.9	19,700	31.9	154.6	18,100	38.7	162.0	16,600	133
135	20.3	137.4	19,200	29.9	151.5	17,700	37.1	159.6	16,200	135
140	10.4	119.1	18,200	24.2	141.7	16,800	32.5	152.4	15,400	140
141	6.9	112.5	18,000	22.7	139.0	16,600	31.5	150.6	15,200	141
145				16.7	128.3	15,900	27.3	143.7	14,600	145
149				6.3	108.6	15,200	22.2	134.7	14,000	149
150							20.9	132.5	13,800	150
155							11.6	115.4	13,100	155
157							3.8	100.6	12,700	157

MLC200 S-1

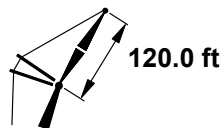
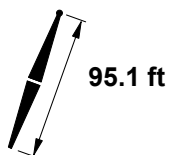
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
44	74.6	218.6	68,100 b							44
45	74.2	218.3	67,600 b							45
50	71.7	216.8	64,700							50
55	69.1	215.0	62,100							55
58	67.6	213.8	60,600	71.0	215.6	64,100				58
60	66.5	212.9	59,600	69.9	214.8	62,500				60
65	63.9	210.6	57,200	67.4	212.9	56,300				65
69	61.8	208.6	54,600	65.3	211.1	52,200	67.8	212.4	50,100	69
70	61.2	208.0	54,000	64.8	210.7	51,200	67.3	212.0	49,200	70
75	58.5	205.1	49,400	62.1	208.2	46,900	64.7	209.8	45,000	75
80	55.6	201.9	45,500	59.4	205.4	43,100	62.0	207.3	41,400	80
85	52.7	198.3	42,100	56.5	202.2	39,900	59.3	204.5	38,300	85
87	51.4	196.7	40,900	55.4	200.8	38,800	58.2	203.2	37,200	87
90	49.6	194.3	39,100	53.6	198.7	37,100	56.5	201.3	35,500	90
95	46.4	189.7	36,500	50.6	194.9	34,600	53.6	197.8	33,100	95
100	43.0	184.7	34,100	47.4	190.5	32,300	50.5	193.9	31,000	100
104	40.1	180.1	32,400	44.8	186.6	30,700	48.0	190.4	29,400	104
105	39.4	179.0	32,000	44.1	185.6	30,300	47.4	189.6	29,000	105
110	35.4	172.4	30,100	40.6	180.2	28,500	44.0	184.7	27,300	110
115	31.1	164.8	28,400	36.7	173.9	26,800	40.5	179.2	25,700	115
120	26.1	155.6	26,800	32.5	166.7	25,300	36.7	172.9	24,300	120
125	20.0	143.9	25,300	27.8	158.1	24,000	32.5	165.7	22,900	125
130	11.1	125.9	24,000	22.1	147.3	22,700	27.7	157.0	21,700	130
132	3.5	110.2	23,400	19.1	141.3	22,200	25.4	152.7	21,200	132
135				14.5	132.2	21,500	22.0	146.2	20,600	135
138				6.7	116.2	20,800	17.4	137.1	19,900	138
140							14.3	131.0	19,500	140
143							6.3	114.5	18,800	143
145										145
150										150
151										151
155										155
159										159
160										160
165										165
167										167

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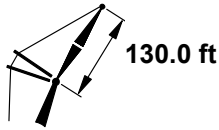
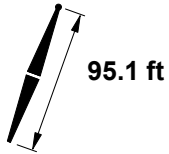
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
44										44
45										45
50										50
55										55
58										58
60										60
65										65
69										69
70										70
75										75
80										80
85										85
87	62.6	205.8	34,500							87
90	61.0	204.2	33,000							90
95	58.2	201.3	30,700							95
100	55.4	198.0	28,700							100
104	53.0	195.1	27,300	57.6	197.9	25,200				104
105	52.4	194.4	26,900	57.0	197.3	24,800				105
110	49.3	190.3	25,300	54.1	193.8	23,300				110
115	46.1	185.8	23,800	51.1	190.0	21,900				115
120	42.7	180.7	22,400	48.0	185.7	20,600	52.7	188.7	18,900	120
125	39.0	174.9	21,200	44.7	181.0	19,500	49.6	184.7	17,800	125
130	35.1	168.3	20,100	41.2	175.6	18,400	46.4	180.2	16,800	130
132	33.3	165.2	19,600	39.7	173.1	18,000	45.0	178.1	16,500	132
135	30.7	160.5	19,000	37.4	169.5	17,400	43.0	175.1	15,900	135
138	27.6	154.9	18,400	34.9	165.2	16,900	40.8	171.7	15,400	138
140	25.6	151.2	18,000	33.3	162.4	16,500	39.4	169.4	15,100	140
143	21.9	143.9	17,400	30.5	157.4	16,000	37.0	165.5	14,600	143
145	19.4	139.1	17,100	28.6	154.1	15,700	35.5	162.9	14,300	145
150	9.9	120.0	16,200	23.1	143.8	14,900	31.1	155.2	13,500	150
151	6.6	113.1	16,000	21.7	140.9	14,700	30.1	153.4	13,400	151
155				16.0	129.7	14,100	26.1	146.1	12,800	155
159				6.0	109.1	13,500	21.2	136.7	12,300	159
160							20.0	134.3	12,200	160
165							11.1	116.4	11,500	165
167							3.7	100.9	11,200	167

MLC200 S-1

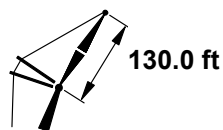
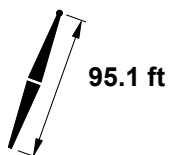
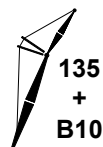
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
46	74.9	228.4	51,600 b							46
50	73.1	227.3	50,700							50
55	70.8	225.6	49,700							55
60	68.4	223.8	48,700							60
62	67.5	222.9	48,300	70.6	224.8	49,800				62
65	66.1	221.7	47,800	69.2	223.7	49,300				65
70	63.6	219.3	46,900	66.8	221.6	48,400				70
73	62.1	217.7	46,000	65.4	220.3	47,400	67.7	221.6	46,400	73
75	61.1	216.7	45,400	64.4	219.4	46,700	66.8	220.7	44,800	75
80	58.6	213.8	43,700	61.9	216.8	42,900	64.4	218.5	41,200	80
85	56.0	210.6	41,900	59.4	214.0	39,700	61.9	215.9	38,100	85
90	53.3	207.0	38,900	56.8	210.9	36,900	59.4	213.1	35,300	90
91	52.7	206.2	38,400	56.3	210.2	36,400	58.8	212.5	34,800	91
95	50.5	203.1	36,300	54.1	207.5	34,400	56.8	210.0	32,900	95
100	47.5	198.8	34,000	51.4	203.7	32,100	54.1	206.6	30,800	100
105	44.5	193.9	31,900	48.5	199.5	30,100	51.3	202.7	28,800	105
109	41.9	189.6	30,300	46.1	195.7	28,700	49.0	199.4	27,400	109
110	41.2	188.5	30,000	45.5	194.8	28,300	48.4	198.5	27,100	110
115	37.8	182.5	28,200	42.3	189.6	26,700	45.4	193.9	25,500	115
120	34.0	175.6	26,700	38.9	183.8	25,200	42.2	188.6	24,100	120
125	29.8	167.5	25,200	35.2	177.1	23,800	38.8	182.8	22,800	125
126	28.9	165.6	25,000	34.4	175.6	23,600	38.1	181.5	22,500	126
130	25.1	157.9	23,900	31.2	169.5	22,600	35.2	176.2	21,500	130
135	19.2	145.6	22,700	26.7	160.5	21,400	31.1	168.5	20,400	135
140	10.6	126.8	21,500	21.2	149.2	20,300	26.6	159.4	19,400	140
142	3.4	110.5	21,000	18.3	142.9	19,900	24.4	154.9	19,000	142
145				13.9	133.4	19,300	21.1	148.1	18,400	145
148				6.5	116.8	18,600	16.7	138.6	17,800	148
150							13.8	132.2	17,500	150
153							6.1	115.1	16,900	153
155										155
160										160
161										161
165										165
169										169
170										170
175										175
177										177

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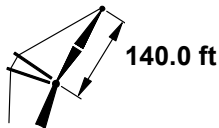
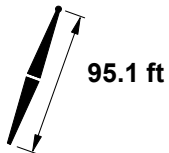
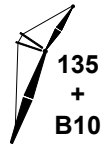
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
46										46
50										50
55										55
60										60
62										62
65										65
70										70
73										73
75										75
80										80
85										85
90										90
91	62.9	215.0	32,300							91
95	60.9	212.9	30,500							95
100	58.4	210.0	28,500							100
105	55.7	206.7	26,700							105
109	53.6	203.8	25,400	57.8	206.6	23,400				109
110	53.0	203.1	25,100	57.2	205.9	23,100				110
115	50.2	199.2	23,600	54.6	202.5	21,700				115
120	47.3	194.8	22,200	51.8	198.8	20,400				120
125	44.2	189.9	21,000	49.0	194.7	19,300				125
126	43.5	188.8	20,800	48.4	193.7	19,100	52.7	196.7	17,400	126
130	40.9	184.5	19,900	46.0	190.1	18,200	50.5	193.5	16,600	130
135	37.5	178.3	18,800	42.8	185.0	17,200	47.5	189.2	15,700	135
140	33.7	171.3	17,800	39.5	179.3	16,300	44.5	184.3	14,800	140
142	32.0	168.1	17,500	38.0	176.7	16,000	43.2	182.2	14,500	142
145	29.5	163.2	16,900	35.9	172.8	15,500	41.2	178.9	14,100	145
148	26.5	157.3	16,400	33.5	168.3	15,000	39.2	175.3	13,600	148
150	24.6	153.4	16,100	31.9	165.3	14,700	37.8	172.9	13,300	150
153	21.0	145.8	15,600	29.3	160.1	14,300	35.5	168.7	12,900	153
155	18.6	140.8	15,300	27.5	156.6	14,000	34.0	166.0	12,600	155
160	9.5	120.8	14,500	22.2	145.8	13,300	29.9	158.0	12,000	160
161	6.3	113.7	14,300	20.9	142.8	13,100	28.9	156.0	11,900	161
165				15.4	131.1	12,600	25.1	148.3	11,400	165
169				5.8	109.6	12,000	20.4	138.5	10,900	169
170							19.2	136.0	10,800	170
175							10.7	117.3	10,200	175
177							3.5	101.3	10,000	177

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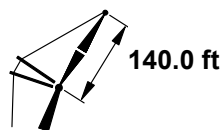
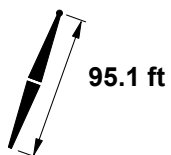
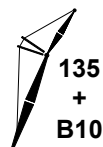
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
49	74.8	238.0	47,700							49
50	74.4	237.7	47,500							50
55	72.2	236.2	46,600							55
60	70.1	234.5	45,700							60
65	67.9	232.5	44,900	70.7	234.3	46,100				65
70	65.6	230.4	43,500	68.6	232.4	45,400				70
75	63.4	228.0	41,600	66.3	230.4	44,200				75
77	62.4	226.9	41,000	65.4	229.4	43,500	67.6	230.8	43,000	77
80	61.1	225.4	40,000	64.1	228.1	42,400	66.3	229.5	40,900	80
85	58.7	222.5	38,300	61.8	225.5	39,400	64.1	227.2	37,800	85
90	56.3	219.3	36,700	59.4	222.7	36,600	61.8	224.6	35,000	90
95	53.8	215.8	35,200	57.0	219.6	34,100	59.4	221.8	32,600	95
96	53.2	215.0	34,900	56.5	218.9	33,600	58.9	221.2	32,200	96
100	51.2	211.9	33,700	54.6	216.2	31,900	57.0	218.7	30,500	100
105	48.5	207.7	31,600	52.0	212.5	29,900	54.5	215.3	28,500	105
110	45.7	203.1	29,700	49.4	208.4	28,100	52.0	211.5	26,800	110
114	43.4	199.0	28,400	47.2	204.8	26,700	49.8	208.3	25,500	114
115	42.8	197.9	28,000	46.6	203.9	26,400	49.3	207.4	25,200	115
120	39.7	192.2	26,400	43.7	198.9	24,900	46.6	202.9	23,800	120
125	36.3	185.8	25,000	40.7	193.4	23,600	43.7	198.0	22,500	125
130	32.7	178.6	23,700	37.4	187.2	22,300	40.6	192.4	21,300	130
132	31.1	175.2	23,200	36.0	184.4	21,800	39.3	190.0	20,800	132
135	28.7	170.1	22,500	33.9	180.3	21,200	37.4	186.3	20,200	135
140	24.1	160.1	21,300	30.1	172.3	20,100	33.9	179.3	19,100	140
145	18.5	147.3	20,300	25.7	162.8	19,100	30.0	171.2	18,200	145
150	10.2	127.7	19,300	20.5	151.1	18,100	25.6	161.8	17,300	150
152	3.2	110.8	18,800	17.6	144.5	17,800	23.5	157.0	16,900	152
155				13.4	134.6	17,200	20.4	150.0	16,400	155
158				6.2	117.3	16,700	16.1	140.0	15,900	158
160							13.3	133.4	15,600	160
163							5.9	115.6	15,100	163
165										165
170										170
171										171
175										175
179										179
180										180
185										185
187										187

MLC200 S-1

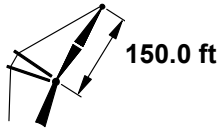
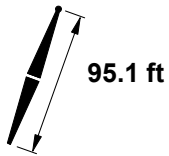
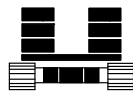
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
49										49
50										50
55										55
60										60
65										65
70										70
75										75
77										77
80										80
85										85
90										90
95										95
96	62.7	223.7	29,800							96
100	60.9	221.6	28,200							100
105	58.5	218.6	26,400							105
110	56.0	215.4	24,700							110
114	54.0	212.6	23,600	57.9	215.2	21,600				114
115	53.5	211.9	23,300	57.4	214.6	21,300				115
120	51.0	208.0	21,900	55.0	211.3	20,100				120
125	48.3	203.8	20,700	52.4	207.6	18,900				125
130	45.5	199.1	19,600	49.8	203.6	17,900				130
132	44.3	197.0	19,100	48.7	201.8	17,500	52.7	204.7	15,900	132
135	42.5	193.9	18,500	47.1	199.1	16,900	51.2	202.3	15,300	135
140	39.4	188.1	17,600	44.2	194.2	16,000	48.5	198.1	14,500	140
145	36.0	181.7	16,700	41.2	188.8	15,200	45.7	193.5	13,700	145
150	32.4	174.3	15,800	38.0	182.8	14,400	42.8	188.3	13,000	150
152	30.8	170.9	15,500	36.6	180.0	14,100	41.5	186.1	12,700	152
155	28.4	165.8	15,000	34.5	176.0	13,700	39.7	182.6	12,300	155
158	25.6	159.6	14,600	32.2	171.3	13,300	37.7	178.8	11,900	158
160	23.7	155.5	14,300	30.7	168.1	13,000	36.4	176.2	11,700	160
163	20.2	147.6	13,900	28.2	162.6	12,600	34.2	171.9	11,300	163
165	17.9	142.4	13,600	26.5	159.0	12,300	32.7	169.0	11,100	165
170	9.2	121.6	12,900	21.4	147.7	11,700	28.7	160.6	10,500	170
171	6.1	114.2	12,700	20.1	144.6	11,600	27.8	158.6	10,400	171
175				14.8	132.4	11,100	24.1	150.5	10,000	175
179				5.5	110.1	10,600	19.6	140.3	9,600	179
180							18.5	137.7	9,500	180
185							10.3	118.2	8,900	185
187							3.4	101.6	8,700	187

MLC200 S-1

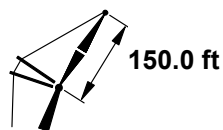
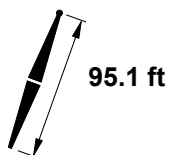
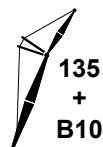
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
52	74.6	247.5	44,200							52
55	73.4	246.6	43,700							55
60	71.4	245.1	42,800							60
65	69.4	243.3	41,800							65
68	68.2	242.1	40,800	70.9	243.8	42,700				68
70	67.4	241.3	40,100	70.1	243.1	42,300				70
75	65.3	239.1	38,400	68.0	241.2	40,700				75
80	63.1	236.7	36,800	65.9	239.1	39,000	68.0	240.3	40,600	80
85	61.0	234.0	35,200	63.8	236.7	37,400	65.9	238.2	37,600	85
90	58.8	231.1	33,700	61.7	234.2	35,900	63.8	235.8	34,900	90
95	56.5	228.0	32,200	59.5	231.4	34,000	61.6	233.3	32,500	95
100	54.2	224.5	30,900	57.2	228.3	31,800	59.4	230.4	30,400	100
105	51.8	220.7	29,500	54.9	224.9	29,800	57.2	227.4	28,400	105
110	49.3	216.6	28,200	52.6	221.2	28,000	54.9	224.0	26,700	110
115	46.8	212.1	27,000	50.1	217.2	26,300	52.5	220.3	25,100	115
120	44.1	207.2	25,800	47.6	212.9	24,900	50.1	216.3	23,700	120
125	41.3	201.8	24,700	44.9	208.1	23,500	47.5	211.9	22,400	125
130	38.3	195.8	23,600	42.2	202.8	22,200	44.9	207.1	21,200	130
135	35.1	189.0	22,400	39.2	197.0	21,100	42.1	201.9	20,100	135
138	33.0	184.5	21,800	37.4	193.1	20,500	40.4	198.4	19,500	138
140	31.6	181.4	21,300	36.1	190.5	20,000	39.2	196.1	19,100	140
145	27.7	172.7	20,300	32.7	183.2	19,000	36.1	189.6	18,100	145
150	23.3	162.2	19,300	29.0	174.9	18,100	32.7	182.3	17,200	150
155	17.9	148.9	18,400	24.8	165.0	17,200	28.9	173.9	16,400	155
160	9.9	128.6	17,500	19.8	152.8	16,400	24.7	164.0	15,600	160
162	3.1	111.1	17,100	17.0	146.0	16,100	22.7	159.1	15,300	162
165				13.0	135.8	15,600	19.7	151.7	14,900	165
168				6.0	117.9	15,200	15.5	141.4	14,400	168
170							12.8	134.5	14,200	170
173							5.7	116.1	13,700	173
175										175
180										180
181										181
185										185
189										189
190										190
195										195
197										197

MLC200 S-1

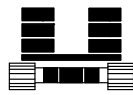
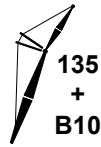
ASME B30.5



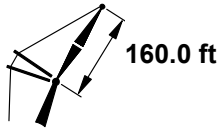
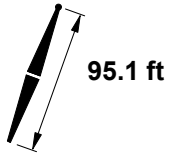
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
52										52
55										55
60										60
65										65
68										68
70										70
75										75
80										80
85										85
90										90
95										95
100	63.0	232.9	28,100							100
105	60.8	230.2	26,300							105
110	58.6	227.3	24,600							110
115	56.3	224.1	23,200							115
120	54.0	220.6	21,800	57.6	223.3	20,000				120
125	51.6	216.8	20,600	55.3	220.0	18,800				125
130	49.1	212.7	19,500	53.0	216.3	17,800				130
135	46.5	208.1	18,400	50.5	212.4	16,800				135
138	44.9	205.2	17,900	49.0	209.8	16,300	52.8	212.7	14,700	138
140	43.8	203.2	17,500	48.0	208.1	15,900	51.8	211.1	14,400	140
145	41.0	197.7	16,600	45.4	203.4	15,100	49.3	207.0	13,600	145
150	38.0	191.6	15,800	42.6	198.2	14,300	46.8	202.5	12,900	150
155	34.8	184.9	15,000	39.7	192.5	13,600	44.1	197.6	12,200	155
160	31.3	177.2	14,300	36.7	186.1	12,900	41.3	192.2	11,600	160
162	29.7	173.6	14,000	35.3	183.3	12,700	40.1	189.8	11,400	162
165	27.4	168.3	13,600	33.3	179.0	12,300	38.3	186.2	11,000	165
168	24.7	161.9	13,200	31.1	174.1	11,900	36.4	182.1	10,700	168
170	22.9	157.6	12,900	29.7	170.8	11,700	35.1	179.5	10,500	170
173	19.5	149.4	12,600	27.2	165.1	11,300	33.0	174.9	10,200	173
175	17.3	143.9	12,300	25.5	161.3	11,100	31.6	171.9	9,900	175
180	8.9	122.4	11,700	20.7	149.5	10,600	27.8	163.1	9,400	180
181	5.9	114.7	11,600	19.4	146.4	10,500	26.9	161.0	9,300	181
185				14.3	133.7	10,000	23.3	152.6	9,000	185
189				5.4	110.6	9,600	19.0	142.0	8,600	189
190							17.9	139.3	8,500	190
195							9.9	119.1	8,000	195
197							3.3	101.8	7,800	197

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ASME B30.5



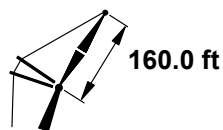
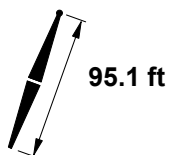
114,600 lb
+
0 lb



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
54	74.9	257.3	40,800						54	
55	74.5	257.0	40,600						55	
60	72.6	255.6	39,800						60	
65	70.7	253.9	38,300						65	
70	68.8	252.1	36,700						70	
71	68.4	251.7	36,300	71.0	253.4	38,500			71	
75	66.9	250.0	35,100	69.5	251.9	37,200			75	
80	64.9	247.8	33,500	67.5	250.0	35,600			80	
84	63.3	245.8	32,300	66.0	248.2	34,400	67.9	249.5	35,800	84
85	62.9	245.4	32,000	65.6	247.8	34,100	67.5	249.1	35,500	85
90	60.9	242.7	30,600	63.6	245.4	32,600	65.5	246.9	34,000	90
95	58.9	239.8	29,100	61.6	242.8	31,100	63.6	244.5	32,200	95
100	56.7	236.6	27,700	59.5	240.0	29,700	61.5	241.9	30,100	100
105	54.6	233.2	26,400	57.4	236.9	28,300	59.5	239.1	28,200	105
110	52.3	229.5	25,100	55.3	233.6	26,900	57.4	236.0	26,400	110
115	50.0	225.5	24,000	53.1	230.0	25,700	55.2	232.7	24,900	115
120	47.7	221.1	22,800	50.8	226.1	24,500	53.0	229.1	23,400	120
125	45.2	216.4	21,700	48.4	221.8	23,200	50.7	225.2	22,100	125
130	42.6	211.2	20,700	46.0	217.2	22,000	48.4	220.9	20,900	130
135	39.9	205.5	19,700	43.4	212.1	20,800	45.9	216.3	19,800	135
140	37.0	199.2	18,800	40.8	206.6	19,800	43.4	211.2	18,800	140
144	34.5	193.5	18,000	38.5	201.7	19,000	41.3	206.8	18,000	144
145	33.9	192.1	17,900	38.0	200.5	18,800	40.7	205.7	17,900	145
150	30.6	184.2	17,000	34.9	193.7	17,900	37.9	199.6	17,000	150
155	26.8	175.1	16,200	31.7	186.1	17,000	34.9	192.8	16,100	155
160	22.5	164.2	15,600	28.1	177.4	16,200	31.6	185.1	15,400	160
165	17.3	150.4	14,700	24.0	167.2	15,400	28.0	176.4	14,600	165
170	9.6	129.5	13,900	19.1	154.5	14,700	23.9	166.1	14,000	170
172	3.0	111.3	13,700	16.5	147.5	14,400	22.0	161.0	13,700	172
175				12.6	136.9	14,000	19.0	153.4	13,300	175
178				5.8	118.4	13,600	15.0	142.8	12,900	178
180							12.4	135.6	12,700	180
183							5.5	116.6	12,300	183
185										185
190										190
191										191
195										195
199										199
200										200
205										205
207										207

MLC200 S-1

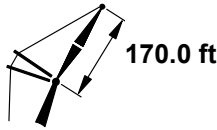
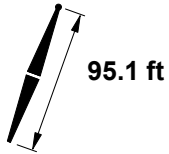
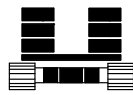
ASME B30.5



	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
84										84
85										85
90										90
95										95
100										100
105	62.8	241.6	25,900							105
110	60.7	238.9	24,300							110
115	58.7	236.0	22,800							115
120	56.6	232.8	21,500							120
125	54.4	229.3	20,300	57.8	231.9	18,500				125
130	52.1	225.6	19,200	55.6	228.7	17,500				130
135	49.8	221.6	18,100	53.4	225.1	16,500				135
140	47.5	217.2	17,200	51.2	221.2	15,600				140
144	45.5	213.3	16,500	49.3	217.9	14,900	52.8	220.7	13,400	144
145	45.0	212.4	16,300	48.8	217.0	14,800	52.3	219.9	13,300	145
150	42.4	207.1	15,500	46.4	212.5	14,000	50.0	215.9	12,600	150
155	39.6	201.4	14,700	43.9	207.5	13,300	47.7	211.5	11,900	155
160	36.8	195.0	14,000	41.2	202.0	12,600	45.2	206.8	11,300	160
165	33.6	187.9	13,300	38.4	196.0	12,000	42.6	201.6	10,700	165
170	30.3	179.9	12,700	35.5	189.4	11,400	39.9	195.9	10,100	170
172	28.8	176.2	12,400	34.2	186.4	11,200	38.7	193.4	9,900	172
175	26.5	170.7	12,100	32.2	181.9	10,800	37.0	189.6	9,600	175
178	23.9	164.0	11,700	30.1	176.8	10,500	35.2	185.4	9,300	178
180	22.1	159.6	11,500	28.7	173.4	10,300	33.9	182.6	9,100	180
183	18.9	151.1	11,200	26.3	167.5	10,000	31.9	177.8	8,900	183
185	16.8	145.4	10,900	24.7	163.5	9,800	30.6	174.6	8,700	185
190	8.6	123.2	10,400	20.0	151.3	9,300	26.9	165.5	8,200	190
191	5.7	115.2	10,300	18.8	148.1	9,200	26.0	163.3	8,100	191
195				13.9	134.9	8,800	22.6	154.6	7,800	195
199				5.2	111.1	8,400	18.4	143.6	7,500	199
200							17.3	140.9	7,400	200
205							9.6	120.0	7,000	205
207							3.2	102.1	6,800	207

MLC200 S-1

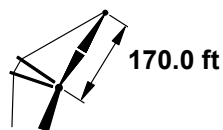
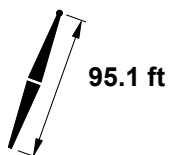
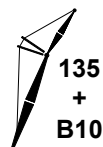
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
57	74.7	266.9	37,600						57	
60	73.7	266.0	36,900						60	
65	71.9	264.5	35,400						65	
70	70.1	262.7	33,800						70	
75	68.3	260.9	32,300	70.7	262.6	34,300			75	
80	66.5	258.8	30,800	68.9	260.7	32,800			80	
85	64.7	256.5	29,400	67.1	258.7	31,300			85	
88	63.5	255.0	28,600	66.0	257.4	30,400	67.8	258.7	31,800	
90	62.8	254.0	28,000	65.3	256.5	29,900	67.1	257.8	31,200	
95	60.9	251.4	26,600	63.4	254.1	28,500	65.2	255.6	29,800	
100	58.9	248.5	25,300	61.5	251.5	27,100	63.3	253.2	28,400	
105	56.9	245.3	24,100	59.5	248.7	25,800	61.4	250.6	27,100	
109	55.3	242.6	23,100	58.0	246.2	24,800	59.9	248.3	26,100	
110	54.9	241.9	22,900	57.6	245.6	24,500	59.5	247.8	25,800	
115	52.8	238.3	21,700	55.6	242.3	23,400	57.5	244.7	24,600	
120	50.7	234.3	20,600	53.5	238.7	22,100	55.5	241.4	23,200	
125	48.4	230.1	19,500	51.4	234.9	21,000	53.4	237.8	21,900	
130	46.2	225.5	18,500	49.2	230.7	20,000	51.3	234.0	20,700	
135	43.8	220.5	17,500	46.9	226.2	18,900	49.1	229.8	19,600	
140	41.3	215.0	16,600	44.5	221.4	18,000	46.9	225.3	18,600	
145	38.6	209.0	15,700	42.1	216.1	17,000	44.5	220.4	17,600	
150	35.9	202.5	15,000	39.5	210.3	16,200	42.0	215.1	16,800	
155	32.9	195.1	14,200	36.8	203.9	15,300	39.5	209.3	15,900	
160	29.6	186.9	13,300	33.9	196.8	14,500	36.7	202.9	15,200	
165	26.0	177.4	12,500	30.7	188.9	13,700	33.8	195.9	14,500	
170	21.9	166.2	11,500	27.2	179.9	12,800	30.6	187.9	13,700	
175	16.8	151.9	10,700	23.3	169.3	11,800	27.2	178.9	12,800	
180	9.3	130.3	10,000	18.5	156.2	11,000	23.2	168.2	11,900	
182	2.9	111.6	9,800	16.0	148.9	10,700	21.3	163.0	11,500	
185				12.2	138.0	10,200	18.5	155.1	11,000	
188				5.7	118.9	9,800	14.6	144.1	10,500	
190							12.0	136.7	10,200	
193							5.3	117.1	9,800	
195									195	
200									200	
201									201	
205									205	
209									209	
210									210	
215									215	
217									217	

MLC200 S-1

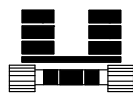
ASME B30.5



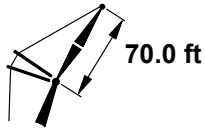
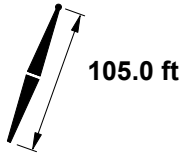
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
57										57
60										60
65										65
70										70
75										75
80										80
85										85
88										88
90										90
95										95
100										100
105										105
109	63.0	250.7	24,400							109
110	62.6	250.2	24,100							110
115	60.7	247.5	22,600							115
120	58.8	244.6	21,300							120
125	56.8	241.5	20,100							125
130	54.7	238.1	18,900	57.9	240.6	17,200				130
135	52.6	234.4	17,900	55.9	237.4	16,200				135
140	50.5	230.4	17,000	53.8	233.8	15,400				140
145	48.3	226.1	16,100	51.7	230.0	14,500				145
150	46.0	221.5	15,300	49.5	225.9	13,800	52.8	228.7	12,300	150
155	43.6	216.4	14,500	47.3	221.5	13,100	50.7	224.7	11,700	155
160	41.1	210.9	13,800	44.9	216.7	12,400	48.5	220.5	11,000	160
165	38.4	204.9	13,100	42.5	211.4	11,800	46.2	215.9	10,500	165
170	35.6	198.3	12,500	39.9	205.7	11,200	43.8	210.9	9,900	170
175	32.6	190.9	11,900	37.2	199.5	10,600	41.3	205.4	9,400	175
180	29.3	182.6	11,300	34.4	192.5	10,100	38.7	199.4	8,900	180
182	27.9	178.7	11,100	33.1	189.4	9,900	37.5	196.8	8,700	182
185	25.7	173.0	10,800	31.2	184.8	9,600	35.9	192.9	8,500	185
188	23.2	166.1	10,500	29.2	179.5	9,300	34.1	188.5	8,200	188
190	21.5	161.5	10,300	27.8	176.0	9,100	32.9	185.6	8,000	190
193	18.3	152.7	10,000	25.5	169.8	8,900	30.9	180.6	7,800	193
195	16.3	146.9	9,800	24.0	165.7	8,700	29.6	177.3	7,600	195
200	8.3	123.9	9,300	19.4	153.1	8,200	26.0	167.9	7,200	200
201	5.6	115.7	9,100	18.2	149.7	8,100	25.2	165.6	7,100	201
205				13.4	136.1	7,800	21.9	156.6	6,800	205
209				5.0	111.5	7,400	17.8	145.2	6,500	209
210							16.8	142.4	6,400	210
215							9.3	120.8	6,100	215
217							3.1	102.4	5,900	217

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ASME B30.5



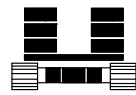
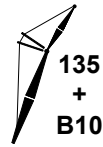
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
31	74.9	180.3	107,400 d							31
35	71.5	179.1	107,400 c							35
40	67.1	177.2	107,400 c							40
43	64.4	175.8	100,900 c	70.8	178.0	97,400 c				43
45	62.6	174.8	96,500 b	69.1	177.3	91,700 c				45
50	57.8	172.0	84,000 b	64.7	175.2	79,800 b				50
52	55.8	170.6	80,100 b	62.8	174.1	76,100 b	67.7	175.7	72,800 c	52
55	52.9	168.5	74,300	60.0	172.5	70,500 b	65.0	174.4	67,700 b	55
60	47.5	164.3	66,400	55.2	169.4	63,000	60.4	171.8	60,500 b	60
65	41.7	159.3	59,900	50.0	165.5	56,900	55.6	168.7	54,600	65
67	39.1	156.7	57,800	47.8	163.7	54,900	53.5	167.2	52,600	67
70	35.1	153.0	54,500	44.4	160.9	51,800	50.5	165.0	49,700	70
75	27.2	144.7	49,900	38.3	155.2	47,400	44.9	160.4	45,500	75
80	16.1	132.1	45,900	31.0	148.0	43,600	38.8	154.8	41,900	80
81	12.2	127.5	45,100	29.2	146.0	43,000	37.4	153.4	41,200	81
82	8.3	122.8	44,300	27.4	144.0	42,300	36.0	152.0	40,600	82
85				21.8	137.9	40,300	31.7	147.8	38,700	85
90				1.5	113.8	37,200	22.8	138.0	35,900	90
94							9.7	122.7	33,800	94
95							6.5	118.8	33,300	95
100										100
104										104
105										105
110										110
113										113
115										115
120										120
121										121

MLC200 S-1

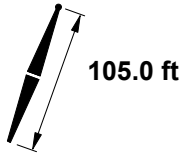
ASME B30.5



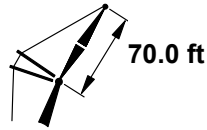
114,600 lb
+
0 lb



360°



105.0 ft

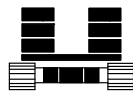


70.0 ft

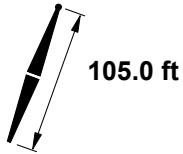
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
31										31
35										35
40										40
43										43
45										45
50										50
52										52
55										55
60										60
65										65
67	62.2	170.7	48,900 b							67
70	59.4	169.0	46,200 b							70
75	54.5	165.8	42,300							75
80	49.3	161.9	38,900							80
81	48.2	160.9	38,400	57.1	164.7	35,500 b				81
82	47.0	160.0	37,800	56.1	164.0	34,900 b				82
85	43.6	157.1	36,000	53.2	161.9	33,300				85
90	37.3	151.3	33,400	47.8	157.8	30,900				90
94	31.4	145.2	31,600	43.2	153.7	29,200	52.5	157.7	26,900	94
95	29.9	143.7	31,100	42.1	152.7	28,800	51.5	156.9	26,500	95
100	20.3	133.1	29,000	35.5	146.5	26,900	46.0	152.6	24,700	100
104	5.7	115.7	27,400	29.3	140.0	25,500	41.2	148.3	23,500	104
105				27.7	138.4	25,100	40.0	147.2	23,100	105
110				16.9	126.2	23,500	33.2	140.5	21,700	110
113				1.4	107.5	22,500	28.1	135.0	20,900	113
115							24.7	131.4	20,400	115
120							11.5	116.1	19,100	120
121							6.2	109.7	18,800	121

MLC200 S-1

ASME B30.5



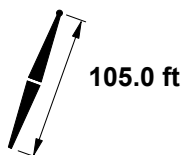
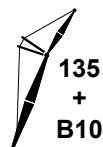
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	74.6	189.8	98,300 c							34
35	73.8	189.5	98,300 c							35
40	70.1	187.9	98,100 c							40
45	66.2	185.9	95,200 b							45
47	64.6	184.9	90,600 b	70.3	187.2	86,300 c				47
50	62.2	183.5	83,800 b	68.0	186.1	79,500 b				50
55	58.1	180.6	74,100	64.1	183.9	70,200 b				55
56	57.2	179.9	72,500	63.3	183.3	68,700 b	67.6	184.9	65,800 b	56
60	53.8	177.2	66,200	60.0	181.2	62,800	64.4	183.1	60,200 b	60
65	49.2	173.3	59,800	55.8	178.1	56,700	60.4	180.5	54,300	65
70	44.3	168.6	54,400	51.3	174.4	51,500	56.2	177.4	49,400	70
71	43.2	167.4	53,500	50.4	173.5	50,700	55.3	176.7	48,600	71
75	38.9	162.9	49,800	46.6	170.0	47,200	51.7	173.8	45,200	75
80	32.8	156.0	45,900	41.4	164.8	43,500	47.0	169.5	41,600	80
85	25.4	147.0	42,400	35.7	158.6	40,200	41.9	164.4	38,500	85
86	23.3	144.3	41,800	34.4	157.0	39,600	40.8	163.1	38,000	86
90	15.0	133.5	39,300	29.0	150.7	37,300	36.2	158.2	35,800	90
92	7.8	123.5	38,100	25.6	146.3	36,300	33.6	155.1	34,800	92
95				20.4	139.8	34,700	29.6	150.5	33,300	95
100				1.4	113.9	32,300	21.3	140.0	31,100	100
105							6.0	119.4	29,000	105
110										110
114										114
115										115
120										120
123										123
125										125
130										130
131										131

MLC200 S-1

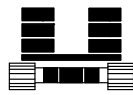
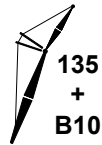
ASME B30.5



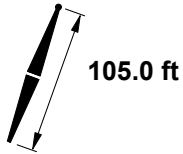
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
35										35
40										40
45										45
47										47
50										50
55										55
56										56
60										60
65										65
70										70
71	62.7	179.9	45,000 b							71
75	59.5	177.7	42,000							75
80	55.2	174.5	38,600							80
85	50.7	170.7	35,700							85
86	49.8	169.8	35,200	57.5	173.3	32,400				86
90	45.9	166.3	33,200	54.0	170.6	30,600				90
92	43.8	164.1	32,200	52.2	169.0	29,700				92
95	40.7	161.0	30,900	49.5	166.7	28,500				95
100	34.8	154.5	28,900	44.6	162.0	26,600	52.6	165.7	24,400	100
105	28.0	146.3	27,000	39.2	156.4	24,900	47.9	161.6	22,800	105
110	19.0	134.8	25,300	33.2	149.6	23,400	42.9	156.6	21,400	110
114	5.3	116.2	24,000	27.3	142.5	22,200	38.5	151.9	20,300	114
115				25.9	140.8	21,900	37.4	150.7	20,100	115
120				15.8	127.6	20,600	31.0	143.3	18,900	120
123				1.3	107.6	19,700	26.2	137.5	18,200	123
125							23.1	133.5	17,800	125
130							10.8	117.1	16,700	130
131							5.8	110.2	16,500	131

MLC200 S-1

ASME B30.5



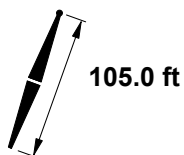
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
37	74.4	199.4	88,300 c							37
40	72.4	198.5	87,400 c							40
45	69.0	196.7	83,400 b							45
50	65.5	194.6	79,600 b	70.6	196.8	79,300 b				50
55	62.0	192.2	73,900	67.1	194.8	70,000 b				55
60	58.3	189.3	66,100	63.6	192.5	62,600	67.4	194.1	60,000 b	60
65	54.5	186.0	59,700	60.0	189.9	56,500	63.9	191.8	54,100	65
70	50.5	182.1	54,300	56.3	186.8	51,400	60.3	189.2	49,200	70
75	46.2	177.7	49,700	52.4	183.2	47,100	56.6	186.1	45,100	75
76	45.3	176.6	49,000	51.5	182.3	46,300	55.8	185.4	44,400	76
80	41.6	172.5	45,800	48.2	179.0	43,300	52.7	182.6	41,500	80
85	36.6	166.3	42,400	43.8	174.2	40,100	48.6	178.4	38,400	85
90	30.9	158.9	39,400	39.0	168.5	37,300	44.2	173.7	35,700	90
91	29.5	156.9	38,900	37.9	167.1	36,800	43.2	172.6	35,200	91
95	23.9	149.2	36,700	33.6	161.7	34,700	39.4	168.1	33,200	95
100	14.2	134.7	34,300	27.3	153.2	32,500	34.1	161.4	31,100	100
102	7.4	124.2	33,300	24.1	148.5	31,600	31.6	158.0	30,300	102
105				19.2	141.6	30,400	27.9	153.1	29,100	105
106				15.7	136.0	30,000	26.3	150.8	28,800	106
110				1.4	114.0	28,400	20.0	141.8	27,300	110
115							5.7	119.9	25,600	115
120										120
124										124
125										125
130										130
133										133
135										135
140										140
141										141

MLC200 S-1

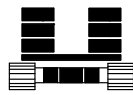
ASME B30.5



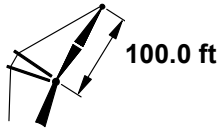
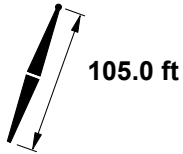
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
37										37
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
76	62.4	188.6	41,100							76
80	59.5	186.4	38,400							80
85	55.8	183.2	35,500							85
90	51.8	179.5	33,000							90
91	51.0	178.7	32,500	57.8	182.0	29,900				91
95	47.6	175.3	30,700	54.7	179.3	28,300				95
100	43.2	170.4	28,700	50.7	175.5	26,400				100
102	41.2	168.0	28,000	49.0	173.8	25,700				102
105	38.3	164.5	26,900	46.5	171.1	24,700				105
106	37.2	163.1	26,600	45.6	170.1	24,400	52.7	173.7	22,300	106
110	32.8	157.5	25,300	41.9	166.0	23,200	49.4	170.5	21,200	110
115	26.3	148.7	23,800	36.9	159.9	21,800	45.0	165.9	19,900	115
120	17.9	136.4	22,400	31.2	152.5	20,600	40.4	160.4	18,700	120
124	5.0	116.7	21,300	25.7	144.9	19,600	36.2	155.3	17,900	124
125				24.4	143.0	19,400	35.1	154.0	17,700	125
130				14.9	129.0	18,300	29.2	146.0	16,700	130
133				1.2	107.7	17,500	24.7	139.7	16,100	133
135							21.8	135.5	15,700	135
140							10.1	118.0	14,800	140
141							5.5	110.7	14,600	141

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ASME B30.5



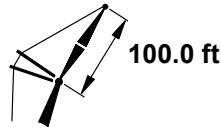
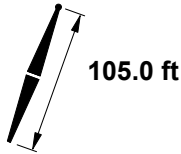
114,600 lb
+
0 lb



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
39	74.8	209.2	80,700 c							39
40	74.2	208.9	80,500 c							40
45	71.2	207.3	78,000 b							45
50	68.1	205.5	74,400 b							50
53	66.2	204.2	72,400 b	70.8	206.3	73,200 b				53
55	65.0	203.3	71,100	69.5	205.6	69,700 b				55
60	61.8	200.8	65,900	66.4	203.6	62,300				60
63	59.8	199.1	62,000	64.5	202.2	58,700	67.9	203.7	56,000	63
65	58.5	198.0	59,500	63.3	201.2	56,200	66.7	202.8	53,800	65
70	55.1	194.7	54,100	60.0	198.5	51,100	63.5	200.5	48,900	70
75	51.5	190.9	49,500	56.7	195.4	46,800	60.3	197.8	44,800	75
80	47.7	186.7	45,600	53.2	191.9	43,100	56.9	194.8	41,200	80
85	43.7	181.8	42,200	49.5	187.9	39,900	53.5	191.3	38,100	85
90	39.4	176.2	39,200	45.6	183.3	37,000	49.8	187.3	35,400	90
95	34.7	169.6	36,600	41.4	178.1	34,500	45.9	182.8	33,000	95
97	32.5	166.3	35,600	39.6	175.6	33,600	44.3	180.7	32,100	97
100	29.2	161.5	34,200	36.9	171.9	32,300	41.8	177.6	30,800	100
105	22.7	151.3	32,100	31.8	164.6	30,300	37.3	171.6	28,900	105
110	13.4	135.9	30,100	25.9	155.5	28,400	32.3	164.4	27,100	110
112	7.0	124.8	29,300	22.8	150.6	27,700	29.9	160.8	26,500	112
115				18.2	143.2	26,700	26.4	155.5	25,500	115
120				1.3	114.2	25,100	19.0	143.5	24,100	120
125							5.4	120.4	22,600	125
130										130
134										134
135										135
140										140
143										143
145										145
150										150
151										151

MLC200 S-1

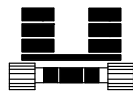
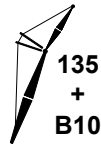
ASME B30.5



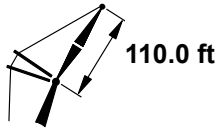
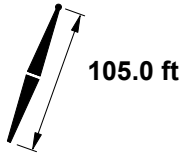
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
39										39
40										40
45										45
50										50
53										53
55										55
60										60
63										63
65										65
70										70
75										75
80	62.8	197.8	38,100							80
85	59.6	195.0	35,200							85
90	56.2	191.9	32,600							90
95	52.7	188.3	30,400							95
97	51.2	186.7	29,600	57.3	190.0	27,100				97
100	49.0	184.2	28,400	55.3	188.0	26,000				100
105	45.0	179.6	26,600	51.7	184.3	24,400				105
110	40.8	174.2	25,000	48.0	180.1	22,900				110
112	39.0	171.7	24,400	46.4	178.2	22,300	52.7	181.7	20,300	112
115	36.2	167.9	23,500	44.0	175.3	21,500	50.5	179.3	19,500	115
120	31.1	160.4	22,200	39.7	169.7	20,300	46.7	174.9	18,400	120
125	25.0	151.0	20,900	34.9	163.1	19,100	42.6	169.9	17,300	125
130	17.0	138.0	19,700	29.6	155.2	18,100	38.2	164.0	16,400	130
134	4.8	117.1	18,800	24.4	147.1	17,300	34.3	158.4	15,600	134
135				23.1	145.1	17,100	33.3	157.1	15,500	135
140				14.1	130.2	16,100	27.6	148.6	14,600	140
143				1.1	107.8	15,500	23.4	141.8	14,100	143
145							20.6	137.4	13,800	145
150							9.6	118.9	13,000	150
151							5.2	111.2	12,800	151

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ASME B30.5



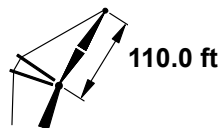
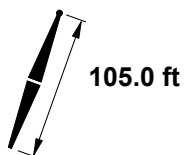
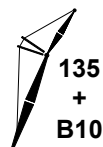
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
42	74.6	218.7	73,800 b							42
45	73.0	217.9	72,300 b							45
50	70.2	216.2	69,600 b							50
55	67.4	214.3	66,900							55
56	66.8	213.8	66,400	70.9	215.9	68,000 b				56
60	64.6	212.0	64,400	68.7	214.4	62,200				60
65	61.6	209.5	59,400	65.9	212.3	56,100				65
67	60.4	208.3	57,200	64.7	211.3	54,100	67.8	212.8	51,700	67
70	58.6	206.6	54,000	63.0	209.9	51,100	66.1	211.5	48,800	70
75	55.5	203.4	49,500	60.0	207.2	46,700	63.2	209.2	44,700	75
80	52.3	199.7	45,600	57.0	204.1	43,000	60.3	206.5	41,100	80
85	48.9	195.6	42,200	53.8	200.7	39,800	57.2	203.5	38,000	85
90	45.4	191.0	39,200	50.5	196.8	37,000	54.1	200.0	35,300	90
95	41.6	185.7	36,600	47.0	192.4	34,500	50.8	196.2	32,900	95
100	37.5	179.7	34,200	43.4	187.4	32,300	47.3	191.9	30,800	100
102	35.7	176.8	33,400	41.8	185.2	31,500	45.9	189.9	30,000	102
105	33.0	172.6	32,100	39.4	181.8	30,300	43.7	186.9	28,900	105
110	27.9	164.1	30,200	35.1	175.2	28,500	39.8	181.3	27,200	110
115	21.6	153.2	28,500	30.3	167.4	26,800	35.5	174.8	25,600	115
118	16.3	143.5	27,500	26.9	161.6	25,900	32.6	170.2	24,700	118
120	12.8	137.1	26,800	24.7	157.8	25,300	30.7	167.2	24,100	120
122	6.6	125.4	26,200	21.7	152.6	24,800	28.5	163.4	23,600	122
125				17.4	144.8	23,900	25.2	157.8	22,800	125
130				1.2	114.3	22,500	18.1	145.1	21,600	130
135							5.2	120.8	20,400	135
140										140
144										144
145										145
150										150
153										153
155										155
160										160
161										161

MLC200 S-1

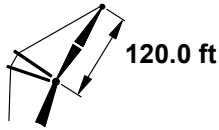
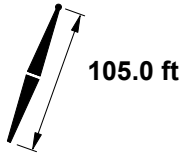
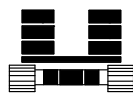
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
42										42
45										45
50										50
55										55
56										56
60										60
65										65
67										67
70										70
75										75
80										80
85	62.6	206.4	35,100							85
90	59.6	203.7	32,600							90
95	56.5	200.6	30,400							95
100	53.4	197.1	28,400							100
102	52.0	195.5	27,700	57.6	198.7	25,300				102
105	50.0	193.1	26,600	55.7	196.7	24,300				105
110	46.5	188.6	25,000	52.5	193.1	22,800				110
115	42.8	183.6	23,500	49.1	189.0	21,500				115
118	40.5	180.1	22,700	47.0	186.3	20,700	52.7	189.7	18,800	118
120	38.9	177.8	22,200	45.6	184.4	20,300	51.4	188.2	18,400	120
122	37.1	175.1	21,700	44.1	182.3	19,800	50.1	186.5	17,900	122
125	34.5	171.1	21,000	41.8	179.2	19,100	48.0	183.9	17,300	125
130	29.6	163.1	19,800	37.8	173.2	18,100	44.4	179.1	16,400	130
135	23.8	153.2	18,800	33.3	166.2	17,100	40.5	173.7	15,500	135
140	16.2	139.4	17,800	28.2	157.8	16,200	36.4	167.4	14,600	140
144	4.5	117.5	17,000	23.2	149.2	15,500	32.6	161.4	14,000	144
145				22.0	147.1	15,400	31.7	160.0	13,900	145
150				13.5	131.5	14,500	26.3	150.9	13,100	150
153				1.1	107.9	14,000	22.3	143.9	12,700	153
155							19.7	139.2	12,400	155
160							9.2	119.7	11,700	160
161							4.9	111.6	11,600	161

MLC200 S-1

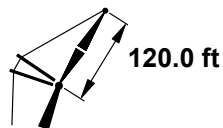
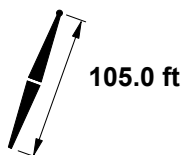
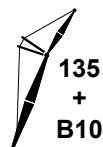
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
44	74.9	228.6	67,300 b							44
45	74.4	228.3	67,100 b							45
50	71.9	226.8	64,400 b							50
55	69.4	225.0	61,900							55
60	66.8	223.0	59,400	70.5	225.0	61,900				60
65	64.2	220.7	57,100	68.0	223.2	55,900				65
70	61.5	218.2	53,800	65.4	221.0	50,800				70
71	61.0	217.6	52,900	64.9	220.5	49,900	67.7	222.0	47,600	71
75	58.8	215.3	49,300	62.7	218.6	46,500	65.6	220.3	44,400	75
80	55.9	212.1	45,400	60.0	215.8	42,800	63.0	217.9	40,800	80
85	53.0	208.5	42,000	57.2	212.8	39,500	60.2	215.2	37,700	85
89	50.5	205.3	39,600	54.9	210.1	37,300	58.0	212.7	35,600	89
90	49.9	204.5	39,000	54.3	209.4	36,700	57.5	212.1	35,000	90
95	46.7	200.1	36,400	51.3	205.6	34,200	54.6	208.8	32,600	95
100	43.4	195.1	34,000	48.2	201.4	32,000	51.6	205.0	30,500	100
105	39.8	189.4	31,900	44.9	196.6	30,000	48.5	200.8	28,600	105
107	38.2	186.8	31,200	43.5	194.5	29,300	47.2	198.9	27,900	107
110	35.9	183.0	30,000	41.4	191.3	28,200	45.2	196.1	26,900	110
115	31.6	175.5	28,300	37.7	185.2	26,600	41.7	190.8	25,300	115
120	26.6	166.5	26,700	33.6	178.3	25,100	38.0	184.9	23,900	120
124	21.9	157.4	25,500	29.9	171.7	24,000	34.8	179.3	22,800	124
125	20.7	155.1	25,300	29.0	170.0	23,700	33.9	178.0	22,600	125
130	12.3	138.2	23,900	23.6	159.9	22,500	29.4	169.9	21,400	130
132	6.4	126.0	23,300	20.8	154.5	22,000	27.3	165.9	20,900	132
135				16.6	146.3	21,300	24.1	159.9	20,300	135
140				1.2	114.4	20,100	17.3	146.7	19,200	140
145							4.9	121.3	18,100	145
150										150
154										154
155										155
160										160
163										163
165										165
170										170
171										171

MLC200 S-1

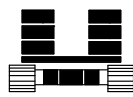
ASME B30.5



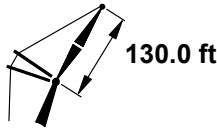
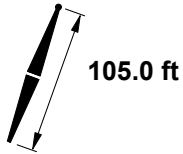
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
44										44
45										45
50										50
55										55
60										60
65										65
70										70
71										71
75										75
80										80
85										85
89	62.9	215.6	32,700							89
90	62.4	215.1	32,200							90
95	59.6	212.3	30,000							95
100	56.8	209.2	28,000							100
105	53.9	205.8	26,300							105
107	52.7	204.3	25,600	57.8	207.4	23,400				107
110	50.9	201.9	24,700	56.1	205.4	22,500				110
115	47.8	197.6	23,200	53.1	201.9	21,100				115
120	44.5	192.8	21,900	50.1	197.9	19,900				120
124	41.6	188.5	20,900	47.5	194.4	19,000	52.8	197.7	17,100	124
125	40.9	187.4	20,700	46.9	193.5	18,800	52.2	197.0	16,900	125
130	37.1	181.3	19,600	43.5	188.5	17,800	49.1	192.9	16,000	130
132	35.5	178.4	19,100	42.1	186.3	17,400	47.8	191.0	15,600	132
135	33.0	174.1	18,500	40.0	182.9	16,800	45.8	188.3	15,100	135
140	28.3	165.7	17,600	36.1	176.5	15,900	42.4	183.1	14,300	140
145	22.8	155.2	16,600	31.8	169.1	15,100	38.7	177.3	13,500	145
150	15.5	140.8	15,800	26.9	160.2	14,300	34.8	170.6	12,800	150
154	4.3	117.9	15,100	22.2	151.2	13,700	31.2	164.3	12,300	154
155				21.1	149.0	13,600	30.3	162.7	12,200	155
160				12.9	132.6	12,800	25.2	153.2	11,500	160
163				1.0	108.0	12,400	21.4	145.8	11,200	163
165							18.8	140.9	10,900	165
170							8.8	120.5	10,300	170
171							4.7	112.0	10,200	171

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ASME B30.5



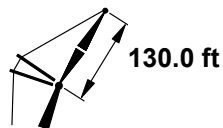
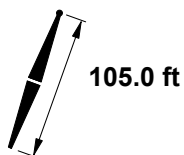
114,600 lb
+
0 lb



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
47	74.7	238.1	50,800 b						47	
50	73.3	237.2	50,200						50	
55	71.0	235.6	49,200						55	
60	68.7	233.8	48,200						60	
63	67.3	232.6	47,700	70.7	234.6	49,300			63	
65	66.3	231.7	47,400	69.8	233.9	48,900			65	
70	63.9	229.4	46,500	67.4	231.9	48,100			70	
75	61.4	226.8	45,400	65.0	229.7	46,200	67.6	231.2	44,100	75
80	58.8	223.9	43,700	62.5	227.2	42,500	65.2	229.0	40,600	80
85	56.2	220.8	41,800	60.0	224.5	39,300	62.7	226.5	37,500	85
90	53.5	217.2	38,800	57.4	221.5	36,500	60.2	223.8	34,800	90
94	51.3	214.1	36,700	55.3	218.8	34,500	58.2	221.4	32,900	94
95	50.7	213.4	36,200	54.8	218.1	34,000	57.7	220.8	32,400	95
100	47.8	209.1	33,900	52.0	214.4	31,800	55.0	217.5	30,300	100
105	44.8	204.3	31,800	49.2	210.3	29,800	52.3	213.8	28,400	105
110	41.6	199.0	29,900	46.2	205.7	28,000	49.4	209.7	26,700	110
112	40.2	196.6	29,200	44.9	203.7	27,400	48.2	207.9	26,100	112
115	38.1	193.0	28,100	43.1	200.7	26,400	46.5	205.2	25,100	115
120	34.4	186.1	26,600	39.7	195.0	24,900	43.3	200.2	23,700	120
125	30.3	178.3	25,100	36.2	188.6	23,600	40.0	194.6	22,400	125
130	25.6	168.8	23,800	32.2	181.2	22,300	36.5	188.2	21,200	130
135	19.9	156.9	22,600	27.8	172.6	21,200	32.6	181.0	20,100	135
140	11.8	139.2	21,400	22.7	162.0	20,100	28.2	172.4	19,100	140
142	6.1	126.5	20,900	20.0	156.3	19,700	26.2	168.3	18,700	142
145				16.0	147.7	19,100	23.1	162.0	18,100	145
150				1.1	114.5	18,000	16.6	148.2	17,200	150
155							4.7	121.7	16,300	155
160										160
164										164
165										165
170										170
173										173
175										175
180										180
181										181

MLC200 S-1

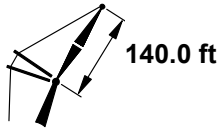
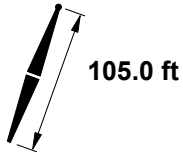
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
47										47
50										50
55										55
60										60
63										63
65										65
70										70
75										75
80										80
85										85
90										90
94	62.7	224.3	30,200							94
95	62.2	223.8	29,800							95
100	59.7	221.0	27,800							100
105	57.1	217.9	26,000							105
110	54.4	214.5	24,400							110
112	53.3	213.0	23,900	58.0	216.0	21,700				112
115	51.7	210.8	23,000	56.4	214.1	20,900				115
120	48.8	206.6	21,700	53.7	210.6	19,700				120
125	45.8	202.0	20,500	50.9	206.7	18,600				125
130	42.6	196.8	19,400	48.0	202.5	17,500	52.8	205.7	15,800	130
135	39.3	191.1	18,300	45.0	197.7	16,600	50.0	201.7	14,900	135
140	35.6	184.5	17,400	41.8	192.4	15,700	47.0	197.3	14,100	140
142	34.0	181.5	17,000	40.4	190.0	15,400	45.8	195.3	13,800	142
145	31.7	177.0	16,500	38.3	186.5	14,900	44.0	192.4	13,300	145
150	27.2	168.2	15,700	34.6	179.7	14,100	40.7	186.9	12,600	150
155	21.9	157.2	14,900	30.5	171.9	13,400	37.2	180.7	12,000	155
160	14.9	142.1	14,100	25.9	162.6	12,700	33.4	173.6	11,300	160
164	4.2	118.2	13,500	21.4	153.2	12,200	30.0	167.0	10,900	164
165				20.2	150.8	12,100	29.1	165.4	10,800	165
170				12.4	133.7	11,500	24.2	155.4	10,200	170
173				1.0	108.1	11,000	20.5	147.7	9,900	173
175							18.1	142.5	9,700	175
180							8.4	121.2	9,100	180
181							4.5	112.4	9,000	181

MLC200 S-1

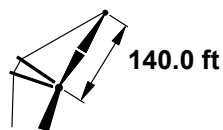
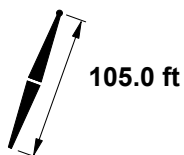
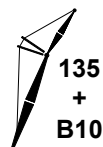
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
49	75.0	247.9	47,200 b						49	
50	74.6	247.6	47,000						50	
55	72.4	246.2	46,100						55	
60	70.3	244.5	45,300						60	
65	68.1	242.6	44,500						65	
66	67.6	242.1	44,200	70.8	244.1	45,600			66	
70	65.9	240.5	43,400	69.1	242.7	45,000			70	
75	63.6	238.1	41,700	66.9	240.7	44,300			75	
78	62.2	236.5	40,700	65.5	239.3	43,100	68.0	240.7	41,600	78
80	61.3	235.5	40,000	64.6	238.4	42,300	67.1	239.9	40,300	80
85	58.9	232.6	38,400	62.4	235.9	39,100	64.8	237.7	37,200	85
90	56.5	229.4	36,800	60.0	233.2	36,200	62.5	235.2	34,500	90
95	54.0	226.0	35,300	57.6	230.1	33,800	60.2	232.5	32,100	95
98	52.5	223.7	34,300	56.1	228.1	32,400	58.8	230.7	30,900	98
100	51.4	222.2	33,600	55.2	226.8	31,500	57.8	229.5	30,000	100
105	48.8	218.0	31,500	52.6	223.2	29,600	55.4	226.2	28,100	105
110	46.0	213.4	29,600	50.0	219.2	27,800	52.9	222.6	26,400	110
115	43.1	208.3	27,900	47.3	214.8	26,200	50.2	218.6	24,800	115
118	41.2	204.9	27,000	45.6	211.8	25,300	48.6	216.0	24,000	118
120	40.0	202.7	26,400	44.4	209.9	24,700	47.5	214.2	23,400	120
125	36.7	196.3	24,900	41.4	204.5	23,300	44.7	209.4	22,100	125
130	33.1	189.2	23,600	38.2	198.5	22,100	41.7	204.1	20,900	130
135	29.2	180.9	22,400	34.8	191.8	20,900	38.5	198.1	19,800	135
136	28.3	178.9	22,200	34.0	190.2	20,700	37.8	196.8	19,600	136
140	24.6	171.0	21,300	31.0	184.1	19,900	35.1	191.5	18,800	140
145	19.1	158.6	20,200	26.8	175.0	18,900	31.4	183.8	17,900	145
150	11.4	140.3	19,200	21.8	163.9	17,900	27.2	174.9	17,000	150
152	5.9	127.1	18,800	19.2	158.0	17,600	25.2	170.5	16,700	152
155				15.4	149.1	17,100	22.3	164.0	16,200	155
160				1.1	114.6	16,100	16.0	149.6	15,400	160
165							4.6	122.1	14,600	165
170										170
174										174
175										175
180										180
183										183
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191										191

MLC200 S-1

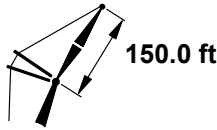
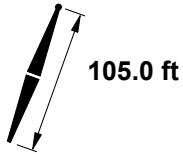
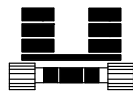
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
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	63.0	233.5	28,200							98
100	62.0	232.4	27,500							100
105	59.7	229.7	25,700							105
110	57.3	226.6	24,100							110
115	54.8	223.2	22,700							115
118	53.3	221.0	21,900	57.6	224.1	19,800				118
120	52.3	219.5	21,400	56.6	222.8	19,300				120
125	49.6	215.5	20,200	54.2	219.3	18,200				125
130	46.9	211.0	19,000	51.6	215.6	17,200				130
135	44.0	206.1	18,000	48.9	211.4	16,200				135
136	43.4	205.0	17,800	48.4	210.5	16,100	52.8	213.7	14,300	136
140	41.0	200.7	17,100	46.2	206.8	15,400	50.7	210.6	13,700	140
145	37.8	194.6	16,200	43.2	201.8	14,600	48.1	206.3	13,000	145
150	34.3	187.7	15,400	40.2	196.2	13,800	45.2	201.6	12,300	150
152	32.8	184.5	15,100	38.9	193.6	13,500	44.0	199.5	12,000	152
155	30.5	179.8	14,600	36.9	189.9	13,100	42.3	196.3	11,600	155
160	26.2	170.5	13,900	33.3	182.8	12,400	39.1	190.5	11,000	160
165	21.1	159.1	13,200	29.4	174.6	11,800	35.8	184.0	10,400	165
170	14.3	143.4	12,500	24.9	164.8	11,200	32.1	176.6	9,900	170
174	4.0	118.6	12,000	20.6	155.0	10,800	28.8	169.7	9,500	174
175				19.5	152.6	10,600	28.0	167.9	9,400	175
180				11.9	134.8	10,100	23.3	157.5	8,900	180
183				1.0	108.2	9,700	19.8	149.4	8,600	183
185							17.4	144.0	8,400	185
190							8.1	122.0	7,900	190
191							4.4	112.8	7,800	191

MLC200 S-1

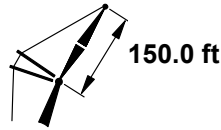
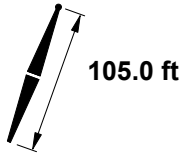
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
52	74.8	257.5	43,700							52
55	73.6	256.6	43,200							55
60	71.6	255.1	42,400							60
65	69.6	253.3	41,600							65
69	68.0	251.7	40,300	70.9	253.7	42,200				69
70	67.6	251.3	40,000	70.5	253.3	42,100				70
75	65.5	249.2	38,400	68.5	251.5	40,900				75
80	63.4	246.8	36,800	66.4	249.4	39,200				80
82	62.5	245.7	36,200	65.6	248.5	38,600	67.9	249.9	38,900	82
85	61.2	244.1	35,300	64.3	247.1	37,600	66.6	248.6	37,100	85
90	59.0	241.3	33,800	62.2	244.6	36,100	64.5	246.4	34,400	90
95	56.7	238.1	32,300	60.0	241.8	33,700	62.4	243.9	32,000	95
100	54.4	234.7	30,900	57.8	238.8	31,500	60.2	241.1	29,900	100
103	53.0	232.5	30,100	56.4	236.8	30,300	58.9	239.3	28,800	103
105	52.0	231.0	29,600	55.5	235.5	29,500	58.0	238.1	28,000	105
110	49.6	226.9	28,300	53.1	231.9	27,700	55.7	234.9	26,300	110
115	47.0	222.4	27,100	50.7	228.0	26,100	53.3	231.3	24,800	115
120	44.4	217.6	25,900	48.2	223.7	24,600	50.9	227.4	23,300	120
123	42.7	214.3	25,200	46.6	220.9	23,800	49.4	224.9	22,600	123
125	41.6	212.2	24,800	45.6	219.0	23,300	48.4	223.2	22,000	125
130	38.6	206.2	23,600	42.9	213.9	22,000	45.8	218.5	20,900	130
135	35.4	199.6	22,400	40.0	208.2	20,900	43.1	213.4	19,800	135
140	32.0	192.1	21,200	36.9	201.9	19,800	40.2	207.8	18,800	140
142	30.4	188.6	20,800	35.6	199.1	19,400	39.0	205.3	18,400	142
145	28.2	183.5	20,200	33.6	194.9	18,800	37.2	201.6	17,800	145
150	23.8	173.2	19,200	30.0	186.8	17,900	33.9	194.6	16,900	150
155	18.5	160.3	18,300	25.9	177.3	17,100	30.3	186.6	16,100	155
160	11.0	141.2	17,400	21.1	165.8	16,200	26.2	177.3	15,300	160
162	5.7	127.6	17,100	18.6	159.6	15,900	24.3	172.7	15,100	162
165				14.9	150.4	15,500	21.5	166.0	14,600	165
170				1.1	114.7	14,700	15.5	151.0	13,900	170
175							4.4	122.5	13,200	175
180										180
184										184
185										185
190										190
193										193
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200										200
201										201

MLC200 S-1

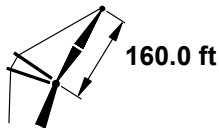
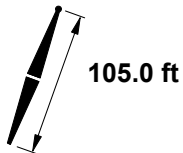
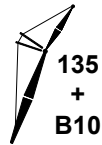
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
52										52
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	62.8	242.2	26,300							103
105	61.9	241.1	25,600							105
110	59.7	238.3	24,000							110
115	57.5	235.3	22,600							115
120	55.2	231.9	21,300							120
123	53.8	229.8	20,500	57.8	232.8	18,500				123
125	52.8	228.3	20,100	56.9	231.5	18,100				125
130	50.4	224.3	19,000	54.6	228.1	17,100				130
135	47.9	220.0	17,900	52.2	224.3	16,200				135
140	45.2	215.3	17,000	49.7	220.3	15,300				140
142	44.1	213.2	16,700	48.7	218.5	15,000	52.9	221.7	13,300	142
145	42.5	210.1	16,100	47.2	215.9	14,500	51.4	219.4	12,900	145
150	39.6	204.3	15,300	44.5	211.0	13,700	48.9	215.2	12,200	150
155	36.5	197.9	14,600	41.7	205.7	13,000	46.3	210.7	11,500	155
160	33.1	190.7	13,900	38.8	199.7	12,400	43.6	205.6	10,900	160
162	31.6	187.4	13,600	37.5	197.1	12,100	42.5	203.4	10,700	162
165	29.4	182.5	13,200	35.6	193.2	11,800	40.8	200.1	10,400	165
170	25.3	172.8	12,500	32.2	185.7	11,200	37.8	194.0	9,800	170
175	20.3	160.9	11,900	28.4	177.1	10,600	34.5	187.2	9,300	175
180	13.8	144.6	11,400	24.1	167.0	10,100	31.0	179.4	8,800	180
184	3.9	118.9	10,900	19.9	156.8	9,700	27.8	172.2	8,500	184
185				18.8	154.2	9,600	27.1	170.4	8,400	185
190				11.5	135.8	9,100	22.5	159.5	7,900	190
193				0.9	108.3	8,700	19.1	151.1	7,700	193
195							16.8	145.5	7,500	195
200							7.9	122.7	7,100	200
201							4.2	113.2	7,000	201

MLC200 S-1

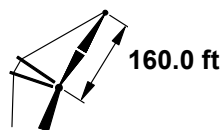
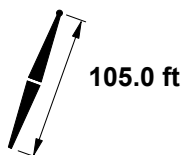
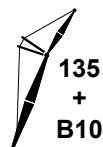
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
55	74.7	267.0	40,300							55
60	72.8	265.6	39,500							60
65	70.9	263.9	38,200							65
70	69.0	262.1	36,600							70
73	67.9	260.9	35,700	70.7	262.9	38,000				73
75	67.1	260.1	35,000	69.9	262.2	37,400				75
80	65.1	257.9	33,500	68.0	260.2	35,800				80
85	63.2	255.4	32,000	66.0	258.1	34,300				85
86	62.7	254.9	31,700	65.6	257.6	34,000	67.8	259.1	35,500	86
90	61.1	252.8	30,600	64.1	255.8	32,800	66.2	257.4	34,100	90
95	59.1	249.9	29,100	62.1	253.2	31,400	64.2	255.1	31,700	95
100	57.0	246.8	27,800	60.0	250.5	29,900	62.2	252.5	29,600	100
105	54.8	243.4	26,500	57.9	247.5	28,600	60.2	249.8	27,700	105
107	53.9	241.9	26,000	57.1	246.2	28,000	59.3	248.6	27,000	107
110	52.6	239.7	25,300	55.8	244.2	27,200	58.1	246.8	26,000	110
115	50.3	235.8	24,100	53.6	240.7	25,800	56.0	243.6	24,500	115
120	47.9	231.4	22,900	51.3	236.8	24,300	53.8	240.0	23,100	120
125	45.4	226.7	21,800	49.0	232.7	23,000	51.5	236.2	21,800	125
128	43.9	223.6	21,200	47.5	229.9	22,200	50.1	233.7	21,100	128
130	42.9	221.6	20,800	46.6	228.1	21,800	49.2	232.1	20,600	130
135	40.2	215.9	19,800	44.1	223.2	20,600	46.8	227.6	19,500	135
140	37.3	209.7	18,800	41.4	217.8	19,600	44.3	222.7	18,500	140
145	34.3	202.7	17,900	38.6	211.8	18,600	41.7	217.3	17,500	145
148	32.3	198.0	17,400	36.9	207.8	18,000	40.0	213.8	17,000	148
150	30.9	194.9	17,100	35.7	205.2	17,700	38.9	211.4	16,700	150
155	27.2	185.9	16,300	32.5	197.8	16,800	35.9	204.9	15,900	155
160	23.0	175.3	15,600	29.0	189.4	16,000	32.8	197.5	15,100	160
165	17.9	161.9	14,900	25.0	179.6	15,300	29.3	189.2	14,400	165
170	10.6	142.2	14,000	20.4	167.6	14,600	25.4	179.6	13,700	170
172	5.5	128.1	13,700	18.0	161.3	14,300	23.6	174.9	13,400	172
175				14.4	151.7	13,900	20.8	167.8	13,100	175
180				1.0	114.7	13,200	15.0	152.4	12,400	180
185							4.3	122.9	11,800	185
190										190
194										194
195										195
200										200
203										203
205										205
210										210
211										211

MLC200 S-1

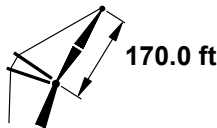
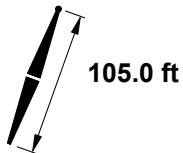
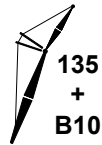
ASME B30.5



	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	63.0	251.4	24,600							107
110	61.8	249.8	23,700							110
115	59.7	247.0	22,200							115
120	57.6	243.9	20,900							120
125	55.5	240.6	19,700							125
128	54.2	238.5	19,100	57.9	241.4	17,100				128
130	53.3	237.1	18,600	57.1	240.1	16,700				130
135	51.0	233.2	17,600	54.9	236.8	15,800				135
140	48.7	229.0	16,700	52.7	233.1	14,900				140
145	46.2	224.4	15,800	50.4	229.1	14,100				145
148	44.7	221.4	15,300	49.0	226.6	13,700	52.9	229.7	12,100	148
150	43.7	219.4	15,000	48.0	224.8	13,400	52.0	228.2	11,800	150
155	41.1	213.9	14,300	45.6	220.1	12,700	49.7	224.1	11,200	155
160	38.3	207.8	13,600	43.0	215.0	12,100	47.3	219.7	10,600	160
165	35.3	201.2	12,900	40.3	209.4	11,400	44.8	214.8	10,000	165
170	32.0	193.6	12,300	37.5	203.2	10,900	42.2	209.6	9,500	170
172	30.6	190.2	12,000	36.3	200.4	10,600	41.1	207.3	9,300	172
175	28.5	185.1	11,700	34.4	196.3	10,300	39.4	203.8	9,000	175
180	24.5	175.0	11,100	31.1	188.5	9,800	36.5	197.4	8,500	180
185	19.7	162.7	10,600	27.5	179.6	9,300	33.4	190.2	8,100	185
190	13.4	145.8	10,100	23.3	169.1	8,900	30.0	182.1	7,600	190
194	3.8	119.3	9,600	19.2	158.5	8,500	26.9	174.6	7,300	194
195				18.2	155.9	8,400	26.2	172.7	7,200	195
200				11.2	136.8	7,900	21.8	161.5	6,800	200
203				0.9	108.4	7,600	18.5	152.8	6,600	203
205							16.3	147.0	6,500	205
210							7.6	123.3	6,100	210
211							4.1	113.6	6,000	211

MLC200 S-1

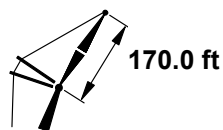
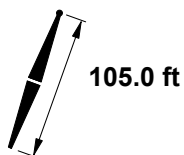
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
57	74.9	276.8	37,200							57
60	73.9	276.0	36,700							60
65	72.1	274.5	35,300							65
70	70.3	272.8	33,800							70
75	68.5	270.9	32,300							75
76	68.2	270.5	32,000	70.8	272.4	34,200				76
80	66.7	268.8	30,800	69.3	271.0	33,000				80
85	64.9	266.6	29,400	67.5	269.0	31,500				85
90	63.0	264.1	28,100	65.7	266.8	30,100	67.7	268.2	31,500	90
95	61.1	261.5	26,700	63.8	264.5	28,700	65.9	266.1	30,200	95
100	59.1	258.6	25,400	61.9	261.9	27,400	64.0	263.8	28,800	100
105	57.1	255.5	24,100	60.0	259.1	26,100	62.1	261.2	27,500	105
110	55.1	252.1	23,000	58.0	256.1	24,800	60.2	258.5	25,800	110
112	54.3	250.7	22,500	57.2	254.8	24,300	59.4	257.3	25,200	112
115	53.0	248.5	21,800	56.0	252.9	23,600	58.2	255.5	24,200	115
120	50.9	244.6	20,700	54.0	249.4	22,400	56.2	252.2	22,800	120
125	48.7	240.4	19,600	51.9	245.6	21,300	54.2	248.8	21,500	125
130	46.4	235.8	18,600	49.7	241.5	20,200	52.1	245.0	20,400	130
134	44.5	231.8	17,900	47.9	238.0	19,400	50.3	241.8	19,500	134
135	44.0	230.8	17,700	47.4	237.1	19,200	49.9	241.0	19,300	135
140	41.5	225.4	16,800	45.1	232.3	18,200	47.6	236.6	18,300	140
145	38.9	219.5	15,800	42.7	227.1	17,200	45.3	231.8	17,300	145
150	36.2	213.0	15,100	40.1	221.5	16,300	42.9	226.7	16,500	150
154	33.8	207.2	14,400	38.0	216.5	15,700	40.9	222.2	15,800	154
155	33.2	205.8	14,300	37.4	215.3	15,500	40.4	221.0	15,700	155
160	30.0	197.6	13,500	34.6	208.4	14,700	37.7	214.9	14,900	160
165	26.4	188.3	12,600	31.5	200.7	14,000	34.8	208.1	14,200	165
170	22.3	177.3	11,700	28.1	191.9	13,000	31.8	200.4	13,500	170
175	17.4	163.4	10,800	24.3	181.8	12,100	28.4	191.8	12,900	175
180	10.3	143.1	10,100	19.8	169.4	11,300	24.6	181.8	12,300	180
182	5.3	128.5	9,800	17.5	162.8	10,900	22.8	176.9	11,900	182
185				14.0	152.9	10,400	20.2	169.6	11,300	185
190				1.0	114.8	9,800	14.5	153.6	10,500	190
195							4.1	123.3	9,800	195
200										200
204										204
205										205
210										210
213										213
215										215
220										220

MLC200 S-1

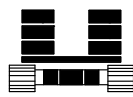
ASME B30.5



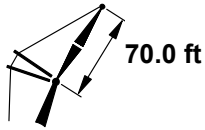
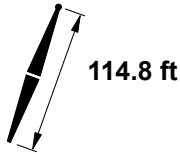
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
57										57
60										60
65										65
70										70
75										75
76										76
80										80
85										85
90										90
95										95
100										100
105										105
110										110
112	62.8	260.0	22,800							112
115	61.7	258.4	22,000							115
120	59.7	255.6	20,700							120
125	57.8	252.6	19,500							125
130	55.8	249.3	18,400							130
134	54.1	246.5	17,600	57.6	249.5	15,700				134
135	53.7	245.8	17,400	57.2	248.8	15,600				135
140	51.6	242.0	16,500	55.2	245.5	14,700				140
145	49.4	237.9	15,600	53.1	241.9	13,900				145
150	47.1	233.4	14,800	51.0	238.0	13,200				150
154	45.3	229.5	14,200	49.2	234.6	12,600	52.9	237.7	11,100	154
155	44.8	228.6	14,000	48.8	233.8	12,500	52.5	237.0	10,900	155
160	42.3	223.3	13,300	46.5	229.2	11,800	50.3	233.0	10,300	160
165	39.8	217.6	12,700	44.2	224.3	11,200	48.1	228.6	9,800	165
170	37.1	211.3	12,100	41.7	218.9	10,600	45.8	224.0	9,300	170
175	34.2	204.3	11,500	39.1	213.0	10,100	43.4	218.9	8,800	175
180	31.0	196.5	10,900	36.3	206.5	9,600	40.9	213.4	8,300	180
182	29.7	192.9	10,700	35.1	203.7	9,400	39.8	210.9	8,100	182
185	27.6	187.6	10,400	33.4	199.4	9,100	38.2	207.3	7,900	185
190	23.7	177.1	9,900	30.2	191.3	8,700	35.4	200.6	7,400	190
195	19.1	164.4	9,400	26.6	182.0	8,200	32.4	193.2	7,000	195
200	13.0	147.0	9,000	22.6	171.1	7,800	29.1	184.8	6,600	200
204	3.6	119.6	8,600	18.7	160.2	7,500	26.1	177.0	6,300	204
205				17.7	157.5	7,400	25.4	175.0	6,200	205
210				10.8	137.8	7,000	21.1	163.4	5,800	210
213				0.9	108.4	6,700	17.9	154.4	5,600	213
215							15.8	148.4	5,400	215
220							7.4	124.0	5,000	220

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ASME B30.5



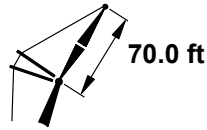
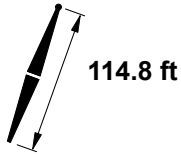
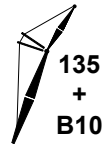
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	74.5	190.0	104,400 d							32
35	71.9	189.1	104,400 c							35
40	67.5	187.2	104,400 c							40
45	63.0	184.9	96,500 b	70.1	187.5	91,000 c				45
50	58.3	182.1	84,000 b	65.7	185.5	79,200 c				50
54	54.4	179.4	76,100 b	62.1	183.5	71,800 c	67.5	185.3	68,400 c	54
55	53.4	178.7	74,200	61.2	183.0	70,000 b	66.6	184.9	66,800 c	55
60	48.1	174.6	66,300	56.4	179.9	62,600 b	62.0	182.5	59,700 b	60
65	42.3	169.7	59,900	51.3	176.3	56,500	57.3	179.6	53,900 b	65
69	37.1	164.7	55,600	46.9	172.8	52,400	53.3	176.7	50,000 b	69
70	35.8	163.5	54,500	45.8	171.9	51,400	52.3	176.0	49,000	70
75	28.1	155.5	49,900	39.8	166.5	47,100	46.9	171.8	44,900	75
80	17.5	143.6	45,900	32.9	159.7	43,300	41.0	166.6	41,300	80
83	4.9	128.5	43,600	27.8	154.2	41,300	37.0	162.7	39,500	83
84				26.1	152.4	40,700	35.6	161.4	38,800	84
85				24.4	150.5	40,000	34.3	160.1	38,200	85
90				10.7	134.7	37,000	26.1	151.5	35,500	90
91				4.6	127.3	36,400	23.8	148.8	35,000	91
95							14.3	137.9	33,000	95
97							3.8	125.3	31,900	97
98										98
100										100
105										105
106										106
110										110
115										115
116										116
120										120
125										125

MLC200 S-1

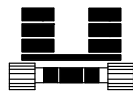
ASME B30.5



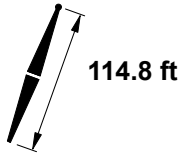
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
35										35
40										40
45										45
50										50
54										54
55										55
60										60
65										65
69	62.7	180.5	46,000 b							69
70	61.8	180.0	45,200 b							70
75	57.0	177.0	41,300 b							75
80	52.0	173.5	38,000							80
83	48.8	170.9	36,300							83
84	47.7	170.0	35,800	57.5	174.1	32,700 b				84
85	46.6	169.2	35,200	56.5	173.5	32,200 b				85
90	40.7	163.9	32,700	51.5	169.9	29,800				90
91	39.3	162.6	32,200	50.4	169.0	29,400				91
95	33.9	157.3	30,400	46.0	165.5	27,800				95
97	30.6	153.8	29,600	43.6	163.3	27,000				97
98	28.9	152.1	29,200	42.4	162.3	26,700	52.7	166.8	24,200	98
100	25.6	148.6	28,400	40.0	160.1	25,900	50.6	165.2	23,500	100
105	13.4	134.5	26,500	33.1	153.4	24,300	45.1	160.7	22,000	105
106	9.2	129.4	26,100	31.4	151.6	24,000	43.8	159.5	21,700	106
110				24.7	144.3	22,700	39.0	155.1	20,600	110
115				11.4	129.0	21,300	31.9	148.1	19,300	115
116				6.0	122.4	21,000	30.1	146.1	19,100	116
120							23.0	138.4	18,200	120
125							7.3	120.0	17,000	125

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ASME B30.5



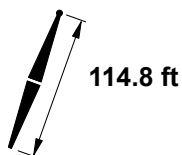
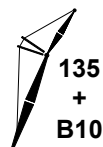
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	75.0	199.8	95,700 d							34
35	74.2	199.5	95,600 c							35
40	70.5	197.9	95,500 c							40
45	66.6	196.0	94,800 b							45
48	64.2	194.5	88,200 b	70.5	197.1	83,300 c				48
50	62.7	193.6	83,800 b	68.9	196.3	78,900 c				50
55	58.6	190.8	74,000	65.0	194.2	69,700 b				55
58	56.0	188.8	69,300	62.6	192.7	65,300 b	67.3	194.5	62,100 b	58
60	54.2	187.4	66,200	61.0	191.6	62,300 b	65.8	193.6	59,400 b	60
65	49.7	183.5	59,700	56.8	188.6	56,200	61.8	191.1	53,600 b	65
70	44.8	178.9	54,400	52.4	185.1	51,200	57.6	188.2	48,800	70
74	40.5	174.5	50,700	48.7	181.7	47,700	54.1	185.5	45,500	74
75	39.5	173.4	49,800	47.8	180.9	46,800	53.3	184.8	44,600	75
80	33.5	166.6	45,800	42.7	175.9	43,100	48.7	180.7	41,100	80
85	26.3	157.9	42,400	37.1	170.0	39,900	43.7	175.9	38,000	85
89	18.4	147.7	39,900	32.0	164.0	37,600	39.3	171.3	35,800	89
90	16.4	145.1	39,300	30.7	162.5	37,000	38.2	170.2	35,300	90
93	4.6	128.9	37,500	25.9	156.6	35,500	34.5	165.9	33,800	93
95				22.8	152.6	34,500	32.0	163.1	32,900	95
100				10.0	135.6	32,100	24.4	153.7	30,700	100
101				4.3	127.7	31,600	22.2	150.8	30,300	101
104							15.5	142.0	29,100	104
105							13.3	139.1	28,700	105
107							3.6	125.6	27,900	107
110										110
115										115
116										116
120										120
125										125
126										126
130										130
135										135

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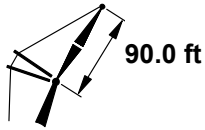
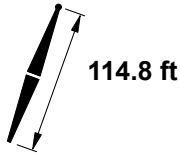
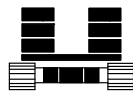
ASME B30.5



	75°		70°		65°		
	ft	lb	ft	lb	ft	lb	ft
34							34
35							35
40							40
45							45
48							48
50							50
55							55
58							58
60							60
65							65
70							70
74	62.4	189.2	41,700 b				74
75	61.6	188.6	41,000 b				75
80	57.4	185.7	37,700				80
85	53.0	182.2	34,900				85
89	49.3	178.9	32,900	57.8	182.8	29,900	89
90	48.4	178.1	32,400	57.0	182.2	29,500	90
93	45.4	175.2	31,000	54.3	180.1	28,200	93
95	43.4	173.3	30,100	52.6	178.6	27,400	95
100	37.9	167.5	28,200	47.9	174.5	25,600	100
101	36.7	166.0	27,800	46.9	173.5	25,300	101
104	32.9	161.7	26,700	43.9	170.5	24,300	104
105	31.6	160.3	26,400	42.9	169.6	24,000	105
107	28.6	156.5	25,700	40.7	167.2	23,400	107
110	24.0	150.8	24,700	37.3	163.6	22,500	110
115	12.5	135.6	23,200	30.9	156.2	21,100	115
116	8.6	130.2	22,900	29.4	154.3	20,900	116
120				23.1	146.4	19,900	120
125				10.7	129.9	18,600	125
126				5.6	123.0	18,400	126
130						21.5	130
135						6.8	135

MLC200 S-1

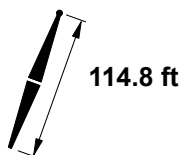
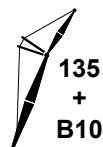
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
37	74.7	209.3	86,200 c							37
40	72.7	208.5	86,000 c							40
45	69.4	206.7	83,100 b							45
50	65.9	204.7	79,500 b							50
51	65.2	204.2	78,300 b	70.7	206.6	76,700 b				51
55	62.4	202.3	73,900	68.0	205.1	69,500 b				55
60	58.7	199.4	66,000	64.5	202.9	62,100				60
61	57.9	198.8	64,800	63.8	202.4	60,900	67.9	204.1	57,900 b	61
65	54.9	196.2	59,600	60.9	200.3	56,100	65.1	202.3	53,400 b	65
70	50.9	192.4	54,300	57.2	197.3	51,000	61.6	199.8	48,600	70
75	46.7	188.0	49,700	53.3	193.8	46,700	57.9	196.9	44,500	75
78	44.0	184.9	47,300	50.9	191.4	44,500	55.6	194.9	42,300	78
80	42.1	182.9	45,800	49.2	189.8	43,000	54.0	193.5	40,900	80
85	37.1	176.9	42,400	44.9	185.2	39,800	50.0	189.6	37,900	85
90	31.5	169.5	39,400	40.2	179.7	37,000	45.7	185.1	35,200	90
95	24.7	160.2	36,700	34.9	173.2	34,500	41.1	179.8	32,800	95
100	15.5	146.5	34,300	28.9	165.2	32,200	36.0	173.5	30,600	100
103	4.3	129.3	32,800	24.4	158.8	31,000	32.5	168.9	29,500	103
105				21.4	154.6	30,200	30.1	165.8	28,700	105
110				9.5	136.5	28,300	23.0	155.8	27,000	110
111				4.1	128.0	27,900	20.9	152.7	26,600	111
115							12.6	140.2	25,300	115
117							3.3	125.9	24,600	117
120										120
125										125
126										126
130										130
135										135
136										136
140										140
145										145

MLC200 S-1

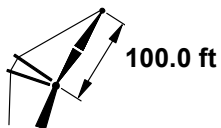
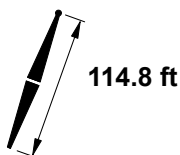
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
37									37	
40									40	
45									45	
50									50	
51									51	
55									55	
60									60	
61									61	
65									65	
70									70	
75									75	
78	62.8	198.4	38,700						78	
80	61.4	197.3	37,500						80	
85	57.7	194.4	34,700						85	
90	53.8	191.0	32,200						90	
95	49.8	187.0	30,000	57.3	190.8	27,200			95	
100	45.5	182.5	28,000	53.4	187.4	25,400			100	
103	42.7	179.3	26,900	51.0	185.0	24,400			103	
105	40.8	177.1	26,200	49.4	183.4	23,800			105	
110	35.7	170.8	24,600	45.0	178.8	22,300	52.8	182.8	20,000	110
111	34.5	169.2	24,300	44.1	177.7	22,100	52.0	181.9	19,800	111
115	29.8	163.0	23,200	40.3	173.3	21,000	48.7	178.7	18,800	115
117	26.9	158.9	22,600	38.2	170.8	20,500	46.9	176.8	18,400	117
120	22.6	152.8	21,800	35.1	166.9	19,800	44.3	173.9	17,700	120
125	11.8	136.7	20,500	29.1	158.9	18,600	39.5	168.4	16,700	125
126	8.1	130.9	20,300	27.6	156.8	18,400	38.4	167.0	16,500	126
130				21.7	148.4	17,600	34.2	161.7	15,800	130
135				10.1	130.8	16,500	28.0	153.4	14,900	135
136				5.3	123.4	16,300	26.5	151.2	14,700	136
140							20.3	142.3	14,000	140
145							6.4	121.2	13,200	145

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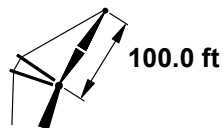
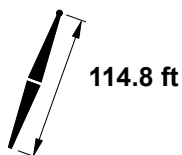
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40	74.5	218.9	78,800 c							40
45	71.5	217.4	77,700 b							45
50	68.4	215.5	74,200 b							50
54	66.0	213.8	71,600 b	70.9	216.1	70,900 b				54
55	65.3	213.4	71,000	70.3	215.8	69,200 b				55
60	62.1	210.9	65,800	67.2	213.8	61,800				60
65	58.8	208.1	59,400	64.0	211.6	55,800	67.8	213.2	53,100 b	65
70	55.4	204.9	54,000	60.8	209.0	50,700	64.6	211.0	48,200	70
75	51.9	201.2	49,500	57.5	206.0	46,400	61.4	208.5	44,100	75
80	48.1	197.0	45,600	54.0	202.6	42,700	58.1	205.6	40,600	80
83	45.7	194.1	43,500	51.8	200.2	40,800	56.0	203.6	38,800	83
85	44.2	192.2	42,200	50.4	198.7	39,500	54.7	202.2	37,600	85
90	39.9	186.6	39,200	46.6	194.3	36,700	51.1	198.4	34,900	90
95	35.2	180.1	36,500	42.5	189.2	34,200	47.3	194.1	32,500	95
100	29.8	172.3	34,200	38.0	183.3	32,000	43.2	189.2	30,400	100
105	23.4	162.3	32,000	33.1	176.3	30,000	38.9	183.4	28,500	105
110	14.7	147.8	30,100	27.4	167.7	28,200	34.1	176.7	26,700	110
113	4.1	129.6	28,900	23.2	160.9	27,200	30.7	171.7	25,800	113
115				20.3	156.4	26,500	28.5	168.4	25,200	115
116				18.1	152.6	26,200	27.2	166.3	24,900	116
120				9.0	137.3	24,900	21.8	157.8	23,700	120
121				3.8	128.4	24,600	19.8	154.5	23,400	121
125							11.9	141.3	22,400	125
127							3.2	126.2	21,800	127
130										130
135										135
136										136
140										140
145										145
146										146
150										150
155										155

MLC200 S-1

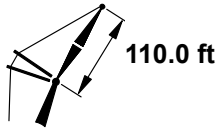
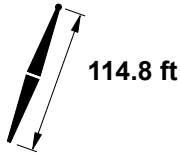
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
54										54
55										55
60										60
65										65
70										70
75										75
80										80
83	62.5	207.0	35,400							83
85	61.2	206.0	34,300							85
90	57.9	203.0	31,800							90
95	54.5	199.7	29,600							95
100	50.9	195.9	27,700	57.6	199.5	25,000				100
105	47.1	191.5	25,900	54.1	196.1	23,400				105
110	43.0	186.5	24,300	50.5	192.3	22,000				110
113	40.4	183.1	23,500	48.2	189.6	21,200				113
115	38.6	180.7	22,900	46.7	187.9	20,600				115
116	37.7	179.4	22,600	45.9	186.8	20,400	52.8	190.8	18,200	116
120	33.8	173.9	21,600	42.6	182.8	19,400	49.9	187.6	17,300	120
121	32.7	172.2	21,300	41.7	181.6	19,200	49.1	186.7	17,100	121
125	28.2	165.6	20,400	38.2	176.9	18,300	46.0	183.1	16,300	125
127	25.5	161.3	19,900	36.2	174.1	17,900	44.4	181.0	16,000	127
130	21.4	154.8	19,200	33.3	170.0	17,300	41.9	177.9	15,400	130
135	11.2	137.7	18,100	27.6	161.4	16,400	37.4	171.8	14,500	135
136	7.7	131.6	17,900	26.2	159.2	16,200	36.4	170.4	14,400	136
140				20.6	150.3	15,500	32.4	164.7	13,700	140
145				9.6	131.7	14,600	26.6	155.8	13,000	145
146				5.0	123.9	14,400	25.1	153.5	12,800	146
150							19.2	144.0	12,300	150
155							6.1	121.7	11,500	155

MLC200 S-1

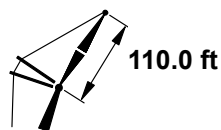
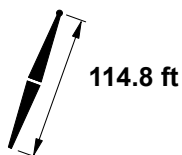
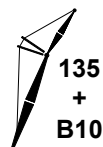
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
42	74.9	228.7	72,300 c							42
45	73.2	227.8	71,900 b							45
50	70.5	226.2	69,100 b							50
55	67.7	224.3	66,600							55
58	66.0	223.0	65,100	70.5	225.3	64,500 b				58
60	64.9	222.1	64,200	69.4	224.6	61,700				60
65	61.9	219.6	59,300	66.6	222.6	55,700				65
69	59.5	217.3	55,000	64.3	220.7	51,700	67.6	222.4	49,100	69
70	58.9	216.8	54,000	63.7	220.3	50,600	67.1	222.0	48,200	70
75	55.9	213.6	49,400	60.7	217.6	46,400	64.2	219.7	44,100	75
80	52.6	210.0	45,500	57.7	214.7	42,700	61.3	217.1	40,600	80
85	49.3	205.9	42,100	54.6	211.3	39,500	58.3	214.2	37,500	85
87	47.9	204.1	41,000	53.3	209.8	38,400	57.0	212.9	36,400	87
90	45.8	201.3	39,200	51.3	207.5	36,700	55.2	210.9	34,800	90
95	42.0	196.1	36,500	47.9	203.3	34,200	51.9	207.2	32,500	95
100	38.0	190.2	34,200	44.3	198.4	32,000	48.5	203.1	30,400	100
105	33.5	183.2	32,100	40.4	193.0	30,000	45.0	198.4	28,500	105
110	28.4	174.9	30,200	36.2	186.6	28,200	41.1	193.0	26,800	110
115	22.3	164.3	28,400	31.5	179.2	26,600	37.0	186.9	25,200	115
120	14.0	149.1	26,800	26.1	170.1	25,100	32.4	179.7	23,800	120
122	7.3	136.4	26,200	23.4	165.3	24,500	30.3	176.2	23,300	122
123	3.9	130.0	25,800	22.1	162.9	24,300	29.3	174.4	23,000	123
125				19.4	158.1	23,700	27.2	170.9	22,500	125
130				8.6	138.0	22,400	20.8	159.7	21,300	130
131				3.7	128.7	22,100	18.9	156.2	21,000	131
135							11.4	142.3	20,100	135
137							3.0	126.5	19,600	137
140										140
145										145
146										146
150										150
155										155
156										156
160										160
165										165

MLC200 S-1

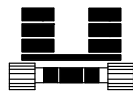
ASME B30.5



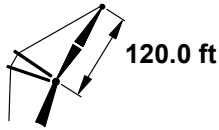
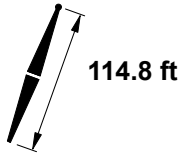
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
42										42
45										45
50										50
55										55
58										58
60										60
65										65
69										69
70										70
75										75
80										80
85										85
87	62.9	216.2	33,200							87
90	61.1	214.6	31,800							90
95	58.1	211.7	29,600							95
100	55.0	208.4	27,600							100
105	51.7	204.7	25,900	57.8	208.2	23,400				105
110	48.4	200.5	24,300	54.7	204.8	21,900				110
115	44.8	195.8	22,900	51.4	201.1	20,600				115
120	40.9	190.4	21,600	48.0	196.8	19,400				120
122	39.3	187.9	21,100	46.5	194.9	19,000	52.9	198.8	16,900	122
123	38.4	186.6	20,900	45.8	194.0	18,800	52.2	198.0	16,700	123
125	36.8	184.2	20,400	44.4	192.0	18,300	50.9	196.4	16,300	125
130	32.2	176.9	19,300	40.5	186.6	17,300	47.4	192.1	15,400	130
131	31.1	175.1	19,100	39.7	185.3	17,100	46.7	191.1	15,200	131
135	26.9	168.1	18,300	36.3	180.3	16,400	43.8	187.2	14,500	135
137	24.3	163.5	17,900	34.5	177.3	16,000	42.2	184.9	14,200	137
140	20.4	156.6	17,300	31.7	172.9	15,500	39.9	181.6	13,800	140
145	10.6	138.6	16,400	26.3	163.8	14,700	35.6	175.1	13,000	145
146	7.3	132.3	16,200	25.0	161.5	14,500	34.7	173.6	12,900	146
150				19.6	152.0	13,900	30.9	167.5	12,300	150
155				9.1	132.5	13,200	25.3	158.1	11,700	155
156				4.8	124.3	13,000	23.9	155.6	11,500	156
160							18.3	145.6	11,000	160
165							5.8	122.2	10,400	165

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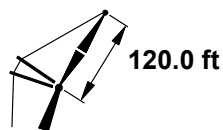
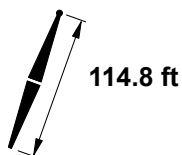
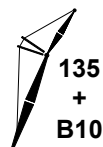
114,600 lb
+
0 lb



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
45	74.7	238.2	53,800 b						45	
50	72.2	236.8	52,600 b						50	
55	69.6	235.0	51,600						55	
60	67.1	233.0	50,600						60	
61	66.5	232.6	50,400	70.6	234.9	52,300			61	
65	64.5	230.8	49,600	68.6	233.4	51,500			65	
70	61.8	228.3	48,600	66.0	231.3	50,400			70	
73	60.1	226.6	48,100	64.4	229.9	47,800	67.5	231.6	45,300	
75	59.0	225.4	47,800	63.4	228.9	46,100	66.5	230.7	43,700	
80	56.2	222.2	45,300	60.7	226.3	42,400	63.9	228.4	40,200	
85	53.3	218.7	41,900	57.9	223.3	39,200	61.2	225.8	37,200	
90	50.2	214.8	38,900	55.0	220.0	36,400	58.4	222.9	34,500	
92	49.0	213.0	37,900	53.8	218.5	35,400	57.3	221.6	33,600	
95	47.1	210.4	36,300	52.1	216.3	33,900	55.6	219.6	32,200	
100	43.7	205.4	34,000	49.0	212.2	31,700	52.6	216.0	30,100	
105	40.1	199.9	31,900	45.7	207.6	29,800	49.6	212.0	28,200	
110	36.3	193.5	30,000	42.3	202.4	28,000	46.3	207.5	26,500	
115	32.0	186.1	28,300	38.6	196.5	26,400	42.9	202.4	24,900	
120	27.2	177.3	26,700	34.6	189.8	24,900	39.3	196.7	23,500	
125	21.4	166.3	25,200	30.1	181.9	23,500	35.4	190.1	22,200	
128	16.6	156.7	24,400	27.0	176.2	22,800	32.8	185.5	21,500	
130	13.4	150.3	23,900	25.0	172.3	22,300	31.0	182.5	21,000	
133	3.7	130.3	23,000	21.1	164.8	21,600	28.0	177.0	20,400	
135				18.5	159.8	21,100	26.0	173.3	19,900	
140				8.2	138.8	20,000	19.9	161.5	18,900	
141				3.5	129.0	19,700	18.1	157.8	18,700	
145							10.9	143.3	17,900	
147							2.9	126.7	17,500	
150									150	
155									155	
156									156	
160									160	
165									165	
166									166	
170									170	
175									175	

MLC200 S-1

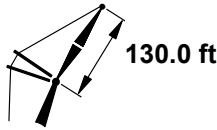
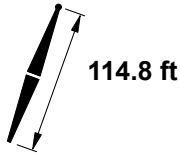
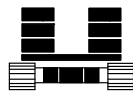
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
61										61
65										65
70										70
73										73
75										75
80										80
85										85
90										90
92	62.7	224.9	30,500							92
95	61.0	223.3	29,200							95
100	58.3	220.4	27,300							100
105	55.4	217.1	25,600							105
110	52.5	213.5	24,000	58.0	216.9	21,600				110
115	49.4	209.4	22,600	55.1	213.6	20,300				115
120	46.2	204.9	21,300	52.2	209.9	19,100				120
125	42.8	199.8	20,100	49.1	205.8	18,000				125
128	40.6	196.3	19,400	47.1	203.0	17,400	52.9	206.8	15,400	128
130	39.1	194.0	19,000	45.8	201.2	17,000	51.7	205.2	15,000	130
133	36.7	190.0	18,400	43.8	198.1	16,400	49.8	202.7	14,500	133
135	35.2	187.4	18,000	42.4	196.0	16,100	48.6	201.0	14,200	135
140	30.8	179.7	17,000	38.7	190.2	15,200	45.3	196.4	13,400	140
141	29.8	177.8	16,900	37.9	188.8	15,000	44.6	195.3	13,200	141
145	25.7	170.4	16,200	34.7	183.5	14,400	41.8	191.1	12,700	145
147	23.2	165.6	15,800	33.0	180.3	14,100	40.3	188.7	12,400	147
150	19.5	158.4	15,300	30.3	175.6	13,700	38.1	185.1	12,000	150
155	10.2	139.5	14,500	25.2	166.1	12,900	34.0	178.3	11,400	155
156	7.0	132.9	14,300	23.9	163.6	12,800	33.1	176.6	11,200	156
160				18.8	153.7	12,300	29.5	170.2	10,800	160
165				8.7	133.3	11,600	24.2	160.3	10,200	165
166				4.6	124.7	11,400	22.9	157.7	10,100	166
170							17.5	147.2	9,600	170
175							5.6	122.7	9,100	175

MLC200 S-1

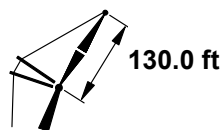
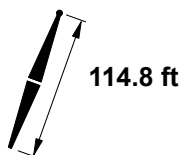
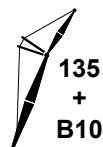
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
47	75.0	248.1	50,200 b							47
50	73.6	247.2	49,600 b							50
55	71.3	245.6	48,600							55
60	68.9	243.8	47,700							60
64	67.0	242.2	47,000	70.8	244.4	48,600				64
65	66.5	241.8	46,900	70.3	244.1	48,500				65
70	64.1	239.5	46,000	68.0	242.2	47,700				70
75	61.6	236.9	45,300	65.6	240.0	45,900				75
76	61.1	236.4	44,900	65.1	239.5	45,100	67.9	241.1	42,800	76
80	59.1	234.1	43,700	63.1	237.6	42,200	66.0	239.4	40,000	80
85	56.5	230.9	41,700	60.6	235.0	39,000	63.6	237.1	37,000	85
90	53.8	227.5	38,800	58.1	232.0	36,200	61.1	234.5	34,300	90
95	51.0	223.6	36,100	55.4	228.7	33,700	58.5	231.6	31,900	95
96	50.5	222.8	35,700	54.9	228.0	33,300	58.0	230.9	31,500	96
100	48.1	219.4	33,800	52.7	225.1	31,500	55.9	228.3	29,800	100
105	45.1	214.6	31,700	49.9	221.1	29,600	53.2	224.8	28,000	105
110	41.9	209.4	29,800	46.9	216.6	27,800	50.4	220.8	26,300	110
115	38.5	203.4	28,100	43.8	211.7	26,200	47.5	216.5	24,700	115
116	37.8	202.1	27,800	43.2	210.6	25,900	46.9	215.5	24,500	116
120	34.8	196.7	26,500	40.6	206.2	24,700	44.4	211.7	23,300	120
125	30.7	189.0	25,100	37.0	200.0	23,400	41.2	206.3	22,100	125
130	26.1	179.7	23,800	33.2	192.9	22,100	37.7	200.2	20,900	130
134	21.6	170.4	22,800	29.8	186.2	21,200	34.7	194.6	20,000	134
135	20.5	168.1	22,600	28.9	184.6	21,000	33.9	193.3	19,800	135
140	12.9	151.4	21,400	24.0	174.5	19,900	29.8	185.2	18,800	140
143	3.6	130.6	20,700	20.3	166.7	19,300	26.9	179.4	18,200	143
145				17.8	161.4	18,900	25.0	175.5	17,800	145
150				7.9	139.5	17,900	19.1	163.2	16,900	150
151				3.4	129.3	17,700	17.4	159.4	16,700	151
155							10.4	144.2	16,100	155
157							2.8	127.0	15,700	157
160										160
165										165
166										166
170										170
175										175
176										176
180										180
185										185

MLC200 S-1

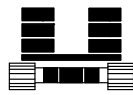
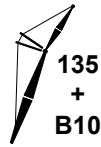
ASME B30.5



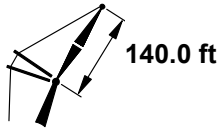
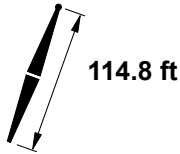
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
47										47
50										50
55										55
60										60
64										64
65										65
70										70
75										75
76										76
80										80
85										85
90										90
95										95
96	63.0	234.1	28,600							96
100	61.0	232.0	27,100							100
105	58.4	229.0	25,300							105
110	55.8	225.8	23,800							110
115	53.1	222.2	22,300							115
116	52.5	221.4	22,100	57.6	224.9	19,800				116
120	50.3	218.3	21,100	55.5	222.3	18,800				120
125	47.3	213.9	19,900	52.8	218.6	17,700				125
130	44.3	209.0	18,800	50.0	214.6	16,800				130
134	41.7	204.7	18,000	47.6	211.1	16,000	52.9	214.8	14,100	134
135	41.0	203.6	17,800	47.0	210.2	15,800	52.3	214.0	13,900	135
140	37.5	197.5	16,900	43.9	205.3	15,000	49.5	209.9	13,200	140
143	35.3	193.3	16,300	42.0	202.0	14,500	47.7	207.2	12,700	143
145	33.7	190.5	16,000	40.7	199.8	14,200	46.5	205.4	12,400	145
150	29.5	182.4	15,200	37.2	193.6	13,500	43.4	200.4	11,800	150
151	28.6	180.4	15,000	36.4	192.2	13,300	42.7	199.3	11,600	151
155	24.7	172.6	14,400	33.3	186.5	12,800	40.1	194.8	11,100	155
157	22.3	167.6	14,100	31.6	183.2	12,500	38.7	192.3	10,900	157
160	18.7	160.1	13,700	29.1	178.3	12,100	36.6	188.5	10,600	160
165	9.8	140.4	13,000	24.2	168.3	11,500	32.7	181.3	10,000	165
166	6.7	133.5	12,800	22.9	165.7	11,400	31.8	179.6	9,900	166
170				18.0	155.3	10,900	28.3	172.8	9,500	170
175				8.4	134.0	10,300	23.3	162.4	9,000	175
176				4.4	125.1	10,200	22.0	159.7	8,900	176
180							16.8	148.7	8,500	180
185							5.4	123.2	8,000	185

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ASME B30.5



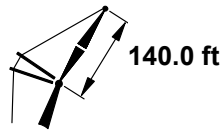
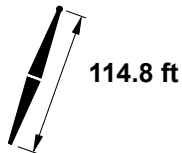
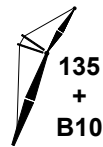
114,600 lb
+
0 lb



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
50	74.8	257.6	46,500 b						50	
55	72.7	256.2	45,600						55	
60	70.5	254.5	44,800						60	
65	68.3	252.6	44,000						65	
67	67.4	251.8	43,700	70.9	254.0	45,100			67	
70	66.1	250.5	43,200	69.6	252.9	44,600			70	
75	63.8	248.2	41,600	67.4	250.9	43,900			75	
80	61.5	245.6	40,000	65.2	248.7	41,900	67.8	250.3	39,700	80
85	59.2	242.7	38,400	62.9	246.3	38,700	65.6	248.2	36,600	85
90	56.8	239.6	36,800	60.6	243.6	35,900	63.3	245.8	34,000	90
95	54.3	236.2	35,400	58.2	240.7	33,500	61.0	243.1	31,600	95
100	51.7	232.4	33,600	55.8	237.4	31,300	58.7	240.2	29,500	100
101	51.2	231.6	33,100	55.3	236.7	30,900	58.2	239.6	29,200	101
105	49.1	228.3	31,500	53.3	233.8	29,300	56.2	237.0	27,700	105
110	46.3	223.7	29,600	50.7	229.9	27,500	53.7	233.5	26,000	110
115	43.4	218.7	27,900	48.0	225.6	25,900	51.1	229.7	24,400	115
120	40.3	213.1	26,300	45.1	220.9	24,400	48.5	225.4	23,000	120
121	39.7	211.9	26,000	44.5	219.8	24,200	47.9	224.5	22,800	121
125	37.0	206.9	24,900	42.2	215.6	23,100	45.7	220.8	21,800	125
130	33.5	199.8	23,600	39.0	209.8	21,900	42.7	215.7	20,600	130
135	29.6	191.6	22,400	35.6	203.2	20,700	39.6	209.9	19,500	135
140	25.1	182.0	21,200	32.0	195.8	19,700	36.3	203.5	18,500	140
145	19.8	169.9	20,200	27.9	187.1	18,700	32.7	196.2	17,600	145
150	12.4	152.5	19,200	23.1	176.6	17,800	28.7	187.8	16,700	150
153	3.5	131.0	18,600	19.5	168.4	17,200	25.9	181.8	16,200	153
155				17.2	163.0	16,900	24.1	177.7	15,900	155
160				7.6	140.1	16,000	18.4	164.8	15,100	160
161				3.3	129.6	15,800	16.7	160.9	14,900	161
165							10.1	145.1	14,300	165
167							2.7	127.2	14,000	167
170										170
175										175
176										176
180										180
185										185
186										186
190										190
195										195

MLC200 S-1

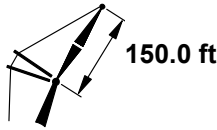
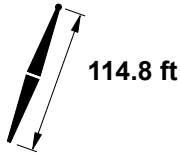
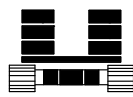
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
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65										65
67										67
70										70
75										75
80										80
85										85
90										90
95										95
100										100
101	62.8	242.8	26,300							101
105	60.9	240.6	25,000							105
110	58.5	237.7	23,400							110
115	56.1	234.5	22,000							115
120	53.6	231.0	20,700							120
121	53.1	230.2	20,500	57.8	233.6	18,200				121
125	51.0	227.1	19,600	55.8	231.0	17,400				125
130	48.3	222.9	18,500	53.3	227.4	16,400				130
135	45.5	218.2	17,500	50.7	223.5	15,500				135
140	42.6	213.0	16,600	48.0	219.2	14,600	52.9	222.8	12,800	140
145	39.5	207.3	15,700	45.2	214.5	13,900	50.3	218.8	12,100	145
150	36.1	200.8	14,900	42.3	209.3	13,100	47.6	214.4	11,400	150
153	33.9	196.4	14,400	40.4	205.8	12,700	45.9	211.6	11,000	153
155	32.5	193.5	14,200	39.1	203.4	12,400	44.8	209.6	10,800	155
160	28.4	185.0	13,400	35.8	196.9	11,800	41.8	204.3	10,200	160
161	27.5	182.9	13,300	35.0	195.4	11,700	41.1	203.1	10,100	161
165	23.8	174.8	12,800	32.1	189.5	11,200	38.6	198.4	9,700	165
167	21.5	169.5	12,500	30.5	186.0	11,000	37.2	195.7	9,500	167
170	18.1	161.7	12,100	28.0	180.8	10,600	35.2	191.7	9,100	170
175	9.4	141.2	11,500	23.3	170.4	10,100	31.5	184.1	8,700	175
176	6.5	134.1	11,400	22.1	167.7	10,000	30.6	182.4	8,600	176
180				17.4	156.9	9,600	27.3	175.2	8,200	180
185				8.1	134.8	9,000	22.4	164.4	7,700	185
186				4.3	125.5	8,900	21.2	161.6	7,700	186
190							16.2	150.2	7,300	190
195							5.2	123.7	6,800	195

MLC200 S-1

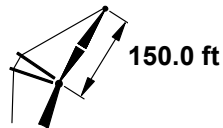
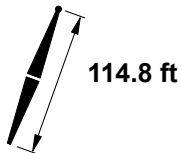
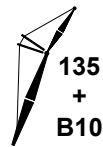
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
53	74.6	267.2	43,100						53	
55	73.8	266.6	42,700						55	
60	71.8	265.1	42,000						60	
65	69.8	263.3	41,200						65	
70	67.8	261.4	40,000						70	
71	67.4	260.9	39,700	70.6	263.2	41,600			71	
75	65.7	259.2	38,400	69.0	261.7	41,000			75	
80	63.6	256.9	36,800	66.9	259.7	39,500			80	
84	61.9	254.8	35,600	65.3	257.9	38,200	67.7	259.5	37,100	
85	61.4	254.3	35,300	64.8	257.4	37,900	67.3	259.1	36,500	
90	59.2	251.4	33,800	62.7	255.0	35,800	65.2	256.9	33,900	
95	57.0	248.3	32,300	60.5	252.3	33,400	63.1	254.4	31,500	
100	54.7	244.9	31,000	58.3	249.3	31,200	61.0	251.8	29,400	
105	52.3	241.2	29,700	56.1	246.1	29,200	58.7	248.9	27,600	
110	49.8	237.2	28,400	53.7	242.6	27,400	56.5	245.7	25,900	
115	47.3	232.7	27,200	51.3	238.7	25,800	54.2	242.3	24,300	
120	44.6	227.9	26,000	48.8	234.6	24,400	51.8	238.5	23,000	
125	41.8	222.6	24,800	46.2	230.0	23,000	49.3	234.4	21,700	
126	41.3	221.4	24,600	45.7	229.0	22,800	48.8	233.5	21,400	
130	38.9	216.7	23,500	43.5	225.0	21,800	46.7	229.9	20,500	
135	35.7	210.1	22,300	40.7	219.4	20,700	44.0	224.9	19,400	
140	32.3	202.7	21,200	37.6	213.3	19,600	41.2	219.5	18,400	
145	28.6	194.2	20,200	34.4	206.4	18,600	38.2	213.5	17,500	
146	27.7	192.2	20,000	33.7	204.8	18,500	37.6	212.1	17,300	
150	24.3	184.2	19,200	30.9	198.6	17,700	35.0	206.7	16,600	
155	19.1	171.6	18,300	26.9	189.5	16,900	31.5	199.1	15,800	
160	12.0	153.6	17,400	22.3	178.6	16,100	27.7	190.3	15,100	
163	3.3	131.3	16,900	18.9	170.1	15,600	25.0	184.0	14,600	
165				16.6	164.4	15,300	23.2	179.8	14,400	
170				7.3	140.8	14,600	17.8	166.4	13,700	
171				3.1	129.9	14,400	16.2	162.3	13,500	
175							9.7	146.0	13,000	
177							2.6	127.4	12,700	
180									180	
185									185	
186									186	
190									190	
195									195	
196									196	
200									200	
205									205	

MLC200 S-1

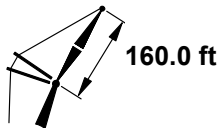
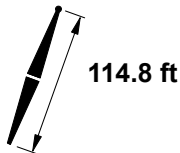
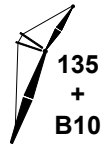
ASME B30.5



	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	63.0	252.0	24,900							105
110	60.8	249.3	23,300							110
115	58.6	246.4	21,900							115
120	56.4	243.2	20,600							120
125	54.0	239.7	19,500							125
126	53.6	238.9	19,200	57.9	242.2	17,100				126
130	51.6	235.9	18,400	56.1	239.6	16,300				130
135	49.2	231.8	17,400	53.8	236.1	15,400				135
140	46.6	227.2	16,500	51.4	232.3	14,600				140
145	43.9	222.3	15,600	48.9	228.1	13,800				145
146	43.3	221.2	15,500	48.4	227.2	13,600	52.9	230.8	11,800	146
150	41.1	216.8	14,800	46.3	223.6	13,100	51.0	227.6	11,300	150
155	38.1	210.8	14,100	43.6	218.6	12,400	48.5	223.4	10,700	155
160	34.8	204.0	13,400	40.8	213.0	11,700	45.9	218.8	10,100	160
163	32.7	199.4	13,000	38.9	209.4	11,400	44.2	215.7	9,800	163
165	31.3	196.3	12,700	37.7	206.9	11,100	43.2	213.7	9,600	165
170	27.5	187.5	12,100	34.5	200.1	10,600	40.3	208.1	9,100	170
171	26.6	185.3	12,000	33.8	198.5	10,500	39.7	206.8	9,000	171
175	23.0	176.8	11,500	31.0	192.3	10,100	37.2	201.8	8,600	175
177	20.8	171.4	11,300	29.4	188.7	9,900	35.9	199.0	8,400	177
180	17.4	163.2	11,000	27.0	183.3	9,500	34.0	194.9	8,100	180
185	9.1	142.0	10,400	22.5	172.4	9,100	30.4	186.9	7,700	185
186	6.3	134.6	10,300	21.3	169.6	9,000	29.6	185.0	7,600	186
190				16.8	158.4	8,600	26.3	177.6	7,300	190
195				7.8	135.4	8,100	21.6	166.4	6,900	195
196				4.1	125.9	8,000	20.4	163.4	6,800	196
200							15.7	151.6	6,500	200
205							5.0	124.1	6,000	205

MLC200 S-1

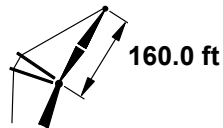
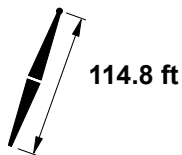
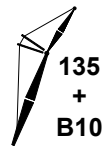
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
55	74.9	277.0	39,900						55	
60	73.0	275.5	39,100						60	
65	71.1	273.9	38,100						65	
70	69.2	272.1	36,600						70	
74	67.7	270.5	35,300	70.7	272.7	37,800			74	
75	67.3	270.1	35,000	70.4	272.4	37,500			75	
80	65.3	267.9	33,500	68.5	270.5	36,000			80	
85	63.4	265.5	32,100	66.5	268.4	34,500			85	
88	62.1	264.0	31,200	65.3	267.0	33,600	67.7	268.6	34,600	88
90	61.3	262.9	30,700	64.5	266.1	33,000	66.9	267.8	33,600	90
95	59.3	260.1	29,200	62.5	263.6	31,600	64.9	265.6	31,200	95
100	57.2	257.0	27,900	60.5	260.9	30,200	62.9	263.1	29,100	100
105	55.0	253.6	26,700	58.4	258.0	28,800	60.9	260.5	27,300	105
110	52.8	250.0	25,400	56.3	254.8	27,200	58.8	257.5	25,600	110
115	50.5	246.0	24,200	54.1	251.3	25,600	56.7	254.4	24,000	115
120	48.2	241.7	23,100	51.9	247.5	24,100	54.5	251.0	22,700	120
125	45.7	237.0	22,000	49.6	243.5	22,800	52.3	247.3	21,400	125
130	43.1	231.9	20,900	47.2	239.0	21,500	50.0	243.2	20,200	130
132	42.1	229.7	20,500	46.2	237.1	21,100	49.0	241.5	19,800	132
135	40.5	226.3	19,900	44.7	234.2	20,400	47.6	238.9	19,100	135
140	37.6	220.2	19,000	42.1	228.9	19,400	45.2	234.1	18,200	140
145	34.6	213.3	18,100	39.3	223.1	18,400	42.6	228.9	17,200	145
150	31.3	205.6	17,300	36.4	216.6	17,500	39.8	223.2	16,400	150
152	29.8	202.1	16,900	35.1	213.7	17,100	38.7	220.6	16,000	152
155	27.6	196.7	16,400	33.3	209.4	16,600	37.0	216.9	15,600	155
160	23.5	186.3	15,800	29.9	201.3	15,900	33.9	209.8	14,800	160
165	18.5	173.3	15,000	26.0	191.9	15,100	30.5	201.9	14,100	165
170	11.6	154.6	14,100	21.6	180.5	14,400	26.8	192.7	13,400	170
173	3.2	131.5	13,700	18.3	171.7	14,000	24.2	186.2	13,100	173
175				16.0	165.9	13,700	22.5	181.8	12,800	175
180				7.1	141.4	13,100	17.2	168.0	12,200	180
181				3.0	130.1	12,900	15.6	163.7	12,100	181
185							9.4	146.8	11,600	185
187							2.5	127.7	11,300	187
190										190
195										195
196										196
200										200
205										205
206										206
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MLC200 S-1

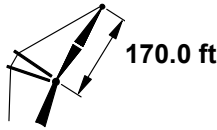
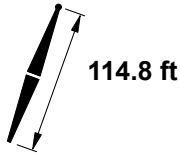
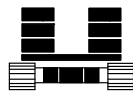
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
74										74
75										75
80										80
85										85
88										88
90										90
95										95
100										100
105										105
110	62.8	260.6	23,000							110
115	60.8	257.9	21,600							115
120	58.7	255.0	20,300							120
125	56.6	251.9	19,100							125
130	54.4	248.4	18,100							130
132	53.5	246.9	17,700	57.7	250.3	15,600				132
135	52.2	244.7	17,100	56.4	248.3	15,000				135
140	49.9	240.7	16,200	54.2	244.9	14,200				140
145	47.5	236.3	15,300	52.0	241.1	13,400				145
150	45.0	231.5	14,500	49.6	237.0	12,700				150
152	44.0	229.4	14,200	48.7	235.2	12,400	52.9	238.8	10,700	152
155	42.4	226.2	13,800	47.3	232.6	12,000	51.6	236.4	10,300	155
160	39.7	220.5	13,100	44.8	227.8	11,400	49.3	232.3	9,800	160
165	36.8	214.2	12,500	42.2	222.5	10,800	46.9	227.8	9,200	165
170	33.7	207.1	11,800	39.4	216.7	10,300	44.3	222.9	8,700	170
173	31.7	202.3	11,500	37.7	212.8	10,000	42.8	219.7	8,400	173
175	30.3	199.1	11,300	36.5	210.3	9,700	41.7	217.6	8,300	175
180	26.6	189.9	10,700	33.4	203.1	9,200	39.0	211.7	7,800	180
181	25.7	187.6	10,600	32.7	201.5	9,200	38.4	210.4	7,700	181
185	22.2	178.8	10,200	30.0	195.0	8,800	36.0	205.1	7,300	185
187	20.1	173.2	10,000	28.4	191.3	8,600	34.7	202.2	7,200	187
190	16.9	164.8	9,700	26.2	185.6	8,300	32.8	197.9	6,900	190
195	8.8	142.8	9,200	21.8	174.4	7,900	29.4	189.6	6,500	195
196	6.1	135.2	9,100	20.6	171.5	7,800	28.6	187.6	6,400	196
200				16.2	159.9	7,500	25.5	179.9	6,100	200
205				7.6	136.1	7,000	20.9	168.3	5,700	205
206				4.0	126.2	6,900	19.8	165.2	5,600	206
210							15.2	152.9	5,300	210

MLC200 S-1

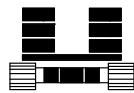
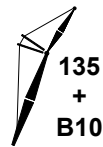
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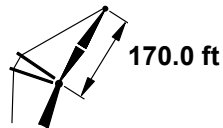
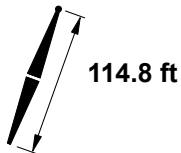
	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
58	74.7	286.5	36,600						58	
60	74.0	286.0	36,300						60	
65	72.3	284.5	35,200						65	
70	70.5	282.8	33,700						70	
75	68.7	280.9	32,300						75	
77	68.0	280.1	31,700	70.9	282.3	33,900			77	
80	66.9	278.9	30,900	69.8	281.2	33,200			80	
85	65.0	276.6	29,500	68.0	279.3	31,700			85	
90	63.2	274.2	28,100	66.1	277.1	30,300			90	
91	62.8	273.7	27,800	65.8	276.7	30,000	67.9	278.2	31,600	91
95	61.3	271.6	26,800	64.3	274.8	28,900	66.5	276.5	30,500	95
100	59.3	268.7	25,500	62.4	272.3	27,600	64.6	274.3	28,900	100
105	57.3	265.6	24,300	60.5	269.6	26,300	62.8	271.8	27,000	105
110	55.3	262.3	23,000	58.5	266.6	25,100	60.8	269.1	25,300	110
115	53.2	258.7	21,900	56.5	263.5	23,900	58.9	266.2	23,800	115
120	51.1	254.8	20,800	54.5	260.0	22,700	56.9	263.1	22,400	120
125	48.9	250.6	19,700	52.4	256.3	21,500	54.9	259.7	21,200	125
130	46.6	246.1	18,700	50.2	252.3	20,500	52.8	256.0	20,000	130
135	44.3	241.2	17,800	48.0	248.0	19,400	50.6	252.1	18,900	135
137	43.3	239.0	17,400	47.1	246.1	19,000	49.7	250.4	18,500	137
140	41.8	235.8	16,900	45.7	243.3	18,500	48.4	247.8	17,900	140
145	39.2	230.0	16,000	43.3	238.2	17,500	46.1	243.2	17,000	145
150	36.5	223.5	15,200	40.8	232.7	16,600	43.7	238.2	16,200	150
155	33.5	216.4	14,400	38.1	226.6	15,700	41.2	232.7	15,400	155
158	31.6	211.6	13,900	36.4	222.5	15,200	39.7	229.1	14,900	158
160	30.3	208.3	13,600	35.3	219.9	14,900	38.6	226.7	14,600	160
165	26.8	199.2	12,700	32.3	212.4	14,100	35.8	220.2	13,900	165
170	22.8	188.3	11,800	28.9	203.9	13,300	32.8	212.8	13,300	170
175	17.9	174.9	10,900	25.2	194.1	12,300	29.6	204.6	12,600	175
180	11.2	155.6	10,200	20.9	182.4	11,500	26.0	195.1	12,000	180
183	3.1	131.8	9,800	17.7	173.3	11,000	23.5	188.3	11,700	183
185				15.6	167.3	10,700	21.8	183.8	11,500	185
190				6.9	142.0	9,900	16.7	169.5	10,900	190
191				3.0	130.4	9,900	15.2	165.1	10,700	191
195							9.1	147.6	10,100	195
197							2.4	127.9	9,800	197
200										200
205										205
206										206
210										210
215										215
216										216

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ASME B30.5



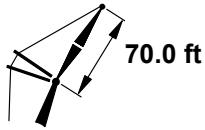
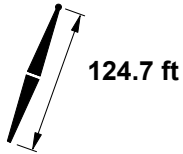
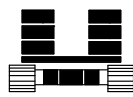
114,600 lb
+
0 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
58										58
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
115	62.7	269.3	21,300							115
120	60.7	266.6	20,000							120
125	58.8	263.7	18,900							125
130	56.8	260.5	17,800							130
135	54.8	257.1	16,800							135
137	53.9	255.7	16,500	57.8	258.9	14,400				137
140	52.7	253.5	15,900	56.6	257.0	14,000				140
145	50.5	249.5	15,100	54.5	253.6	13,200				145
150	48.3	245.2	14,300	52.5	249.9	12,500				150
155	46.0	240.6	13,600	50.3	245.9	11,800				155
158	44.6	237.6	13,200	49.0	243.3	11,400	53.0	246.8	9,700	158
160	43.6	235.5	12,900	48.1	241.6	11,200	52.1	245.2	9,500	160
165	41.1	230.1	12,200	45.8	236.9	10,600	49.9	241.2	9,000	165
170	38.5	224.1	11,600	43.4	231.8	10,000	47.7	236.8	8,500	170
175	35.7	217.4	11,100	40.8	226.3	9,500	45.4	232.1	7,900	175
180	32.7	210.1	10,500	38.2	220.2	9,000	43.0	226.9	7,500	180
183	30.7	205.1	10,200	36.5	216.2	8,700	41.4	223.5	7,200	183
185	29.4	201.8	10,000	35.4	213.5	8,600	40.4	221.3	7,000	185
190	25.8	192.2	9,500	32.4	206.1	8,100	37.7	215.1	6,600	190
191	24.9	189.9	9,400	31.7	204.4	8,000	37.2	213.8	6,500	191
195	21.6	180.8	9,100	29.1	197.7	7,700	34.9	208.3	6,100	195
197	19.5	174.9	8,900	27.6	193.8	7,500	33.7	205.3	6,000	197
200	16.4	166.2	8,600	25.4	187.9	7,300	31.8	200.8	5,700	200
205	8.6	143.6	8,100	21.1	176.3	6,900	28.5	192.1	5,400	205
206	5.9	135.7	8,000	20.0	173.3	6,800	27.7	190.1	5,300	206
210				15.8	161.3	6,500	24.7	182.2	5,000	210
215				7.3	136.8	6,100				215
216				3.9	126.6	6,000				216

MLC200 S-1

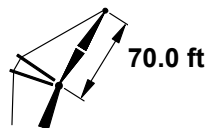
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	74.9	199.9	101,300 d							32
35	72.3	199.1	101,300 d							35
40	68.0	197.3	101,300 c							40
45	63.5	195.0	96,300 b							45
46	62.6	194.4	93,800 b	70.3	197.3	87,700 c				46
50	58.8	192.2	83,800 b	66.8	195.8	78,500 c				50
55	53.9	188.9	74,000	62.3	193.4	69,400 b				55
56	52.9	188.1	72,500	61.3	192.8	67,900 b	67.2	194.9	64,400 c	56
60	48.7	184.9	66,200	57.5	190.5	62,000 b	63.6	193.1	58,900 b	60
65	43.0	180.1	59,800	52.5	187.0	56,000	58.9	190.3	53,200 b	65
70	36.6	174.0	54,400	47.2	182.8	51,000	54.0	187.0	48,400	70
72	33.5	170.9	52,500	44.8	180.7	49,200	51.9	185.4	46,700	72
75	29.0	166.3	49,800	41.3	177.7	46,700	48.8	183.0	44,300	75
80	18.9	155.0	45,800	34.7	171.3	42,900	43.1	178.2	40,800	80
83	8.5	142.7	43,500	29.8	166.2	41,000	39.2	174.6	38,900	83
85				26.6	162.8	39,700	36.7	172.2	37,700	85
87				22.0	157.6	38,500	33.7	169.1	36,600	87
90				15.1	149.7	36,800	29.1	164.4	35,000	90
92				6.3	139.1	35,600	25.1	160.0	34,000	92
95							19.1	153.3	32,500	95
98							9.0	141.3	31,100	98
100										100
102										102
105										105
109										109
110										110
115										115
119										119
120										120
125										125
129										129

MLC200 S-1

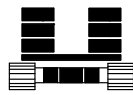
ASME B30.5



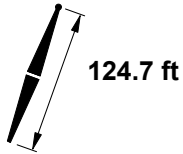
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
32										32
35										35
40										40
45										45
46										46
50										50
55										55
56										56
60										60
65										65
70										70
72	62.3	189.8	42,500 b							72
75	59.5	188.1	40,300 b							75
80	54.6	184.9	37,100							80
83	51.5	182.5	35,400							83
85	49.4	181.0	34,300							85
87	47.1	179.1	33,300	57.9	183.6	30,000 b				87
90	43.8	176.2	31,900	54.9	181.6	28,700				90
92	41.2	173.9	31,000	52.8	180.1	27,900				92
95	37.5	170.4	29,700	49.7	177.8	26,800				95
98	33.0	165.9	28,500	46.4	175.0	25,700				98
100	30.1	162.9	27,700	44.1	173.1	25,000				100
102	26.3	158.7	27,000	41.6	170.8	24,300	52.9	175.8	21,700	102
105	20.5	152.3	25,900	37.9	167.3	23,400	49.7	173.4	20,800	105
109	6.4	135.6	24,500	32.1	161.5	22,200	45.2	169.7	19,800	109
110				30.6	160.0	21,900	44.1	168.7	19,500	110
115				21.2	149.7	20,500	37.9	163.0	18,300	115
119				8.4	134.6	19,500	32.0	157.1	17,400	119
120							30.6	155.6	17,200	120
125							21.2	145.3	16,200	125
129							8.3	130.1	15,300	129

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ASME B30.5



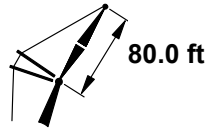
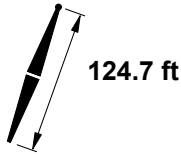
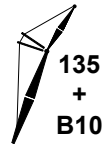
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
35	74.6	209.5	92,400 d							35
40	70.9	207.9	92,200 c							40
45	67.0	206.0	91,900 b							45
49	63.9	204.1	85,200 b	70.6	206.9	80,300 c				49
50	63.1	203.7	83,600 b	69.8	206.5	78,200 c				50
55	59.0	200.9	73,800	66.0	204.5	69,100 b				55
59	55.6	198.3	67,600	62.8	202.5	63,200 b	67.9	204.5	59,900 b	59
60	54.7	197.6	66,000	62.0	202.1	61,800 b	67.1	204.0	58,600 b	60
65	50.2	193.8	59,600	57.9	199.2	55,700	63.2	201.7	52,800 b	65
70	45.3	189.3	54,200	53.5	195.8	50,700	59.1	199.0	48,100	70
75	40.1	183.8	49,700	48.9	191.7	46,400	54.8	195.7	44,000	75
76	38.9	182.5	48,900	47.9	190.8	45,700	53.9	194.9	43,300	76
80	34.1	177.2	45,700	44.0	187.0	42,700	50.3	191.9	40,500	80
85	27.1	168.8	42,300	38.5	181.3	39,500	45.4	187.4	37,500	85
90	17.7	156.6	39,200	32.4	174.3	36,700	40.2	182.0	34,800	90
93	8.0	143.4	37,500	27.9	168.8	35,200	36.6	178.0	33,300	93
95				24.9	165.1	34,200	34.2	175.4	32,400	95
100				14.1	151.0	31,900	27.2	167.0	30,300	100
102				5.9	139.7	31,000	23.5	162.1	29,500	102
105							17.9	154.9	28,300	105
108							8.4	142.1	27,200	108
110										110
115										115
119										119
120										120
125										125
129										129
130										130
135										135
139										139

MLC200 S-1

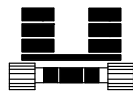
ASME B30.5



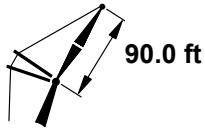
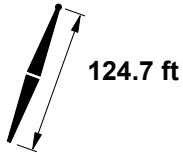
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
35										35
40										40
45										45
49										49
50										50
55										55
59										59
60										60
65										65
70										70
75										75
76	62.8	199.0	39,300 b							76
80	59.5	196.8	36,800							80
85	55.3	193.6	34,000							85
90	50.8	189.8	31,500							90
93	47.9	187.1	30,200	57.3	191.7	27,100				93
95	46.0	185.4	29,400	55.6	190.3	26,400				95
100	40.8	180.1	27,400	51.1	186.6	24,600				100
102	38.5	177.5	26,700	49.2	184.8	24,000				102
105	35.0	173.7	25,700	46.3	182.2	23,000				105
108	30.9	168.8	24,700	43.2	179.1	22,200	52.9	183.8	19,600	108
110	28.1	165.5	24,100	41.1	177.0	21,600	51.1	182.2	19,100	110
115	19.2	154.1	22,600	35.4	170.6	20,300	46.3	177.8	18,000	115
119	6.0	136.2	21,400	29.9	164.2	19,300	42.1	173.7	17,100	119
120				28.6	162.6	19,100	41.1	172.6	16,900	120
125				19.9	151.5	18,000	35.3	166.3	15,900	125
129				7.9	135.3	17,000	29.9	159.8	15,200	129
130							28.6	158.2	15,000	130
135							19.8	147.1	14,100	135
139							7.7	130.8	13,400	139

MLC200 S-1

ASME B30.5



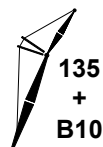
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
38	74.4	219.0	83,900 c							38
40	73.1	218.4	83,800 c							40
45	69.7	216.8	82,700 b							45
50	66.3	214.7	79,200 b							50
52	64.8	213.8	77,000 b	70.8	216.4	74,100 c				52
55	62.7	212.4	73,700	68.8	215.3	68,900 b				55
60	59.1	209.6	65,900	65.3	213.2	61,600 b				60
63	56.8	207.6	62,000	63.2	211.7	58,000 b	67.7	213.6	54,800 b	63
65	55.3	206.4	59,500	61.8	210.7	55,600	66.3	212.8	52,600 b	65
70	51.3	202.6	54,100	58.1	207.8	50,500	62.8	210.4	47,900	70
75	47.1	198.3	49,600	54.3	204.5	46,300	59.2	207.6	43,800	75
80	42.6	193.3	45,700	50.2	200.6	42,600	55.4	204.4	40,300	80
81	41.6	192.1	45,000	49.4	199.7	42,000	54.6	203.7	39,700	81
85	37.7	187.4	42,300	46.0	196.1	39,400	51.4	200.7	37,300	85
90	32.1	180.2	39,300	41.3	190.9	36,600	47.2	196.4	34,600	90
95	25.5	171.1	36,600	36.3	184.7	34,100	42.7	191.4	32,300	95
98	20.2	163.3	35,200	32.8	180.1	32,800	39.7	187.8	31,000	98
100	16.6	158.1	34,200	30.5	177.1	31,900	37.8	185.5	30,200	100
103	7.5	144.1	32,800	26.2	171.2	30,700	34.4	181.2	29,000	103
105				23.4	167.2	29,900	32.2	178.3	28,300	105
110				13.3	152.2	28,000	25.6	169.3	26,600	110
112				5.6	140.2	27,300	22.1	164.2	25,900	112
114							18.6	159.0	25,300	114
115							16.9	156.4	25,000	115
118							7.9	142.8	24,000	118
120										120
125										125
129										129
130										130
135										135
139										139
140										140
145										145
149										149

MLC200 S-1

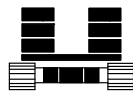
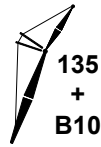
ASME B30.5



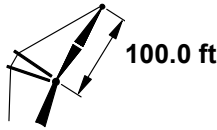
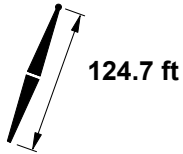
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb		
38									38	
40									40	
45									45	
50									50	
52									52	
55									55	
60									60	
63									63	
65									65	
70									70	
75									75	
80									80	
81	62.5	207.6	36,000						81	
85	59.6	205.4	33,800						85	
90	55.8	202.3	31,300						90	
95	51.9	198.6	29,200						95	
98	49.4	196.1	28,000	57.6	200.3	25,100			98	
100	47.7	194.4	27,300	56.1	199.0	24,400			100	
103	45.0	191.4	26,200	53.7	196.8	23,500			103	
105	43.2	189.5	25,500	52.1	195.4	22,800			105	
110	38.4	183.7	24,000	48.0	191.2	21,400			110	
112	36.2	180.9	23,400	46.2	189.3	20,900			112	
114	34.0	178.1	22,800	44.4	187.3	20,400	52.9	191.8	18,000	114
115	32.9	176.7	22,600	43.5	186.3	20,100	52.1	191.0	17,800	115
118	29.0	171.4	21,800	40.6	182.9	19,400	49.6	188.5	17,100	118
120	26.5	167.9	21,200	38.7	180.6	19,000	48.0	186.8	16,700	120
125	18.1	155.7	20,000	33.3	173.7	17,900	43.5	182.0	15,700	125
129	5.7	136.7	19,000	28.2	166.8	17,100	39.6	177.4	15,000	129
130				26.9	165.1	16,900	38.7	176.2	14,800	130
135				18.7	153.2	15,900	33.2	169.3	14,000	135
139				7.4	136.0	15,100	28.2	162.4	13,400	139
140							26.9	160.7	13,200	140
145							18.7	148.8	12,400	145
149							7.3	131.4	11,800	149

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ASME B30.5



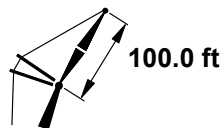
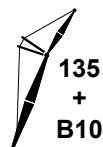
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40	74.8	228.9	76,900 c							40
45	71.8	227.4	76,400 b							45
50	68.8	225.6	73,900 b							50
55	65.7	223.5	70,700	71.0	226.0	68,600 b				55
60	62.5	221.0	65,700	67.9	224.1	61,300 b				60
65	59.2	218.2	59,300	64.8	221.9	55,300				65
67	57.8	217.0	57,100	63.5	220.9	53,300	67.6	222.8	50,300 b	67
70	55.8	215.0	53,900	61.6	219.4	50,200	65.7	221.5	47,500	70
75	52.2	211.4	49,400	58.3	216.5	46,000	62.5	219.1	43,500	75
80	48.5	207.3	45,500	54.9	213.2	42,300	59.2	216.3	40,000	80
85	44.6	202.5	42,100	51.3	209.4	39,200	55.9	213.1	37,000	85
90	40.3	197.1	39,100	47.5	205.2	36,400	52.3	209.5	34,300	90
95	35.7	190.7	36,400	43.5	200.2	33,900	48.6	205.4	32,000	95
100	30.4	183.0	34,100	39.1	194.5	31,700	44.7	200.6	29,900	100
103	26.7	177.2	32,800	36.3	190.5	30,500	42.1	197.4	28,800	103
105	24.2	173.3	32,000	34.3	187.8	29,700	40.4	195.2	28,000	105
110	15.8	159.6	30,000	28.9	179.7	27,900	35.8	188.8	26,300	110
113	7.1	144.7	28,900	24.9	173.4	26,900	32.6	184.2	25,400	113
115				22.2	169.3	26,300	30.5	181.2	24,800	115
120				12.6	153.3	24,700	24.3	171.5	23,400	120
122				5.3	140.6	24,100	21.0	166.1	22,800	122
125							16.0	157.9	22,000	125
128							7.5	143.5	21,200	128
130										130
135										135
139										139
140										140
145										145
149										149
150										150
155										155
159										159

MLC200 S-1

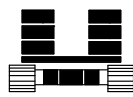
ASME B30.5



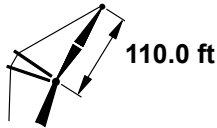
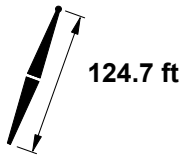
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
40									40	
45									45	
50									50	
55									55	
60									60	
65									65	
67									67	
70									70	
75									75	
80									80	
85	62.9	216.8	33,400						85	
90	59.6	214.1	31,000						90	
95	56.3	211.0	28,800						95	
100	52.7	207.4	26,900						100	
103	50.5	204.9	25,900	57.8	209.0	23,000			103	
105	49.0	203.3	25,200	56.5	207.7	22,400			105	
110	45.1	198.7	23,700	53.0	204.2	21,000			110	
113	42.6	195.5	22,800	50.7	201.7	20,300			113	
115	40.9	193.3	22,300	49.3	200.1	19,800			115	
120	36.3	187.1	21,000	45.4	195.5	18,600	52.9	199.8	16,300	120
122	34.3	184.1	20,500	43.7	193.4	18,200	51.5	198.2	15,900	122
125	31.2	179.6	19,800	41.2	190.2	17,500	49.3	195.8	15,300	125
128	27.5	174.0	19,100	38.5	186.5	17,000	46.9	193.0	14,800	128
130	25.1	170.2	18,700	36.6	184.0	16,600	45.4	191.2	14,500	130
135	17.1	157.3	17,600	31.5	176.6	15,600	41.2	185.8	13,600	135
139	5.4	137.2	16,800	26.7	169.3	15,000	37.5	180.9	13,000	139
140				25.5	167.4	14,800	36.6	179.6	12,900	140
145				17.7	154.8	14,000	31.5	172.2	12,200	145
149				7.0	136.6	13,300	26.7	164.9	11,600	149
150							25.5	163.0	11,500	150
155							17.7	150.4	10,800	155
159							6.9	132.0	10,300	159

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ASME B30.5



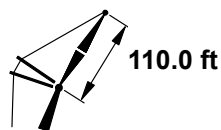
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
43	74.6	238.4	70,600 c							43
45	73.5	237.8	70,400 b							45
50	70.8	236.2	68,700 b							50
55	68.0	234.3	66,200							55
59	65.7	232.6	64,300	70.6	235.2	62,500 b				59
60	65.2	232.2	63,800	70.0	234.8	61,200 b				60
65	62.2	229.7	59,200	67.2	232.9	55,200				65
70	59.3	226.9	53,800	64.4	230.6	50,200				70
71	58.6	226.3	52,900	63.8	230.1	49,300	67.5	232.0	46,600	71
75	56.2	223.7	49,300	61.5	228.1	45,900	65.2	230.2	43,400	75
80	53.0	220.2	45,400	58.4	225.2	42,300	62.3	227.7	39,900	80
85	49.6	216.2	42,000	55.3	221.9	39,100	59.3	225.0	36,900	85
90	46.1	211.7	39,100	52.1	218.2	36,300	56.2	221.8	34,300	90
95	42.4	206.5	36,500	48.7	214.1	33,900	53.0	218.3	32,000	95
100	38.4	200.6	34,100	45.2	209.4	31,700	49.7	214.3	29,900	100
105	34.0	193.8	32,000	41.4	204.1	29,700	46.2	209.8	28,000	105
109	30.0	187.3	30,500	38.1	199.2	28,300	43.2	205.7	26,700	109
110	29.0	185.6	30,100	37.2	198.0	27,900	42.5	204.6	26,300	110
115	23.0	175.4	28,400	32.7	190.9	26,300	38.5	198.8	24,800	115
120	15.0	160.9	26,800	27.5	182.2	24,900	34.1	192.0	23,400	120
123	6.8	145.3	25,800	23.7	175.6	24,000	31.1	187.1	22,600	123
125				21.2	171.2	23,500	29.1	183.8	22,100	125
126				19.3	167.8	23,200	27.9	181.8	21,900	126
130				12.1	154.4	22,200	23.2	173.6	20,900	130
132				5.0	141.1	21,700	20.0	167.9	20,500	132
135							15.2	159.3	19,800	135
138							7.2	144.1	19,100	138
140										140
145										145
149										149
150										150
155										155
159										159
160										160
165										165
169										169

MLC200 S-1

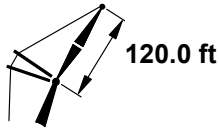
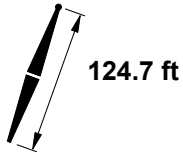
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
43										43
45										45
50										50
55										55
59										59
60										60
65										65
70										70
71										71
75										75
80										80
85										85
90	62.6	225.5	30,900							90
95	59.7	222.7	28,800							95
100	56.6	219.6	26,900							100
105	53.4	216.1	25,200							105
109	50.8	213.0	24,000	57.4	217.0	21,300				109
110	50.1	212.2	23,600	56.8	216.4	21,000				110
115	46.6	207.8	22,300	53.6	212.9	19,700				115
120	42.9	202.7	21,000	50.3	209.0	18,600				120
123	40.5	199.2	20,300	48.2	206.4	18,000				123
125	38.9	196.9	19,800	46.8	204.6	17,500				125
126	38.1	195.6	19,600	46.1	203.6	17,300	53.0	207.8	15,100	126
130	34.6	190.3	18,700	43.2	199.6	16,600	50.3	204.6	14,400	130
132	32.6	187.1	18,300	41.6	197.3	16,200	48.9	202.9	14,100	132
135	29.7	182.3	17,700	39.2	193.9	15,700	46.8	200.2	13,600	135
138	26.2	176.3	17,200	36.6	189.9	15,200	44.6	197.2	13,200	138
140	23.9	172.4	16,800	34.9	187.2	14,800	43.1	195.2	12,900	140
145	16.3	158.7	15,900	30.0	179.4	14,000	39.2	189.5	12,200	145
149	5.1	137.6	15,200	25.5	171.6	13,400	35.7	184.2	11,600	149
150				24.3	169.6	13,300	34.9	182.9	11,500	150
155				16.9	156.3	12,600	30.0	175.0	10,900	155
159				6.7	137.2	12,000	25.4	167.2	10,400	159
160							24.3	165.2	10,300	160
165							16.9	151.9	9,700	165
169							6.6	132.6	9,300	169

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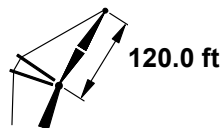
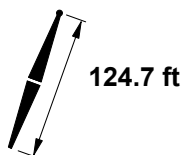
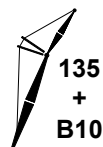
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	74.9	248.2	53,100 b							45
50	72.4	246.8	52,000 b							50
55	69.9	245.0	51,000							55
60	67.3	243.1	50,000							60
62	66.3	242.2	49,600	70.7	244.7	51,600				62
65	64.7	240.9	49,100	69.2	243.6	51,100				65
70	62.1	238.4	48,200	66.6	241.6	49,900				70
74	59.9	236.1	47,500	64.5	239.8	46,500	67.9	241.5	43,800	74
75	59.3	235.6	47,300	64.0	239.3	45,600	67.4	241.1	43,100	75
80	56.5	232.4	45,200	61.3	236.7	42,000	64.8	238.9	39,600	80
85	53.6	228.9	41,800	58.6	233.8	38,800	62.1	236.4	36,600	85
90	50.6	225.0	38,800	55.7	230.6	36,100	59.4	233.6	34,000	90
94	48.0	221.6	36,800	53.4	227.7	34,100	57.1	231.1	32,100	94
95	47.4	220.7	36,200	52.8	227.0	33,600	56.6	230.5	31,600	95
100	44.1	215.8	33,900	49.7	223.0	31,400	53.6	227.0	29,600	100
105	40.5	210.3	31,800	46.5	218.5	29,500	50.6	223.1	27,700	105
110	36.7	204.0	29,900	43.1	213.5	27,700	47.5	218.8	26,000	110
114	33.3	198.2	28,500	40.2	208.9	26,400	44.8	214.9	24,800	114
115	32.5	196.8	28,200	39.5	207.8	26,100	44.1	213.9	24,500	115
120	27.7	188.2	26,600	35.6	201.3	24,600	40.6	208.4	23,100	120
125	22.0	177.4	25,200	31.3	193.7	23,300	36.8	202.2	21,900	125
130	14.4	162.2	23,800	26.3	184.6	22,000	32.6	194.9	20,700	130
132	9.1	151.3	23,300	23.9	180.0	21,600	30.7	191.5	20,200	132
133	6.5	145.9	23,000	22.7	177.6	21,300	29.7	189.8	20,000	133
135				20.3	173.0	20,900	27.8	186.3	19,600	135
140				11.5	155.4	19,800	22.2	175.6	18,600	140
142				4.8	141.5	19,300	19.1	169.6	18,200	142
145							14.6	160.6	17,600	145
148							6.9	144.7	17,000	148
150										150
155										155
159										159
160										160
165										165
169										169
170										170
175										175
179										179

MLC200 S-1

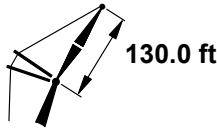
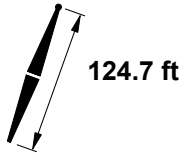
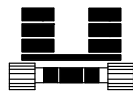
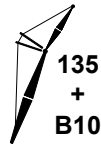
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
62										62
65										65
70										70
74										74
75										75
80										80
85										85
90										90
94	63.0	234.7	28,800							94
95	62.4	234.2	28,400							95
100	59.7	231.4	26,500							100
105	56.9	228.3	24,800							105
110	54.0	224.9	23,300							110
114	51.6	221.8	22,200	57.6	225.7	19,600				114
115	51.0	221.0	21,900	57.1	225.1	19,400				115
120	47.8	216.8	20,700	54.2	221.6	18,200				120
125	44.5	212.0	19,500	51.2	217.8	17,200				125
130	41.0	206.5	18,400	48.0	213.6	16,200				130
132	39.5	204.1	18,000	46.7	211.7	15,800	53.0	215.8	13,700	132
133	38.7	202.8	17,800	46.1	210.7	15,700	52.4	215.0	13,600	133
135	37.2	200.4	17,400	44.7	208.8	15,300	51.2	213.5	13,200	135
140	33.1	193.3	16,500	41.2	203.4	14,500	48.0	209.2	12,500	140
142	31.2	189.9	16,200	39.7	201.0	14,200	46.7	207.3	12,200	142
145	28.4	184.9	15,700	37.5	197.3	13,700	44.7	204.4	11,800	145
148	25.1	178.6	15,200	35.0	193.1	13,300	42.6	201.2	11,400	148
150	22.9	174.5	14,900	33.3	190.3	13,000	41.2	199.1	11,200	150
155	15.6	160.1	14,100	28.7	182.0	12,300	37.4	193.0	10,600	155
159	4.9	138.1	13,500	24.4	173.8	11,800	34.1	187.3	10,100	159
160				23.3	171.7	11,700	33.3	185.9	10,000	160
165				16.2	157.8	11,100	28.7	177.6	9,500	165
169				6.4	137.8	10,500	24.3	169.4	9,000	169
170							23.2	167.3	8,900	170
175							16.1	153.4	8,400	175
179							6.3	133.2	8,000	179

MLC200 S-1

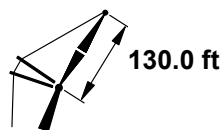
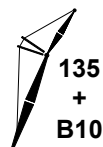
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
48	74.7	257.8	49,400 b						48	
50	73.8	257.2	49,000 b						50	
55	71.5	255.6	48,100						55	
60	69.2	253.9	47,200						60	
65	66.8	251.8	46,400	70.9	254.3	48,000			65	
70	64.4	249.6	45,600	68.5	252.4	47,200			70	
75	61.9	247.0	44,800	66.1	250.3	45,400			75	
78	60.4	245.3	44,100	64.7	248.9	43,200	67.8	250.7	40,700	78
80	59.4	244.2	43,700	63.7	248.0	41,800	66.8	249.9	39,400	80
85	56.8	241.1	41,600	61.2	245.4	38,600	64.4	247.6	36,400	85
90	54.1	237.7	38,700	58.7	242.5	35,800	62.0	245.1	33,700	90
95	51.3	233.9	36,000	56.1	239.3	33,400	59.4	242.3	31,400	95
99	49.0	230.5	34,200	53.9	236.5	31,700	57.3	239.8	29,800	99
100	48.5	229.6	33,700	53.4	235.8	31,200	56.8	239.2	29,400	100
105	45.4	225.0	31,600	50.6	231.8	29,300	54.2	235.7	27,500	105
110	42.3	219.8	29,700	47.7	227.5	27,500	51.4	231.9	25,800	110
115	38.9	213.9	28,000	44.6	222.7	25,900	48.5	227.7	24,300	115
119	35.9	208.6	26,800	42.0	218.4	24,700	46.1	224.0	23,200	119
120	35.2	207.3	26,500	41.4	217.3	24,500	45.5	223.1	22,900	120
125	31.2	199.6	25,000	37.9	211.3	23,100	42.3	217.9	21,700	125
130	26.6	190.6	23,700	34.2	204.4	21,900	38.9	212.0	20,500	130
135	21.2	179.3	22,500	30.0	196.5	20,800	35.3	205.4	19,400	135
138	16.8	169.8	21,800	27.2	190.7	20,100	32.9	200.8	18,800	138
140	13.8	163.4	21,300	25.3	186.9	19,700	31.3	197.8	18,400	140
143	6.2	146.5	20,700	21.8	179.6	19,100	28.5	192.4	17,900	143
145				19.5	174.7	18,700	26.7	188.8	17,500	145
150				11.1	156.4	17,700	21.3	177.5	16,600	150
152				4.6	141.9	17,300	18.4	171.2	16,300	152
155							14.0	161.8	15,800	155
158							6.6	145.3	15,300	158
160										160
165										165
169										169
170										170
175										175
179										179
180										180
185										185
189										189

MLC200 S-1

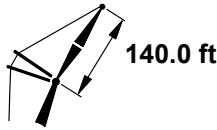
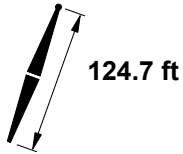
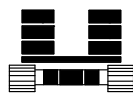
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
48										48
50										50
55										55
60										60
65										65
70										70
75										75
78										78
80										80
85										85
90										90
95										95
99	62.7	243.4	26,600							99
100	62.2	242.8	26,300							100
105	59.7	240.1	24,600							105
110	57.1	237.0	23,100							110
115	54.5	233.6	21,700							115
119	52.3	230.6	20,700	57.8	234.4	18,200				119
120	51.7	229.8	20,400	57.3	233.7	18,000				120
125	48.8	225.7	19,300	54.6	230.4	16,900				125
130	45.8	221.1	18,200	51.9	226.6	16,000				130
135	42.7	215.9	17,200	49.0	222.5	15,100				135
138	40.7	212.5	16,700	47.2	219.8	14,600	53.0	223.8	12,500	138
140	39.3	210.2	16,300	46.0	217.9	14,300	51.9	222.3	12,300	140
143	37.2	206.3	15,800	44.2	214.9	13,800	50.2	219.8	11,800	143
145	35.7	203.7	15,500	42.9	212.8	13,500	49.0	218.1	11,600	145
150	31.7	196.2	14,700	39.5	207.1	12,800	46.0	213.6	10,900	150
152	29.9	192.7	14,400	38.1	204.5	12,500	44.8	211.5	10,700	152
155	27.3	187.4	14,000	35.9	200.7	12,100	42.9	208.5	10,300	155
158	24.1	180.8	13,500	33.6	196.2	11,800	40.9	205.0	10,000	158
160	22.0	176.4	13,300	32.0	193.2	11,500	39.5	202.7	9,800	160
165	15.0	161.5	12,600	27.6	184.5	10,900	35.9	196.3	9,300	165
169	4.7	138.5	12,000	23.4	175.9	10,500	32.8	190.3	8,900	169
170				22.3	173.8	10,300	32.0	188.9	8,800	170
175				15.5	159.2	9,800	27.5	180.1	8,300	175
179				6.2	138.3	9,300	23.3	171.5	7,900	179
180							22.3	169.3	7,800	180
185							15.5	154.7	7,400	185
189							6.1	133.7	7,000	189

MLC200 S-1

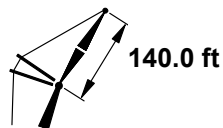
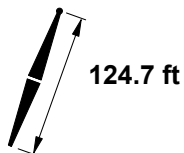
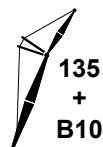
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
51	74.6	267.3	45,800 b						51	
55	72.9	266.1	45,100						55	
60	70.7	264.5	44,300						60	
65	68.5	262.6	43,500						65	
69	66.8	261.0	42,900	70.6	263.5	44,300			69	
70	66.3	260.6	42,700	70.1	263.1	44,200			70	
75	64.1	258.3	41,600	67.9	261.2	43,500			75	
80	61.8	255.7	40,000	65.7	259.1	41,500			80	
82	60.8	254.6	39,300	64.8	258.1	40,200	67.7	259.9	37,800	82
85	59.4	252.9	38,400	63.5	256.7	38,300	66.4	258.6	36,000	85
90	57.0	249.8	36,900	61.1	254.1	35,600	64.1	256.3	33,400	90
95	54.5	246.4	35,400	58.8	251.2	33,100	61.8	253.8	31,100	95
100	52.0	242.6	33,500	56.4	248.0	30,900	59.5	250.9	29,000	100
103	50.4	240.2	32,200	54.9	245.9	29,800	58.0	249.1	27,900	103
105	49.3	238.5	31,400	53.9	244.5	29,000	57.1	247.8	27,200	105
110	46.6	234.0	29,500	51.3	240.7	27,200	54.6	244.4	25,500	110
115	43.7	229.1	27,800	48.6	236.5	25,600	52.0	240.7	24,000	115
120	40.6	223.5	26,200	45.8	231.8	24,200	49.4	236.6	22,600	120
124	38.0	218.6	25,100	43.5	227.7	23,100	47.2	233.0	21,600	124
125	37.4	217.4	24,800	42.9	226.7	22,900	46.6	232.1	21,400	125
130	33.9	210.4	23,500	39.8	221.0	21,600	43.8	227.2	20,200	130
135	30.0	202.4	22,300	36.5	214.7	20,500	40.7	221.7	19,100	135
140	25.6	192.9	21,200	32.9	207.4	19,500	37.5	215.5	18,200	140
144	21.4	183.5	20,300	29.7	200.7	18,700	34.7	209.9	17,400	144
145	20.4	181.1	20,100	28.9	199.1	18,500	34.0	208.5	17,200	145
150	13.3	164.6	19,100	24.3	189.1	17,600	30.1	200.5	16,400	150
153	6.0	147.0	18,500	21.0	181.5	17,000	27.5	194.9	15,900	153
155				18.7	176.4	16,700	25.7	191.1	15,600	155
160				10.7	157.4	15,900	20.5	179.4	14,800	160
162				4.5	142.3	15,500	17.7	172.8	14,500	162
165							13.5	163.0	14,100	165
168							6.4	145.9	13,600	168
170										170
175										175
179										179
180										180
185										185
189										189
190										190
195										195
199										199

MLC200 S-1

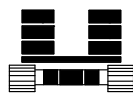
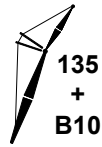
ASME B30.5



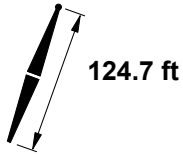
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
51										51
55										55
60										60
65										65
69										69
70										70
75										75
80										80
82										82
85										85
90										90
95										95
100										100
103	63.0	252.6	24,900							103
105	62.1	251.5	24,200							105
110	59.7	248.7	22,700							110
115	57.3	245.7	21,300							115
120	54.9	242.3	20,100							120
124	52.8	239.4	19,200	58.0	243.0	16,700				124
125	52.3	238.6	18,900	57.5	242.4	16,500				125
130	49.7	234.6	17,900	55.0	239.1	15,600				130
135	47.0	230.1	16,900	52.5	235.4	14,700				135
140	44.1	225.2	16,000	49.9	231.4	13,900				140
144	41.7	220.9	15,300	47.7	227.8	13,300	53.0	231.8	11,300	144
145	41.1	219.8	15,200	47.1	227.0	13,200	52.5	231.0	11,200	145
150	37.8	213.7	14,400	44.3	222.1	12,500	49.9	227.0	10,600	150
153	35.8	209.6	14,000	42.5	218.8	12,100	48.2	224.4	10,200	153
155	34.4	206.8	13,700	41.3	216.7	11,800	47.1	222.6	10,000	155
160	30.6	199.0	13,000	38.1	210.6	11,200	44.3	217.7	9,400	160
162	28.8	195.3	12,700	36.7	207.9	10,900	43.0	215.5	9,200	162
165	26.3	189.7	12,300	34.6	203.8	10,600	41.2	212.3	8,900	165
168	23.2	182.9	12,000	32.3	199.2	10,300	39.3	208.7	8,600	168
170	21.2	178.3	11,700	30.8	196.1	10,000	38.0	206.3	8,400	170
175	14.5	162.8	11,100	26.5	186.9	9,500	34.6	199.5	7,900	175
179	4.5	138.9	10,600	22.5	177.9	9,100	31.5	193.2	7,500	179
180				21.5	175.7	9,000	30.8	191.7	7,400	180
185				15.0	160.5	8,500	26.5	182.5	7,000	185
189				5.9	138.8	8,100	22.5	173.5	6,600	189
190							21.5	171.3	6,500	190
195							14.9	156.1	6,100	195
199							5.8	134.2	5,700	199

MLC200 S-1

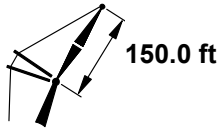
ASME B30.5



114,600 lb
+
0 lb



124.7 ft

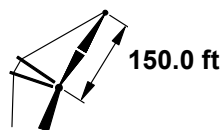


150.0 ft

	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
53	74.8	277.1	42,500							53
55	74.1	276.6	42,200							55
60	72.1	275.1	41,400							60
65	70.0	273.3	40,800							65
70	68.0	271.4	39,900							70
72	67.2	270.6	39,300	70.7	273.0	41,100				72
75	65.9	269.3	38,300	69.5	271.9	40,700				75
80	63.8	266.9	36,800	67.4	269.9	39,500				80
85	61.7	264.4	35,300	65.3	267.8	38,100				85
86	61.2	263.8	35,000	64.9	267.3	37,500	67.6	269.0	35,400	86
90	59.5	261.5	33,800	63.2	265.4	35,400	66.0	267.3	33,300	90
95	57.2	258.5	32,500	61.1	262.7	33,000	63.8	265.0	31,000	95
100	54.9	255.1	31,100	58.9	259.8	30,800	61.7	262.4	28,900	100
105	52.5	251.4	29,700	56.6	256.7	28,900	59.5	259.6	27,100	105
108	51.1	249.0	29,000	55.2	254.6	27,800	58.2	257.7	26,100	108
110	50.1	247.4	28,500	54.3	253.2	27,100	57.3	256.5	25,400	110
115	47.6	243.0	27,300	51.9	249.5	25,500	55.0	253.2	23,900	115
120	44.9	238.3	26,100	49.4	245.4	24,100	52.6	249.5	22,500	120
125	42.1	233.0	24,800	46.9	240.9	22,800	50.1	245.5	21,300	125
130	39.2	227.2	23,500	44.2	236.0	21,600	47.6	241.1	20,100	130
135	36.1	220.7	22,300	41.4	230.6	20,400	45.0	236.4	19,100	135
140	32.7	213.4	21,100	38.4	224.6	19,400	42.2	231.1	18,100	140
145	29.0	205.0	20,100	35.2	217.9	18,400	39.3	225.3	17,200	145
150	24.7	195.1	19,100	31.7	210.3	17,500	36.1	218.8	16,300	150
155	19.7	182.9	18,200	27.9	201.6	16,700	32.8	211.5	15,500	155
160	12.9	165.8	17,400	23.5	191.2	15,900	29.0	203.2	14,800	160
163	5.8	147.5	16,800	20.3	183.3	15,400	26.5	197.3	14,400	163
165				18.1	178.0	15,100	24.8	193.3	14,100	165
170				10.3	158.3	14,400	19.8	181.2	13,400	170
172				4.3	142.7	14,100	17.1	174.4	13,100	172
175							13.0	164.2	12,800	175
178							6.2	146.4	12,400	178
180										180
185										185
189										189
190										190
195										195
199										199
200										200
205										205

MLC200 S-1

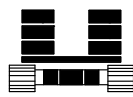
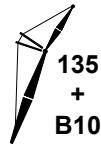
ASME B30.5



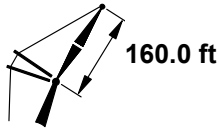
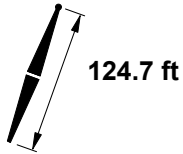
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
53										53
55										55
60										60
65										65
70										70
72										72
75										75
80										80
85										85
86										86
90										90
95										95
100										100
105										105
108	62.8	261.2	23,200							108
110	61.9	260.2	22,600							110
115	59.8	257.4	21,200							115
120	57.5	254.3	20,000							120
125	55.2	251.0	18,800							125
130	52.9	247.4	17,800	57.7	251.1	15,500				130
135	50.4	243.4	16,800	55.4	247.8	14,600				135
140	47.9	239.1	15,900	53.0	244.2	13,800				140
145	45.3	234.4	15,100	50.6	240.2	13,100				145
150	42.5	229.2	14,300	48.1	235.9	12,400	53.0	239.8	10,500	150
155	39.6	223.4	13,600	45.4	231.2	11,700	50.6	235.9	9,900	155
160	36.5	217.1	12,900	42.7	226.1	11,100	48.1	231.6	9,300	160
163	34.5	212.7	12,500	41.0	222.6	10,800	46.5	228.7	9,000	163
165	33.2	209.9	12,300	39.8	220.4	10,500	45.4	226.9	8,800	165
170	29.5	201.7	11,700	36.7	214.0	10,000	42.7	221.7	8,300	170
172	27.8	197.8	11,500	35.4	211.2	9,800	41.5	219.4	8,100	172
175	25.4	192.0	11,100	33.4	206.9	9,500	39.8	216.0	7,800	175
178	22.4	184.9	10,800	31.2	202.0	9,200	37.9	212.2	7,500	178
180	20.4	180.2	10,600	29.7	198.8	9,000	36.7	209.6	7,300	180
185	14.0	164.0	10,000	25.6	189.2	8,500	33.4	202.5	6,900	185
189	4.4	139.3	9,600	21.7	179.9	8,200	30.5	196.0	6,500	189
190				20.8	177.6	8,100	29.7	194.4	6,400	190
195				14.5	161.8	7,700	25.6	184.8	6,000	195
199				5.7	139.4	7,300	21.7	175.5	5,700	199
200							20.8	173.1	5,600	200
205							14.4	157.4	5,200	205

MLC200 S-1

ASME B30.5



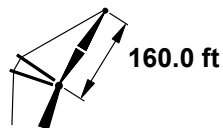
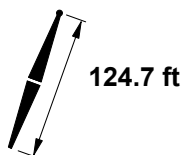
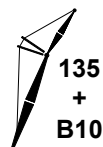
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
56	74.7	286.7	39,200							56
60	73.2	285.5	38,600							60
65	71.3	283.9	37,900							65
70	69.4	282.1	36,500							70
75	67.5	280.2	35,000	70.8	282.6	37,500				75
80	65.6	278.0	33,500	68.9	280.7	36,100				80
85	63.6	275.6	32,100	67.0	278.7	34,700				85
89	62.0	273.5	30,900	65.4	276.9	33,600	67.9	278.6	33,500	89
90	61.6	273.0	30,700	65.0	276.5	33,300	67.5	278.2	33,000	90
95	59.5	270.2	29,300	63.0	274.0	31,800	65.6	276.0	30,700	95
100	57.4	267.1	28,000	61.0	271.4	30,500	63.6	273.7	28,600	100
105	55.2	263.8	26,700	58.9	268.5	28,600	61.6	271.1	26,800	105
110	53.0	260.2	25,500	56.8	265.3	26,900	59.5	268.3	25,100	110
113	51.7	257.8	24,800	55.5	263.3	25,900	58.3	266.4	24,200	113
115	50.8	256.3	24,300	54.7	261.9	25,300	57.4	265.2	23,600	115
120	48.4	252.0	23,200	52.4	258.2	23,800	55.3	261.9	22,200	120
125	46.0	247.4	22,100	50.1	254.2	22,500	53.1	258.3	21,000	125
130	43.4	242.3	21,000	47.8	249.9	21,300	50.8	254.3	19,800	130
135	40.7	236.8	20,000	45.3	245.1	20,200	48.4	250.1	18,800	135
140	37.9	230.7	19,100	42.7	240.0	19,100	46.0	245.5	17,800	140
145	34.9	223.9	18,200	40.0	234.3	18,200	43.5	240.4	16,900	145
150	31.6	216.3	17,300	37.1	228.0	17,300	40.8	234.9	16,000	150
155	28.0	207.5	16,500	34.1	221.0	16,400	38.0	228.8	15,300	155
157	26.4	203.4	16,200	32.7	217.9	16,100	36.8	226.1	15,000	157
160	23.9	197.3	15,800	30.7	213.1	15,700	35.0	222.0	14,500	160
165	19.1	184.6	15,200	27.0	204.0	14,900	31.7	214.4	13,800	165
170	12.5	166.9	14,300	22.7	193.3	14,200	28.1	205.7	13,200	170
173	5.6	148.0	13,800	19.6	185.1	13,800	25.7	199.6	12,800	173
175				17.5	179.6	13,600	24.0	195.5	12,500	175
180				10.0	159.2	12,900	19.2	182.9	11,900	180
182				4.2	143.1	12,600	16.5	175.8	11,700	182
185							12.6	165.3	11,400	185
188							6.0	146.9	11,000	188
190										190
195										195
199										199
200										200
205										205
209										209

MLC200 S-1

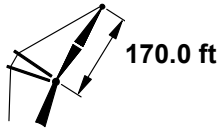
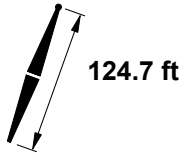
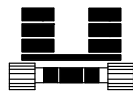
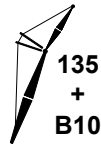
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
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
113	62.6	269.9	21,400							113
115	61.8	268.8	20,900							115
120	59.8	266.1	19,600							120
125	57.7	263.0	18,500							125
130	55.5	259.7	17,500							130
135	53.3	256.1	16,500	57.8	259.8	14,300				135
140	51.1	252.3	15,600	55.7	256.5	13,500				140
145	48.7	248.0	14,800	53.5	252.9	12,700				145
150	46.3	243.5	14,000	51.2	249.1	12,000				150
155	43.8	238.5	13,300	48.9	244.9	11,400				155
157	42.7	236.3	13,000	47.9	243.0	11,100	52.6	247.0	9,200	157
160	41.1	233.0	12,600	46.5	240.3	10,800	51.2	244.7	8,800	160
165	38.3	227.0	12,000	43.9	235.3	10,200	48.9	240.5	8,300	165
170	35.3	220.3	11,400	41.3	229.9	9,700	46.4	235.9	7,800	170
173	33.4	215.8	11,100	39.6	226.3	9,400	44.9	233.0	7,500	173
175	32.1	212.8	10,800	38.5	223.9	9,200	43.9	231.0	7,300	175
180	28.5	204.2	10,300	35.5	217.3	8,700	41.3	225.5	6,800	180
182	26.9	200.2	10,100	34.2	214.3	8,500	40.1	223.1	6,600	182
185	24.5	194.2	9,800	32.3	209.8	8,200	38.5	219.5	6,400	185
188	21.7	186.9	9,500	30.2	204.8	8,000	36.7	215.6	6,100	188
190	19.8	182.0	9,300	28.8	201.4	7,800	35.5	212.9	6,000	190
195	13.5	165.2	8,800	24.8	191.5	7,400	32.3	205.5	5,600	195
199	4.2	139.6	8,400	21.0	181.8	7,100	29.5	198.7	5,300	199
200				20.1	179.4	7,000	28.8	197.0	5,200	200
205				14.0	163.1	6,600				205
209				5.6	139.9	6,200				209

MLC200 S-1

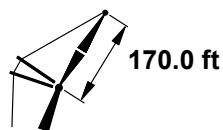
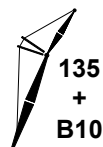
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
58	74.9	296.5	36,300							58
60	74.2	295.9	36,000							60
65	72.5	294.5	35,000							65
70	70.7	292.8	33,700							70
75	68.9	290.9	32,200							75
78	67.8	289.7	31,400	70.9	292.1	33,800				78
80	67.1	288.9	30,800	70.2	291.4	33,300				80
85	65.2	286.7	29,500	68.4	289.5	31,800				85
90	63.4	284.3	28,100	66.6	287.4	30,500				90
93	62.2	282.7	27,300	65.5	286.1	29,700	67.8	287.8	31,300	93
95	61.5	281.7	26,800	64.7	285.2	29,200	67.1	287.0	30,400	95
100	59.5	278.9	25,600	62.9	282.7	27,900	65.3	284.8	28,400	100
105	57.5	275.8	24,300	60.9	280.0	26,600	63.4	282.4	26,500	105
110	55.5	272.5	23,200	59.0	277.1	25,400	61.5	279.7	24,900	110
115	53.5	268.9	22,000	57.0	274.0	24,100	59.6	276.9	23,400	115
117	52.6	267.4	21,600	56.2	272.7	23,700	58.8	275.7	22,800	117
120	51.3	265.1	20,900	55.0	270.6	23,000	57.6	273.9	22,000	120
125	49.1	260.9	19,900	52.9	267.0	21,800	55.6	270.6	20,800	125
130	46.9	256.4	18,900	50.7	263.1	20,700	53.5	267.0	19,600	130
135	44.5	251.5	17,900	48.5	258.8	19,700	51.4	263.2	18,600	135
140	42.1	246.2	17,000	46.2	254.2	18,700	49.2	259.0	17,600	140
145	39.5	240.4	16,100	43.9	249.2	17,700	46.9	254.5	16,700	145
150	36.7	234.0	15,200	41.4	243.8	16,800	44.6	249.6	15,800	150
155	33.8	227.0	14,400	38.8	237.9	16,000	42.1	244.3	15,000	155
160	30.7	219.1	13,700	36.0	231.3	15,100	39.5	238.5	14,300	160
163	28.6	213.6	13,200	34.2	226.9	14,700	37.9	234.7	13,900	163
165	27.2	210.0	12,800	33.0	224.0	14,300	36.8	232.2	13,600	165
170	23.2	199.4	11,900	29.8	215.8	13,500	33.9	225.1	13,000	170
175	18.5	186.2	11,100	26.2	206.4	12,600	30.7	217.2	12,400	175
180	12.1	168.0	10,200	22.0	195.2	11,700	27.3	208.2	11,800	180
183	5.5	148.5	9,900	19.0	186.8	11,200	24.9	201.8	11,400	183
185				17.0	181.1	10,900	23.3	197.6	11,200	185
190				9.7	160.0	10,100	18.6	184.5	10,700	190
192				4.1	143.4	9,900	16.0	177.3	10,500	192
195							12.2	166.4	10,200	195
198							5.8	147.5	9,800	198
200										200
205										205
209										209
210										210
215										215
219										219

MLC200 S-1

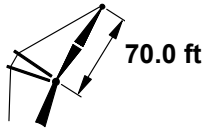
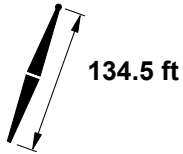
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
58										58
60										60
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
117	62.9	279.1	20,100							117
120	61.7	277.5	19,400							120
125	59.8	274.7	18,300							125
130	57.8	271.7	17,200							130
135	55.8	268.4	16,300							135
140	53.7	264.9	15,400	57.9	268.4	13,200				140
145	51.6	261.1	14,500	55.9	265.2	12,500				145
150	49.4	256.9	13,800	53.9	261.7	11,800				150
155	47.2	252.5	13,100	51.8	257.9	11,100				155
160	44.8	247.7	12,400	49.6	253.8	10,500				160
163	43.4	244.5	12,000	48.2	251.1	10,200	52.6	255.0	8,100	163
165	42.4	242.4	11,800	47.3	249.3	10,000	51.7	253.5	7,900	165
170	39.8	236.7	11,200	45.0	244.5	9,400	49.6	249.4	7,400	170
175	37.1	230.4	10,600	42.5	239.3	8,900	47.3	245.0	6,900	175
180	34.2	223.4	10,100	40.0	233.6	8,500	45.0	240.2	6,500	180
183	32.4	218.7	9,800	38.4	229.9	8,200	43.5	237.0	6,200	183
185	31.1	215.6	9,600	37.3	227.4	8,000	42.5	234.9	6,000	185
190	27.7	206.8	9,100	34.4	220.4	7,600	40.0	229.2	5,600	190
192	26.1	202.6	8,900	33.2	217.3	7,400	38.9	226.7	5,500	192
195	23.8	196.4	8,700	31.3	212.7	7,100	37.3	223.0	5,200	195
198	21.0	188.7	8,400	29.3	207.4	6,900				198
200	19.2	183.7	8,200	27.9	203.9	6,700				200
205	13.1	166.4	7,800	24.1	193.6	6,300				205
209	4.1	140.0	7,400	20.4	183.6	6,000				209
210				19.5	181.1	5,900				210
215				13.6	164.3	5,500				215
219				5.4	140.3	5,200				219

MLC200 S-1

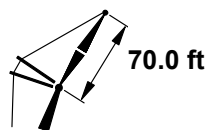
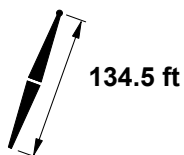
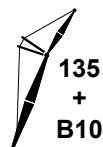
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
33	74.5	209.6	98,200 d						33	
35	72.8	209.0	98,100 d						35	
40	68.5	207.3	98,100 c						40	
45	64.0	205.1	96,100 b						45	
47	62.1	204.0	91,200 b	70.5	207.2	84,500 c			47	
50	59.3	202.4	83,700 b	67.9	206.0	77,900 c			50	
55	54.4	199.1	73,900	63.4	203.8	68,800 b			55	
57	52.4	197.5	70,800	61.5	202.7	65,900 b	67.8	204.9	62,000 c	57
60	49.2	195.2	66,100	58.7	201.0	61,500 b	65.1	203.6	58,100 c	60
65	43.6	190.4	59,700	53.8	197.7	55,500	60.5	201.0	52,400 b	65
70	37.3	184.6	54,300	48.5	193.6	50,500	55.7	197.9	47,700 b	70
74	31.3	178.5	50,600	43.9	189.7	47,100	51.6	194.9	44,400 b	74
75	29.9	177.0	49,700	42.8	188.8	46,300	50.6	194.1	43,600	75
80	20.2	166.3	45,700	36.4	182.7	42,600	45.1	189.6	40,200	80
84	5.2	148.5	42,800	30.3	176.4	40,000	40.2	185.2	37,700	84
85				28.7	174.9	39,400	39.0	184.1	37,100	85
90				18.5	163.4	36,500	31.9	177.0	34,500	90
91				14.9	159.1	35,900	30.1	175.1	34,000	91
93				7.7	150.5	34,800	26.6	171.3	33,000	93
95							23.0	167.4	32,100	95
100							7.3	149.0	29,800	100
105										105
107										107
110										110
111										111
115										115
120										120
123										123
125										125
130										130
133										133

MLC200 S-1

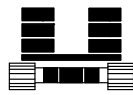
ASME B30.5



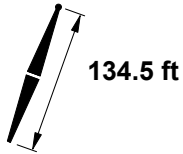
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
33										33
35										35
40										40
45										45
47										47
50										50
55										55
57										57
60										60
65										65
70										70
74	62.8	199.6	40,000 b							74
75	61.9	199.0	39,300 b							75
80	57.1	196.1	36,100 b							80
84	53.1	193.3	33,900 b							84
85	52.1	192.5	33,400							85
90	46.7	188.3	31,000							90
91	45.5	187.2	30,600	57.2	192.5	27,100 b				91
93	43.1	185.1	29,700	55.2	191.1	26,400 b				93
95	40.8	183.0	28,900	53.3	189.7	25,600				95
100	34.0	176.5	26,900	48.0	185.6	23,900				100
105	25.8	167.8	25,200	42.2	180.6	22,400				105
107	21.0	162.2	24,500	39.6	178.1	21,800	52.0	184.1	19,100	107
110	13.7	153.9	23,600	35.7	174.4	21,000	48.8	181.6	18,300	110
111	9.6	149.0	23,200	34.1	172.8	20,700	47.7	180.6	18,100	111
115				27.9	166.3	19,700	43.1	176.8	17,200	115
120				17.2	154.3	18,500	36.7	170.8	16,200	120
123				3.3	137.7	17,700	32.2	166.1	15,600	123
125							29.2	163.1	15,200	125
130							19.2	151.9	14,200	130
133							9.1	140.0	13,700	133

MLC200 S-1

ASME B30.5



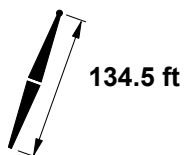
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
35	75.0	219.5	89,700 d							35
40	71.3	217.9	89,600 c							40
45	67.4	216.1	89,400 b							45
50	63.5	213.8	83,500 b	70.8	216.7	77,600 c				50
55	59.4	211.0	73,700	66.9	214.8	68,500 b				55
60	55.2	207.8	65,900	63.0	212.5	61,200 b				60
61	54.3	207.1	64,700	62.1	211.9	60,000 b	67.6	214.0	56,500 b	61
65	50.7	204.1	59,500	58.9	209.7	55,300	64.5	212.3	52,100 b	65
70	45.9	199.6	54,200	54.6	206.4	50,300	60.5	209.7	47,300 b	70
75	40.6	194.3	49,600	50.0	202.5	46,000	56.3	206.6	43,300	75
79	35.9	189.1	46,500	46.2	198.9	43,100	52.7	203.7	40,600	79
80	34.8	187.8	45,700	45.2	198.0	42,400	51.8	203.0	39,900	80
85	27.9	179.6	42,200	39.9	192.5	39,200	47.1	198.7	36,900	85
90	18.8	168.0	39,200	33.9	185.9	36,400	42.0	193.6	34,200	90
94	4.8	148.9	36,900	28.3	179.0	34,400	37.5	188.7	32,400	94
95				26.9	177.3	33,900	36.4	187.5	31,900	95
96				24.9	174.9	33,400	35.0	185.9	31,500	96
100				17.3	165.0	31,600	29.8	179.8	29,800	100
103				7.2	151.2	30,300	24.8	173.5	28,600	103
105							21.5	169.4	27,900	105
110							6.9	149.6	26,100	110
113										113
115										115
120										120
121										121
125										125
130										130
133										133
135										135
140										140
143										143

MLC200 S-1

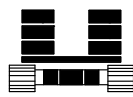
ASME B30.5



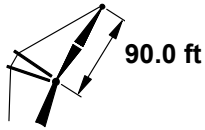
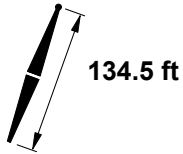
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
35										35
40										40
45										45
50										50
55										55
60										60
61										61
65										65
70										70
75										75
79	62.4	208.2	36,300 b							79
80	61.6	207.7	35,700 b							80
85	57.5	204.8	33,000							85
90	53.1	201.3	30,700							90
94	49.4	198.0	29,000							94
95	48.5	197.2	28,500							95
96	47.5	196.3	28,200	57.6	201.1	24,900				96
100	43.5	192.4	26,700	54.1	198.4	23,500				100
103	40.2	188.9	25,600	51.4	196.1	22,600				103
105	38.0	186.6	25,000	49.6	194.5	22,000				105
110	31.8	179.4	23,400	44.7	189.9	20,600				110
113	27.2	173.8	22,600	41.5	186.5	19,900	52.1	192.1	17,200	113
115	24.1	170.0	22,000	39.3	184.3	19,400	50.3	190.5	16,800	115
120	12.8	155.0	20,600	33.3	177.5	18,200	45.5	186.0	15,800	120
121	9.0	149.8	20,400	31.8	175.7	18,000	44.4	184.9	15,600	121
125				26.0	168.7	17,200	40.2	180.6	14,900	125
130				16.1	155.7	16,100	34.3	174.0	14,000	130
133				3.1	138.0	15,500	30.1	168.9	13,500	133
135							27.3	165.6	13,200	135
140							17.9	153.6	12,400	140
143							8.5	140.8	11,900	143

MLC200 S-1

ASME B30.5



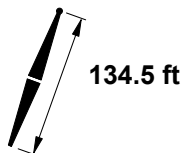
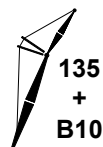
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
38	74.7	229.0	81,700 c							38
40	73.4	228.4	81,500 c							40
45	70.0	226.8	81,200 b							45
50	66.6	224.8	78,700 b							50
53	64.5	223.4	75,600 b	71.0	226.3	71,700 c				53
55	63.1	222.4	73,600	69.6	225.6	68,300 b				55
60	59.5	219.7	65,800	66.2	223.5	61,000 b				60
65	55.7	216.5	59,400	62.6	221.1	55,100	67.5	223.2	51,800 b	65
70	51.8	212.9	54,100	59.0	218.3	50,100	64.0	221.0	47,100 b	70
75	47.6	208.6	49,500	55.2	215.1	45,900	60.4	218.3	43,100	75
80	43.1	203.7	45,600	51.2	211.4	42,200	56.7	215.3	39,700	80
83	40.2	200.2	43,600	48.7	208.8	40,300	54.4	213.1	37,900	83
85	38.2	197.9	42,200	47.0	207.0	39,100	52.8	211.7	36,700	85
90	32.7	190.8	39,200	42.5	202.0	36,300	48.7	207.6	34,100	90
95	26.3	182.0	36,600	37.5	196.0	33,800	44.3	202.9	31,800	95
100	17.8	169.6	34,200	31.9	188.8	31,600	39.5	197.3	29,700	100
101	14.5	164.5	33,700	30.6	187.0	31,200	38.5	196.0	29,300	101
104	4.6	149.3	32,300	26.6	181.5	30,000	35.3	192.0	28,200	104
105				25.3	179.7	29,600	34.2	190.7	27,800	105
110				16.3	166.5	27,800	28.1	182.4	26,100	110
113				6.8	151.8	26,700	23.4	175.7	25,200	113
115							20.3	171.2	24,600	115
119							9.2	154.4	23,400	119
120							6.5	150.2	23,100	120
125										125
130										130
131										131
135										135
140										140
143										143
145										145
150										150
153										153

MLC200 S-1

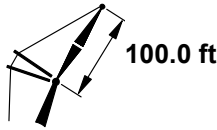
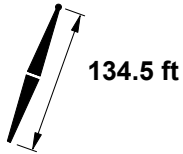
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
53										53
55										55
60										60
65										65
70										70
75										75
80										80
83	62.9	217.4	33,800							83
85	61.5	216.4	32,800							85
90	57.8	213.4	30,400							90
95	53.9	210.0	28,300							95
100	49.9	206.1	26,500							100
101	49.0	205.2	26,100	57.9	209.8	23,000				101
104	46.4	202.5	25,100	55.6	207.8	22,100				104
105	45.6	201.6	24,800	54.8	207.1	21,800				105
110	40.9	196.3	23,300	50.8	203.4	20,400				110
113	37.8	192.5	22,400	48.3	200.7	19,700				113
115	35.8	189.9	21,900	46.6	199.0	19,200				115
119	31.1	183.7	20,900	42.9	194.8	18,300	52.2	200.1	15,800	119
120	29.9	182.2	20,600	42.0	193.8	18,100	51.4	199.3	15,600	120
125	22.7	172.1	19,400	37.0	187.8	17,000	47.2	195.0	14,700	125
130	12.1	156.1	18,300	31.3	180.4	16,100	42.7	190.0	13,800	130
131	8.5	150.6	18,100	30.0	178.5	15,900	41.7	188.8	13,600	131
135				24.5	171.0	15,200	37.8	184.1	13,000	135
140				15.1	157.1	14,300	32.3	177.0	12,300	140
143				2.9	138.2	13,700	28.3	171.5	11,900	143
145							25.7	167.9	11,600	145
150							16.9	155.1	10,900	150
153							8.0	141.5	10,500	153

MLC200 S-1

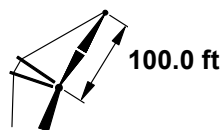
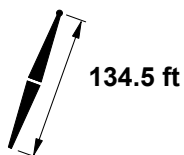
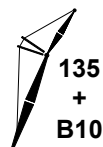
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
41	74.5	238.5	74,900 c							41
45	72.1	237.3	74,500 b							45
50	69.1	235.6	73,500 b							50
55	66.0	233.5	70,400							55
57	64.7	232.6	68,500	70.5	235.5	64,900 b				57
60	62.8	231.1	65,600	68.7	234.4	60,700 b				60
65	59.5	228.4	59,200	65.6	232.2	54,800				65
69	56.8	225.8	54,900	63.0	230.3	50,800	67.4	232.4	47,600 b	69
70	56.1	225.2	53,800	62.4	229.8	49,800	66.8	232.0	46,800 b	70
75	52.6	221.6	49,300	59.1	227.0	45,600	63.6	229.6	42,800	75
80	48.9	217.6	45,400	55.7	223.8	41,900	60.4	227.0	39,400	80
85	45.0	212.9	42,000	52.1	220.2	38,800	57.0	223.9	36,400	85
88	42.5	209.7	40,200	49.9	217.7	37,100	54.9	221.9	34,800	88
90	40.8	207.5	39,000	48.4	216.0	36,000	53.5	220.5	33,800	90
95	36.2	201.2	36,400	44.5	211.2	33,600	49.9	216.5	31,500	95
100	31.0	193.7	34,000	40.2	205.8	31,400	46.0	212.0	29,400	100
105	24.9	184.3	31,900	35.5	199.3	29,400	41.9	206.8	27,600	105
107	21.7	179.0	31,100	33.4	196.2	28,700	40.1	204.4	26,900	107
110	16.8	171.1	30,000	30.3	191.6	27,700	37.4	200.8	25,900	110
114	4.3	149.7	28,400	25.2	183.8	26,300	33.4	195.1	24,700	114
115				24.0	181.8	26,000	32.4	193.6	24,400	115
120				15.5	167.9	24,500	26.6	184.8	23,000	120
123				6.4	152.4	23,600	22.2	177.7	22,200	123
125							19.2	173.0	21,700	125
130							6.1	150.7	20,400	130
135										135
140										140
141										141
145										145
150										150
153										153
155										155
160										160
163										163

MLC200 S-1

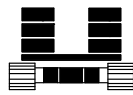
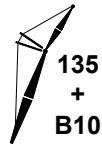
ASME B30.5



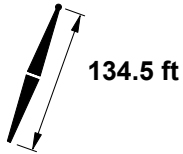
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
41										41
45										45
50										50
55										55
57										57
60										60
65										65
69										69
70										70
75										75
80										80
85										85
88	62.6	226.1	31,000							88
90	61.3	225.0	30,100							90
95	58.0	222.1	28,000							95
100	54.5	218.8	26,100							100
105	50.9	215.0	24,500							105
107	49.4	213.2	23,800	57.4	217.8	20,800				107
110	47.2	210.6	22,900	55.3	215.9	20,000				110
114	43.9	206.6	21,900	52.5	212.9	19,100				114
115	43.1	205.6	21,600	51.8	212.2	18,800				115
120	38.7	199.9	20,300	48.0	207.9	17,700				120
123	35.8	195.8	19,600	45.6	205.0	17,100				123
125	33.9	193.1	19,200	44.0	203.1	16,700	52.3	208.1	14,200	125
130	28.3	184.8	18,100	39.8	197.6	15,700	48.6	204.0	13,400	130
135	21.5	174.0	17,100	35.0	191.0	14,900	44.7	199.2	12,600	135
140	11.4	157.1	16,100	29.7	183.1	14,000	40.4	193.8	11,900	140
141	8.1	151.3	15,900	28.4	181.1	13,900	39.5	192.5	11,800	141
145				23.3	173.1	13,300	35.8	187.4	11,200	145
150				14.4	158.4	12,500	30.6	179.8	10,600	150
153				2.8	138.5	12,000	26.8	174.0	10,200	153
155							24.3	170.1	10,000	155
160							16.0	156.5	9,400	160
163							7.6	142.2	9,000	163

MLC200 S-1

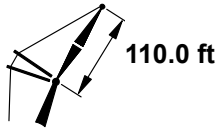
ASME B30.5



114,600 lb
+
0 lb



134.5 ft

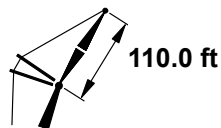
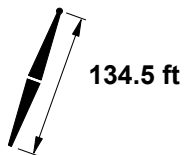
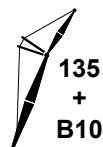


110.0 ft

	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
43	74.9	248.4	68,900 c							43
45	73.8	247.8	68,700 b							45
50	71.1	246.2	68,000 b							50
55	68.3	244.4	65,700							55
60	65.4	242.2	63,400	70.7	245.0	60,600 b				60
65	62.5	239.8	59,100	67.9	243.1	54,700				65
70	59.6	237.0	53,800	65.1	241.0	49,700				70
72	58.3	235.8	52,000	63.9	240.0	48,000	67.9	242.0	45,000	72
75	56.5	233.9	49,200	62.2	238.5	45,500	66.2	240.7	42,700	75
80	53.3	230.4	45,400	59.2	235.7	41,900	63.3	238.3	39,300	80
85	50.0	226.4	42,000	56.1	232.5	38,700	60.3	235.6	36,300	85
90	46.5	222.0	39,000	52.9	228.9	36,000	57.3	232.6	33,700	90
92	45.0	219.9	38,000	51.5	227.3	35,000	56.0	231.2	32,800	92
95	42.8	216.9	36,400	49.5	224.9	33,600	54.2	229.2	31,400	95
100	38.8	211.1	34,100	46.0	220.4	31,400	50.9	225.4	29,400	100
105	34.4	204.4	32,000	42.3	215.2	29,400	47.4	221.0	27,500	105
110	29.5	196.4	30,100	38.3	209.3	27,700	43.8	216.2	25,900	110
112	27.2	192.4	29,400	36.5	206.6	27,000	42.2	213.9	25,300	112
115	23.7	186.4	28,300	33.8	202.4	26,100	39.9	210.6	24,400	115
120	16.0	172.6	26,700	28.8	194.2	24,600	35.6	204.1	23,000	120
124	4.1	150.1	25,500	24.0	186.0	23,500	31.8	198.0	22,000	124
125				22.8	183.9	23,300	30.9	196.5	21,700	125
130				14.8	169.2	22,000	25.3	187.1	20,600	130
131				11.9	163.8	21,700	23.9	184.6	20,300	131
133				6.1	152.9	21,200	21.1	179.6	19,900	133
135							18.3	174.6	19,500	135
140							5.8	151.2	18,400	140
145										145
150										150
151										151
155										155
160										160
163										163
165										165
170										170
173										173

MLC200 S-1

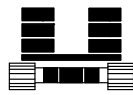
ASME B30.5



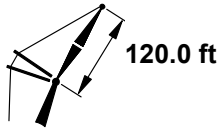
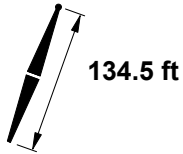
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
43										43
45										45
50										50
55										55
60										60
65										65
70										70
72										72
75										75
80										80
85										85
90										90
92	63.0	235.3	29,100							92
95	61.2	233.7	27,900							95
100	58.2	230.8	26,100							100
105	55.1	227.5	24,400							105
110	51.8	223.8	22,900							110
112	50.5	222.1	22,400	57.6	226.5	19,500				112
115	48.4	219.6	21,600	55.8	224.5	18,800				115
120	44.8	214.9	20,300	52.6	220.9	17,700				120
124	41.8	210.6	19,400	49.9	217.7	16,900				124
125	41.0	209.5	19,200	49.2	216.9	16,700				125
130	36.9	203.3	18,100	45.7	212.3	15,700				130
131	35.9	201.8	17,900	44.9	211.2	15,600	52.4	216.1	13,200	131
133	34.1	198.9	17,500	43.4	209.1	15,200	51.1	214.5	12,900	133
135	32.3	196.0	17,200	41.9	207.1	14,900	49.7	212.9	12,600	135
140	27.0	187.3	16,300	37.8	201.1	14,100	46.2	208.3	11,900	140
145	20.5	175.9	15,400	33.4	194.1	13,300	42.5	203.2	11,200	145
150	10.9	158.1	14,600	28.3	185.7	12,600	38.5	197.4	10,600	150
151	7.7	152.0	14,400	27.0	183.6	12,500	37.6	196.0	10,500	151
155				22.2	175.1	11,900	34.1	190.6	10,000	155
160				13.7	159.6	11,300	29.1	182.4	9,500	160
163				2.7	138.7	10,800	25.6	176.3	9,200	163
165							23.2	172.2	9,000	165
170							15.3	157.9	8,400	170
173							7.3	142.9	8,100	173

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ASME B30.5



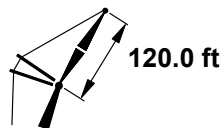
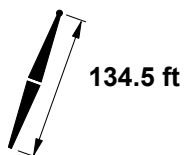
114,600 lb
+
0 lb



ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
46	74.7	257.9	52,200 b							46
50	72.7	256.7	51,400 b							50
55	70.2	255.1	50,400							55
60	67.6	253.1	49,400							60
63	66.0	251.8	48,800	70.8	254.6	50,900 b				63
65	65.0	250.9	48,500	69.8	253.8	50,600				65
70	62.3	248.5	47,600	67.3	251.9	49,400				70
75	59.6	245.7	46,800	64.7	249.7	45,200				75
76	59.0	245.1	46,500	64.1	249.1	44,500	67.8	251.1	41,600	76
80	56.8	242.6	45,100	62.0	247.1	41,600	65.7	249.4	39,000	80
85	53.9	239.1	41,700	59.2	244.3	38,500	63.0	247.0	36,000	85
90	50.9	235.3	38,800	56.4	241.2	35,700	60.3	244.3	33,400	90
95	47.7	231.0	36,200	53.5	237.7	33,300	57.5	241.3	31,100	95
97	46.4	229.1	35,200	52.3	236.1	32,400	56.4	239.9	30,300	97
100	44.4	226.2	33,800	50.5	233.8	31,100	54.7	237.9	29,100	100
105	40.9	220.7	31,700	47.3	229.4	29,200	51.7	234.2	27,200	105
110	37.1	214.6	29,900	44.0	224.5	27,400	48.6	230.0	25,600	110
115	32.9	207.4	28,100	40.4	219.0	25,800	45.3	225.3	24,100	115
117	31.1	204.0	27,500	38.9	216.5	25,200	43.9	223.2	23,500	117
120	28.2	199.0	26,600	36.6	212.7	24,400	41.8	220.1	22,700	120
125	22.7	188.5	25,100	32.4	205.4	23,000	38.1	214.1	21,500	125
130	15.4	174.0	23,800	27.6	196.7	21,800	34.1	207.2	20,300	130
134	3.9	150.4	22,700	23.0	188.0	20,900	30.4	200.8	19,500	134
135				21.9	185.9	20,700	29.5	199.2	19,200	135
137				18.8	179.7	20,200	27.4	195.2	18,800	137
140				14.1	170.5	19,600	24.2	189.3	18,200	140
143				5.8	153.4	18,900	20.2	181.4	17,700	143
145							17.5	176.2	17,300	145
150							5.6	151.7	16,400	150
155										155
160										160
161										161
165										165
170										170
173										173
175										175
180										180
183										183

MLC200 S-1

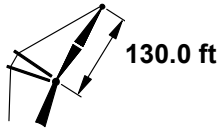
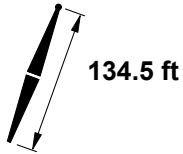
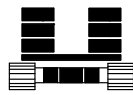
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
46										46
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	244.0	26,800							97
100	61.1	242.4	25,700							100
105	58.3	239.4	24,100							105
110	55.5	236.2	22,600							110
115	52.5	232.6	21,200							115
117	51.3	230.9	20,700	57.8	235.2	17,900				117
120	49.5	228.5	20,000	56.1	233.2	17,300				120
125	46.2	224.0	18,900	53.2	229.7	16,300				125
130	42.8	218.9	17,800	50.2	225.7	15,400				130
134	39.9	214.3	17,000	47.6	222.2	14,700				134
135	39.2	213.1	16,900	47.0	221.3	14,500				135
137	37.6	210.5	16,500	45.6	219.3	14,200	52.5	224.1	11,900	137
140	35.2	206.6	16,000	43.6	216.4	13,700	50.6	221.7	11,500	140
143	32.6	201.9	15,500	41.5	213.0	13,300	48.7	219.1	11,100	143
145	30.9	198.9	15,100	40.0	210.8	13,000	47.5	217.4	10,900	145
150	25.8	189.6	14,400	36.2	204.4	12,300	44.1	212.5	10,300	150
155	19.7	177.7	13,600	31.9	197.0	11,600	40.6	207.0	9,700	155
160	10.4	159.1	12,900	27.0	188.2	11,000	36.8	200.8	9,100	160
161	7.4	152.7	12,700	25.9	185.9	10,900	35.9	199.3	9,000	161
165				21.2	177.0	10,400	32.6	193.6	8,600	165
170				13.1	160.8	9,900	27.8	185.0	8,100	170
173				2.6	138.9	9,500	24.5	178.5	7,800	173
175							22.2	174.2	7,600	175
180							14.6	159.2	7,100	180
183							7.0	143.5	6,800	183

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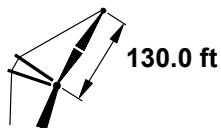
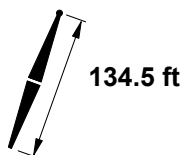
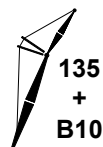
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
48	75.0	267.7	48,700 b							48
50	74.1	267.2	48,300 b							50
55	71.8	265.6	47,500							55
60	69.4	263.9	46,600							60
65	67.0	261.9	45,800							65
66	66.6	261.4	45,600	71.0	264.1	47,300				66
70	64.6	259.6	45,000	69.1	262.7	46,800				70
75	62.2	257.1	44,300	66.7	260.6	45,000				75
80	59.6	254.4	43,600	64.3	258.3	41,400	67.7	260.3	38,700	80
85	57.1	251.3	41,600	61.8	255.8	38,200	65.3	258.1	35,800	85
90	54.4	247.9	38,600	59.3	253.0	35,500	62.8	255.7	33,200	90
95	51.6	244.1	36,000	56.7	249.9	33,100	60.3	253.0	30,900	95
100	48.8	239.9	33,700	54.0	246.4	30,900	57.7	250.0	28,800	100
102	47.6	238.1	32,800	52.9	244.9	30,100	56.7	248.6	28,100	102
105	45.8	235.3	31,600	51.3	242.6	29,000	55.1	246.6	27,000	105
110	42.6	230.2	29,700	48.4	238.4	27,200	52.3	243.0	25,400	110
115	39.2	224.4	28,000	45.3	233.7	25,600	49.5	238.9	23,900	115
120	35.6	217.8	26,400	42.2	228.5	24,200	46.5	234.4	22,500	120
123	33.2	213.3	25,600	40.1	224.9	23,400	44.7	231.4	21,800	123
125	31.6	210.3	25,000	38.8	222.6	22,900	43.4	229.4	21,300	125
130	27.1	201.4	23,700	35.1	215.9	21,700	40.1	223.8	20,100	130
135	21.8	190.4	22,500	31.1	208.3	20,500	36.6	217.5	19,100	135
140	14.8	175.3	21,300	26.5	199.1	19,500	32.7	210.2	18,100	140
143	6.5	156.9	20,600	23.2	192.3	18,900	30.1	205.1	17,500	143
144	3.8	150.8	20,400	22.1	190.0	18,700	29.2	203.4	17,400	144
145				21.0	187.8	18,500	28.3	201.7	17,200	145
150				13.6	171.7	17,600	23.3	191.4	16,300	150
153				5.6	153.9	17,000	19.4	183.2	15,800	153
155							16.8	177.7	15,500	155
160							5.4	152.2	14,700	160
165										165
170										170
171										171
175										175
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183										183
185										185
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MLC200 S-1

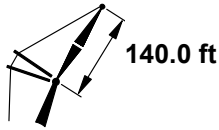
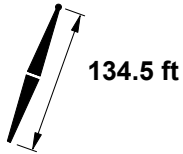
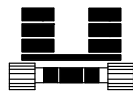
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
48										48
50										50
55										55
60										60
65										65
66										66
70										70
75										75
80										80
85										85
90										90
95										95
100										100
102	62.5	252.6	24,800							102
105	61.0	251.0	23,800							105
110	58.5	248.1	22,300							110
115	55.8	244.9	21,000							115
120	53.1	241.3	19,800							120
123	51.4	238.9	19,100	57.5	243.2	16,400				123
125	50.3	237.4	18,600	56.4	241.9	16,000				125
130	47.4	233.0	17,600	53.7	238.4	15,100				130
135	44.3	228.1	16,600	51.0	234.6	14,300				135
140	41.1	222.7	15,800	48.1	230.3	13,500				140
143	39.0	219.1	15,300	46.2	227.5	13,000	52.5	232.1	10,900	143
144	38.3	217.8	15,100	45.6	226.5	12,900	52.0	231.3	10,700	144
145	37.6	216.6	14,900	45.0	225.6	12,800	51.4	230.5	10,600	145
150	33.8	209.7	14,200	41.8	220.3	12,100	48.5	226.3	10,000	150
153	31.3	204.8	13,700	39.8	216.7	11,700	46.7	223.5	9,700	153
155	29.6	201.6	13,500	38.4	214.4	11,400	45.5	221.7	9,400	155
160	24.8	191.8	12,800	34.7	207.6	10,800	42.3	216.5	8,800	160
165	18.9	179.4	12,100	30.6	199.8	10,300	38.9	210.6	8,300	165
170	10.0	160.0	11,500	26.0	190.5	9,700	35.3	204.0	7,800	170
171	7.1	153.3	11,400	24.8	188.2	9,600	34.5	202.5	7,700	171
175				20.4	178.8	9,200	31.3	196.4	7,300	175
180				12.6	161.9	8,700	26.7	187.4	6,900	180
183				2.5	139.2	8,400	23.5	180.7	6,600	183
185							21.3	176.2	6,400	185
190							14.0	160.5	6,000	190
193							6.7	144.1	5,700	193

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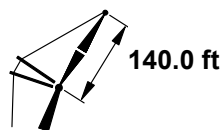
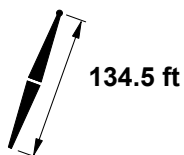
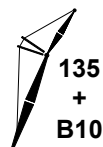
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
51	74.8	277.3	45,200 b						51	
55	73.1	276.1	44,500						55	
60	70.9	274.5	43,700						60	
65	68.8	272.7	43,000						65	
70	66.6	270.6	42,300	70.7	273.3	43,700			70	
75	64.3	268.3	41,500	68.5	271.4	43,100			75	
80	62.0	265.8	39,900	66.3	269.4	41,100			80	
84	60.1	263.6	38,700	64.5	267.5	38,600	67.6	269.5	36,000	84
85	59.7	263.0	38,400	64.0	267.0	37,900	67.1	269.0	35,400	85
90	57.3	259.9	36,900	61.7	264.5	35,200	64.9	266.8	32,800	90
95	54.8	256.6	35,500	59.4	261.6	32,800	62.6	264.3	30,600	95
100	52.3	252.9	33,400	56.9	258.5	30,600	60.3	261.6	28,500	100
105	49.6	248.8	31,300	54.5	255.1	28,700	57.9	258.6	26,700	105
106	49.1	247.9	31,000	53.9	254.4	28,300	57.4	258.0	26,400	106
110	46.9	244.4	29,500	51.9	251.4	26,900	55.4	255.3	25,100	110
115	44.0	239.4	27,800	49.3	247.3	25,400	52.9	251.7	23,600	115
120	41.0	234.0	26,200	46.5	242.8	23,900	50.3	247.8	22,200	120
125	37.7	227.9	24,800	43.6	237.8	22,600	47.6	243.4	21,000	125
128	35.6	223.7	24,000	41.8	234.4	21,900	45.9	240.5	20,300	128
130	34.3	221.0	23,500	40.6	232.2	21,400	44.8	238.6	19,800	130
135	30.4	213.1	22,300	37.3	226.0	20,300	41.8	233.3	18,800	135
140	26.1	203.8	21,100	33.8	219.0	19,200	38.6	227.4	17,800	140
145	21.0	192.3	20,100	29.9	211.0	18,300	35.2	220.7	16,900	145
149	15.6	179.7	19,300	26.4	203.4	17,500	32.2	214.6	16,200	149
150	14.2	176.6	19,100	25.5	201.5	17,400	31.5	213.1	16,100	150
154	3.7	151.1	18,300	21.3	192.0	16,700	28.1	206.0	15,400	154
155				20.2	189.6	16,500	27.3	204.2	15,300	155
160				13.1	172.9	15,700	22.4	193.4	14,500	160
163				5.4	154.4	15,200	18.7	184.9	14,100	163
165							16.2	179.2	13,800	165
170							5.2	152.7	13,100	170
175										175
180										180
181										181
185										185
190										190
193										193
195										195

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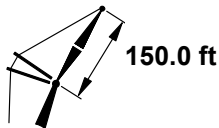
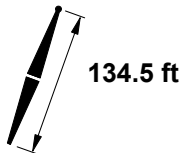
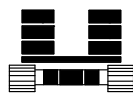
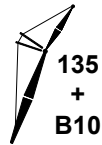
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
51										51
55										55
60										60
65										65
70										70
75										75
80										80
84										84
85										85
90										90
95										95
100										100
105										105
106	62.8	261.8	23,100							106
110	60.9	259.7	22,000							110
115	58.6	256.8	20,600							115
120	56.1	253.6	19,400							120
125	53.6	250.1	18,300							125
128	52.1	247.7	17,700	57.7	251.9	15,100				128
130	51.1	246.2	17,300	56.7	250.6	14,700				130
135	48.4	242.0	16,300	54.2	247.2	13,900				135
140	45.6	237.3	15,400	51.6	243.4	13,100				140
145	42.6	232.1	14,600	49.0	239.2	12,400				145
149	40.1	227.5	14,000	46.8	235.6	11,800	52.6	240.1	9,600	149
150	39.5	226.4	13,900	46.2	234.7	11,700	52.0	239.3	9,400	150
154	36.8	221.2	13,300	43.9	230.6	11,200	49.9	236.0	9,000	154
155	36.2	220.0	13,200	43.3	229.6	11,100	49.4	235.2	8,900	155
160	32.6	212.6	12,500	40.2	224.0	10,500	46.6	230.7	8,300	160
163	30.1	207.5	12,100	38.3	220.3	10,200	44.9	227.7	8,000	163
165	28.5	204.2	11,900	37.0	217.8	9,900	43.8	225.8	7,800	165
170	23.9	194.0	11,300	33.4	210.7	9,400	40.7	220.3	7,300	170
175	18.2	181.0	10,700	29.5	202.5	8,900	37.5	214.1	6,800	175
180	9.7	160.8	10,100	25.0	192.8	8,400	34.0	207.1	6,400	180
181	6.8	153.9	10,000	23.9	190.3	8,300	33.2	205.5	6,300	181
185				19.6	180.6	8,000	30.1	199.2	5,900	185
190				12.1	163.0	7,500	25.7	189.7	5,500	190
193				2.4	139.4	7,200	22.6	182.7	5,300	193
195							20.5	178.0	5,100	195

MLC200 S-1

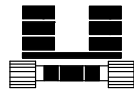
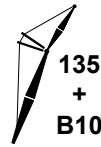
ASME B30.5



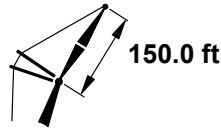
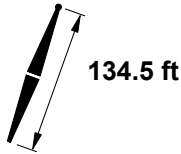
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
54	74.7	286.8	41,800							54
55	74.3	286.6	41,700							55
60	72.3	285.0	41,000							60
65	70.2	283.3	40,300							65
70	68.2	281.5	39,600							70
73	67.0	280.2	38,800	70.8	282.8	40,500				73
75	66.1	279.3	38,200	70.0	282.1	40,200				75
80	64.0	277.0	36,800	67.9	280.2	39,600				80
85	61.9	274.5	35,300	65.9	278.1	37,800				85
87	61.0	273.3	34,700	65.0	277.1	36,700	67.9	279.0	34,200	87
90	59.7	271.7	33,900	63.7	275.7	35,100	66.7	277.8	32,700	90
95	57.5	268.6	32,500	61.6	273.1	32,700	64.6	275.5	30,400	95
100	55.2	265.3	31,100	59.4	270.3	30,500	62.4	273.0	28,400	100
105	52.8	261.6	29,800	57.2	267.2	28,600	60.3	270.3	26,600	105
110	50.4	257.7	28,600	54.8	263.8	26,800	58.0	267.3	25,000	110
111	49.8	256.8	28,400	54.4	263.1	26,500	57.6	266.6	24,700	111
115	47.8	253.3	27,400	52.5	260.2	25,300	55.8	264.0	23,500	115
120	45.2	248.6	26,100	50.0	256.2	23,800	53.4	260.5	22,100	120
125	42.4	243.4	24,700	47.5	251.8	22,500	51.0	256.6	20,900	125
130	39.5	237.6	23,400	44.8	247.0	21,300	48.5	252.4	19,700	130
133	37.7	233.8	22,700	43.2	243.8	20,600	46.9	249.6	19,100	133
135	36.4	231.2	22,200	42.1	241.7	20,200	45.9	247.7	18,700	135
140	33.1	224.0	21,100	39.1	235.8	19,200	43.2	242.6	17,700	140
145	29.4	215.8	20,100	36.0	229.3	18,200	40.3	237.0	16,800	145
150	25.2	206.1	19,100	32.6	222.0	17,300	37.2	230.8	16,000	150
155	20.3	194.1	18,200	28.9	213.6	16,500	34.0	223.8	15,200	155
160	13.7	177.8	17,300	24.6	203.7	15,700	30.4	215.9	14,500	160
164	3.5	151.4	16,600	20.5	193.8	15,100	27.1	208.5	13,900	164
165				19.5	191.3	15,000	26.3	206.6	13,800	165
170				12.6	174.0	14,200	21.6	195.4	13,100	170
173				5.2	154.9	13,800	18.1	186.5	12,700	173
175							15.7	180.6	12,500	175
180							5.0	153.1	11,800	180
185										185
190										190
191										191
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203										203

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ASME B30.5



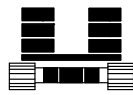
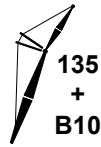
114,600 lb
+
0 lb



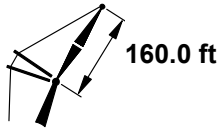
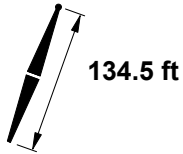
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
54										54
55										55
60										60
65										65
70										70
73										73
75										75
80										80
85										85
87										87
90										90
95										95
100										100
105										105
110										110
111	62.6	270.5	21,600							111
115	60.9	268.4	20,500							115
120	58.7	265.4	19,300							120
125	56.4	262.3	18,200							125
130	54.1	258.8	17,200							130
133	52.6	256.5	16,600	57.8	260.6	14,100				133
135	51.7	255.0	16,200	56.9	259.3	13,800				135
140	49.2	250.9	15,400	54.6	255.9	13,000				140
145	46.6	246.4	14,500	52.2	252.2	12,300				145
150	43.9	241.4	13,800	49.8	248.1	11,600				150
155	41.1	235.9	13,100	47.2	243.7	11,000	52.6	248.1	8,700	155
160	38.1	229.9	12,400	44.6	238.8	10,400	50.2	244.1	8,100	160
164	35.6	224.5	11,900	42.3	234.6	10,000	48.1	240.6	7,700	164
165	34.9	223.2	11,800	41.8	233.5	9,900	47.6	239.7	7,600	165
170	31.4	215.5	11,200	38.8	227.6	9,300	45.0	234.9	7,100	170
173	29.1	210.2	10,900	36.9	223.7	9,100	43.3	231.8	6,900	173
175	27.5	206.7	10,700	35.7	221.0	8,900	42.2	229.7	6,700	175
180	23.1	196.1	10,100	32.2	213.6	8,400	39.3	223.9	6,200	180
185	17.6	182.6	9,600	28.5	205.1	8,000	36.2	217.4	5,800	185
190	9.3	161.6	9,100	24.1	195.0	7,500	32.8	210.1	5,400	190
191	6.6	154.5	9,000	23.1	192.4	7,400	32.0	208.5	5,400	191
195				18.9	182.3	7,100	29.1	201.8	5,000	195
200				11.7	164.0	6,600				200
203				2.3	139.6	6,300				203

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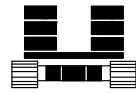
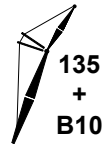
114,600 lb
+
0 lb



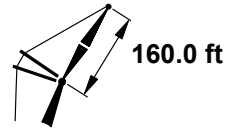
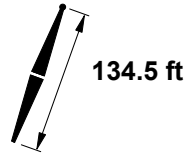
ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
56	74.9	296.6	38,700							56
60	73.4	295.5	38,100							60
65	71.5	293.9	37,500							65
70	69.6	292.2	36,400							70
75	67.7	290.2	34,900							75
76	67.3	289.8	34,600	70.9	292.4	37,200				76
80	65.8	288.1	33,500	69.4	290.9	36,200				80
85	63.8	285.7	32,100	67.4	289.0	34,800				85
90	61.8	283.1	30,700	65.5	286.8	33,400				90
91	61.3	282.6	30,400	65.1	286.3	33,100	67.8	288.2	31,900	91
95	59.7	280.3	29,400	63.5	284.4	32,000	66.3	286.5	30,100	95
100	57.6	277.3	28,100	61.5	281.8	30,200	64.3	284.2	28,100	100
105	55.5	274.0	26,800	59.4	279.0	28,300	62.3	281.7	26,300	105
110	53.3	270.4	25,600	57.3	275.9	26,600	60.2	278.9	24,600	110
115	51.0	266.5	24,400	55.2	272.5	25,000	58.2	276.0	23,200	115
120	48.6	262.3	23,300	53.0	268.9	23,600	56.0	272.7	21,800	120
125	46.2	257.7	22,200	50.7	265.0	22,200	53.8	269.2	20,600	125
130	43.7	252.7	21,100	48.3	260.7	21,000	51.6	265.4	19,400	130
135	41.0	247.2	20,100	45.9	256.1	19,900	49.3	261.3	18,400	135
138	39.3	243.6	19,600	44.4	253.0	19,300	47.8	258.6	17,800	138
140	38.2	241.2	19,200	43.3	251.0	18,900	46.9	256.8	17,400	140
145	35.2	234.5	18,300	40.7	245.5	18,000	44.3	251.9	16,500	145
150	32.0	226.9	17,400	37.8	239.3	17,100	41.7	246.5	15,700	150
155	28.4	218.3	16,700	34.8	232.5	16,200	39.0	240.6	14,900	155
160	24.4	208.3	15,900	31.5	224.9	15,500	36.0	234.1	14,200	160
165	19.6	195.9	15,300	27.9	216.1	14,700	32.8	226.8	13,500	165
170	13.3	179.0	14,400	23.8	205.8	14,000	29.4	218.5	12,900	170
174	3.4	151.7	13,800	19.9	195.6	13,500	26.3	210.8	12,400	174
175				18.9	193.0	13,400	25.5	208.9	12,300	175
180				12.2	175.1	12,700	20.9	197.2	11,700	180
183				5.1	155.3	12,300	17.5	188.0	11,300	183
185							15.2	181.9	11,100	185
190							4.8	153.6	10,500	190
195										195
200										200
201										201
205										205
210										210
213										213

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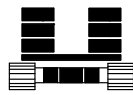
114,600 lb
+
0 lb



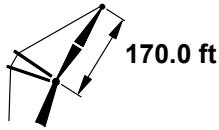
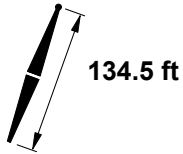
	75°			70°			
	ft	ft	lb	ft	ft	lb	
56							56
60							60
65							65
70							70
75							75
76							76
80							80
85							85
90							90
91							91
95							95
100							100
105							105
110							110
115	62.9	279.7	20,200				115
120	60.8	277.0	18,900				120
125	58.8	274.1	17,800				125
130	56.6	270.9	16,800				130
135	54.5	267.5	15,900				135
138	53.1	265.3	15,400	58.0	269.2	12,900	138
140	52.2	263.8	15,000	57.1	268.0	12,600	140
145	49.9	259.7	14,200	55.0	264.6	11,900	145
150	47.5	255.4	13,500	52.7	260.9	11,300	150
155	45.1	250.6	12,800	50.5	257.0	10,600	155
160	42.5	245.4	12,100	48.1	252.7	10,100	160
165	39.8	239.6	11,500	45.6	248.0	9,500	165
170	36.9	233.3	10,900	43.1	242.9	9,000	170
174	34.4	227.7	10,500	40.9	238.4	8,600	174
175	33.8	226.2	10,400	40.4	237.3	8,500	175
180	30.4	218.3	9,900	37.5	231.1	8,000	180
183	28.1	212.7	9,600	35.7	226.9	7,700	183
185	26.6	209.1	9,400	34.5	224.2	7,500	185
190	22.3	198.1	8,900	31.2	216.5	7,100	190
195	17.0	184.1	8,400	27.5	207.6	6,700	195
200	9.0	162.4	8,000	23.4	197.1	6,200	200
201	6.4	155.1	7,900	22.4	194.4	6,200	201
205				18.3	183.9	5,800	205
210				11.3	165.0	5,400	210
213				2.2	139.8	5,100	213

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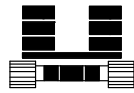
114,600 lb
+
0 lb



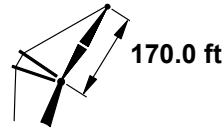
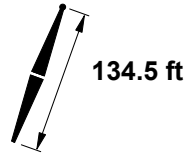
	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
59	74.8	306.2	35,700						59	
60	74.4	305.9	35,500						60	
65	72.6	304.4	34,900						65	
70	70.9	302.8	33,500						70	
75	69.1	301.0	32,200						75	
79	67.6	299.4	31,100	71.0	301.9	33,500			79	
80	67.3	299.0	30,800	70.6	301.6	33,300			80	
85	65.4	296.8	29,500	68.8	299.7	32,000			85	
90	63.6	294.4	28,100	67.0	297.7	30,600			90	
95	61.7	291.8	26,800	65.2	295.5	29,400	67.7	297.4	29,900	95
100	59.7	289.0	25,600	63.3	293.1	28,000	65.9	295.2	27,800	100
105	57.8	286.0	24,400	61.4	290.5	26,800	64.0	292.9	26,000	105
110	55.7	282.7	23,200	59.5	287.6	25,600	62.2	290.4	24,400	110
115	53.7	279.1	22,100	57.5	284.6	24,400	60.2	287.6	22,900	115
120	51.6	275.3	21,000	55.5	281.3	23,200	58.3	284.6	21,600	120
125	49.4	271.2	19,900	53.4	277.7	22,000	56.3	281.4	20,300	125
130	47.1	266.7	19,000	51.3	273.8	20,800	54.2	277.9	19,200	130
135	44.8	261.9	18,000	49.1	269.6	19,700	52.1	274.2	18,200	135
140	42.3	256.6	17,100	46.8	265.1	18,700	49.9	270.1	17,200	140
144	40.3	252.0	16,400	44.9	261.2	17,900	48.1	266.6	16,500	144
145	39.7	250.9	16,200	44.4	260.2	17,700	47.7	265.8	16,300	145
150	37.0	244.6	15,300	42.0	254.9	16,900	45.4	261.0	15,500	150
155	34.1	237.6	14,500	39.4	249.1	16,000	43.0	255.9	14,700	155
160	31.0	229.7	13,800	36.7	242.7	15,300	40.4	250.3	14,000	160
165	27.6	220.8	12,900	33.7	235.6	14,500	37.7	244.1	13,300	165
170	23.7	210.4	12,000	30.6	227.7	13,800	34.9	237.3	12,700	170
175	19.0	197.6	11,200	27.1	218.6	12,800	31.8	229.7	12,100	175
180	12.9	180.1	10,400	23.1	207.9	11,900	28.5	221.1	11,500	180
184	3.3	152.0	9,900	19.3	197.3	11,300	25.5	213.1	11,100	184
185				18.3	194.7	11,100	24.7	211.1	10,900	185
190				11.9	176.1	10,300	20.3	199.1	10,400	190
193				4.9	155.8	10,000	17.0	189.6	10,100	193
195							14.7	183.2	9,900	195
200							4.7	154.0	9,400	200
205										205
210										210
211										211

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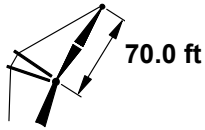
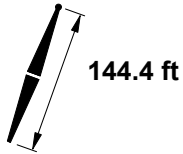
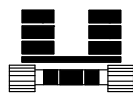
114,600 lb
+
0 lb



ft	75°			70°			ft
	ft	ft	lb	ft	ft	lb	
59							59
60							60
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	62.7	288.4	18,700				120
125	60.8	285.7	17,600				125
130	58.8	282.8	16,600				130
135	56.8	279.6	15,600				135
140	54.8	276.2	14,800				140
144	53.1	273.3	14,100	57.7	277.3	11,800	144
145	52.7	272.6	14,000	57.3	276.6	11,700	145
150	50.6	268.6	13,200	55.3	273.3	11,000	150
155	48.3	264.3	12,500	53.2	269.7	10,400	155
160	46.0	259.7	11,900	51.0	265.8	9,800	160
165	43.7	254.7	11,300	48.8	261.6	9,200	165
170	41.2	249.2	10,700	46.6	257.0	8,700	170
175	38.5	243.2	10,200	44.2	252.1	8,200	175
180	35.7	236.6	9,600	41.7	246.7	7,700	180
184	33.3	230.7	9,300	39.6	242.0	7,300	184
185	32.7	229.2	9,200	39.1	240.9	7,200	185
190	29.5	220.9	8,700	36.4	234.4	6,800	190
193	27.3	215.2	8,400	34.6	230.1	6,500	193
195	25.8	211.4	8,300	33.4	227.3	6,300	195
200	21.6	200.0	7,800	30.2	219.2	5,900	200
205	16.5	185.6	7,400	26.7	210.0	5,500	205
210	8.8	163.2	7,000	22.7	199.1	5,200	210
211	6.2	155.6	6,900				211

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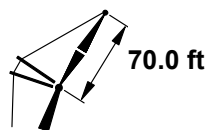
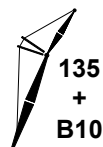
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
33	74.9	219.6	95,000 d							33
35	73.2	219.0	95,000 d							35
40	68.9	217.3	95,000 c							40
45	64.4	215.2	94,600 c							45
48	61.7	213.6	87,900 c	70.7	217.0	81,300 c				48
50	59.8	212.5	83,300 b	68.9	216.3	77,100 c				50
55	55.0	209.3	73,700 b	64.5	214.1	68,100 c				55
59	50.8	206.2	67,400 b	60.8	212.0	62,300 c	67.6	214.4	58,400 c	59
60	49.8	205.5	65,900	59.8	211.5	60,900 b	66.7	214.0	57,200 c	60
65	44.2	200.8	59,500	55.0	208.3	55,000 b	62.1	211.6	51,600 b	65
70	38.0	195.1	54,100	49.8	204.4	50,000	57.4	208.7	46,900 b	70
75	30.7	187.7	49,500	44.2	199.8	45,800	52.4	205.2	43,000	75
77	26.9	183.6	47,900	41.7	197.5	44,300	50.2	203.5	41,600	77
80	21.3	177.5	45,500	38.0	194.1	42,100	47.0	201.0	39,500	80
84	8.7	162.6	42,600	32.2	188.2	39,600	42.3	196.8	37,200	84
85				30.7	186.7	39,000	41.1	195.8	36,600	85
90				21.4	176.5	36,100	34.5	189.3	33,900	90
94				8.8	161.7	34,000	28.0	182.5	32,000	94
95							26.4	180.8	31,600	95
100							14.7	167.5	29,400	100
102							5.1	156.0	28,500	102
105										105
110										110
111										111
114										114
115										115
120										120
125										125
126										126
130										130
135										135
138										138

MLC200 S-1

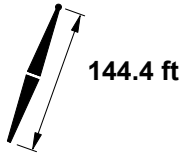
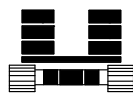
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
33										33
35										35
40										40
45										45
48										48
50										50
55										55
59										59
60										60
65										65
70										70
75										75
77	62.4	208.8	37,000 b							77
80	59.6	207.2	35,200 b							80
84	55.7	204.6	33,100 b							84
85	54.7	203.9	32,500 b							85
90	49.5	200.1	30,200							90
94	45.0	196.3	28,500	57.6	202.0	25,000 b				94
95	43.9	195.3	28,100	56.6	201.3	24,600 b				95
100	37.6	189.5	26,200	51.6	197.7	23,000				100
102	34.7	186.5	25,600	49.4	195.9	22,400				102
105	30.3	182.1	24,500	46.1	193.3	21,500				105
110	20.7	171.6	23,000	40.1	188.0	20,100				110
111	17.3	167.6	22,700	38.8	186.6	19,900	52.2	193.1	17,000	111
114	7.1	155.5	21,700	34.7	182.6	19,100	48.9	190.6	16,400	114
115				33.3	181.3	18,900	47.9	189.8	16,200	115
120				24.9	172.3	17,700	42.1	184.8	15,200	120
125				11.8	157.2	16,600	35.6	178.5	14,300	125
126				6.8	151.1	16,400	34.0	176.9	14,100	126
130							27.7	170.4	13,400	130
135							17.0	158.3	12,600	135
138							2.1	140.4	12,000	138

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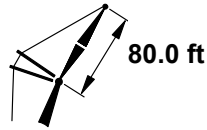
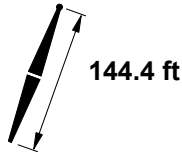
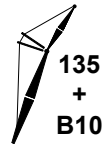
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
36	74.6	229.2	87,000 d						36	
40	71.6	227.9	86,900 c						40	
45	67.8	226.1	86,700 c						45	
50	63.9	223.9	83,100 b						50	
51	63.1	223.3	81,200 b	70.9	226.6	74,800 c			51	
55	59.8	221.2	73,400 b	67.8	225.1	67,800 c			55	
60	55.6	218.0	65,700	63.9	222.8	60,600 b			60	
63	52.9	215.8	61,800	61.5	221.2	57,000 b	67.4	223.6	53,300 c	
65	51.1	214.3	59,300	59.9	220.2	54,700 b	65.9	222.7	51,200 b	
70	46.4	209.9	53,900	55.6	217.0	49,700	61.9	220.3	46,600 b	
75	41.2	204.7	49,400	51.2	213.3	45,500	57.7	217.4	42,600	
80	35.4	198.4	45,500	46.4	208.9	41,900	53.4	214.0	39,200	
81	34.1	196.8	44,800	45.4	207.9	41,300	52.5	213.1	38,600	
85	28.7	190.4	42,100	41.2	203.7	38,800	48.8	209.9	36,300	
90	20.0	179.3	39,000	35.4	197.4	36,000	43.8	205.1	33,700	
94	8.1	163.3	36,800	30.0	191.0	34,000	39.5	200.5	31,800	
95				28.7	189.4	33,500	38.4	199.4	31,400	
99				21.7	180.5	31,800	33.4	193.7	29,700	
100				20.0	178.3	31,300	32.2	192.3	29,300	
104				8.2	162.4	29,600	26.1	184.9	27,800	
105							24.6	183.1	27,400	
110							13.7	168.7	25,700	
112							4.8	156.4	25,000	
115									115	
117									117	
120									120	
124									124	
125									125	
130									130	
135									135	
136									136	
140									140	
145									145	
148									148	

MLC200 S-1

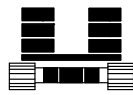
ASME B30.5



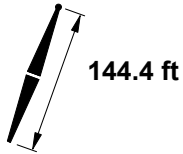
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
40										40
45										45
50										50
51										51
55										55
60										60
63										63
65										65
70										70
75										75
80										80
81	62.9	218.0	34,200 b							81
85	59.6	215.8	32,100 b							85
90	55.4	212.7	29,800							90
94	51.8	209.7	28,200							94
95	50.9	208.9	27,800							95
99	47.1	205.4	26,300	57.9	210.6	22,900				99
100	46.1	204.5	25,900	57.1	210.0	22,600				100
104	41.9	200.3	24,600	53.5	207.2	21,400				104
105	40.9	199.2	24,300	52.7	206.5	21,100				105
110	35.1	192.8	22,800	48.0	202.3	19,800				110
112	32.4	189.6	22,200	46.0	200.3	19,300				112
115	28.3	184.7	21,400	43.0	197.4	18,600				115
117	24.7	180.2	20,900	40.8	195.0	18,100	52.3	201.1	15,400	117
120	19.4	173.4	20,100	37.4	191.5	17,400	49.5	198.7	14,800	120
124	6.6	156.0	19,100	32.4	185.6	16,600	45.6	195.0	14,100	124
125				31.1	184.2	16,400	44.6	194.0	13,900	125
130				23.2	174.4	15,500	39.3	188.5	13,100	130
135				11.1	158.2	14,500	33.2	181.6	12,300	135
136				6.3	151.6	14,300	31.7	179.9	12,200	136
140							25.9	172.8	11,600	140
145							15.9	159.7	10,900	145
148							1.9	140.5	10,400	148

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ASME B30.5



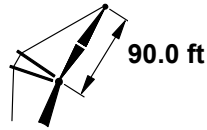
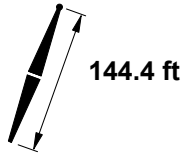
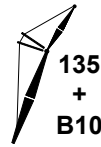
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
39	74.4	238.7	79,300 c							39
40	73.7	238.4	79,300 c							40
45	70.4	236.8	79,000 c							45
50	67.0	234.8	78,200 b							50
55	63.5	232.5	73,300 b	70.4	235.8	67,600 c				55
60	59.9	229.8	65,500	67.0	233.8	60,400 b				60
65	56.1	226.7	59,200	63.5	231.5	54,500 b				65
66	55.3	226.0	58,100	62.8	231.0	53,500 b	68.0	233.2	50,000 b	66
70	52.2	223.1	53,800	59.9	228.8	49,600	65.2	231.5	46,400 b	70
75	48.0	218.9	49,300	56.1	225.7	45,400	61.7	229.0	42,400	75
80	43.6	214.1	45,400	52.2	222.1	41,800	58.0	226.1	39,000	80
85	38.7	208.3	42,000	48.0	217.9	38,600	54.1	222.7	36,100	85
86	37.7	207.0	41,400	47.2	216.9	38,100	53.3	221.9	35,600	86
90	33.3	201.5	39,100	43.6	213.0	35,900	50.1	218.8	33,500	90
95	27.0	192.9	36,400	38.8	207.3	33,500	45.8	214.3	31,200	95
100	18.8	181.0	34,000	33.4	200.5	31,300	41.2	209.0	29,200	100
104	7.6	164.0	32,200	28.3	193.6	29,700	37.1	204.0	27,700	104
105				27.0	191.9	29,300	36.1	202.8	27,400	105
110				18.8	180.0	27,500	30.3	195.1	25,700	110
114				7.8	163.1	26,100	24.6	187.2	24,500	114
115							23.2	185.2	24,200	115
120							12.9	169.9	22,700	120
122							4.5	156.8	22,100	122
123										123
125										125
130										130
134										134
135										135
140										140
145										145
146										146
150										150
155										155
158										158

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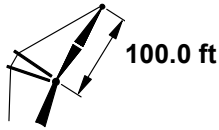
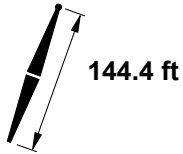
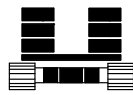
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb		
39										39
40										40
45										45
50										50
55										55
60										60
65										65
66										66
70										70
75										75
80										80
85										85
86	62.6	226.7	31,400							86
90	59.7	224.5	29,600							90
95	55.9	221.3	27,600							95
100	52.0	217.7	25,700							100
104	48.6	214.3	24,400							104
105	47.8	213.5	24,100	57.4	218.7	20,900				105
110	43.3	208.6	22,600	53.5	215.2	19,500				110
114	39.4	204.0	21,500	50.3	212.0	18,600				114
115	38.5	202.8	21,300	49.5	211.2	18,400				115
120	33.0	195.9	20,000	45.1	206.6	17,300				120
122	30.5	192.4	19,600	43.2	204.5	16,900				122
123	29.2	190.6	19,300	42.3	203.4	16,700	52.4	209.1	14,000	123
125	26.6	187.1	18,900	40.4	201.2	16,300	50.7	207.5	13,700	125
130	18.3	175.0	17,800	35.2	194.8	15,300	46.5	203.1	12,900	130
134	6.2	156.6	16,900	30.5	188.4	14,600	42.8	199.0	12,300	134
135				29.3	186.8	14,500	41.9	198.0	12,100	135
140				21.9	176.4	13,700	36.9	191.9	11,400	140
145				10.4	159.1	12,800	31.2	184.5	10,800	145
146				6.0	152.2	12,700	29.9	182.6	10,700	146
150							24.4	175.0	10,200	150
155							15.0	161.1	9,500	155
158							1.8	140.7	9,100	158

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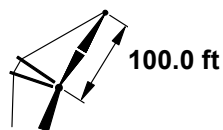
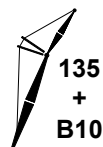
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
41	74.8	248.5	72,900 c						41	
45	72.4	247.3	72,500 c						45	
50	69.4	245.6	72,200 b						50	
55	66.3	243.6	70,000 b						55	
58	64.4	242.2	67,200 b	70.6	245.3	62,700 b			58	
60	63.1	241.2	65,300	69.4	244.6	60,100 b			60	
65	59.9	238.5	58,900	66.3	242.6	54,200 b			65	
70	56.5	235.4	53,600	63.1	240.2	49,200	67.8	242.4	46,000 b	70
75	53.0	231.9	49,100	59.9	237.5	45,100	64.7	240.2	42,100	75
80	49.3	227.8	45,200	56.5	234.4	41,500	61.5	237.6	38,700	80
85	45.4	223.2	41,800	53.0	230.8	38,400	58.2	234.7	35,800	85
90	41.2	217.9	38,900	49.3	226.8	35,600	54.8	231.4	33,200	90
95	36.7	211.7	36,200	45.4	222.2	33,200	51.2	227.6	30,900	95
100	31.6	204.4	33,900	41.3	216.9	31,000	47.4	223.3	28,900	100
105	25.6	195.2	31,800	36.7	210.7	29,100	43.4	218.4	27,100	105
110	17.8	182.6	29,800	31.6	203.4	27,300	39.0	212.7	25,400	110
114	7.3	164.6	28,300	26.8	196.0	26,000	35.2	207.3	24,200	114
115				25.6	194.2	25,700	34.2	205.9	23,900	115
120				17.9	181.7	24,200	28.7	197.8	22,600	120
124				7.4	163.8	23,100	23.3	189.3	21,500	124
125							22.0	187.2	21,300	125
129							14.2	174.2	20,300	129
130							12.3	171.0	20,100	130
132							4.3	157.2	19,500	132
135										135
140										140
144										144
145										145
150										150
155										155
156										156
160										160
165										165
168										168

MLC200 S-1

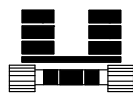
ASME B30.5



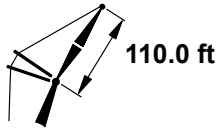
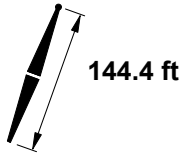
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
41										41
45										45
50										50
55										55
58										58
60										60
65										65
70										70
75										75
80										80
85										85
90	63.0	235.9	29,200							90
95	59.7	233.2	27,200							95
100	56.3	230.0	25,400							100
105	52.8	226.5	23,700							105
110	49.1	222.4	22,300	57.7	227.3	19,100				110
114	46.0	218.7	21,200	54.9	224.6	18,200				114
115	45.2	217.8	20,900	54.2	223.9	18,000				115
120	41.0	212.4	19,700	50.6	220.1	16,900				120
124	37.3	207.4	18,800	47.5	216.6	16,100				124
125	36.4	206.2	18,600	46.8	215.7	15,900				125
129	32.3	200.2	17,800	43.5	211.7	15,200	52.4	217.1	12,600	129
130	31.3	198.7	17,500	42.7	210.6	15,000	51.7	216.3	12,500	130
132	28.9	195.0	17,200	40.9	208.3	14,600	50.2	214.7	12,200	132
135	25.2	189.4	16,600	38.3	204.8	14,100	48.0	212.1	11,700	135
140	17.3	176.6	15,700	33.4	197.9	13,400	44.0	207.3	11,100	140
144	5.9	157.1	14,900	28.9	191.1	12,800	40.5	202.8	10,600	144
145				27.7	189.4	12,600	39.7	201.7	10,400	145
150				20.8	178.3	11,900	35.0	195.2	9,800	150
155				9.9	160.0	11,200	29.6	187.2	9,200	155
156				5.6	152.7	11,000	28.3	185.2	9,100	156
160							23.1	177.1	8,700	160
165							14.2	162.3	8,100	165
168							1.7	140.8	7,600	168

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ASME B30.5



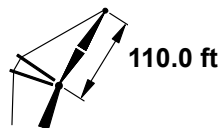
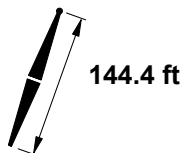
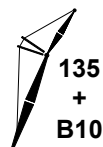
114,600 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
44	74.6	258.1	67,100 c							44
45	74.1	257.8	67,100 c							45
50	71.3	256.2	66,600 b							50
55	68.6	254.4	65,100 b							55
60	65.7	252.3	62,900							60
61	65.2	251.8	62,100	70.8	254.9	58,700 b				61
65	62.9	249.9	58,800	68.6	253.4	54,100 b				65
70	59.9	247.2	53,500	65.8	251.3	49,200				70
74	57.4	244.7	49,900	63.4	249.3	45,800	67.7	251.5	42,700	74
75	56.8	244.1	49,000	62.9	248.9	45,000	67.2	251.1	42,000	75
80	53.7	240.6	45,200	59.9	246.1	41,400	64.3	248.9	38,600	80
85	50.3	236.7	41,800	56.8	243.1	38,300	61.4	246.3	35,700	85
90	46.9	232.3	38,800	53.7	239.6	35,600	58.4	243.4	33,200	90
95	43.2	227.3	36,200	50.4	235.7	33,200	55.2	240.1	30,900	95
100	39.2	221.6	33,900	46.9	231.3	31,000	52.0	236.4	28,900	100
105	34.9	215.0	31,800	43.2	226.3	29,100	48.6	232.3	27,100	105
110	30.1	207.1	29,900	39.3	220.6	27,400	45.1	227.6	25,400	110
115	24.4	197.4	28,200	34.9	214.0	25,800	41.2	222.3	23,900	115
120	17.0	184.1	26,600	30.1	206.1	24,300	37.1	216.1	22,600	120
124	6.9	165.2	25,400	25.5	198.4	23,200	33.5	210.4	21,600	124
125				24.4	196.4	23,000	32.6	208.9	21,300	125
130				17.0	183.2	21,700	27.3	200.3	20,200	130
134				7.0	164.4	20,700	22.2	191.3	19,300	134
135							21.0	189.1	19,100	135
140							11.7	172.0	18,100	140
142							4.1	157.6	17,600	142
145										145
150										150
154										154
155										155
160										160
165										165
166										166
170										170
175										175
178										178

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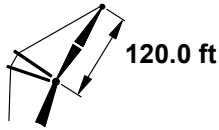
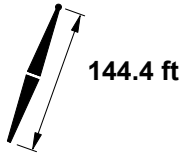
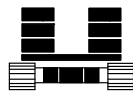
ASME B30.5



	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
44										44
45										45
50										50
55										55
60										60
61										61
65										65
70										70
74										74
75										75
80										80
85										85
90										90
95	62.7	244.6	27,100							95
100	59.7	241.8	25,300							100
105	56.7	238.7	23,700							105
110	53.5	235.2	22,200							110
115	50.2	231.3	20,900	57.9	236.0	17,900				115
120	46.7	226.9	19,700	54.7	232.7	16,900				120
124	43.7	222.8	18,800	52.1	229.7	16,100				124
125	43.0	221.8	18,600	51.5	228.9	15,900				125
130	39.0	216.1	17,600	48.1	224.7	15,000				130
134	35.5	210.7	16,800	45.2	220.8	14,300				134
135	34.7	209.4	16,600	44.5	219.9	14,100	52.5	225.1	11,700	135
140	29.8	201.5	15,700	40.6	214.4	13,400	49.2	221.1	11,000	140
142	27.5	197.5	15,400	38.9	211.9	13,100	47.7	219.2	10,800	142
145	24.0	191.6	14,900	36.4	208.2	12,600	45.6	216.5	10,400	145
150	16.5	178.1	14,100	31.8	200.8	12,000	41.8	211.2	9,800	150
154	5.6	157.6	13,500	27.5	193.6	11,500	38.6	206.4	9,300	154
155				26.4	191.8	11,300	37.8	205.2	9,200	155
160				19.8	180.1	10,700	33.3	198.2	8,700	160
165				9.4	160.9	10,100	28.2	189.8	8,100	165
166				5.4	153.2	10,000	27.0	187.7	8,000	166
170							22.1	179.1	7,600	170
175							13.5	163.6	7,100	175
178							1.6	141.0	6,700	178

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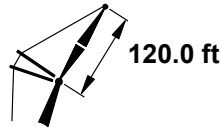
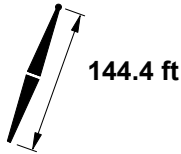
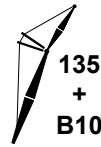
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
46	74.9	267.9	51,400 c							46
50	72.9	266.7	50,600 b							50
55	70.4	265.1	49,600 b							55
60	67.9	263.2	48,700							60
64	65.8	261.4	48,000	71.0	264.4	50,100 b				64
65	65.3	261.0	47,800	70.4	264.1	49,900 b				65
70	62.6	258.6	47,000	67.9	262.1	48,900				70
75	59.9	255.8	46,200	65.3	260.0	44,700				75
78	58.2	254.0	45,400	63.7	258.5	42,500	67.6	260.7	39,600	78
80	57.1	252.8	44,900	62.6	257.5	41,100	66.6	259.8	38,300	80
85	54.2	249.3	41,600	59.9	254.8	38,000	63.9	257.5	35,400	85
90	51.2	245.5	38,600	57.1	251.7	35,300	61.3	255.0	32,800	90
95	48.1	241.3	36,000	54.2	248.3	32,900	58.5	252.0	30,600	95
100	44.8	236.5	33,700	51.2	244.5	30,700	55.6	248.8	28,500	100
105	41.3	231.2	31,600	48.1	240.3	28,800	52.7	245.2	26,700	105
110	37.5	225.1	29,700	44.8	235.5	27,100	49.6	241.2	25,100	110
115	33.4	218.0	28,000	41.3	230.1	25,500	46.4	236.7	23,600	115
120	28.8	209.7	26,400	37.5	224.1	24,100	43.0	231.6	22,300	120
121	27.7	207.7	26,200	36.7	222.7	23,800	42.3	230.5	22,000	121
125	23.3	199.5	25,000	33.4	217.0	22,800	39.4	225.9	21,100	125
130	16.3	185.6	23,700	28.8	208.8	21,500	35.5	219.4	19,900	130
134	6.6	165.8	22,600	24.4	200.6	20,600	32.0	213.3	19,100	134
135				23.3	198.5	20,400	31.1	211.8	18,900	135
140				16.3	184.7	19,300	26.2	202.6	17,900	140
141				13.9	179.7	19,100	24.9	200.3	17,700	141
144				6.7	165.0	18,500	21.3	193.2	17,100	144
145							20.1	190.9	17,000	145
150							11.2	173.0	16,100	150
152							3.9	157.9	15,700	152
155										155
160										160
164										164
165										165
170										170
175										175
176										176
180										180
185										185
188										188

MLC200 S-1

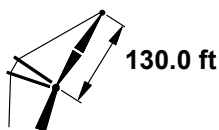
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
46										46
50										50
55										55
60										60
64										64
65										65
70										70
75										75
78										78
80										80
85										85
90										90
95										95
100	62.5	253.2	24,900							100
105	59.7	250.5	23,300							105
110	56.9	247.4	21,900							110
115	54.0	244.0	20,500							115
120	51.0	240.1	19,300							120
121	50.4	239.3	19,100	57.5	244.0	16,200				121
125	47.9	235.9	18,200	55.2	241.4	15,500				125
130	44.6	231.1	17,200	52.2	237.7	14,600				130
134	41.8	226.7	16,500	49.7	234.4	13,900				134
135	41.1	225.7	16,300	49.1	233.6	13,800				135
140	37.3	219.5	15,400	45.9	229.0	13,000				140
141	36.5	218.1	15,300	45.2	228.0	12,900	52.6	233.1	10,400	141
144	34.0	213.9	14,800	43.2	224.9	12,400	50.7	230.7	10,000	144
145	33.2	212.5	14,600	42.5	223.9	12,300	50.1	229.9	9,900	145
150	28.5	204.1	13,900	38.8	218.1	11,600	46.9	225.5	9,300	150
152	26.3	199.9	13,600	37.2	215.4	11,400	45.6	223.5	9,000	152
155	23.0	193.7	13,100	34.8	211.4	11,000	43.6	220.5	8,700	155
160	15.8	179.5	12,500	30.4	203.6	10,400	40.0	215.0	8,100	160
164	5.4	158.1	11,900	26.3	196.0	10,000	36.9	209.8	7,700	164
165				25.3	194.1	9,900	36.1	208.6	7,600	165
170				18.9	181.8	9,300	31.8	201.1	7,100	170
175				9.0	161.7	8,800	27.0	192.3	6,700	175
176				5.2	153.6	8,700	25.8	190.0	6,600	176
180							21.1	181.1	6,200	180
185							12.9	164.7	5,800	185
188							1.6	141.1	5,400	188

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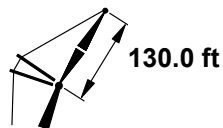
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
49	74.8	277.4	47,800 b						49	
50	74.3	277.2	47,600 b						50	
55	72.0	275.6	46,800						55	
60	69.7	273.9	46,000						60	
65	67.3	271.9	45,200						65	
68	65.8	270.6	44,700	70.6	273.6	46,500			68	
70	64.9	269.7	44,400	69.7	272.9	46,200			70	
75	62.4	267.2	43,700	67.3	270.9	44,500			75	
80	59.9	264.5	43,000	64.9	268.7	40,900			80	
81	59.4	263.9	42,700	64.4	268.2	40,300	68.0	270.3	37,400	81
85	57.3	261.4	41,400	62.4	266.2	37,800	66.1	268.6	35,100	85
90	54.7	258.1	38,400	59.9	263.5	35,100	63.6	266.2	32,600	90
95	51.9	254.3	35,800	57.3	260.4	32,700	61.2	263.6	30,300	95
100	49.1	250.2	33,500	54.7	257.0	30,500	58.6	260.7	28,300	100
104	46.7	246.5	31,800	52.5	254.0	29,000	56.5	258.1	26,900	104
105	46.1	245.6	31,400	51.9	253.3	28,600	56.0	257.5	26,500	105
110	42.9	240.5	29,600	49.1	249.2	26,900	53.3	254.0	24,900	110
115	39.6	234.8	27,900	46.1	244.6	25,300	50.5	250.0	23,400	115
120	36.0	228.4	26,300	42.9	239.5	23,900	47.6	245.7	22,100	120
125	32.0	221.0	24,900	39.6	233.8	22,600	44.5	240.9	20,900	125
126	31.2	219.2	24,600	38.9	232.5	22,300	43.9	239.8	20,600	126
130	27.6	212.3	23,600	36.0	227.4	21,400	41.3	235.5	19,700	130
135	22.4	201.5	22,400	32.1	220.0	20,300	37.8	229.4	18,700	135
140	15.6	187.0	21,200	27.6	211.3	19,200	34.0	222.5	17,700	140
144	6.4	166.4	20,300	23.5	202.7	18,500	30.7	216.1	17,000	144
145				22.4	200.6	18,300	29.9	214.5	16,800	145
147				19.7	194.8	17,900	28.0	210.7	16,500	147
150				15.7	186.1	17,300	25.1	204.9	16,000	150
154				6.5	165.6	16,600	20.4	195.1	15,300	154
155							19.3	192.6	15,200	155
160							10.8	174.0	14,400	160
162							3.8	158.3	14,100	162
165										165
170										170
174										174
175										175
180										180
185										185
186										186
190										190

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	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
49										49
50										50
55										55
60										60
65										65
68										68
70										70
75										75
80										80
81										81
85										85
90										90
95										95
100										100
104	62.8	262.4	23,400							104
105	62.3	261.9	23,100							105
110	59.8	259.1	21,600							110
115	57.2	256.1	20,300							115
120	54.5	252.7	19,100							120
125	51.8	248.9	18,000							125
126	51.2	248.1	17,800	57.7	252.7	15,000				126
130	48.9	244.8	17,000	55.6	250.1	14,300				130
135	45.9	240.2	16,100	52.9	246.5	13,500				135
140	42.8	235.1	15,200	50.0	242.5	12,800				140
144	40.1	230.5	14,600	47.7	238.9	12,200				144
145	39.4	229.3	14,400	47.1	238.1	12,100				145
147	37.9	226.7	14,100	45.9	236.1	11,800	52.6	241.1	9,200	147
150	35.8	222.8	13,700	44.0	233.2	11,400	50.9	238.8	8,900	150
154	32.6	216.9	13,100	41.4	228.8	10,900	48.6	235.3	8,400	154
155	31.8	215.4	13,000	40.7	227.7	10,800	48.0	234.5	8,300	155
160	27.4	206.6	12,300	37.2	221.5	10,200	45.0	229.7	7,800	160
162	25.2	202.2	12,100	35.7	218.7	10,000	43.7	227.6	7,600	162
165	22.1	195.7	11,700	33.4	214.4	9,700	41.8	224.5	7,300	165
170	15.2	180.9	11,100	29.2	206.2	9,200	38.4	218.5	6,800	170
174	5.2	158.6	10,600	25.2	198.3	8,800	35.4	213.1	6,500	174
175				24.3	196.3	8,700	34.6	211.7	6,400	175
180				18.2	183.4	8,200	30.6	203.9	5,900	180
185				8.7	162.4	7,700	25.9	194.6	5,500	185
186				5.0	154.1	7,600	24.8	192.3	5,400	186
190							20.3	182.9	5,100	190