

Liftcrane Luffing Jib Capacities

Luffing Jib No. LJ11:500-501 on
 Boom No. B65:505-500
 with Mast No. M11:503
 297,800 lb VPC (Variable Position Counterweight)
 360 Degree Rating

**MLC300
 VPC-MAX
 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.

Upper luffing jib point capacity for liftcrane service with single part whip line is 36,700 lb or 73,500 lb with two part whip line. In all cases, upper luffing jib point capacities cannot exceed those listed for main luffing jib capacity.

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 5,000 lb minimum weight suspended beneath luffing jib point, (c) require 10,000 lb minimum weight, and (d) require 20,000 lb minimum weight. **Caution: Do not luff into areas indicated by (b), (c), or (d) without required minimum weight. Luffing jib may not luff down and luffing jib hoist wire rope may go slack. Luffing jib hoist wire rope may overhaul luffing 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 Luffing Jib Rigging **No. 84050217**, Mast Rigging **No. 84045340**, Wire Rope Specifications chart **No. 9668-A**, Counterweight Arrangements chart **No. 9345-A**, Luffing Jib Raising Procedure chart **No. 9665-A**, and Wind Conditions chart **No. 9667-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. 9666-A**.



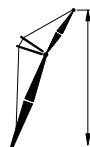
OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle and luffing jib angle are an indication of operating radius. In all cases, operating radius shall govern capacity.



BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts.



LUFFING JIB ANGLE: Luffing jib angle in degrees (°) 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 VPC-MAX, 31 ft 10 in. crawlers, 48 in. or 60 in. treads, 30 ft live mast, 98.4 ft mast, 10 part boom hoist reeving, boom support straps, 14 part luffing jib hoist reeving, luffing jib and backstay support straps, and 297,800 lb VPC.

Select counterweight position from Luffing Jib Raising Procedure chart **No. 9665-A** that will allow raising and lowering of boom and luffing jib length. Counterweight position selection may be changed with luffing jib on ground or while luffing jib is within operating range of capacity chart.

Explanation of Symbols



Luffing Jib No. LJ11:500-501
+
Boom No. B65:505-500



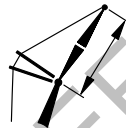
VPC (Variable Position Counterweight)



360 Degree Rating



Boom Length



Luffing Jib Length



Boom Angle
(see page 1)

REFERENCE ONLY!

Explanation of Symbols
(continued)



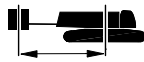
Operating Radius
(see page 1)



Luffing Jib Angle
(see page 1)



Luffing Jib Elevation
(see page 1)



Counterweight Position
from Axis of Rotation

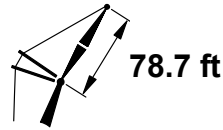
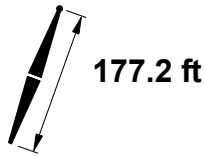


Lifting Capacities
(see page 1)

REFERENCE ONLY!

MLC300 VPC-MAX S-1

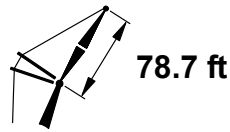
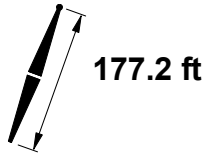
ASME B30.5



ft	85°				83°				80°				ft
	ft	ft	lb	lb	ft	lb	lb	ft	lb	lb			
50	71.7	258.8	324,700 d	324,700 d									50
55	67.8	256.8	297,900 c	297,900 c									55
60	63.7	254.3	265,800 b	265,800 b	68.7	256.6	287,700 c	315,800 c					60
65	59.5	251.4	240,400 b	240,400 b	64.7	254.2	261,600 b	300,100 b					65
70	55.1	247.9	219,900	219,900	60.5	251.4	238,100 b	268,900 b	68.1	254.8	229,600 c	286,900 c	70
75	50.4	243.8	202,900	202,900	56.2	248.1	218,300 b	243,700 b	64.1	252.3	210,500 b	263,300 b	75
80	45.3	238.9	188,700	188,700	51.5	244.1	201,400	223,300	59.9	249.4	194,200 b	243,200 b	80
85	39.7	233.1	176,900	176,900	46.6	239.5	186,700	206,500	55.5	246.0	180,100	225,700	85
90	33.3	225.8	167,000	167,000	41.1	233.9	173,900	192,500	50.8	242.0	167,700	210,400	90
95	25.3	216.1	159,300	159,300	34.9	227.0	162,500	180,800	45.8	237.2	156,800	197,000	95
100	12.9	199.7	147,800	147,800	27.4	218.0	152,400	171,200	40.2	231.4	147,100	185,000	100
105					16.8	204.3	143,200	163,200	33.9	224.3	138,400	174,300	105
110									26.1	214.8	130,500	164,500	110
115									14.4	199.6	123,200	155,600	115
120													120
125													125
130													130
135													135
140													140
145													145
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155													155
160													160

MLC300 VPC-MAX S-1

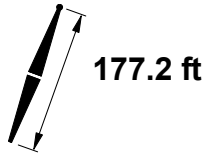
ASME B30.5



ft	75°				70°				65°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
50													50
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95	60.0	246.0	147,200 b	187,300 b									95
100	55.6	242.6	138,100	176,000									100
105	51.0	238.6	129,900	165,800									105
110	45.9	233.8	122,600	156,600									110
115	40.4	228.1	115,900	148,300	55.5	237.6	108,400	140,800					115
120	34.1	221.0	109,900	140,800	50.8	233.6	102,700	133,600					120
125	26.4	211.7	104,200	133,800	45.7	228.8	97,500	127,100					125
130	15.0	196.9	98,900	127,200	40.2	223.0	92,800	121,100					130
135					33.8	215.8	88,400	115,500	50.1	226.8	81,600	109,400	135
140					26.1	206.4	84,200	110,300	45.0	221.9	77,800	104,600	140
145					14.4	191.2	80,200	105,400	39.4	216.0	74,300	100,100	145
150									32.9	208.6	70,900	95,900	150
155									24.8	198.7	67,700	91,900	155
160									11.8	181.6	64,500	88,000	160

MLC300 VPC-MAX S-1

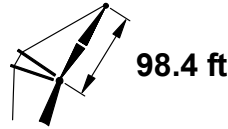
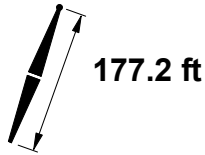
ASME B30.5



ft	85°				83°				80°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
55	72.4	277.9	257,000 c	257,000 c									55
60	69.3	276.0	253,300 b	253,300 b									60
65	66.1	273.8	246,200 b	246,200 b	70.1	275.8	255,100 b	255,100 b					65
70	62.9	271.3	223,600	223,600	66.9	273.7	237,100 b	252,100 b					70
75	59.5	268.3	205,000	205,000	63.7	271.2	217,400	242,200					75
80	56.0	265.0	189,600	189,600	60.3	268.3	200,500	229,300	66.4	271.8	193,100 b	242,000 b	80
85	52.3	261.1	176,500	176,500	56.8	265.1	186,000	212,000	63.2	269.3	179,000	224,600	85
90	48.5	256.7	165,400	165,400	53.2	261.4	173,200	196,000	59.8	266.4	166,700	209,500	90
95	44.3	251.7	155,900	155,900	49.4	257.1	162,000	182,600	56.3	263.1	155,900	196,100	95
100	39.8	245.8	147,600	147,600	45.3	252.3	152,000	171,200	52.6	259.3	146,300	184,200	100
105	34.8	238.9	140,600	140,600	40.9	246.6	143,100	161,400	48.8	254.9	137,700	173,600	105
110	29.1	230.3	134,800	134,800	36.1	239.9	135,000	153,000	44.7	250.0	130,000	164,000	110
115	21.9	219.0	130,400	130,400	30.5	231.8	127,700	145,900	40.2	244.2	122,900	155,300	115
120	10.1	199.4	112,700	112,700	23.8	221.4	121,000	140,300	35.3	237.3	116,500	147,400	120
125					14.0	205.2	114,700	124,000	29.6	228.9	110,700	140,200	125
130									22.6	217.9	105,200	133,500	130
135									11.7	199.9	100,100	125,400	135
140													140
145													145
150													150
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MLC300 VPC-MAX S-1

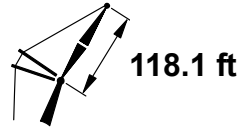
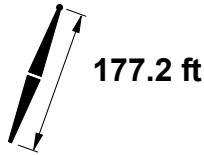
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100	63.3	265.8	136,800	174,700									100
105	59.9	263.0	128,800	164,600									105
110	56.4	259.6	121,500	155,500									110
115	52.8	255.9	114,900	147,300									115
120	48.9	251.6	109,000	139,900									120
125	44.8	246.6	103,500	133,000	56.3	254.7	96,300	125,900					125
130	40.4	240.8	98,500	126,800	52.6	250.9	91,600	119,900					130
135	35.5	234.0	93,800	121,000	48.8	246.5	87,300	114,500					135
140	29.8	225.7	89,500	115,600	44.7	241.5	83,300	109,400					140
145	22.9	214.8	85,500	110,600	40.2	235.7	79,600	104,700	52.1	244.2	72,500	98,800	145
150	12.2	197.3	81,600	105,800	35.3	228.9	76,100	100,400	48.3	239.8	69,300	94,700	150
155					29.6	220.5	72,900	96,300	44.1	234.7	66,300	90,900	155
160					22.6	209.5	69,800	92,400	39.6	228.8	63,500	87,300	160
165					11.6	191.4	66,800	88,600	34.6	221.7	60,800	83,900	165
170									28.8	213.1	58,300	80,700	170
175									21.4	201.6	55,800	77,600	175
180									9.1	180.9	53,200	74,600	180

MLC300 VPC-MAX S-1

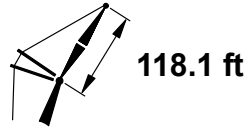
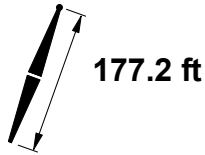
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
60	72.9	297.0	260,400 b	260,400 b									60
65	70.3	295.2	249,700	249,700									65
70	67.7	293.2	227,800	227,800	71.0	295.0	234,800	256,200					70
75	65.0	290.9	207,800	207,800	68.4	293.0	215,100	245,900					75
80	62.3	288.2	191,300	191,300	65.7	290.7	198,300	235,800					80
85	59.5	285.3	177,400	177,400	63.0	288.2	183,700	219,100	67.9	291.2	176,500	222,100	85
90	56.6	282.0	165,600	165,600	60.2	285.3	171,000	201,100	65.3	288.9	164,200	206,900	90
95	53.6	278.3	155,400	155,400	57.3	282.1	159,900	186,200	62.5	286.3	153,500	193,600	95
100	50.4	274.2	146,600	146,600	54.3	278.5	149,900	173,600	59.7	283.3	143,900	181,800	100
105	47.2	269.6	138,800	138,800	51.2	274.5	141,000	162,800	56.8	280.1	135,400	171,200	105
110	43.7	264.5	132,000	132,000	48.0	270.1	133,100	153,500	53.8	276.4	127,700	161,700	110
115	39.9	258.6	126,000	126,000	44.5	265.0	125,800	145,300	50.7	272.4	120,700	153,100	115
120	35.8	251.8	120,900	120,900	40.8	259.3	119,200	138,200	47.4	267.8	114,400	145,300	120
125	31.3	243.9	116,300	116,400	36.9	252.8	113,200	132,000	44.0	262.7	108,600	138,200	125
130	26.0	234.2	110,600	112,800	32.4	245.2	107,700	126,700	40.3	256.9	103,300	131,600	130
135	19.3	221.4	105,300	108,200	27.4	236.0	102,600	122,200	36.2	250.2	98,400	125,600	135
140	7.8	198.2	87,400	87,400	21.1	224.1	97,800	115,400	31.7	242.4	93,900	120,000	140
145					11.8	205.6	93,300	96,500	26.5	232.9	89,700	114,800	145
150									20.0	220.5	85,700	109,900	150
155									9.5	199.4	81,900	97,800	155
160													160
165													165
170													170
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180													180
185													185
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195													195
200													200

MLC300 VPC-MAX S-1

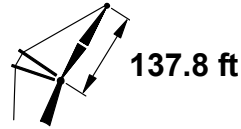
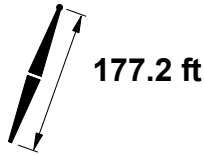
ASME B30.5



ft	75°				70°				65°				ft
	ft	°	ft	lb	ft	°	ft	lb	ft	°	ft	lb	
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	62.6	282.8	118,800	152,800									115
120	59.8	279.9	112,300	144,700									120
125	57.0	276.7	106,300	137,300									125
130	54.0	273.0	100,900	130,500									130
135	50.8	269.0	96,000	124,300									135
140	47.6	264.5	91,400	118,600	56.8	271.7	84,000	111,700					140
145	44.1	259.4	87,200	113,300	53.8	268.0	80,000	106,700					145
150	40.4	253.6	83,300	108,400	50.7	264.0	76,400	102,100					150
155	36.4	247.0	79,700	103,900	47.4	259.4	73,000	97,800					155
160	31.9	239.2	76,200	99,600	44.0	254.3	69,800	93,800	53.4	261.4	62,400	88,000	160
165	26.7	229.7	73,000	95,600	40.2	248.5	66,800	90,000	50.3	257.3	59,700	84,500	165
170	20.3	217.4	70,000	91,800	36.2	241.8	64,000	86,500	47.0	252.6	57,100	81,200	170
175	10.1	197.1	67,000	88,200	31.7	234.0	61,300	83,200	43.5	247.4	54,700	78,100	175
180					26.5	224.5	58,700	80,100	39.7	241.5	52,400	75,100	180
185					20.0	212.0	56,200	77,100	35.6	234.7	50,200	72,400	185
190					9.4	190.9	53,700	74,100	31.1	226.7	48,100	69,700	190
195									25.7	216.9	46,100	67,200	195
200									18.9	203.8	44,100	64,800	200
									6.7	179.1	42,000	62,400	200

MLC300 VPC-MAX S-1

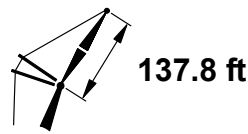
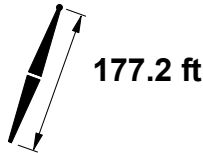
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
65	73.3	316.1	222,700	222,700									65
70	71.1	314.4	209,200	209,200									70
75	68.8	312.4	196,500	196,500	71.6	314.1	213,100	213,100					75
80	66.6	310.3	184,400	184,400	69.4	312.2	197,200	200,400					80
85	64.3	307.9	173,300	173,300	67.1	310.1	182,700	188,300					85
90	61.9	305.2	163,000	163,000	64.8	307.7	170,000	177,000					90
95	59.5	302.2	153,400	153,400	62.5	305.1	158,900	166,400	66.8	308.3	152,300	187,100	95
100	57.0	299.0	144,600	144,600	60.1	302.2	149,000	156,600	64.5	305.9	142,800	176,100	100
105	54.5	295.4	136,500	136,500	57.6	299.1	140,100	147,700	62.1	303.2	134,300	165,800	105
110	51.8	291.5	129,000	129,000	55.1	295.6	132,200	139,300	59.7	300.3	126,600	156,300	110
115	49.1	287.2	122,000	122,000	52.5	291.8	125,000	131,600	57.2	297.1	119,700	147,400	115
120	46.2	282.5	115,600	115,600	49.7	287.6	118,400	124,400	54.7	293.6	113,400	139,100	120
125	43.2	277.2	109,600	109,600	46.9	282.9	112,500	117,800	52.1	289.7	107,700	131,400	125
130	40.0	271.3	104,100	104,100	43.9	277.8	107,000	111,700	49.3	285.4	102,400	124,300	130
135	36.5	264.7	99,000	99,000	40.8	272.1	101,900	106,000	46.5	280.7	97,600	117,700	135
140	32.8	257.2	94,100	94,100	37.4	265.7	97,300	100,700	43.5	275.5	93,100	111,600	140
145	28.5	248.3	89,700	89,700	33.7	258.4	92,900	95,800	40.3	269.7	88,900	105,900	145
150	23.6	237.6	85,500	85,500	29.6	249.9	88,900	91,200	36.8	263.1	85,100	100,600	150
155	17.3	223.3	81,800	81,800	24.9	239.6	85,100	86,900	33.1	255.7	81,500	95,700	155
160	5.7	195.8	70,100	70,100	19.0	226.5	81,600	83,000	28.9	246.9	78,100	91,100	160
165					10.0	205.3	77,700	77,700	24.1	236.4	74,900	86,900	165
170									17.9	222.5	71,900	83,000	170
175									7.6	198.1	68,900	78,800	175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220

MLC300 VPC-MAX S-1

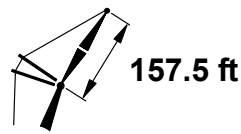
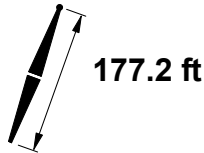
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	62.2	299.8	105,100	136,000									120
125	59.8	296.9	99,700	129,300									125
130	57.3	293.7	94,800	123,100									130
135	54.8	290.1	90,300	117,400									135
140	52.2	286.3	86,100	112,200									140
145	49.4	282.0	82,200	107,400	57.2	288.7	74,600	100,800					145
150	46.6	277.3	78,600	102,900	54.7	285.1	71,200	96,500					150
155	43.6	272.1	75,300	98,700	52.0	281.3	68,100	92,500					155
160	40.4	266.3	72,200	94,700	49.3	277.0	65,200	88,800					160
165	37.0	259.8	69,200	91,100	46.5	272.3	62,400	85,400					165
170	33.3	252.4	66,400	87,600	43.5	267.1	59,800	82,100	51.7	274.6	52,900	76,800	170
175	29.1	243.7	63,800	84,300	40.3	261.2	57,300	79,100	48.9	270.3	50,600	73,900	175
180	24.3	233.2	61,300	81,200	36.8	254.7	55,000	76,200	46.1	265.5	48,500	71,200	180
185	18.2	219.5	58,900	78,300	33.1	247.2	52,700	73,400	43.0	260.2	46,500	68,600	185
190	8.2	196.1	56,500	75,400	28.9	238.5	50,600	70,800	39.8	254.3	44,600	66,200	190
195					24.1	227.9	48,600	68,400	36.4	247.6	42,800	63,800	195
200					17.9	214.1	46,600	66,000	32.6	240.0	41,000	61,600	200
205					7.5	189.6	44,500	63,600	28.3	231.1	39,300	59,500	205
210									23.3	220.2	37,700	57,500	210
215									16.9	205.7	36,100	55,600	215
220									4.1	175.3	34,300	53,500	220

MLC300 VPC-MAX S-1

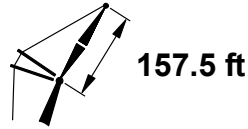
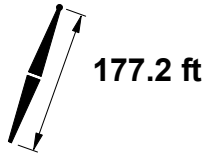
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
70	73.5	335.2	202,000	202,000									70
75	71.6	333.5	199,500	199,500									75
80	69.7	331.6	196,900	196,900									80
85	67.7	329.6	185,400	185,400	70.1	331.4	180,200	198,600					85
90	65.7	327.3	171,300	171,300	68.2	329.4	167,600	196,300					90
95	63.7	324.8	159,400	159,400	66.2	327.2	156,400	190,400					95
100	61.6	322.1	149,200	149,200	64.2	324.7	146,500	183,900	67.9	327.6	140,100	178,000	100
105	59.5	319.2	140,300	140,300	62.1	322.1	137,700	173,200	65.9	325.3	131,600	167,500	105
110	57.3	316.0	132,500	132,500	60.0	319.2	129,800	161,300	63.8	322.9	124,000	158,000	110
115	55.1	312.5	125,600	125,600	57.9	316.1	122,600	151,100	61.8	320.2	117,100	149,500	115
120	52.8	308.7	119,500	119,500	55.6	312.7	116,100	142,300	59.7	317.2	110,900	141,800	120
125	50.5	304.6	113,500	114,000	53.4	309.0	110,100	134,600	57.5	314.1	105,100	134,700	125
130	48.0	300.2	107,900	109,100	51.1	304.9	104,700	127,900	55.3	310.6	99,900	128,200	130
135	45.5	295.3	102,700	104,700	48.6	300.6	99,700	121,200	53.0	306.9	95,100	122,200	135
140	42.8	290.0	98,000	100,700	46.1	295.8	95,000	114,500	50.7	302.8	90,600	116,700	140
145	40.0	284.1	93,600	97,100	43.5	290.6	90,700	108,400	48.3	298.4	86,500	111,600	145
150	37.0	277.6	89,500	93,900	40.7	284.8	86,800	102,700	45.7	293.5	82,700	106,900	150
155	33.8	270.3	85,600	91,100	37.8	278.5	83,000	97,500	43.1	288.2	79,100	102,500	155
160	30.3	262.0	82,000	87,000	34.6	271.4	79,600	92,600	40.3	282.4	75,800	98,400	160
165	26.3	252.3	78,700	82,800	31.2	263.3	76,300	88,100	37.3	276.0	72,700	94,500	165
170	21.7	240.5	75,500	78,900	27.3	254.0	73,200	83,900	34.1	268.7	69,700	90,900	170
175	15.7	224.8	69,000	69,000	22.9	242.8	70,300	79,900	30.6	260.5	67,000	87,500	175
180	3.2	190.9	55,000	55,000	17.3	228.4	67,500	74,200	26.7	251.0	64,300	83,400	180
185					8.4	204.5	61,600	61,600	22.1	239.4	61,800	79,500	185
190									16.3	224.2	59,500	75,700	190
195									5.8	195.8	57,000	62,700	195
200													200
205													205
210													210
215													215
220													220
225													225
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235													235

MLC300 VPC-MAX S-1

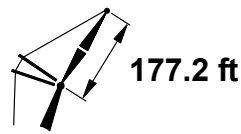
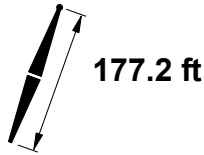
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	63.9	319.4	96,700	126,400									125
130	61.9	316.7	91,800	120,300									130
135	59.7	313.8	87,300	114,700									135
140	57.6	310.6	83,200	109,500									140
145	55.4	307.2	79,300	104,700									145
150	53.1	303.5	75,700	100,200									150
155	50.8	299.4	72,300	96,000	57.5	305.7	64,100	89,600					155
160	48.3	295.0	69,100	92,100	55.3	302.2	61,200	86,000					160
165	45.8	290.2	66,200	88,500	53.0	298.5	58,500	82,500					165
170	43.2	284.9	63,300	85,100	50.7	294.4	56,000	79,300					170
175	40.4	279.1	60,700	81,900	48.3	290.0	53,500	76,300					175
180	37.4	272.7	58,200	78,800	45.7	285.1	51,300	73,500	52.7	291.8	44,500	68,200	180
185	34.2	265.5	55,800	76,000	43.1	279.8	49,100	70,800	50.4	287.7	42,500	65,700	185
190	30.8	257.3	53,600	73,300	40.3	274.0	47,000	68,200	47.9	283.2	40,700	63,300	190
195	26.8	247.8	51,400	70,700	37.3	267.5	45,100	65,800	45.4	278.3	38,900	61,000	195
200	22.3	236.3	49,300	68,200	34.1	260.3	43,200	63,500	42.7	272.9	37,200	58,900	200
205	16.5	221.3	47,300	65,800	30.6	252.1	41,400	61,300	39.9	267.0	35,600	56,800	205
210	6.5	194.2	45,200	63,400	26.7	242.5	39,700	59,200	36.9	260.5	34,100	54,900	210
215					22.1	231.0	38,100	57,200	33.7	253.2	32,600	53,000	215
220					16.3	215.7	36,400	55,300	30.1	244.8	31,200	51,200	220
225					5.7	187.3	34,700	53,300	26.1	235.0	29,800	49,500	225
230									21.4	223.1	28,500	47,800	230
235									15.3	207.1	27,100	46,200	235

MLC300 VPC-MAX S-1

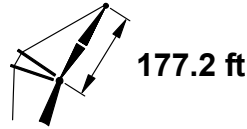
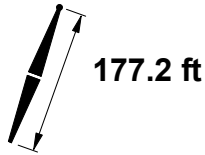
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
75	73.7	354.2	170,600	170,600									75
80	72.0	352.6	159,900	159,900									80
85	70.3	350.8	149,900	149,900									85
90	68.6	348.8	140,500	140,500	70.7	350.5	152,700	152,700					90
95	66.8	346.7	131,700	131,700	69.0	348.6	143,200	143,200					95
100	65.0	344.4	123,600	123,600	67.2	346.5	134,200	134,200					100
105	63.2	341.8	115,900	115,900	65.4	344.2	126,000	126,000	68.7	346.8	130,500	141,900	105
110	61.4	339.1	108,900	108,900	63.6	341.7	118,200	118,200	67.0	344.7	122,900	133,200	110
115	59.5	336.2	102,400	102,400	61.8	339.0	111,000	111,000	65.2	342.3	116,000	125,100	115
120	57.6	333.0	96,400	96,400	59.9	336.2	104,400	104,400	63.4	339.8	109,800	117,600	120
125	55.6	329.6	90,700	90,700	58.0	333.0	98,200	98,200	61.5	337.1	104,100	110,500	125
130	53.6	325.9	85,500	85,500	56.1	329.7	92,400	92,400	59.7	334.2	98,900	103,900	130
135	51.5	321.9	80,600	80,600	54.1	326.1	87,000	87,000	57.7	331.1	94,100	97,700	135
140	49.4	317.7	76,000	76,000	52.0	322.2	82,100	82,100	55.8	327.7	89,600	92,000	140
145	47.2	313.1	71,700	71,700	49.9	318.0	77,400	77,400	53.8	324.0	85,500	86,700	145
150	44.9	308.1	67,800	67,800	47.8	313.5	73,000	73,000	51.7	320.1	81,700	81,800	150
155	42.6	302.7	64,000	64,000	45.5	308.6	69,000	69,000	49.6	315.8	77,200	77,200	155
160	40.1	296.8	60,500	60,500	43.1	303.3	65,100	65,100	47.4	311.3	72,800	72,800	160
165	37.4	290.4	57,200	57,200	40.7	297.6	61,500	61,500	45.1	306.3	68,800	68,800	165
170	34.6	283.3	54,000	54,000	38.1	291.3	58,100	58,100	42.8	301.0	64,900	64,900	170
175	31.6	275.4	51,000	51,000	35.3	284.3	55,000	55,000	40.3	295.2	61,300	61,300	175
180	28.3	266.3	48,300	48,300	32.3	276.6	52,000	52,000	37.7	288.8	58,000	58,000	180
185	24.5	255.8	45,600	45,600	29.1	267.9	49,100	49,100	34.9	281.7	54,800	54,800	185
190	20.1	243.1	43,200	43,200	25.4	257.8	46,400	46,400	31.9	273.9	51,800	51,800	190
195	14.3	225.9	40,800	40,800	21.2	245.7	43,900	43,900	28.6	265.0	48,900	48,900	195
200					15.9	229.9	41,500	41,500	24.8	254.6	46,300	46,300	200
205					7.0	202.9	39,300	39,300	20.5	242.1	43,800	43,800	205
210									14.9	225.5	41,400	41,400	210
215									3.8	191.6	39,200	39,200	215
220													220
225													225
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245													245
250													250
255													255

MLC300 VPC-MAX S-1

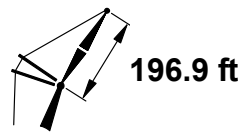
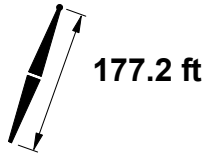
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	63.4	336.4	85,600	113,400									135
140	61.6	333.7	81,500	108,300									140
145	59.7	330.8	77,700	103,500									145
150	57.8	327.6	74,100	98,300									150
155	55.9	324.2	70,700	92,600									155
160	53.9	320.6	67,600	87,300									160
165	51.8	316.7	64,600	82,400	57.7	322.6	56,800	81,300					165
170	49.7	312.5	61,900	77,700	55.8	319.2	54,200	78,100					170
175	47.5	307.9	59,200	73,300	53.8	315.6	51,900	75,100					175
180	45.2	303.0	56,800	69,200	51.7	311.7	49,600	72,300					180
185	42.9	297.6	54,400	65,500	49.6	307.4	47,500	69,600					185
190	40.4	291.8	52,200	61,800	47.4	302.9	45,500	67,100	53.5	309.0	38,900	62,000	190
195	37.8	285.5	50,100	58,400	45.1	297.9	43,600	64,700	51.4	305.0	37,200	59,700	195
200	35.0	278.4	48,100	55,300	42.8	292.6	41,700	62,400	49.3	300.7	35,500	57,600	200
205	32.0	270.6	46,200	52,300	40.3	286.7	40,000	60,300	47.1	296.1	33,900	55,600	205
210	28.7	261.7	44,300	49,400	37.7	280.4	38,300	58,200	44.8	291.1	32,400	53,700	210
215	25.0	251.5	42,600	46,700	34.9	273.3	36,700	55,400	42.4	285.7	31,000	51,800	215
220	20.6	239.0	40,900	44,200	31.9	265.4	35,200	52,400	39.9	279.8	29,600	50,100	220
225	15.1	222.6	39,200	41,800	28.6	256.5	33,700	49,600	37.3	273.3	28,300	48,400	225
230	4.8	191.1	37,400	39,600	24.8	246.2	32,300	46,900	34.5	266.2	27,100	46,800	230
235					20.5	233.6	30,900	44,400	31.4	258.2	25,800	45,300	235
240					14.8	217.0	29,600	42,000	28.1	249.1	24,600	43,800	240
245					3.7	183.0	28,100	39,900	24.3	238.5	23,500	42,400	245
250									19.8	225.6	22,400	41,000	250
255									13.9	208.1	21,200	39,600	255

MLC300 VPC-MAX S-1

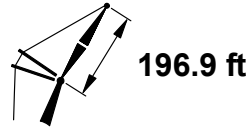
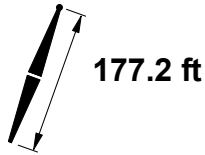
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
80	73.9	373.3	158,900	158,900									80
85	72.3	371.7	157,300	157,300									85
90	70.8	369.9	155,600	155,600									90
95	69.3	368.0	153,900	153,900	71.2	369.6	152,600	156,600					95
100	67.7	366.0	147,400	152,100	69.6	367.8	142,800	155,200					100
105	66.1	363.8	138,300	145,400	68.1	365.8	134,000	153,800					105
110	64.5	361.4	130,200	136,300	66.5	363.6	126,100	152,300					110
115	62.8	358.8	122,900	128,500	64.9	361.2	119,000	150,800	67.8	364.0	113,100	145,500	115
120	61.2	356.1	116,200	121,500	63.2	358.7	112,500	142,400	66.2	361.7	106,900	137,800	120
125	59.5	353.1	110,100	115,400	61.6	356.0	106,600	133,400	64.6	359.4	101,200	130,800	125
130	57.8	350.0	104,500	109,900	59.9	353.1	101,100	125,300	63.0	356.8	96,000	124,300	130
135	56.0	346.6	99,400	104,900	58.2	350.0	96,100	117,800	61.3	354.1	91,300	118,400	135
140	54.2	343.0	94,700	100,500	56.4	346.7	91,500	111,100	59.6	351.2	86,800	112,900	140
145	52.4	339.2	90,300	96,400	54.7	343.2	87,300	105,000	57.9	348.0	82,800	107,900	145
150	50.5	335.1	86,200	92,600	52.8	339.4	83,300	99,300	56.2	344.7	79,000	103,200	150
155	48.6	330.7	82,400	88,100	51.0	335.3	79,600	94,100	54.4	341.1	75,400	98,800	155
160	46.6	326.0	78,900	83,700	49.0	331.0	76,200	89,300	52.5	337.3	72,100	94,700	160
165	44.5	320.9	75,600	79,700	47.1	326.4	73,000	84,800	50.7	333.2	68,900	90,900	165
170	42.3	315.5	72,500	75,900	45.0	321.4	70,000	80,700	48.7	328.8	65,900	87,300	170
175	40.1	309.6	69,600	72,300	42.9	316.1	67,100	76,800	46.7	324.2	63,100	84,000	175
180	37.7	303.2	66,800	69,000	40.6	310.3	64,500	73,200	44.7	319.1	60,400	80,200	180
185	35.2	296.3	64,200	65,800	38.3	304.1	61,900	69,800	42.5	313.7	57,900	76,400	185
190	32.6	288.6	61,800	62,800	35.9	297.3	59,500	66,600	40.3	307.9	55,500	72,800	190
195	29.7	280.0	59,400	60,000	33.2	289.8	57,300	63,600	38.0	301.6	53,200	69,400	195
200	26.5	270.3	57,200	57,300	30.4	281.4	55,100	60,800	35.5	294.7	51,100	66,300	200
205	22.9	259.1	54,800	54,800	27.3	272.1	52,900	58,100	32.8	287.1	49,000	63,300	205
210	18.7	245.3	51,400	51,400	23.8	261.2	50,800	55,500	30.0	278.6	47,000	60,500	210
215	13.1	226.7	44,100	44,100	19.8	248.2	48,800	53,000	26.8	269.0	45,100	57,800	215
220					14.6	231.1	46,900	47,900	23.3	257.9	43,300	55,200	220
225					5.6	200.5	38,700	38,700	19.1	244.4	41,500	52,700	225
230									13.6	226.4	39,800	49,800	230
235													235
240													240
245													245
250													250
255													255
260													260
265													265
270													270

MLC300 VPC-MAX S-1

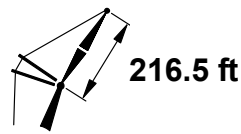
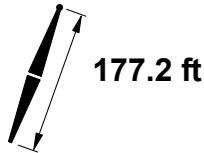
ASME B30.5



ft	75°				70°				65°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	63.0	353.4	73,500	100,400									145
150	61.4	350.6	69,900	96,000									150
155	59.7	347.7	66,600	91,900									155
160	58.0	344.6	63,500	88,000									160
165	56.2	341.3	60,600	84,400									165
170	54.4	337.7	57,900	81,100									170
175	52.6	333.9	55,300	77,900	57.9	339.6	47,600	72,000					175
180	50.7	329.8	52,800	74,900	56.2	336.3	45,400	69,200					180
185	48.8	325.5	50,500	72,100	54.4	332.7	43,300	66,500					185
190	46.8	320.8	48,300	69,500	52.5	328.9	41,300	64,000					190
195	44.8	315.8	46,300	66,900	50.7	324.8	39,400	61,700					195
200	42.6	310.4	44,300	64,600	48.7	320.4	37,600	59,400					200
205	40.4	304.6	42,400	62,300	46.7	315.8	35,900	57,300	52.3	322.2	29,600	52,400	205
210	38.0	298.3	40,600	60,100	44.7	310.7	34,300	55,300	50.4	318.1	28,200	50,500	210
215	35.6	291.4	38,900	58,100	42.5	305.3	32,800	53,300	48.5	313.7	26,800	48,700	215
220	32.9	283.8	37,300	56,100	40.3	299.5	31,300	51,500	46.5	309.0	25,400	47,000	220
225	30.1	275.4	35,700	54,200	37.9	293.2	29,900	49,800	44.4	303.9	24,200	45,400	225
230	26.9	265.8	34,200	52,400	35.5	286.2	28,500	48,100	42.2	298.4	22,900	43,800	230
235	23.4	254.8	32,700	50,700	32.8	278.6	27,200	46,500	40.0	292.5	21,800	42,300	235
240	19.2	241.4	31,300	49,000	30.0	270.2	25,900	44,900	37.6	286.1	20,600	40,800	240
245	13.9	223.7	29,900	47,400	26.8	260.6	24,700	43,400	35.1	279.1	19,500	39,500	245
250	2.5	184.9	28,300	44,800	23.3	249.5	23,500	42,000	32.4	271.4	18,500	38,100	250
255					19.1	236.0	22,300	40,600	29.6	262.8	17,500	36,800	255
260					13.6	218.0	21,200	39,200	26.4	253.1	16,500	35,600	260
265									22.7	241.7	15,500	34,400	265
270									18.4	227.8	14,500	33,200	270

MLC300 VPC-MAX S-1

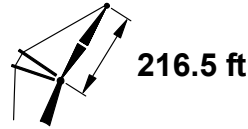
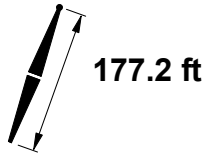
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
90	72.6	390.8	137,200	137,200									90
95	71.2	389.1	137,200	137,200									95
100	69.8	387.2	137,000	137,000	71.6	388.8	135,000	135,000					100
105	68.4	385.2	135,600	135,600	70.1	386.9	132,600	135,000					105
110	66.9	383.1	129,000	134,100	68.7	385.0	124,700	135,000					110
115	65.5	380.8	121,600	131,800	67.3	382.9	117,600	135,000					115
120	64.0	378.4	115,000	124,300	65.8	380.7	111,100	134,400	68.5	383.2	105,300	129,900	120
125	62.5	375.8	108,900	117,700	64.4	378.3	105,200	130,900	67.1	381.1	99,600	129,300	125
130	61.0	373.0	103,300	111,700	62.9	375.7	99,800	123,100	65.6	378.8	94,400	122,900	130
135	59.5	370.1	98,200	106,300	61.4	373.0	94,800	116,000	64.2	376.4	89,600	116,900	135
140	57.9	366.9	93,500	101,500	59.9	370.1	90,200	109,500	62.7	373.8	85,100	111,500	140
145	56.3	363.6	89,100	96,500	58.3	367.0	86,000	103,500	61.2	371.0	81,000	106,400	145
150	54.7	360.1	85,000	91,500	56.7	363.7	82,000	98,000	59.6	368.1	77,100	101,800	150
155	53.1	356.3	81,200	86,900	55.1	360.2	78,400	92,900	58.1	365.0	73,500	97,400	155
160	51.4	352.3	77,700	82,600	53.5	356.5	74,900	88,200	56.5	361.7	70,100	93,300	160
165	49.6	348.1	74,400	78,600	51.8	352.6	71,700	83,800	54.9	358.2	67,000	89,500	165
170	47.9	343.6	71,300	74,800	50.1	348.4	68,700	79,600	53.2	354.4	64,000	86,000	170
175	46.0	338.8	68,400	71,300	48.3	344.0	65,900	75,800	51.5	350.5	61,200	82,600	175
180	44.1	333.7	65,700	68,000	46.5	339.3	63,200	72,200	49.8	346.3	58,500	79,100	180
185	42.2	328.2	63,100	64,900	44.6	334.2	60,600	68,800	48.0	341.8	56,000	75,300	185
190	40.1	322.3	60,600	61,900	42.6	328.8	58,100	65,700	46.2	337.0	53,600	71,800	190
195	38.0	316.0	58,300	59,200	40.6	323.1	55,700	62,700	44.3	331.9	51,400	68,400	195
200	35.7	309.2	56,100	56,500	38.5	316.9	53,500	59,900	42.3	326.5	49,300	65,300	200
205	33.4	301.7	54,000	54,000	36.3	310.1	51,300	57,200	40.3	320.7	47,200	62,400	205
210	30.8	293.5	51,600	51,600	34.0	302.8	49,300	54,700	38.2	314.4	45,300	59,600	210
215	28.1	284.4	49,400	49,400	31.5	294.8	47,300	52,300	35.9	307.6	43,400	56,900	215
220	25.0	274.0	47,100	47,100	28.8	285.9	45,400	50,000	33.6	300.2	41,600	54,400	220
225	21.6	262.0	44,400	44,400	25.8	275.9	43,600	47,800	31.1	292.0	39,900	52,000	225
230	17.5	247.3	41,300	41,300	22.5	264.3	41,900	45,400	28.3	283.0	38,300	49,700	230
235	12.0	227.2	35,100	35,100	18.5	250.4	40,200	42,900	25.3	272.8	36,700	47,600	235
240					13.5	232.1	38,400	38,400	21.9	260.9	35,200	45,500	240
245					4.0	196.6	30,300	30,300	17.9	246.5	33,700	43,000	245
250									12.6	227.1	32,200	40,100	250
255													255
260													260
265													265
270													270
280													280
290													290

MLC300 VPC-MAX S-1

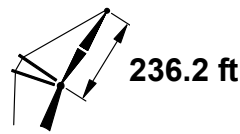
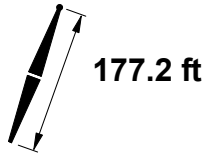
ASME B30.5



ft	75°				70°				65°				ft
	ft	°	ft	lb	ft	°	ft	lb	ft	°	ft	lb	
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155	62.7	370.3	64,400	90,300									155
160	61.2	367.6	61,300	86,400									160
165	59.7	364.7	58,400	82,900									165
170	58.1	361.6	55,700	79,500									170
175	56.5	358.3	53,100	76,400									175
180	54.9	354.8	50,700	73,400									180
185	53.3	351.0	48,400	70,600	58.1	356.6	41,000	64,800					185
190	51.6	347.1	46,300	68,000	56.5	353.3	39,000	62,400					190
195	49.9	342.9	44,200	65,500	54.9	349.8	37,200	60,000					195
200	48.1	338.4	42,300	63,100	53.2	346.0	35,400	57,800					200
205	46.3	333.7	40,400	60,800	51.5	342.1	33,700	55,700					205
210	44.4	328.6	38,600	58,700	49.8	337.9	32,100	53,700					210
215	42.4	323.1	37,000	56,700	48.0	333.4	30,600	51,800	53.0	339.4	24,400	47,000	215
220	40.4	317.3	35,300	54,700	46.2	328.6	29,200	50,000	51.3	335.4	23,100	45,300	220
225	38.3	311.1	33,800	52,900	44.3	323.5	27,800	48,200	49.6	331.2	21,900	43,700	225
230	36.0	304.3	32,300	51,100	42.3	318.1	26,400	46,600	47.8	326.6	20,700	42,100	230
235	33.7	296.9	30,900	49,400	40.3	312.2	25,100	45,000	45.9	321.8	19,500	40,700	235
240	31.1	288.8	29,500	47,800	38.2	306.0	23,900	43,400	44.0	316.7	18,400	39,200	240
245	28.4	279.8	28,200	46,200	35.9	299.1	22,700	42,000	42.1	311.2	17,400	37,900	245
250	25.4	269.6	26,900	44,700	33.6	291.7	21,600	40,600	40.0	305.3	16,300	36,600	250
255	22.0	257.8	25,700	43,200	31.0	283.6	20,500	39,200	37.9	298.9	15,400	35,300	255
260	18.0	243.5	24,500	41,800	28.3	274.6	19,400	37,900	35.6	292.1	14,400	34,100	260
265	12.8	224.4	23,300	40,400	25.3	264.3	18,400	36,700	33.2	284.6	13,500	32,900	265
270					21.9	252.5	17,400	35,400	30.7	276.3	12,600	31,800	270
280					12.6	218.6	15,300	33,100	24.9	256.7	10,900	29,600	280
290									17.2	229.7		27,600	290

MLC300 VPC-MAX S-1

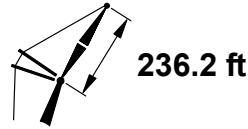
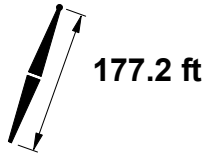
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
95	72.8	409.8	114,900	114,900									95
100	71.6	408.2	112,100	112,100									100
105	70.3	406.4	109,500	109,500	71.9	407.8	113,000	113,000					105
110	69.0	404.4	107,000	107,000	70.6	406.1	110,400	110,400					110
115	67.7	402.4	104,600	104,600	69.3	404.2	107,900	107,900					115
120	66.3	400.2	102,400	102,400	68.0	402.2	105,600	105,600					120
125	65.0	397.9	100,200	100,200	66.7	400.0	103,400	103,400					125
130	63.6	395.4	98,200	98,200	65.3	397.7	99,300	101,200	67.8	400.4	93,500	105,300	130
135	62.3	392.7	96,300	96,300	64.0	395.3	94,300	99,200	66.5	398.2	88,700	103,200	135
140	60.9	390.0	93,000	94,500	62.6	392.7	89,700	97,200	65.1	395.8	84,300	101,100	140
145	59.5	387.0	88,700	92,800	61.2	389.9	85,500	95,500	63.8	393.4	80,100	99,200	145
150	58.1	383.9	84,600	90,900	59.8	387.0	81,600	93,700	62.4	390.8	76,300	97,300	150
155	56.6	380.6	80,800	86,400	58.4	383.9	77,900	92,100	61.0	388.0	72,700	95,600	155
160	55.1	377.1	77,300	82,200	57.0	380.7	74,500	87,700	59.6	385.1	69,300	92,800	160
165	53.6	373.5	74,000	78,200	55.5	377.3	71,300	83,400	58.2	382.0	66,200	89,000	165
170	52.1	369.6	70,900	74,500	54.0	373.6	68,300	79,300	56.7	378.7	63,200	85,400	170
175	50.5	365.5	68,000	71,000	52.5	369.8	65,400	75,500	55.3	375.2	60,400	82,100	175
180	48.9	361.1	65,300	67,700	50.9	365.8	62,600	71,900	53.8	371.6	57,800	78,800	180
185	47.3	356.5	62,700	64,600	49.3	361.5	60,000	68,500	52.2	367.7	55,300	75,000	185
190	45.6	351.7	60,300	61,700	47.7	356.9	57,500	65,400	50.7	363.6	52,900	71,500	190
195	43.8	346.5	58,000	58,900	46.0	352.1	55,200	62,400	49.0	359.3	50,700	68,100	195
200	42.0	341.0	55,800	56,300	44.2	347.0	52,900	59,600	47.4	354.7	48,600	65,000	200
205	40.1	335.1	53,600	53,800	42.5	341.6	50,800	57,000	45.7	349.9	46,600	62,100	205
210	38.2	328.8	51,500	51,500	40.6	335.8	48,700	54,500	44.0	344.7	44,600	59,300	210
215	36.2	322.0	49,200	49,200	38.7	329.6	46,800	52,100	42.2	339.2	42,800	56,700	215
220	34.0	314.7	47,100	47,100	36.7	323.0	44,900	49,800	40.3	333.4	41,000	54,200	220
225	31.7	306.8	45,100	45,100	34.5	315.8	43,200	47,700	38.4	327.2	39,400	51,800	225
230	29.3	298.1	43,100	43,100	32.3	308.0	41,500	45,600	36.3	320.4	37,700	49,600	230
235	26.7	288.4	41,000	41,000	29.9	299.5	39,800	43,600	34.2	313.2	36,200	47,500	235
240	23.7	277.4	38,600	38,600	27.3	290.1	38,300	41,800	31.9	305.3	34,700	45,400	240
245	20.4	264.6	36,300	36,300	24.5	279.5	36,700	39,600	29.5	296.7	33,300	43,500	245
250	16.4	249.0	34,000	34,000	21.2	267.2	35,300	37,200	26.9	287.1	31,900	41,600	250
255	11.0	227.4	28,600	28,600	17.5	252.4	33,800	34,900	24.0	276.2	30,600	39,700	255
260					12.5	232.8	31,600	31,600	20.7	263.6	29,300	37,300	260
265					1.7	188.4	24,100	24,100	16.8	248.3	28,000	35,100	265
270									11.6	227.5	26,800	32,800	270
280													280
290													290
300													300
310													310

MLC300 VPC-MAX S-1

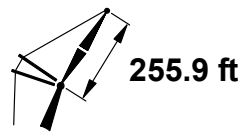
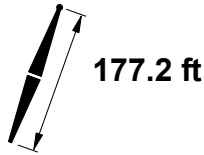
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160	63.8	389.9	60,300	85,800									160
165	62.4	387.3	57,400	82,200									165
170	61.1	384.6	54,800	78,900									170
175	59.7	381.6	52,200	75,700									175
180	58.2	378.5	49,800	72,800									180
185	56.8	375.3	47,500	70,000									185
190	55.3	371.8	45,400	67,400									190
195	53.8	368.2	43,400	64,900	58.2	373.6	36,200	59,300					195
200	52.3	364.3	41,400	62,500	56.7	370.3	34,400	57,100					200
205	50.7	360.2	39,600	60,300	55.3	366.8	32,800	55,000					205
210	49.1	355.9	37,800	58,100	53.7	363.2	31,200	53,000					210
215	47.5	351.3	36,200	56,100	52.2	359.3	29,700	51,100					215
220	45.8	346.5	34,600	54,200	50.6	355.2	28,200	49,300					220
225	44.0	341.4	33,100	52,400	49.0	350.9	26,900	47,600	53.5	356.5	20,800	42,900	225
230	42.2	335.9	31,600	50,600	47.4	346.3	25,500	45,900	52.0	352.6	19,700	41,400	230
235	40.4	330.1	30,200	48,900	45.7	341.5	24,300	44,400	50.4	348.5	18,500	39,900	235
240	38.4	323.8	28,900	47,300	44.0	336.3	23,100	42,900	48.8	344.2	17,500	38,500	240
245	36.4	317.1	27,600	45,800	42.2	330.8	21,900	41,400	47.2	339.6	16,400	37,200	245
250	34.3	309.9	26,300	44,300	40.3	325.0	20,800	40,000	45.5	334.7	15,400	35,900	250
255	32.0	302.0	25,100	42,800	38.4	318.7	19,700	38,700	43.7	329.5	14,400	34,600	255
260	29.6	293.4	24,000	41,500	36.3	312.0	18,700	37,400	41.9	323.9	13,500	33,500	260
265	27.0	283.9	22,800	40,100	34.2	304.8	17,700	36,200	40.1	318.0	12,600	32,300	265
270	24.1	273.1	21,700	38,900	31.9	296.9	16,700	35,000	38.1	311.7	11,800	31,200	270
280	17.0	245.4	19,600	35,800	26.9	278.6	14,800	32,700	33.9	297.6	10,100	29,100	280
290					20.7	255.2	13,100	30,600	29.2	280.9		27,100	290
300					11.6	219.0	11,300	28,500	23.6	260.1		25,300	300
310									16.2	231.4		23,500	310

MLC300 VPC-MAX S-1

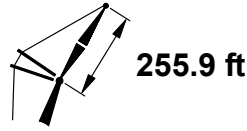
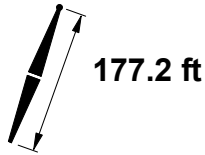
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
100	73.0	428.9	98,100	98,100									100
105	71.9	427.3	97,700	97,700									105
110	70.7	425.5	97,200	97,200									110
115	69.5	423.6	96,700	96,700	71.0	425.2	95,800	95,800					115
120	68.3	421.6	95,200	95,200	69.8	423.4	95,500	95,500					120
125	67.1	419.5	93,400	93,400	68.6	421.4	95,100	95,100					125
130	65.8	417.3	91,700	91,700	67.3	419.3	94,200	94,200					130
135	64.6	414.9	90,200	90,200	66.1	417.1	92,600	92,600	68.4	419.6	87,100	91,500	135
140	63.3	412.4	88,700	88,700	64.9	414.7	88,700	91,000	67.2	417.5	82,700	91,400	140
145	62.1	409.7	87,200	87,200	63.6	412.3	84,500	89,500	65.9	415.2	78,600	91,300	145
150	60.8	406.9	83,700	85,900	62.4	409.6	80,500	88,000	64.7	412.9	74,700	90,900	150
155	59.5	404.0	79,900	82,400	61.1	406.9	76,900	86,700	63.4	410.4	71,200	89,600	155
160	58.2	400.9	76,400	78,200	59.8	404.0	73,400	84,100	62.2	407.7	67,800	88,100	160
165	56.8	397.6	73,100	74,200	58.5	400.9	70,100	79,800	60.9	405.0	64,700	86,900	165
170	55.5	394.2	70,000	70,300	57.2	397.7	67,000	75,800	59.6	402.0	61,700	84,100	170
175	54.1	390.6	66,700	66,700	55.8	394.3	64,000	71,900	58.3	398.9	58,900	79,900	175
180	52.7	386.8	63,200	63,200	54.4	390.7	61,300	68,100	56.9	395.7	56,300	75,900	180
185	51.2	382.8	59,900	59,900	53.0	387.0	58,600	64,500	55.6	392.3	53,800	71,900	185
190	49.8	378.5	56,700	56,700	51.6	383.0	56,200	61,100	54.2	388.7	51,500	68,200	190
195	48.3	374.1	53,500	53,500	50.1	378.8	53,800	57,800	52.8	384.9	49,300	64,600	195
200	46.8	369.4	50,200	50,200	48.6	374.5	51,600	54,700	51.4	380.9	47,200	61,200	200
205	45.2	364.5	47,100	47,100	47.1	369.8	49,500	51,700	49.9	376.7	45,100	57,900	205
210	43.6	359.3	44,000	44,000	45.6	365.0	47,400	48,400	48.4	372.3	43,200	54,800	210
215	41.9	353.7	41,100	41,100	44.0	359.8	45,300	45,300	46.9	367.6	41,400	51,700	215
220	40.2	347.8	38,300	38,300	42.3	354.4	42,400	42,400	45.3	362.7	39,700	48,700	220
225	38.4	341.6	35,600	35,600	40.6	348.6	39,400	39,400	43.7	357.5	38,000	45,500	225
230	36.5	334.9	33,000	33,000	38.8	342.4	36,700	36,700	42.0	352.0	36,400	42,500	230
235	34.5	327.7	30,600	30,600	37.0	335.8	34,000	34,000	40.3	346.2	34,900	39,600	235
240	32.5	320.0	28,100	28,100	35.0	328.8	31,500	31,500	38.5	339.9	33,400	36,900	240
245	30.3	311.6	25,900	25,900	33.0	321.2	29,000	29,000	36.7	333.3	32,000	34,200	245
250	27.9	302.4	23,600	23,600	30.8	312.9	26,700	26,700	34.7	326.2	30,600	31,700	250
255	25.4	292.1	21,400	21,400	28.5	303.9	24,400	24,400	32.7	318.5	29,200	29,200	255
260	22.6	280.6	19,200	19,200	26.0	294.0	22,200	22,200	30.5	310.1	26,900	26,900	260
265	19.3	267.1	17,000	17,000	23.3	282.8	20,000	20,000	28.2	301.0	24,600	24,600	265
270	15.5	250.5	14,800	14,800	20.2	269.8	17,800	17,800	25.6	290.9	22,300	22,300	270
280					11.7	233.2	13,500	13,500	19.6	266.1	18,000	18,000	280
290									10.7	227.6	13,700	13,700	290
300													300
310													310
320													320
330													330

MLC300 VPC-MAX S-1

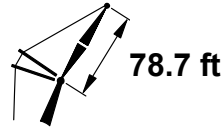
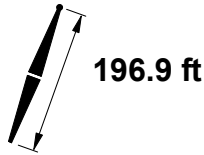
ASME B30.5



ft	75°				70°				65°				ft	
	ft	°	ft	lb	ft	°	ft	lb	ft	°	ft	lb		lb
100														100
105														105
110														110
115														115
120														120
125														125
130														130
135														135
140														140
145														145
150														150
155														155
160														160
165														165
170	63.5	406.9	53,100	77,600										170
175	62.2	404.3	50,500	74,500										175
180	60.9	401.5	48,200	71,600										180
185	59.6	398.6	45,900	68,800										185
190	58.3	395.5	43,800	66,200										190
195	57.0	392.3	41,800	63,700										195
200	55.6	388.8	39,800	61,400										200
205	54.3	385.3	38,000	59,100	58.3	390.5	31,000	53,700						205
210	52.9	381.5	36,300	57,000	56.9	387.3	29,500	51,800						210
215	51.4	377.5	34,600	55,000	55.6	383.9	28,000	49,900						215
220	50.0	373.3	33,100	53,100	54.2	380.3	26,600	48,100						220
225	48.5	368.9	31,500	51,300	52.8	376.5	25,200	46,400						225
230	46.9	364.2	30,100	49,500	51.4	372.5	23,900	44,700						230
235	45.4	359.3	28,700	47,800	49.9	368.3	22,700	43,200						235
240	43.8	354.1	27,400	46,200	48.4	363.9	21,500	41,700	52.6	369.8	15,700	37,300		240
245	42.1	348.7	26,100	43,500	46.9	359.2	20,300	40,200	51.2	365.8	14,700	35,900		245
250	40.4	342.8	24,900	40,600	45.3	354.3	19,200	38,900	49.7	361.6	13,700	34,600		250
255	38.6	336.6	23,700	37,800	43.7	349.1	18,200	37,600	48.2	357.1	12,800	33,400		255
260	36.7	330.0	22,600	35,100	42.0	343.6	17,100	36,300	46.7	352.4	11,800	32,200		260
265	34.8	322.9	21,500	32,600	40.3	337.7	16,100	35,100	45.1	347.5	11,000	31,100		265
270	32.7	315.2	20,400	30,000	38.5	331.5	15,200	33,900	43.5	342.2	10,100	30,000		270
280	28.2	297.8	18,400	25,300	34.7	317.7	13,400	31,700	40.1	330.8		27,900		280
290	22.9	276.3	16,500	21,000	30.5	301.7	11,700	28,200	36.4	317.8		26,000		290
300	16.0	247.0	14,600	16,600	25.6	282.4	10,100	23,700	32.4	302.9		24,200		300
310					19.6	257.7		19,300	27.8	285.2		22,500		310
320					10.7	219.1		15,100	22.4	263.2		20,900		320
330									15.2	232.8		17,600		330

MLC300 VPC-MAX S-1

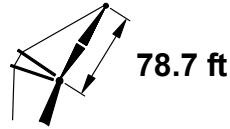
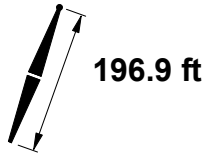
ASME B30.5



ft	85°				83°				80°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
50	73.0	279.1	302,200 d	302,200 d									50
55	69.1	277.1	290,800 c	290,800 c									55
60	65.1	274.8	268,200 c	268,200 c	70.6	277.1	284,200 d	305,100 d					60
65	61.0	272.0	242,200 b	242,200 b	66.7	274.9	259,100 c	291,800 c					65
70	56.6	268.8	221,300 b	221,300 b	62.6	272.4	236,100 b	276,500 b					70
75	52.0	264.9	204,000	204,000	58.3	269.3	216,500 b	249,500 b	66.9	273.4	207,600 c	260,400 c	75
80	47.1	260.3	189,600	189,600	53.8	265.6	199,700	228,000	62.8	270.9	191,500 b	240,400 b	80
85	41.7	254.8	177,600	177,600	49.0	261.3	185,200	210,400	58.5	267.8	177,500 b	223,200 b	85
90	35.6	248.1	167,600	167,600	43.8	256.2	172,500	195,800	54.0	264.2	165,400	208,100	90
95	28.3	239.4	159,600	159,600	38.0	250.0	161,200	183,600	49.2	259.9	154,600	194,800	95
100	18.2	226.5	154,100	154,100	31.2	242.2	151,200	173,500	44.1	254.9	145,100	182,900	100
105					22.6	231.4	142,100	165,800	38.3	248.7	136,500	172,300	105
110									31.6	241.0	128,700	162,800	110
115									23.1	230.4	121,600	154,000	115
120									6.6	208.3	114,800	145,700	120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165

MLC300 VPC-MAX S-1

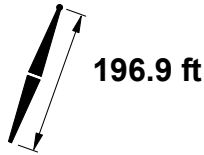
ASME B30.5



ft	75°				70°				65°				ft	
	ft	°	ft	lb	ft	°	ft	lb	ft	°	ft	lb		lb
50														50
55														55
60														60
65														65
70														70
75														75
80														80
85														85
90														90
95														95
100														100
105	60.1	265.1	134,600 b	172,500 b										105
110	55.7	261.7	126,700 b	162,600 b										110
115	51.1	257.7	119,500	153,600										115
120	46.0	252.9	113,100	145,500										120
125	40.5	247.2	107,100	138,100	57.0	257.4	98,500 b	129,800 b						125
130	34.2	240.2	101,700	131,300	52.4	253.5	93,600	123,400						130
135	26.6	230.9	96,700	125,000	47.5	249.0	89,100	117,600						135
140	15.3	216.3	91,900	119,000	42.2	243.6	84,900	112,200						140
145					36.2	237.0	80,900	107,200	53.3	247.5	72,400	100,500		145
150					29.0	228.5	77,200	102,600	48.5	243.1	69,100	96,200		150
155					19.3	216.2	73,600	98,100	43.2	237.9	66,000	92,200		155
160									37.3	231.6	63,000	88,400		160
165									30.4	223.5	60,200	84,800		165
									21.4	212.2	57,500	81,400		165

MLC300 VPC-MAX S-1

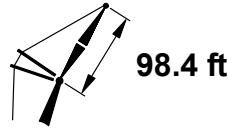
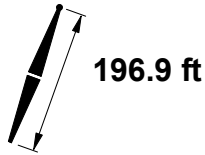
ASME B30.5



ft	85°				83°				80°				ft
	ft	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft		
55	73.5	298.1	251,600 c	251,600 c									55
60	70.4	296.3	248,100 c	248,100 c									60
65	67.2	294.2	245,000 b	245,000 b	71.6	296.3	250,200 c	250,200 c					65
70	64.0	291.8	225,400 b	225,400 b	68.4	294.3	235,100 b	247,400 b					70
75	60.7	289.0	206,600	206,600	65.2	292.0	215,500 b	241,300 b					75
80	57.2	285.8	190,900	190,900	61.9	289.3	198,800	229,200	68.6	292.7	190,200 b	239,200 b	80
85	53.6	282.1	177,600	177,600	58.5	286.2	184,300	216,900	65.4	290.4	176,400 b	222,000 b	85
90	49.8	277.9	166,300	166,300	55.0	282.8	171,700	200,100	62.1	287.8	164,300	207,000	90
95	45.8	273.1	156,600	156,600	51.3	278.8	160,600	186,100	58.7	284.8	153,600	193,800	95
100	41.4	267.6	148,300	148,300	47.3	274.2	150,700	174,100	55.2	281.3	144,100	182,000	100
105	36.6	261.0	141,200	141,200	43.1	269.0	141,800	164,000	51.5	277.4	135,700	171,500	105
110	31.2	253.1	135,200	135,200	38.5	262.8	133,800	155,300	47.5	272.8	128,000	162,100	110
115	24.6	242.9	130,100	130,600	33.3	255.5	126,600	147,900	43.3	267.6	121,100	153,500	115
120	15.3	227.8	123,200	126,400	27.2	246.3	120,000	141,800	38.7	261.5	114,800	145,700	120
125					19.4	233.7	113,800	137,300	33.6	254.2	109,000	138,600	125
130									27.6	245.2	103,700	132,000	130
135									19.8	232.9	98,700	125,900	135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185

MLC300 VPC-MAX S-1

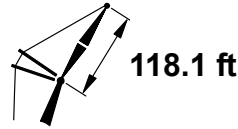
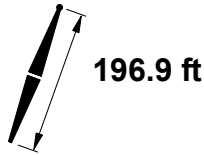
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110	63.3	284.9	125,400	161,300									110
115	60.0	282.0	118,300	152,400									115
120	56.5	278.7	111,900	144,300									120
125	52.9	275.0	106,100	137,000									125
130	49.0	270.7	100,800	130,300									130
135	44.9	265.7	95,900	124,200	57.5	274.4	87,300	116,300					135
140	40.5	260.0	91,400	118,500	53.9	270.7	83,100	111,000					140
145	35.6	253.2	87,200	113,300	50.1	266.6	79,300	106,100					145
150	30.0	244.9	83,300	108,400	46.1	261.8	75,800	101,500					150
155	23.0	234.1	79,600	103,800	41.8	256.4	72,400	97,300					155
160	12.5	216.8	76,000	99,400	37.1	249.9	69,300	93,400	50.9	260.6	61,300	87,100	160
165					31.7	242.1	66,300	89,600	46.9	256.0	58,700	83,700	165
170					25.2	232.2	63,500	86,100	42.6	250.6	56,200	80,400	170
175					16.3	217.8	60,700	82,700	38.0	244.4	53,800	77,400	175
180									32.7	236.9	51,500	74,500	180
185									26.5	227.5	49,400	71,700	185
									18.3	214.3	47,200	69,100	185

MLC300 VPC-MAX S-1

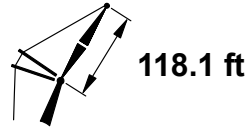
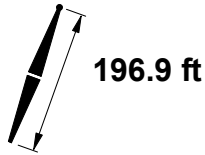
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
60	73.8	317.2	241,400 b	241,400 b									60
65	71.2	315.5	234,200 b	234,200 b									65
70	68.6	313.5	226,900	226,900									70
75	66.0	311.3	207,700	207,700	69.6	313.5	213,100	238,500					75
80	63.3	308.8	191,300	191,300	67.0	311.4	196,400	230,000					80
85	60.5	305.9	177,600	177,600	64.3	309.0	182,000	221,600					85
90	57.6	302.8	165,900	165,900	61.5	306.2	169,400	204,000	67.1	309.8	161,600	204,400	90
95	54.6	299.2	155,800	155,800	58.7	303.2	158,300	188,900	64.4	307.4	151,000	191,200	95
100	51.5	295.3	146,900	146,900	55.8	299.8	148,500	176,200	61.7	304.8	141,600	179,500	100
105	48.3	290.9	139,200	139,200	52.7	296.0	139,700	165,300	58.8	301.7	133,200	169,100	105
110	44.9	285.9	132,300	132,300	49.5	291.8	131,800	155,800	55.9	298.4	125,600	159,700	110
115	41.2	280.3	126,300	126,300	46.2	287.1	124,600	147,400	52.9	294.6	118,800	151,200	115
120	37.3	273.9	121,200	121,200	42.6	281.7	118,100	140,100	49.7	290.4	112,600	143,500	120
125	32.9	266.4	115,600	116,700	38.8	275.6	112,100	133,700	46.4	285.7	106,900	136,400	125
130	27.9	257.4	110,000	113,000	34.6	268.6	106,700	128,200	42.8	280.4	101,600	129,900	130
135	21.8	245.9	104,700	110,200	29.9	260.2	101,600	123,500	39.0	274.3	96,800	124,000	135
140	13.1	228.6	98,200	98,200	24.3	249.8	96,900	118,800	34.8	267.3	92,400	118,500	140
145					17.0	235.5	92,500	109,100	30.2	259.0	88,200	113,300	145
150									24.6	248.8	84,300	108,600	150
155									17.4	234.8	80,700	104,000	155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205

MLC300 VPC-MAX S-1

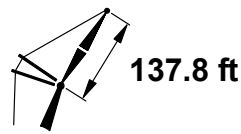
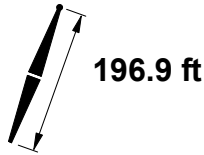
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	62.7	301.9	109,100	141,500									115
120	59.9	299.0	103,300	134,200									120
125	57.0	295.7	98,100	127,600									125
130	54.0	292.1	93,200	121,500									130
135	50.9	288.1	88,800	116,000									135
140	47.6	283.6	84,700	110,800	57.9	291.3	75,300	103,200					140
145	44.2	278.5	80,900	106,000	54.9	287.8	71,900	98,700					145
150	40.5	272.7	77,300	101,600	51.8	283.9	68,600	94,500					150
155	36.4	266.1	74,000	97,400	48.6	279.6	65,600	90,700					155
160	32.0	258.4	70,900	93,500	45.2	274.6	62,700	87,000					160
165	26.8	249.0	68,000	89,800	41.6	269.1	60,100	83,600	52.4	277.9	52,200	77,500	165
170	20.4	236.7	65,100	86,400	37.7	262.8	57,500	80,400	49.2	273.6	49,900	74,500	170
175	10.4	216.7	62,300	83,000	33.3	255.4	55,100	77,400	45.8	268.8	47,800	71,700	175
180					28.4	246.5	52,800	74,500	42.3	263.4	45,700	69,100	180
185					22.4	235.3	50,600	71,800	38.4	257.2	43,800	66,500	185
190					14.1	218.9	48,400	69,200	34.2	250.0	41,900	64,200	190
195									29.4	241.5	40,200	61,900	195
200									23.7	230.8	38,400	59,700	200
205									16.0	215.9	36,700	57,600	205

MLC300 VPC-MAX S-1

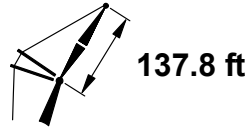
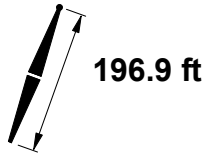
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
70	71.8	334.6	205,900	205,900									70
75	69.6	332.7	194,200	194,200									75
80	67.4	330.6	183,100	183,100	70.4	332.7	195,300	199,400					80
85	65.1	328.3	172,600	172,600	68.2	330.7	180,900	188,300					85
90	62.7	325.7	162,700	162,700	65.9	328.4	168,400	177,600					90
95	60.3	322.9	153,500	153,500	63.6	325.9	157,300	167,500	68.3	329.1	149,800	189,000	95
100	57.9	319.8	144,900	144,900	61.2	323.2	147,500	158,000	66.0	326.9	140,400	178,300	100
105	55.3	316.3	136,900	136,900	58.8	320.2	138,700	149,200	63.7	324.4	132,100	167,900	105
110	52.7	312.5	129,600	129,600	56.3	316.9	130,900	140,900	61.4	321.7	124,500	158,600	110
115	50.0	308.4	122,700	122,700	53.7	313.2	123,700	133,200	58.9	318.7	117,700	150,100	115
120	47.2	303.8	116,300	116,300	51.1	309.2	117,200	126,100	56.4	315.4	111,500	142,400	120
125	44.3	298.7	110,400	110,400	48.3	304.8	111,300	119,400	53.9	311.8	105,800	134,700	125
130	41.1	293.0	104,800	104,800	45.4	299.9	105,900	113,300	51.2	307.8	100,700	127,500	130
135	37.8	286.7	99,700	99,700	42.3	294.4	100,900	107,500	48.4	303.4	95,900	120,800	135
140	34.1	279.5	94,900	94,900	39.0	288.4	96,300	102,200	45.5	298.5	91,500	114,500	140
145	30.1	271.1	90,400	90,400	35.5	281.5	92,000	97,200	42.5	293.1	87,400	108,700	145
150	25.4	261.1	86,300	86,300	31.6	273.6	88,000	92,600	39.2	287.1	83,600	103,300	150
155	19.7	248.4	82,400	82,400	27.2	264.3	84,300	88,300	35.7	280.3	80,000	98,300	155
160	11.3	228.8	79,000	79,000	22.0	252.8	80,800	84,300	31.8	272.4	76,700	93,500	160
165					15.1	236.8	77,400	80,700	27.5	263.2	73,600	89,100	165
170									22.3	251.8	70,600	85,100	170
175									15.5	236.2	67,800	81,400	175
180													180
185													185
190													190
195													195
200													200
205													205
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225													225

MLC300 VPC-MAX S-1

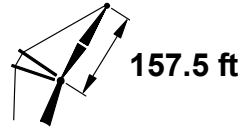
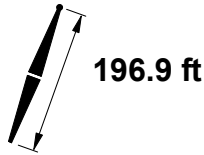
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	62.2	318.8	96,600	126,300									125
130	59.8	315.9	91,900	120,300									130
135	57.4	312.7	87,500	114,700									135
140	54.8	309.2	83,400	109,600									140
145	52.2	305.4	79,600	104,900									145
150	49.5	301.1	76,100	100,500	58.1	308.3	66,800	93,200					150
155	46.6	296.4	72,700	96,300	55.6	304.9	63,800	89,300					155
160	43.6	291.2	69,600	92,500	53.0	301.1	61,000	85,800					160
165	40.5	285.5	66,700	88,900	50.3	297.0	58,400	82,400					165
170	37.0	279.0	63,900	85,500	47.5	292.5	55,900	79,200					170
175	33.3	271.6	61,300	82,300	44.5	287.4	53,500	76,300	53.5	295.1	45,900	70,300	175
180	29.2	262.9	58,800	79,300	41.4	281.8	51,300	73,500	50.8	291.0	43,900	67,700	180
185	24.4	252.5	56,500	76,500	38.1	275.6	49,200	70,800	48.0	286.5	42,000	65,300	185
190	18.3	238.9	54,200	73,700	34.4	268.4	47,200	68,300	45.1	281.6	40,200	62,900	190
195	8.5	215.8	51,800	71,000	30.4	260.2	45,300	65,900	42.0	276.1	38,600	60,700	195
200					25.8	250.4	43,400	63,700	38.7	270.0	36,900	58,600	200
205					20.3	237.9	41,600	61,500	35.1	263.0	35,400	56,600	205
210					12.3	219.4	39,800	59,300	31.2	255.0	33,900	54,700	210
215									26.7	245.5	32,400	52,900	215
220									21.4	233.7	31,000	51,100	220
225									14.1	216.9	29,600	49,300	225

MLC300 VPC-MAX S-1

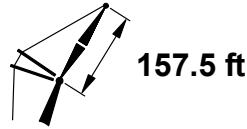
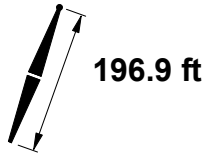
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
75	72.3	353.7	190,100	190,100									75
80	70.3	351.9	187,200	187,200									80
85	68.4	349.9	181,500	181,500	71.1	351.8	178,400	189,600					85
90	66.4	347.7	168,100	168,100	69.1	349.9	165,800	187,900					90
95	64.4	345.3	156,800	156,800	67.1	347.8	154,800	185,600					95
100	62.3	342.7	147,100	147,100	65.1	345.5	145,000	179,900					100
105	60.2	339.8	138,500	138,500	63.1	342.9	136,300	172,100	67.2	346.3	129,300	165,200	105
110	58.1	336.7	131,100	131,100	61.0	340.2	128,400	160,700	65.2	343.9	121,800	155,900	110
115	55.9	333.4	124,400	124,400	58.9	337.1	121,300	150,800	63.2	341.4	115,000	147,400	115
120	53.6	329.7	118,500	118,500	56.7	333.9	114,800	142,300	61.1	338.7	108,900	139,800	120
125	51.3	325.7	112,800	113,100	54.5	330.3	109,000	134,800	59.0	335.7	103,200	132,800	125
130	48.9	321.4	107,200	108,400	52.2	326.4	103,500	128,100	56.8	332.4	98,100	126,400	130
135	46.4	316.6	102,100	104,100	49.8	322.2	98,600	122,300	54.6	328.9	93,400	120,500	135
140	43.8	311.5	97,300	100,300	47.3	317.7	94,000	117,000	52.3	325.0	89,000	115,100	140
145	41.0	305.8	93,000	96,800	44.8	312.7	89,700	111,200	49.9	320.8	84,900	110,000	145
150	38.1	299.5	88,900	93,700	42.1	307.2	85,800	105,400	47.5	316.3	81,200	105,400	150
155	35.0	292.5	85,100	91,000	39.2	301.1	82,100	99,900	44.9	311.3	77,600	101,000	155
160	31.6	284.6	81,500	88,500	36.2	294.4	78,700	94,900	42.2	305.8	74,400	96,900	160
165	27.8	275.4	78,200	84,200	32.9	286.9	75,400	90,300	39.4	299.8	71,300	93,100	165
170	23.4	264.5	75,000	80,200	29.2	278.2	72,400	85,900	36.3	293.2	68,400	89,600	170
175	18.0	250.4	72,000	74,600	25.1	268.0	69,500	81,800	33.0	285.6	65,700	86,200	175
180	9.8	228.5	62,700	62,700	20.2	255.4	66,800	78,000	29.4	277.1	63,100	83,000	180
185					13.5	237.7	64,200	70,100	25.3	267.0	60,700	80,000	185
190									20.4	254.5	58,300	77,100	190
195									13.9	237.2	56,000	74,400	195
200													200
205													205
210													210
215													215
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MLC300 VPC-MAX S-1

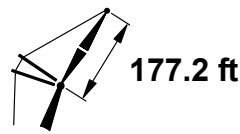
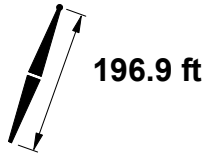
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	64.0	338.5	87,900	117,400									130
135	61.9	335.8	83,500	111,900									135
140	59.8	332.9	79,500	106,800									140
145	57.6	329.7	75,800	102,100									145
150	55.4	326.3	72,300	97,700									150
155	53.2	322.6	69,000	93,600									155
160	50.8	318.5	65,900	89,800	58.3	325.3	56,900	82,800					160
165	48.4	314.1	63,100	86,200	56.1	321.9	54,300	79,500					165
170	45.9	309.3	60,400	82,900	53.8	318.3	51,900	76,300					170
175	43.2	304.0	57,800	79,800	51.5	314.3	49,600	73,400					175
180	40.4	298.2	55,400	76,800	49.1	310.0	47,500	70,600					180
185	37.5	291.8	53,100	74,000	46.6	305.3	45,400	68,000					185
190	34.3	284.6	50,900	71,400	44.0	300.2	43,500	65,600	51.9	308.3	36,200	59,900	190
195	30.8	276.5	48,800	68,800	41.3	294.6	41,600	63,200	49.6	304.1	34,500	57,800	195
200	26.9	267.0	46,900	66,400	38.4	288.4	39,900	61,000	47.1	299.4	33,000	55,700	200
205	22.4	255.6	44,900	64,100	35.2	281.4	38,200	58,900	44.5	294.4	31,500	53,700	205
210	16.6	240.6	43,100	61,900	31.9	273.6	36,500	56,900	41.8	288.9	30,000	51,900	210
215	6.9	214.2	41,100	59,700	28.1	264.5	35,000	55,000	38.9	282.8	28,700	50,100	215
220					23.8	253.8	33,500	53,100	35.8	276.0	27,400	48,400	220
225					18.5	240.1	32,000	51,300	32.5	268.3	26,100	46,800	225
230					10.8	219.4	30,500	49,500	28.8	259.5	24,900	45,200	230
235									24.6	249.1	23,700	43,700	235
240									19.6	236.2	22,500	42,200	240
245									12.6	217.6	21,300	40,800	245

MLC300 VPC-MAX S-1

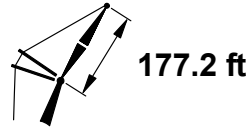
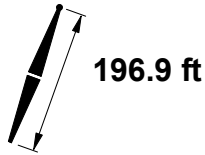
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
80	72.6	372.8	160,100	160,100									80
85	70.9	371.0	150,700	150,700									85
90	69.2	369.1	141,700	141,700	71.5	370.9	154,500	154,500					90
95	67.4	367.1	133,100	133,100	69.8	369.1	145,500	145,500					95
100	65.6	364.8	125,100	125,100	68.1	367.1	136,900	136,900					100
105	63.8	362.3	117,700	117,700	66.3	364.9	128,700	128,700					105
110	62.0	359.7	110,600	110,600	64.5	362.5	121,000	121,000	68.2	365.5	120,600	137,300	110
115	60.1	356.8	104,100	104,100	62.7	359.9	113,800	113,800	66.4	363.3	113,900	129,400	115
120	58.2	353.7	98,000	98,000	60.8	357.1	107,000	107,000	64.6	361.0	107,700	121,800	120
125	56.3	350.4	92,400	92,400	59.0	354.1	100,800	100,800	62.8	358.4	102,100	114,600	125
130	54.3	346.8	87,100	87,100	57.0	350.9	94,900	94,900	60.9	355.6	97,000	107,900	130
135	52.3	342.9	82,100	82,100	55.1	347.4	89,500	89,500	59.1	352.6	92,300	101,600	135
140	50.2	338.8	77,500	77,500	53.0	343.6	84,400	84,400	57.1	349.4	87,900	95,700	140
145	48.0	334.3	73,200	73,200	51.0	339.6	79,600	79,600	55.2	345.9	83,900	90,200	145
150	45.7	329.5	69,100	69,100	48.8	335.2	75,100	75,100	53.1	342.2	80,100	85,000	150
155	43.4	324.2	65,300	65,300	46.6	330.5	70,900	70,900	51.1	338.2	76,700	80,200	155
160	40.9	318.5	61,700	61,700	44.3	325.5	67,000	67,000	48.9	333.8	73,400	75,700	160
165	38.4	312.3	58,300	58,300	41.9	319.9	63,300	63,300	46.7	329.1	70,300	71,500	165
170	35.6	305.4	55,100	55,100	39.3	313.9	59,800	59,800	44.4	324.1	67,500	67,500	170
175	32.7	297.8	52,100	52,100	36.7	307.3	56,500	56,500	42.0	318.6	63,800	63,800	175
180	29.4	289.2	49,300	49,300	33.8	300.0	53,500	53,500	39.5	312.6	60,300	60,300	180
185	25.8	279.3	46,600	46,600	30.7	291.8	50,500	50,500	36.8	306.0	57,000	57,000	185
190	21.7	267.4	44,000	44,000	27.3	282.4	47,800	47,800	34.0	298.7	53,900	53,900	190
195	16.5	252.2	41,700	41,700	23.3	271.3	45,200	45,200	30.9	290.6	51,000	51,000	195
200	8.4	227.6	39,400	39,400	18.6	257.6	42,700	42,700	27.4	281.2	48,200	48,200	200
205					12.1	238.3	40,400	40,400	23.5	270.3	45,600	45,600	205
210									18.9	256.8	43,100	43,100	210
215									12.6	237.9	40,800	40,800	215
220													220
225													225
230													230
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MLC300 VPC-MAX S-1

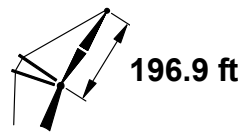
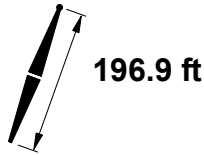
ASME B30.5



ft	75°				70°				65°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	63.5	355.4	77,700	105,500									140
145	61.6	352.7	74,000	100,800									145
150	59.8	349.8	70,600	96,500									150
155	57.8	346.7	67,300	92,400									155
160	55.9	343.3	64,300	88,600									160
165	53.9	339.7	61,500	85,100									165
170	51.8	335.8	58,800	81,800	58.4	342.3	50,100	75,000					170
175	49.7	331.6	56,300	77,800	56.5	339.0	47,900	72,100					175
180	47.5	327.0	53,900	73,500	54.5	335.4	45,700	69,400					180
185	45.3	322.1	51,600	69,400	52.4	331.6	43,700	66,800					185
190	42.9	316.8	49,500	65,600	50.3	327.4	41,800	64,400					190
195	40.4	311.0	47,500	62,000	48.2	323.0	40,000	62,100					195
200	37.8	304.6	45,500	58,600	45.9	318.2	38,300	59,900	52.8	325.5	31,100	54,400	200
205	35.0	297.6	43,700	55,400	43.6	313.0	36,600	57,800	50.7	321.4	29,700	52,400	205
210	32.0	289.8	41,900	52,400	41.2	307.3	35,000	55,800	48.6	317.0	28,300	50,600	210
215	28.7	280.9	40,200	49,600	38.6	301.1	33,500	53,900	46.4	312.3	27,000	48,900	215
220	25.1	270.7	38,600	46,900	35.9	294.3	32,100	52,100	44.0	307.2	25,700	47,200	220
225	20.7	258.3	37,000	44,300	32.9	286.8	30,700	50,400	41.6	301.6	24,500	45,600	225
230	15.2	242.0	35,500	42,000	29.7	278.3	29,400	48,700	39.1	295.5	23,300	44,100	230
235	5.2	211.5	33,800	39,800	26.2	268.5	28,100	47,100	36.4	288.8	22,200	42,600	235
240					22.1	256.8	26,800	45,400	33.5	281.4	21,100	41,200	240
245					17.0	242.0	25,600	43,000	30.3	273.1	20,000	39,800	245
250					9.4	219.0	24,300	40,700	26.9	263.6	19,000	38,500	250
255									22.9	252.3	18,000	37,300	255
260									18.1	238.3	17,000	36,000	260
265									11.2	217.8	16,000	34,800	265

MLC300 VPC-MAX S-1

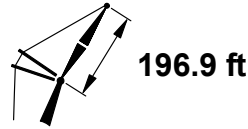
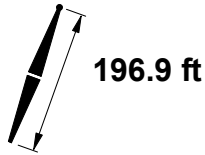
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
85	72.9	391.9	144,100	144,100									85
90	71.3	390.2	144,100	144,100									90
95	69.8	388.3	143,900	143,900	71.9	390.0	142,500	142,500					95
100	68.2	386.3	143,600	143,600	70.4	388.2	141,200	142,500					100
105	66.6	384.2	137,400	140,800	68.8	386.3	132,500	142,500					105
110	65.0	381.8	129,300	132,600	67.2	384.2	124,600	142,500					110
115	63.4	379.3	122,000	125,300	65.6	381.9	117,600	142,500	68.9	384.8	110,500	138,400	115
120	61.7	376.6	115,400	118,800	64.0	379.5	111,100	142,000	67.3	382.7	104,500	135,700	120
125	60.1	373.8	109,300	113,000	62.4	376.9	105,300	134,800	65.7	380.4	98,900	128,800	125
130	58.4	370.7	103,800	107,900	60.7	374.1	99,900	128,200	64.1	378.0	93,800	122,400	130
135	56.6	367.4	98,700	103,100	59.0	371.1	95,000	121,700	62.5	375.4	89,100	116,600	135
140	54.8	363.9	94,000	98,900	57.3	367.9	90,400	114,700	60.8	372.6	84,700	111,200	140
145	53.0	360.1	89,600	95,000	55.5	364.4	86,200	108,200	59.1	369.6	80,600	106,200	145
150	51.2	356.1	85,600	91,400	53.7	360.8	82,300	102,300	57.4	366.4	76,800	101,500	150
155	49.2	351.8	81,800	88,200	51.9	356.8	78,600	96,800	55.6	363.0	73,200	97,200	155
160	47.3	347.2	78,300	85,200	50.0	352.7	75,200	91,800	53.8	359.3	69,900	93,200	160
165	45.2	342.3	75,000	81,200	48.0	348.2	72,100	87,200	52.0	355.4	66,800	89,400	165
170	43.1	337.0	71,900	77,300	46.0	343.4	69,100	82,900	50.1	351.2	63,900	85,900	170
175	40.9	331.3	69,000	73,700	43.9	338.2	66,300	78,800	48.1	346.8	61,100	82,600	175
180	38.6	325.1	66,300	70,200	41.7	332.7	63,600	75,100	46.1	342.0	58,500	79,500	180
185	36.1	318.3	63,700	67,000	39.5	326.7	61,100	71,600	44.0	336.9	56,000	76,500	185
190	33.5	310.9	61,300	64,000	37.1	320.1	58,600	68,300	41.8	331.3	53,700	73,700	190
195	30.7	302.7	59,000	61,100	34.5	313.0	56,200	65,200	39.6	325.3	51,500	71,100	195
200	27.7	293.4	56,800	58,400	31.8	305.1	54,000	62,200	37.2	318.8	49,300	68,600	200
205	24.2	282.8	54,700	55,800	28.8	296.2	51,800	59,500	34.7	311.7	47,300	65,400	205
210	20.2	270.0	52,600	53,300	25.6	286.2	49,800	56,800	31.9	303.9	45,400	62,500	210
215	15.2	253.6	48,200	48,200	21.8	274.3	47,800	54,300	29.0	295.1	43,500	59,700	215
220	7.1	226.2	39,600	39,600	17.3	259.6	45,900	51,800	25.7	285.1	41,800	57,100	220
225					11.0	238.4	44,000	45,100	22.0	273.3	40,100	54,500	225
230									17.5	258.8	38,400	52,100	230
235									11.4	238.2	36,700	48,700	235
240													240
245													245
250													250
255													255
260													260
265													265
270													270
280													280

MLC300 VPC-MAX S-1

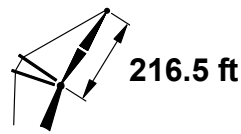
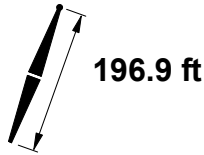
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	63.1	372.4	66,300	93,300									150
155	61.4	369.7	63,100	89,300									155
160	59.7	366.8	60,100	85,600									160
165	58.0	363.7	57,300	82,100									165
170	56.3	360.3	54,700	78,800									170
175	54.5	356.8	52,200	75,700									175
180	52.6	353.0	49,800	72,800	58.5	359.2	41,400	66,200					180
185	50.8	348.9	47,600	70,000	56.8	356.0	39,400	63,600					185
190	48.8	344.6	45,500	67,400	55.0	352.5	37,500	61,200					190
195	46.9	339.9	43,500	65,000	53.2	348.7	35,700	58,900					195
200	44.8	334.9	41,600	62,600	51.3	344.7	34,000	56,800					200
205	42.7	329.5	39,800	60,400	49.4	340.5	32,400	54,700					205
210	40.4	323.7	38,100	58,300	47.4	335.9	30,900	52,800	53.5	342.6	23,900	47,300	210
215	38.1	317.4	36,400	56,300	45.4	331.0	29,400	50,900	51.7	338.7	22,600	45,600	215
220	35.6	310.5	34,900	54,400	43.3	325.7	28,000	49,100	49.8	334.5	21,400	44,000	220
225	33.0	303.0	33,400	52,600	41.1	320.1	26,700	47,400	47.8	330.0	20,200	42,400	225
230	30.1	294.5	31,900	50,800	38.8	313.9	25,400	45,800	45.8	325.2	19,000	40,900	230
235	27.0	285.0	30,500	49,100	36.3	307.2	24,200	44,300	43.7	320.0	18,000	39,500	235
240	23.5	274.0	29,100	47,500	33.8	299.9	23,000	42,800	41.5	314.4	16,900	38,100	240
245	19.3	260.7	27,800	45,900	31.0	291.7	21,800	41,300	39.2	308.3	15,900	36,800	245
250	14.0	243.1	26,500	44,400	27.9	282.6	20,700	39,900	36.8	301.7	14,900	35,500	250
255	3.3	206.6	25,100	42,800	24.5	272.0	19,600	38,600	34.2	294.5	14,000	34,300	255
260					20.6	259.5	18,600	37,300	31.5	286.5	13,100	33,100	260
265					15.7	243.5	17,500	36,000	28.5	277.5	12,200	32,000	265
270					8.2	218.1	16,400	34,800	25.2	267.3	11,400	30,900	270
280									16.7	240.0		28,700	280

MLC300 VPC-MAX S-1

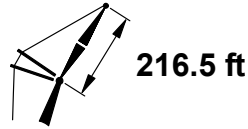
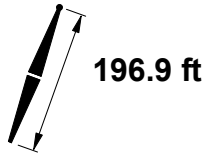
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
90	73.1	410.9	123,900	123,900									90
95	71.7	409.3	123,900	123,900									95
100	70.3	407.5	123,700	123,700									100
105	68.9	405.5	123,500	123,500	70.8	407.4	122,400	122,400					105
110	67.4	403.5	123,200	123,200	69.4	405.5	122,400	122,400					110
115	66.0	401.2	120,700	122,800	68.0	403.5	116,200	122,400					115
120	64.5	398.8	114,100	119,700	66.5	401.3	109,700	122,400					120
125	63.0	396.3	108,100	113,600	65.1	399.0	103,900	122,400	68.1	401.9	96,700	118,400	125
130	61.5	393.6	102,500	108,100	63.6	396.5	98,500	122,400	66.6	399.8	91,600	118,400	130
135	60.0	390.7	97,400	103,200	62.1	393.8	93,600	119,300	65.2	397.4	86,900	115,000	135
140	58.5	387.6	92,700	98,800	60.6	391.0	89,100	112,600	63.7	395.0	82,600	109,700	140
145	56.9	384.4	88,400	94,700	59.0	388.0	84,900	106,400	62.2	392.3	78,500	104,700	145
150	55.3	380.9	84,400	91,000	57.5	384.8	81,000	100,700	60.7	389.5	74,700	100,100	150
155	53.6	377.3	80,600	87,600	55.9	381.5	77,300	95,400	59.1	386.5	71,200	95,800	155
160	52.0	373.4	77,100	84,200	54.3	377.9	73,900	90,500	57.6	383.4	67,900	91,800	160
165	50.2	369.2	73,800	80,000	52.6	374.0	70,700	85,900	56.0	380.0	64,800	88,000	165
170	48.5	364.8	70,700	76,100	50.9	370.0	67,600	81,600	54.3	376.4	61,900	84,500	170
175	46.7	360.1	67,900	72,500	49.1	365.7	64,700	77,600	52.7	372.6	59,100	81,200	175
180	44.8	355.1	65,100	69,100	47.3	361.1	61,900	73,900	51.0	368.6	56,600	78,100	180
185	42.9	349.8	62,600	65,900	45.5	356.2	59,300	70,400	49.2	364.3	54,100	75,100	185
190	40.8	344.0	60,100	62,900	43.6	351.0	56,900	67,200	47.4	359.7	51,800	72,400	190
195	38.7	337.9	57,800	60,100	41.6	345.4	54,500	64,100	45.6	354.8	49,600	69,700	195
200	36.5	331.2	55,500	57,400	39.5	339.4	52,300	61,200	43.7	349.6	47,500	67,300	200
205	34.2	323.9	53,300	54,900	37.4	333.0	50,200	58,500	41.7	344.1	45,500	64,400	205
210	31.7	316.0	51,200	52,400	35.1	325.9	48,200	55,900	39.6	338.1	43,600	61,500	210
215	29.0	307.2	49,200	50,100	32.7	318.3	46,200	53,400	37.5	331.7	41,800	58,700	215
220	26.1	297.3	47,200	47,900	30.1	309.8	44,400	51,100	35.2	324.7	40,000	56,100	220
225	22.8	286.0	45,300	45,300	27.3	300.4	42,600	48,800	32.8	317.1	38,400	53,600	225
230	19.0	272.3	42,800	42,800	24.1	289.6	40,900	46,700	30.2	308.7	36,800	51,300	230
235	14.1	254.7	38,600	38,600	20.5	277.0	39,200	44,100	27.4	299.3	35,200	49,000	235
240	5.9	224.0	31,000	31,000	16.1	261.2	37,600	41,600	24.3	288.6	33,800	46,900	240
245					9.9	238.2	36,000	36,000	20.7	276.1	32,300	44,800	245
250									16.4	260.5	30,900	42,200	250
255									10.3	238.1	29,500	39,200	255
260													260
265													265
270													270
280													280
290													290
300													300

MLC300 VPC-MAX S-1

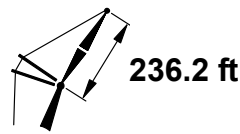
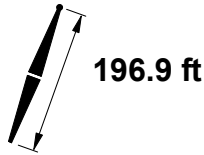
ASME B30.5



ft	75°				70°				65°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160	62.7	389.4	57,800	83,900									160
165	61.2	386.7	55,100	80,400									165
170	59.7	383.7	52,400	77,100									170
175	58.1	380.6	50,000	74,100									175
180	56.6	377.3	47,700	71,200									180
185	54.9	373.8	45,500	68,400									185
190	53.3	370.1	43,400	65,900	58.6	376.2	35,100	59,500					190
195	51.6	366.2	41,400	63,400	57.0	372.9	33,400	57,200					195
200	49.9	362.0	39,500	61,100	55.4	369.5	31,700	55,100					200
205	48.1	357.5	37,700	58,900	53.8	365.9	30,100	53,000					205
210	46.3	352.8	36,000	56,800	52.1	362.0	28,600	51,100					210
215	44.4	347.7	34,400	54,800	50.4	357.9	27,200	49,300					215
220	42.4	342.3	32,900	52,900	48.6	353.5	25,800	47,500					220
225	40.4	336.5	31,400	51,100	46.8	348.8	24,500	45,800	52.4	355.9	17,800	40,700	225
230	38.3	330.2	30,000	49,400	45.0	343.8	23,200	44,200	50.7	351.8	16,700	39,200	230
235	36.1	323.4	28,600	47,700	43.0	338.5	22,000	42,700	49.0	347.5	15,600	37,800	235
240	33.7	316.0	27,300	46,100	41.0	332.8	20,900	41,200	47.2	342.9	14,600	36,400	240
245	31.2	308.0	26,000	44,600	38.9	326.7	19,700	39,800	45.3	338.0	13,600	35,100	245
250	28.5	299.0	24,800	43,200	36.7	320.1	18,700	38,500	43.4	332.7	12,700	33,900	250
255	25.5	288.8	23,600	41,700	34.4	312.9	17,600	37,200	41.4	327.1	11,800	32,700	255
260	22.1	277.1	22,400	40,400	31.9	305.0	16,600	35,900	39.3	321.1	10,900	31,500	260
265	18.1	262.8	21,300	39,000	29.3	296.3	15,700	34,700	37.1	314.5	10,100	30,400	265
270	12.9	243.8	20,200	37,700	26.4	286.5	14,700	33,500	34.8	307.5		29,300	270
280					19.4	261.9	12,900	31,300	29.8	291.2		27,300	280
290					7.1	216.6	11,000	29,100	23.8	270.7		25,400	290
300									15.6	241.5		23,500	300

MLC300 VPC-MAX S-1

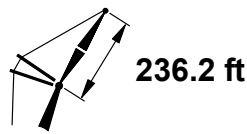
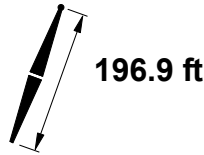
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
95	73.3	430.0	106,400	106,400									95
100	72.0	428.4	106,300	106,300									100
105	70.7	426.6	106,000	106,000									105
110	69.4	424.7	105,700	105,700	71.2	426.5	104,700	104,700					110
115	68.1	422.7	103,900	103,900	69.9	424.7	104,700	104,700					115
120	66.8	420.6	101,800	101,800	68.6	422.7	104,700	104,700					120
125	65.5	418.3	99,700	99,700	67.3	420.6	103,100	103,100					125
130	64.1	415.9	97,700	97,700	66.0	418.4	98,000	101,000	68.7	421.2	90,700	100,700	130
135	62.8	413.3	95,900	95,900	64.6	416.0	93,100	99,100	67.4	419.1	86,000	100,700	135
140	61.4	410.5	92,300	94,100	63.3	413.5	88,600	97,200	66.0	416.8	81,700	100,700	140
145	60.0	407.7	88,000	92,500	61.9	410.8	84,400	95,400	64.7	414.5	77,600	99,400	145
150	58.5	404.6	83,900	90,900	60.5	408.0	80,500	93,700	63.3	412.0	73,900	97,700	150
155	57.1	401.4	80,200	87,800	59.1	405.0	76,800	92,100	62.0	409.3	70,400	95,200	155
160	55.6	398.0	76,700	84,000	57.6	401.8	73,300	90,300	60.6	406.5	67,100	91,200	160
165	54.1	394.4	73,400	79,900	56.2	398.5	70,000	85,800	59.2	403.5	64,000	87,400	165
170	52.6	390.5	70,300	76,100	54.7	394.9	66,900	81,600	57.7	400.3	61,100	83,900	170
175	51.1	386.5	67,500	72,500	53.2	391.2	64,000	77,600	56.3	397.0	58,400	80,600	175
180	49.5	382.3	64,800	69,100	51.6	387.3	61,300	73,900	54.8	393.5	55,800	77,500	180
185	47.8	377.7	62,200	65,900	50.1	383.1	58,700	70,400	53.3	389.8	53,300	74,600	185
190	46.2	373.0	59,700	62,900	48.5	378.7	56,200	67,100	51.7	385.8	51,000	71,900	190
195	44.4	367.9	57,300	60,000	46.8	374.0	53,900	64,000	50.1	381.7	48,900	69,200	195
200	42.6	362.5	55,000	57,400	45.1	369.0	51,700	61,200	48.5	377.3	46,800	66,800	200
205	40.8	356.8	52,800	54,800	43.3	363.8	49,600	58,400	46.9	372.6	44,800	64,300	205
210	38.9	350.6	50,700	52,400	41.5	358.2	47,600	55,800	45.2	367.7	42,900	61,400	210
215	36.9	344.0	48,700	50,100	39.6	352.2	45,700	53,400	43.4	362.4	41,100	58,700	215
220	34.8	336.9	46,800	48,000	37.6	345.8	43,900	51,100	41.6	356.8	39,400	56,100	220
225	32.5	329.2	45,000	45,600	35.6	338.9	42,100	48,800	39.7	350.9	37,800	53,600	225
230	30.2	320.8	43,200	43,200	33.4	331.4	40,400	46,700	37.7	344.5	36,200	51,300	230
235	27.6	311.4	40,800	40,800	31.1	323.2	38,800	44,500	35.7	337.6	34,700	49,100	235
240	24.8	301.0	38,400	38,400	28.6	314.3	37,300	42,100	33.5	330.1	33,200	46,900	240
245	21.6	288.9	36,100	36,100	25.9	304.3	35,800	39,600	31.2	322.0	31,800	44,900	245
250	17.9	274.4	33,900	33,900	22.8	292.8	34,300	37,400	28.7	313.1	30,500	42,700	250
255	13.1	255.5	31,800	31,800	19.4	279.4	32,900	35,100	26.0	303.2	29,200	40,200	255
260	4.6	220.8	24,900	24,900	15.1	262.6	31,600	33,000	23.0	291.8	27,900	37,900	260
265					8.9	237.6	29,500	29,500	19.6	278.5	26,700	35,700	265
270									15.3	261.9	25,500	33,500	270
280													280
290													290
300													300
310													310
320													320

MLC300 VPC-MAX S-1

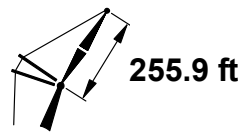
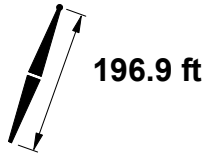
ASME B30.5



ft	75°				70°				65°			
	ft	lb	ft	lb	ft	lb	ft	lb	ft	lb	ft	
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165	63.8	409.0	54,000	79,700								165
170	62.5	406.4	51,400	76,400								170
175	61.1	403.6	49,000	73,400								175
180	59.7	400.7	46,700	70,500								180
185	58.3	397.6	44,500	67,800								185
190	56.8	394.3	42,500	65,200								190
195	55.3	390.9	40,500	62,800								195
200	53.8	387.2	38,600	60,500	58.7	393.2	30,700	54,300				200
205	52.3	383.4	36,900	58,300	57.2	389.9	29,100	52,300				205
210	50.7	379.3	35,200	56,200	55.8	386.5	27,600	50,400				210
215	49.1	375.0	33,600	54,200	54.3	382.9	26,200	48,500				215
220	47.5	370.4	32,100	52,400	52.8	379.2	24,800	46,800				220
225	45.8	365.6	30,600	50,600	51.2	375.1	23,500	45,100				225
230	44.1	360.5	29,200	48,800	49.6	370.9	22,300	43,500				230
235	42.3	355.0	27,800	47,200	48.0	366.4	21,100	42,000	53.0	373.1	37,000	235
240	40.4	349.2	26,500	45,600	46.3	361.7	20,000	40,600	51.5	369.1	35,600	240
245	38.5	343.0	25,300	44,100	44.6	356.6	18,900	39,200	49.9	364.9	34,400	245
250	36.5	336.3	24,100	42,700	42.8	351.3	17,800	37,800	48.3	360.5	33,100	250
255	34.3	329.1	23,000	41,300	41.0	345.6	16,800	36,600	46.6	355.8	32,000	255
260	32.1	321.2	21,800	39,900	39.0	339.5	15,800	35,300	44.9	350.8	30,800	260
265	29.7	312.6	20,800	38,700	37.0	332.9	14,900	34,100	43.1	345.5	29,700	265
270	27.0	303.1	19,700	37,400	35.0	325.8	14,000	33,000	41.3	339.8	28,700	270
280	20.9	279.8	17,700	35,000	30.4	309.8	12,200	30,800	37.4	327.4	26,700	280
290	11.9	244.3	15,800	32,700	25.0	290.2	10,600	28,800	33.2	312.9	24,800	290
300					18.2	264.1		26,800	28.3	295.6	23,000	300
310					5.9	214.5		24,900	22.5	273.8	21,400	310
320									14.6	242.8	19,800	320

MLC300 VPC-MAX S-1

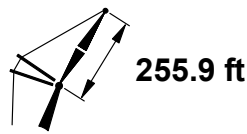
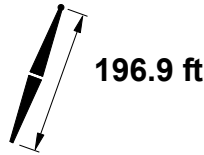
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
100	73.4	449.0	90,800	90,800									100
105	72.3	447.4	90,500	90,500									105
110	71.1	445.7	90,200	90,200									110
115	69.9	443.9	89,800	89,800	71.5	445.6	88,900	88,900					115
120	68.7	441.9	89,400	89,400	70.3	443.8	88,800	88,800					120
125	67.5	439.9	89,200	89,200	69.1	441.9	88,600	88,600					125
130	66.2	437.7	88,500	88,500	67.9	439.9	88,400	88,400					130
135	65.0	435.3	88,000	88,000	66.7	437.7	88,100	88,100					135
140	63.8	432.9	87,500	87,500	65.5	435.4	87,300	87,800	68.0	438.3	80,000	85,200	140
145	62.5	430.3	86,400	86,400	64.2	433.0	83,100	87,400	66.8	436.2	76,000	85,200	145
150	61.2	427.5	83,000	85,000	63.0	430.5	79,100	87,100	65.5	433.9	72,300	85,200	150
155	59.9	424.6	79,200	83,000	61.7	427.8	75,300	86,100	64.3	431.5	68,800	85,200	155
160	58.6	421.6	75,700	78,900	60.4	424.9	71,900	84,800	63.0	428.9	65,500	85,100	160
165	57.3	418.4	72,500	75,000	59.1	421.9	68,600	81,100	61.8	426.3	62,400	85,000	165
170	55.9	415.0	69,400	71,200	57.8	418.8	65,500	77,100	60.5	423.4	59,600	82,800	170
175	54.6	411.4	66,500	67,600	56.4	415.5	62,600	73,300	59.2	420.4	56,800	79,500	175
180	53.2	407.7	63,700	64,100	55.1	412.0	59,900	69,500	57.9	417.3	54,300	76,400	180
185	51.7	403.8	60,800	60,800	53.7	408.3	57,300	66,000	56.5	414.0	51,800	73,500	185
190	50.3	399.6	57,500	57,500	52.3	404.5	54,900	62,500	55.2	410.5	49,600	70,400	190
195	48.8	395.3	54,300	54,300	50.8	400.4	52,600	59,200	53.8	406.9	47,400	66,800	195
200	47.3	390.7	51,100	51,100	49.4	396.1	50,400	56,100	52.4	403.0	45,300	63,300	200
205	45.7	385.8	47,900	47,900	47.9	391.6	48,300	53,000	50.9	399.0	43,400	60,000	205
210	44.1	380.7	44,900	44,900	46.3	386.9	46,300	49,800	49.4	394.7	41,500	56,800	210
215	42.5	375.3	42,100	42,100	44.7	381.9	44,400	46,700	47.9	390.2	39,700	53,800	215
220	40.8	369.5	39,200	39,200	43.1	376.5	42,600	43,600	46.4	385.5	38,000	50,800	220
225	39.0	363.4	36,500	36,500	41.4	370.9	40,800	40,800	44.8	380.5	36,400	47,600	225
230	37.2	356.9	33,900	33,900	39.7	364.9	38,000	38,000	43.2	375.2	34,800	44,600	230
235	35.2	349.9	31,400	31,400	37.9	358.6	35,300	35,300	41.5	369.6	33,300	41,600	235
240	33.2	342.3	29,000	29,000	36.0	351.8	32,700	32,700	39.8	363.6	31,900	38,800	240
245	31.1	334.2	26,600	26,600	34.0	344.4	30,200	30,200	37.9	357.3	30,500	36,000	245
250	28.8	325.3	24,400	24,400	31.9	336.5	27,900	27,900	36.1	350.5	29,200	33,400	250
255	26.3	315.4	22,200	22,200	29.7	327.9	25,500	25,500	34.1	343.2	27,900	30,900	255
260	23.6	304.3	20,000	20,000	27.3	318.4	23,300	23,300	32.0	335.3	26,700	28,500	260
265	20.5	291.6	17,800	17,800	24.6	307.9	21,100	21,100	29.8	326.7	25,500	26,200	265
270	16.9	276.2	15,600	15,600	21.7	295.8	19,000	19,000	27.4	317.3	23,900	23,900	270
280	3.1	215.7	11,300	11,300	14.2	263.7	14,600	14,600	21.9	294.8	19,500	19,500	280
290									14.4	263.1	15,200	15,200	290
300													300
310													310
320													320
330													330
340													340

MLC300 VPC-MAX S-1

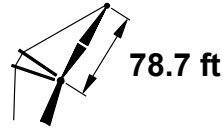
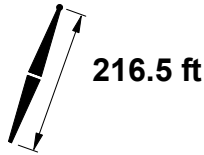
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175	63.5	426.0	47,300	72,100									175
180	62.2	423.4	45,000	69,300									180
185	61.0	420.6	42,800	66,500									185
190	59.7	417.7	40,800	64,000									190
195	58.4	414.6	38,800	61,600									195
200	57.0	411.3	37,000	59,300									200
205	55.7	407.9	35,300	57,100									205
210	54.3	404.3	33,600	55,000	58.7	410.1	25,800	49,100					210
215	52.9	400.6	32,000	53,100	57.4	406.9	24,400	47,300					215
220	51.5	396.6	30,500	51,200	56.1	403.6	23,100	45,500					220
225	50.0	392.4	29,000	49,400	54.7	400.0	21,800	43,900					225
230	48.5	388.0	27,600	47,700	53.3	396.3	20,600	42,300					230
235	47.0	383.4	26,300	46,100	51.9	392.4	19,400	40,800					235
240	45.4	378.4	25,000	44,500	50.4	388.3	18,300	39,400					240
245	43.8	373.3	23,800	43,000	48.9	383.9	17,200	38,000	53.6	390.2	33,000		245
250	42.1	367.8	22,600	41,600	47.4	379.4	16,200	36,600	52.1	386.3	31,800		250
255	40.4	361.9	21,500	40,200	45.9	374.5	15,200	35,400	50.7	382.3	30,700		255
260	38.6	355.7	20,400	37,900	44.3	369.4	14,200	34,200	49.2	378.0	29,500		260
265	36.8	349.1	19,400	35,200	42.6	364.0	13,300	33,000	47.7	373.4	28,500		265
270	34.8	342.0	18,300	32,600	40.9	358.3	12,400	31,800	46.2	368.6	27,400		270
280	30.6	326.1	16,400	27,800	37.3	345.7	10,700	29,700	42.9	358.3	25,400		280
290	25.8	306.9	14,600	23,200	33.4	331.3		27,700	39.5	346.6	23,600		290
300	19.8	282.4	12,800	18,900	29.0	314.3		25,800	35.8	333.3	21,900		300
310	11.1	244.6	11,100	14,600	23.8	293.6		22,300	31.7	317.9	20,300		310
320					17.2	266.0		18,100	27.0	299.7	18,700		320
330					4.8	211.5		13,800	21.4	276.7	17,300		330
340									13.7	243.8	15,900		340

MLC300 VPC-MAX S-1

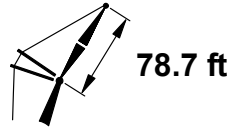
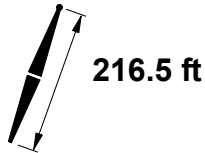
ASME B30.5



ft	85°				83°				80°				ft
	ft	ft	lb	lb	ft	lb	lb	ft	lb	lb			
55	70.5	297.5	267,800 d	267,800 d								55	
60	66.5	295.3	251,600 c	251,600 c								60	
65	62.4	292.7	228,500 c	228,500 c	68.6	295.6	255,600 c	273,500 c				65	
70	58.1	289.6	209,600 b	209,600 b	64.5	293.2	233,800 c	261,500 c				70	
75	53.6	285.9	193,900 b	193,900 b	60.4	290.4	214,400 b	237,300 b				75	
80	48.8	281.6	180,700	180,700	56.0	287.0	197,800 b	217,600 b	65.6	292.0	188,400 c	237,300 c	80
85	43.6	276.4	169,500	169,500	51.3	283.0	183,400	201,300	61.4	289.3	174,700 b	220,300 b	85
90	37.8	270.2	160,200	160,200	46.3	278.3	170,800	187,700	57.1	286.1	162,700 b	205,400 b	90
95	31.0	262.3	152,600	152,600	40.9	272.7	159,700	176,300	52.5	282.3	152,100 b	192,300 b	95
100	22.2	251.3	147,000	147,000	34.6	265.7	149,800	166,700	47.7	277.8	142,700	180,600	100
105					27.1	256.6	140,900	159,000	42.3	272.4	134,300	170,200	105
110					16.2	242.6	132,700	153,800	36.3	265.9	126,700	160,700	110
115									29.2	257.4	119,800	152,200	115
120									19.6	245.3	113,300	144,300	120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175

MLC300 VPC-MAX S-1

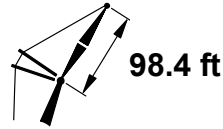
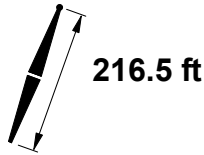
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	lb	lb	ft	lb	lb			
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110	60.2	284.1	123,100 b	159,000 b									110
115	55.8	280.8	116,200 b	150,200 b									115
120	51.1	276.8	109,900	142,300									120
125	46.1	272.0	104,100	135,000									125
130	40.6	266.4	98,900	128,400	58.5	277.0	88,300 b	119,500 b					130
135	34.4	259.3	94,000	122,300	54.1	273.4	84,000	113,800					135
140	26.7	250.1	89,500	116,600	49.3	269.2	80,000	108,600					140
145	15.6	235.7	85,200	111,300	44.1	264.1	76,300	103,800					145
150					38.3	258.0	72,800	99,300					150
155					31.7	250.3	69,500	95,100	51.7	264.0	60,600	88,100	155
160					23.2	239.7	66,300	91,100	46.8	259.3	57,900	84,500	160
165					6.9	218.0	63,000	87,100	41.3	253.8	55,300	81,100	165
170									35.2	246.9	52,900	77,900	170
175									27.7	238.0	50,500	74,900	175
									17.3	224.7	48,200	71,900	175

MLC300 VPC-MAX S-1

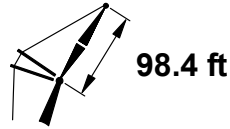
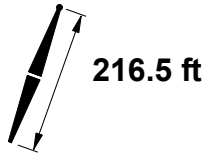
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
60	71.5	316.6	239,400 c	239,400 c									60
65	68.3	314.6	230,900 b	230,900 b									65
70	65.1	312.3	210,700 b	210,700 b	69.9	314.8	232,700 c	242,600 c					70
75	61.8	309.6	194,000 b	194,000 b	66.8	312.7	213,300 b	238,500 b					75
80	58.4	306.5	180,000	180,000	63.5	310.2	196,800 b	223,000 b					80
85	54.9	303.0	168,000	168,000	60.2	307.3	182,500	204,700	67.6	311.4	173,500 b	219,100 b	85
90	51.1	299.0	157,800	157,800	56.7	304.0	170,000	189,700	64.4	309.0	161,500 b	204,200 b	90
95	47.2	294.5	148,900	148,900	53.1	300.3	158,900	177,000	61.0	306.3	151,000	191,200	95
100	43.0	289.2	141,200	141,200	49.2	296.0	149,100	166,100	57.6	303.1	141,700	179,600	100
105	38.3	283.0	134,600	134,600	45.2	291.1	140,400	156,700	54.0	299.5	133,400	169,200	105
110	33.1	275.6	129,100	129,100	40.8	285.4	132,500	148,600	50.2	295.4	125,900	159,900	110
115	27.0	266.4	124,700	124,700	35.9	278.7	125,300	141,800	46.2	290.6	119,100	151,500	115
120	19.0	253.6	121,700	121,700	30.3	270.5	118,800	136,000	41.9	285.2	112,900	143,800	120
125					23.5	259.9	112,700	131,400	37.2	278.7	107,200	136,700	125
130					13.4	243.4	107,100	128,700	31.8	271.0	102,000	130,300	130
135									25.4	261.2	97,100	124,300	135
140									16.6	246.9	92,600	118,700	140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195

MLC300 VPC-MAX S-1

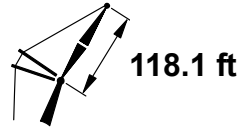
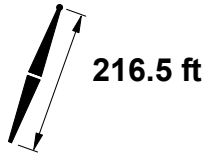
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	63.4	304.0	114,800 b	148,900 b									115
120	56.6	297.8	108,600	141,000									120
125	52.9	294.1	102,900	133,900									125
130	49.1	289.8	97,800	127,300									130
135	45.0	284.8	93,000	121,300									135
140	40.6	279.1	88,600	115,800	58.7	294.0	78,100	107,200					140
145	35.7	272.3	84,600	110,700	55.2	290.5	74,500	102,500					145
150	30.1	264.1	80,800	105,900	51.5	286.6	71,100	98,100					150
155	23.2	253.4	77,300	101,500	47.6	282.1	68,000	94,000					155
160	12.8	236.3	73,900	97,300	43.4	276.9	65,000	90,200					160
165			70,700	93,300	38.8	270.8	62,200	86,600	53.4	281.2	53,400	79,800	165
170					33.6	263.5	59,600	83,200	49.6	277.0	51,100	76,700	170
175					27.6	254.5	57,000	80,000	45.5	272.1	48,900	73,700	175
180					19.9	242.2	54,600	77,000	41.1	266.5	46,900	71,000	180
185									36.3	259.9	44,900	68,400	185
190									30.8	251.8	43,000	65,900	190
195									24.1	241.5	41,100	63,500	195
									14.5	225.8	39,300	61,200	195

MLC300 VPC-MAX S-1

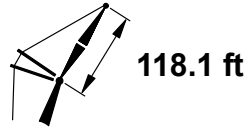
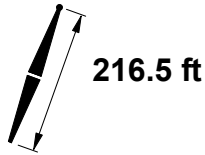
ASME B30.5



ft	85°				83°				80°				ft
	ft	ft	lb	lb	ft	lb	lb	ft	lb	lb			
65	72.1	335.7	216,300 b	216,300 b								65	
70	69.5	333.8	209,900 b	209,900 b								70	
75	66.9	331.7	194,100	194,100	70.9	334.0	210,800 b	220,500 b				75	
80	64.2	329.3	179,500	179,500	68.2	332.0	194,300	217,200				80	
85	61.4	326.6	167,100	167,100	65.6	329.7	180,100	208,900				85	
90	58.6	323.5	156,400	156,400	62.9	327.1	167,600	192,300	68.9	330.7	158,800	201,500	90
95	55.7	320.1	147,100	147,100	60.1	324.2	156,600	178,500	66.3	328.5	148,400	188,500	95
100	52.6	316.3	139,000	139,000	57.2	321.0	146,900	166,800	63.6	326.0	139,100	177,000	100
105	49.4	312.1	131,900	131,900	54.2	317.4	138,200	156,700	60.8	323.2	130,800	166,700	105
110	46.1	307.3	125,700	125,700	51.1	313.4	130,300	147,900	57.9	320.1	123,400	157,400	110
115	42.5	301.9	120,100	120,100	47.8	308.9	123,300	140,200	55.0	316.6	116,600	149,000	115
120	38.7	295.8	115,300	115,300	44.4	303.9	116,800	133,500	51.9	312.7	110,500	141,400	120
125	34.5	288.7	111,200	111,200	40.7	298.2	110,900	127,600	48.7	308.3	104,900	134,500	125
130	29.7	280.3	107,700	107,700	36.7	291.6	105,500	122,500	45.3	303.4	99,800	128,100	130
135	24.1	269.8	104,100	105,100	32.2	283.9	100,500	118,100	41.7	297.9	95,000	122,200	135
140		255.3	99,200	103,500	27.1	274.7	95,900	114,400	37.7	291.6	90,700	116,800	140
145					20.8	262.7	91,500	111,600	33.4	284.2	86,600	111,700	145
150					11.2	243.5	87,400	100,800	28.5	275.4	82,800	107,000	150
155									22.6	264.3	79,200	102,600	155
160									14.3	248.0	75,800	98,400	160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
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215													215

MLC300 VPC-MAX S-1

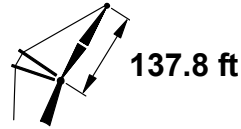
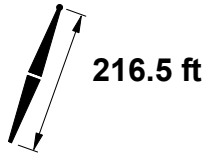
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	62.7	320.9	99,200	131,000									120
125	59.9	318.0	94,200	124,500									125
130	57.1	314.8	89,600	118,600									130
135	54.1	311.2	85,300	113,100									135
140	51.0	307.2	81,300	108,000									140
145	47.7	302.7	77,600	103,400	58.9	311.0	67,000	95,100					145
150	44.2	297.6	74,100	99,000	55.9	307.6	64,000	91,100					150
155	40.5	291.9	70,900	95,000	52.9	303.8	61,100	87,300					155
160	36.5	285.3	67,800	91,200	49.7	299.6	58,400	83,800					160
165	32.1	277.5	65,000	87,600	46.4	294.9	55,900	80,500					165
170	26.9	268.2	62,200	84,200	42.9	289.6	53,500	77,400					170
175	20.5	256.0	59,600	81,000	39.0	283.5	51,200	74,500	51.3	294.3	42,800	68,000	175
180	10.7	236.3	56,900	77,900	34.9	276.6	49,000	71,800	48.1	289.9	40,900	65,500	180
185					30.2	268.3	47,000	69,200	44.7	284.9	39,200	63,100	185
190					24.7	258.1	45,000	66,700	41.0	279.2	37,500	60,800	190
195					17.5	244.1	43,000	64,200	37.0	272.8	35,800	58,700	195
200									32.6	265.2	34,300	56,600	200
205									27.6	256.1	32,800	54,600	205
210									21.4	244.3	31,300	52,700	210
215									12.3	226.3	29,700	50,800	215

MLC300 VPC-MAX S-1

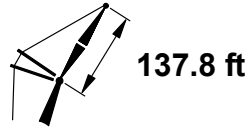
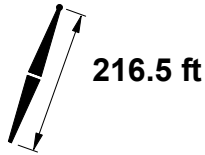
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
70	72.6	354.8	191,600 b	191,600 b									70
75	70.4	353.0	190,400	190,400									75
80	68.1	351.0	181,600	181,600	71.5	353.1	191,000	191,000					80
85	65.8	348.8	168,400	168,400	69.3	351.2	178,900	189,600					85
90	63.5	346.3	157,100	157,100	67.0	349.1	166,500	179,600					90
95	61.2	343.5	147,300	147,300	64.7	346.7	155,600	169,900					95
100	58.7	340.5	138,900	138,900	62.4	344.1	145,900	160,700	67.6	347.8	137,800	175,700	100
105	56.2	337.1	131,300	131,300	60.0	341.2	137,200	152,000	65.3	345.5	129,600	165,500	105
110	53.6	333.5	124,600	124,600	57.5	338.0	129,400	143,700	63.0	343.0	122,200	156,200	110
115	51.0	329.4	118,700	118,700	55.0	334.5	122,300	136,100	60.6	340.2	115,500	147,900	115
120	48.2	325.0	113,500	113,500	52.4	330.7	115,900	128,900	58.1	337.1	109,400	140,300	120
125	45.3	320.1	108,800	108,800	49.6	326.5	110,000	122,200	55.6	333.7	103,800	133,400	125
130	42.2	314.7	104,600	104,600	46.8	321.8	104,700	115,900	53.0	329.9	98,700	127,000	130
135	38.9	308.6	100,900	100,900	43.8	316.7	99,700	110,000	50.3	325.8	94,100	121,200	135
140	35.4	301.7	96,400	96,400	40.6	310.9	95,200	104,600	47.5	321.3	89,700	115,800	140
145	31.5	293.8	91,800	91,800	37.2	304.5	90,900	99,600	44.6	316.2	85,700	110,800	145
150	27.1	284.4	87,600	87,600	33.6	297.1	87,000	94,700	41.5	310.6	82,000	106,200	150
155	21.8	272.8	83,600	83,600	29.4	288.6	83,300	90,300	38.1	304.4	78,500	101,700	155
160	14.8	256.6	80,100	80,100	24.7	278.3	79,800	86,200	34.5	297.3	75,200	96,700	160
165					18.7	264.9	76,500	82,400	30.5	289.1	72,200	92,200	165
170					9.4	243.1	73,300	78,900	26.0	279.3	69,300	87,900	170
175									20.4	266.9	66,500	84,000	175
180									12.5	248.6	63,800	80,400	180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
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225													225
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235													235

MLC300 VPC-MAX S-1

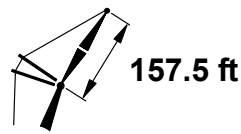
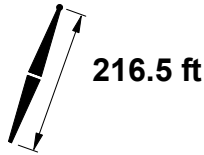
ASME B30.5



ft	75°				70°				65°				ft	
	ft	°	ft	lb	ft	°	ft	lb	ft	°	ft	lb		lb
70														70
75														75
80														80
85														85
90														90
95														95
100														100
105														105
110														110
115														115
120														120
125														125
130	62.3	337.9	87,700	117,200										130
135	59.9	335.0	83,500	111,800										135
140	57.4	331.8	79,500	106,800										140
145	54.9	328.3	75,900	102,100										145
150	52.3	324.5	72,500	97,800										150
155	49.5	320.2	69,300	93,800	58.9	327.9	59,200	85,900						155
160	46.7	315.5	66,300	90,100	56.5	324.6	56,500	82,400						160
165	43.7	310.4	63,500	86,600	53.9	321.0	54,000	79,200						165
170	40.5	304.6	60,800	83,300	51.2	317.0	51,700	76,100						170
175	37.1	298.1	58,300	80,200	48.5	312.6	49,500	73,300						175
180	33.4	290.7	56,000	77,200	45.6	307.7	47,400	70,600						180
185	29.3	282.1	53,700	74,400	42.5	302.3	45,400	68,000	52.6	311.6	37,200	61,700		185
190	24.5	271.7	51,500	71,800	39.2	296.3	43,500	65,600	49.9	307.4	35,600	59,500		190
195	18.5	258.2	49,400	69,300	35.7	289.5	41,700	63,300	47.0	302.8	34,000	57,400		195
200	8.8	235.6	47,300	66,700	31.9	281.7	40,000	61,100	44.1	297.7	32,600	55,400		200
205					27.5	272.5	38,300	59,000	40.9	292.0	31,100	53,500		205
210					22.4	261.1	36,700	57,000	37.5	285.6	29,800	51,600		210
215					15.6	245.6	35,100	55,100	33.9	278.3	28,400	49,900		215
220									29.8	269.9	27,200	48,200		220
225									25.1	259.7	25,900	46,600		225
230									19.3	246.7	24,700	45,100		230
235									10.5	226.2	23,400	43,500		235

MLC300 VPC-MAX S-1

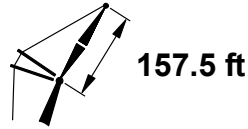
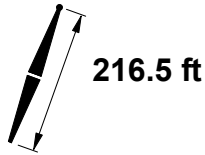
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
75	72.9	373.9	170,000	170,000									75
80	71.0	372.2	169,700	169,700									80
85	69.0	370.2	169,100	169,100	72.0	372.2	169,100	169,100					85
90	67.1	368.1	157,600	157,600	70.0	370.4	163,900	169,100					90
95	65.1	365.8	147,500	147,500	68.1	368.4	153,000	169,100					95
100	63.0	363.2	138,600	138,600	66.1	366.1	143,300	169,100					100
105	60.9	360.5	130,800	130,800	64.1	363.7	134,600	162,300	68.6	367.1	126,800	162,600	105
110	58.8	357.4	123,900	123,900	62.0	361.0	126,900	151,800	66.6	364.9	119,400	153,400	110
115	56.6	354.2	117,700	117,700	59.9	358.2	119,800	142,700	64.6	362.6	112,700	145,100	115
120	54.4	350.6	112,200	112,200	57.8	355.0	113,400	134,800	62.5	360.0	106,700	137,600	120
125	52.1	346.7	107,200	107,200	55.6	351.6	107,600	127,800	60.5	357.1	101,200	130,700	125
130	49.7	342.5	102,800	102,800	53.3	347.9	102,300	121,600	58.3	354.0	96,100	124,400	130
135	47.3	337.9	98,800	98,800	51.0	343.8	97,400	116,100	56.1	350.7	91,400	118,600	135
140	44.7	332.9	95,100	95,100	48.5	339.4	92,800	111,100	53.9	347.1	87,100	113,200	140
145	42.0	327.4	91,800	91,800	46.0	334.7	88,600	106,700	51.6	343.1	83,200	108,300	145
150	39.1	321.3	88,200	88,900	43.4	329.4	84,700	102,700	49.2	338.8	79,500	103,700	150
155	36.1	314.6	84,400	86,300	40.6	323.7	81,100	99,100	46.7	334.1	76,000	99,400	155
160	32.8	307.0	80,900	84,100	37.7	317.3	77,700	95,900	44.1	329.0	72,800	95,400	160
165	29.1	298.3	77,600	82,100	34.5	310.2	74,500	92,600	41.3	323.4	69,800	91,600	165
170	25.0	288.1	74,400	80,500	31.0	302.1	71,500	88,100	38.4	317.2	66,800	88,100	170
175	20.0	275.3	71,500	77,800	27.2	292.7	68,600	83,900	35.3	310.3	64,100	84,800	175
180	13.2	257.4	68,600	68,800	22.7	281.4	65,900	79,900	31.9	302.4	61,400	81,600	180
185					17.0	266.7	63,400	76,100	28.2	293.4	59,000	78,700	185
190					7.8	241.9	60,800	64,800	23.9	282.7	56,600	75,900	190
195									18.6	269.2	54,300	73,200	195
200									11.0	248.8	52,000	70,500	200
205													205
210													210
215													215
220													220
225													225
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MLC300 VPC-MAX S-1

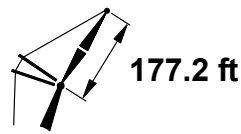
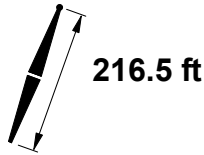
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	64.0	357.5	79,400	108,800									135
140	61.9	354.9	75,500	103,800									140
145	59.8	352.0	71,900	99,200									145
150	57.7	348.8	68,600	95,000									150
155	55.5	345.4	65,400	91,000									155
160	53.2	341.6	62,500	87,300									160
165	50.9	337.6	59,700	83,800									165
170	48.4	333.2	57,100	80,600	56.8	341.6	47,600	73,100					170
175	45.9	328.4	54,700	77,500	54.6	338.1	45,400	70,300					175
180	43.3	323.1	52,400	74,600	52.3	334.2	43,400	67,600					180
185	40.5	317.3	50,200	71,900	49.9	330.1	41,500	65,100					185
190	37.5	310.9	48,100	69,300	47.5	325.5	39,600	62,700					190
195	34.4	303.8	46,100	66,800	44.9	320.5	37,900	60,500	53.5	328.8	29,900	54,300	195
200	30.9	295.6	44,200	64,500	42.2	315.1	36,200	58,400	51.1	324.8	28,400	52,300	200
205	27.0	286.2	42,400	62,300	39.4	309.1	34,600	56,300	48.7	320.4	27,000	50,500	205
210	22.5	274.8	40,600	60,100	36.4	302.4	33,100	54,400	46.2	315.6	25,700	48,700	210
215	16.8	260.0	38,900	58,100	33.1	294.9	31,700	52,500	43.6	310.4	24,500	47,000	215
220	7.2	234.1	37,100	56,000	29.5	286.3	30,300	50,800	40.8	304.7	23,300	45,400	220
225					25.4	276.2	28,900	49,000	37.9	298.4	22,100	43,800	225
230					20.5	263.8	27,600	47,400	34.8	291.3	21,000	42,300	230
235					14.0	246.6	26,200	45,800	31.3	283.3	19,900	40,900	235
240									27.5	274.1	18,900	39,500	240
245									23.1	263.0	17,900	38,200	245
250									17.6	248.7	16,800	36,900	250
255									8.9	225.6	15,700	35,500	255

MLC300 VPC-MAX S-1

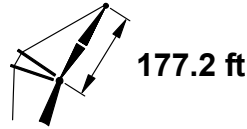
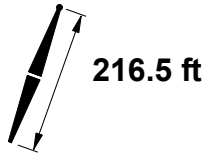
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
80	73.2	393.0	147,700	147,700									80
85	71.5	391.3	147,600	147,600									85
90	69.8	389.4	142,500	142,500									90
95	68.0	387.4	134,300	134,300	70.6	389.5	146,700	146,700					95
100	66.2	385.2	126,600	126,600	68.9	387.6	139,100	139,100					100
105	64.5	382.8	119,200	119,200	67.2	385.5	131,200	131,200					105
110	62.6	380.2	112,300	112,300	65.4	383.2	123,600	123,600					110
115	60.8	377.4	105,800	105,800	63.6	380.7	116,400	116,400	67.6	384.2	111,400	133,200	115
120	58.9	374.4	99,700	99,700	61.7	378.0	109,700	109,700	65.8	382.0	105,500	125,800	120
125	57.0	371.2	94,000	94,000	59.9	375.1	103,400	103,400	64.0	379.6	100,000	118,600	125
130	55.0	367.7	88,600	88,600	58.0	372.0	97,500	97,500	62.2	376.9	94,900	111,900	130
135	53.0	363.9	83,600	83,600	56.0	368.6	91,900	91,900	60.3	374.1	90,300	105,500	135
140	50.9	359.9	79,000	79,000	54.0	365.0	86,700	86,700	58.4	371.0	86,000	99,500	140
145	48.7	355.5	74,600	74,600	52.0	361.1	81,700	81,700	56.5	367.7	82,000	93,800	145
150	46.5	350.8	70,500	70,500	49.9	356.9	77,200	77,200	54.5	364.2	78,200	88,500	150
155	44.2	345.7	66,600	66,600	47.7	352.4	72,900	72,900	52.5	360.3	74,700	83,500	155
160	41.8	340.2	62,900	62,900	45.4	347.5	68,900	68,900	50.4	356.2	71,500	78,800	160
165	39.3	334.1	59,500	59,500	43.0	342.2	65,100	65,100	48.2	351.8	68,400	74,400	165
170	36.6	327.5	56,300	56,300	40.6	336.4	61,500	61,500	46.0	347.0	65,500	70,300	170
175	33.7	320.1	53,200	53,200	38.0	330.1	58,100	58,100	43.7	341.8	62,800	66,400	175
180	30.6	311.9	50,300	50,300	35.2	323.1	55,000	55,000	41.2	336.1	60,200	62,800	180
185	27.1	302.5	47,500	47,500	32.2	315.4	52,000	52,000	38.7	330.0	57,700	59,400	185
190	23.2	291.3	45,000	45,000	28.9	306.6	49,200	49,200	35.9	323.2	55,400	56,100	190
195	18.4	277.5	42,500	42,500	25.3	296.4	46,500	46,500	33.0	315.6	53,000	53,000	195
200	11.9	257.8	40,300	40,300	21.0	284.2	44,000	44,000	29.8	307.1	50,200	50,200	200
205					15.6	268.2	41,600	41,600	26.3	297.4	47,400	47,400	205
210					6.3	240.0	39,400	39,400	22.2	285.8	44,800	44,800	210
215									17.1	271.0	42,500	42,500	215
220									9.7	248.5	40,100	40,100	220
225													225
230													230
235													235
240													240
245													245
250													250
255													255
260													260
265													265
270													270

MLC300 VPC-MAX S-1

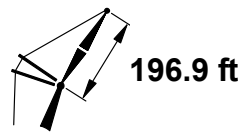
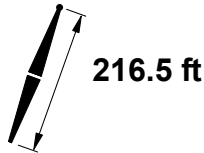
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	63.5	374.5	70,100	97,900									145
150	61.7	371.8	66,800	93,700									150
155	59.8	368.9	63,700	89,700									155
160	57.9	365.8	60,800	86,100									160
165	55.9	362.4	58,100	82,600									165
170	53.9	358.8	55,500	79,400									170
175	51.9	354.9	53,100	76,300									175
180	49.8	350.7	50,800	73,500	57.1	358.6	41,600	66,300					180
185	47.6	346.1	48,600	70,800	55.2	355.2	39,700	63,800					185
190	45.3	341.2	46,600	68,200	53.2	351.4	37,900	61,500					190
195	43.0	335.9	44,600	65,800	51.1	347.4	36,200	59,200					195
200	40.5	330.1	42,800	62,200	48.9	343.1	34,500	57,100					200
205	37.9	323.7	41,000	58,800	46.7	338.4	33,000	55,100					205
210	35.1	316.8	39,300	55,600	44.4	333.3	31,500	53,200	52.1	342.0	23,900	47,300	210
215	32.1	309.0	37,700	52,600	42.0	327.8	30,100	51,400	50.0	337.8	22,700	45,700	215
220	28.8	300.1	36,100	49,800	39.5	321.8	28,700	49,600	47.8	333.3	21,500	44,100	220
225	25.1	289.9	34,600	47,100	36.8	315.3	27,400	48,000	45.6	328.5	20,400	42,500	225
230	20.8	277.6	33,200	44,500	34.0	308.0	26,200	46,400	43.2	323.2	19,300	41,100	230
235	15.3	261.4	31,700	42,100	30.9	299.8	25,000	44,900	40.8	317.5	18,300	39,700	235
240	5.6	231.7	30,200	39,900	27.5	290.5	23,800	43,400	38.2	311.2	17,300	38,400	240
245					23.6	279.6	22,700	42,000	35.4	304.3	16,300	37,100	245
250					18.9	266.1	21,600	40,600	32.5	296.6	15,400	35,800	250
255					12.6	247.3	20,400	39,200	29.2	287.9	14,500	34,700	255
260									25.6	277.9	13,600	33,500	260
265									21.4	265.8	12,700	32,400	265
270									16.1	250.3	11,900	31,300	270

MLC300 VPC-MAX S-1

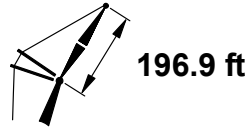
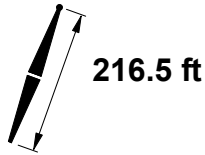
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
85	73.4	412.0	130,300	130,300									85
90	71.9	410.4	130,300	130,300									90
95	70.3	408.6	130,000	130,000									95
100	68.8	406.6	129,600	129,600	71.1	408.6	129,500	129,500					100
105	67.2	404.5	129,100	129,100	69.6	406.8	129,500	129,500					105
110	65.6	402.2	123,900	123,900	68.0	404.8	123,000	129,500					110
115	64.0	399.8	117,300	117,300	66.4	402.6	116,000	129,500					115
120	62.3	397.2	111,500	111,500	64.8	400.2	109,600	129,500	68.4	403.5	101,300	126,200	120
125	60.6	394.4	106,200	106,200	63.2	397.7	103,900	129,300	66.8	401.3	95,800	126,200	125
130	59.0	391.4	101,400	101,400	61.5	395.0	98,500	124,400	65.2	399.0	90,800	120,300	130
135	57.2	388.1	97,100	97,100	59.8	392.1	93,700	118,100	63.6	396.6	86,200	114,500	135
140	55.5	384.7	93,100	93,100	58.1	389.0	89,200	112,400	61.9	393.9	81,900	109,200	140
145	53.6	381.0	88,900	89,500	56.4	385.6	85,000	107,300	60.3	391.0	78,000	104,300	145
150	51.8	377.1	84,900	86,200	54.6	382.1	81,100	102,700	58.6	388.0	74,300	99,700	150
155	49.9	372.9	81,100	83,100	52.8	378.3	77,500	98,500	56.8	384.7	70,800	95,500	155
160	47.9	368.4	77,600	80,400	50.9	374.2	74,200	94,200	55.0	381.2	67,600	91,500	160
165	45.9	363.6	74,400	77,800	49.0	369.9	71,000	89,400	53.2	377.5	64,500	87,800	165
170	43.8	358.5	71,300	75,400	47.0	365.3	67,900	84,900	51.4	373.5	61,700	84,300	170
175	41.7	352.9	68,400	73,200	44.9	360.3	65,000	80,700	49.5	369.3	59,000	81,100	175
180	39.4	346.9	65,700	71,300	42.8	354.9	62,300	76,900	47.5	364.7	56,400	78,000	180
185	37.0	340.3	63,200	68,100	40.6	349.2	59,700	73,200	45.4	359.8	54,000	75,100	185
190	34.4	333.1	60,700	65,000	38.2	342.9	57,300	69,800	43.3	354.5	51,700	72,300	190
195	31.7	325.2	58,400	62,100	35.8	336.0	55,000	66,600	41.1	348.9	49,500	69,700	195
200	28.7	316.3	56,200	59,300	33.1	328.5	52,700	63,600	38.8	342.7	47,500	67,300	200
205	25.5	306.2	54,000	56,600	30.3	320.2	50,600	60,800	36.4	336.1	45,500	64,900	205
210	21.7	294.3	51,900	54,100	27.2	310.7	48,600	58,100	33.8	328.7	43,600	62,700	210
215	17.1	279.4	49,800	51,700	23.7	299.8	46,700	55,500	31.0	320.6	41,800	60,600	215
220	10.7	257.9	44,200	44,200	19.6	286.7	44,800	53,000	28.0	311.5	40,100	58,500	220
225					14.4	269.4	42,900	50,400	24.6	301.0	38,400	56,200	225
230					4.8	236.9	41,000	41,200	20.7	288.5	36,800	53,700	230
235									15.9	272.6	35,300	51,300	235
240									8.5	247.7	33,700	47,000	240
245													245
250													250
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MLC300 VPC-MAX S-1

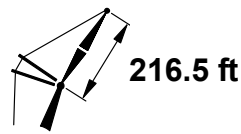
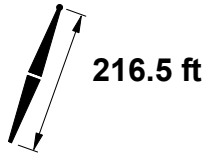
ASME B30.5



ft	75°				70°				65°				ft
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	lb	
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155	63.1	391.5	59,400	86,600									155
160	61.4	388.8	56,500	82,900									160
165	59.8	385.9	53,800	79,500									165
170	58.0	382.7	51,300	76,300									170
175	56.3	379.4	48,900	73,300									175
180	54.5	375.9	46,600	70,400									180
185	52.7	372.1	44,500	67,700									185
190	50.8	368.0	42,500	65,200	57.4	375.6	33,500	58,200					190
195	48.9	363.7	40,600	62,800	55.6	372.2	31,800	56,000					195
200	46.9	359.0	38,800	60,500	53.8	368.5	30,200	53,900					200
205	44.8	354.0	37,000	58,400	52.0	364.7	28,700	51,900					205
210	42.7	348.6	35,400	56,300	50.1	360.5	27,300	50,100					210
215	40.5	342.8	33,800	54,400	48.1	356.0	25,900	48,300					215
220	38.1	336.5	32,300	52,500	46.1	351.2	24,600	46,600	52.9	359.2	17,000	40,800	220
225	35.7	329.7	30,800	50,700	44.0	346.1	23,300	44,900	51.0	355.2	16,000	39,300	225
230	33.0	322.1	29,400	49,000	41.9	340.6	22,100	43,400	49.1	350.9	14,900	37,800	230
235	30.2	313.7	28,100	47,400	39.6	334.6	20,900	41,900	47.1	346.2	13,900	36,500	235
240	27.1	304.2	26,800	45,800	37.2	328.1	19,800	40,400	45.1	341.3	13,000	35,200	240
245	23.5	293.3	25,600	44,300	34.7	321.0	18,700	39,100	43.0	336.0	12,100	33,900	245
250	19.4	280.0	24,300	42,800	32.0	313.1	17,700	37,700	40.7	330.2	11,200	32,700	250
255	14.1	262.5	23,100	41,400	29.0	304.4	16,700	36,500	38.4	324.0	10,300	31,600	255
260	3.8	227.6	21,800	39,900	25.8	294.4	15,700	35,200	36.0	317.2		30,400	260
265					22.1	282.6	14,800	34,000	33.3	309.7		29,400	265
270					17.6	268.1	13,800	32,900	30.5	301.4		28,300	270
280									24.0	281.3		26,300	280
290									14.8	251.6		24,400	290

MLC300 VPC-MAX S-1

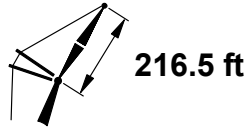
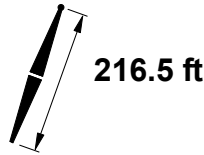
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
90	73.6	431.1	113,200	113,200									90
95	72.2	429.5	113,100	113,100									95
100	70.8	427.7	112,900	112,900									100
105	69.4	425.8	112,700	112,700	71.5	427.8	112,000	112,000					105
110	67.9	423.8	112,300	112,300	70.1	425.9	112,000	112,000					110
115	66.5	421.6	111,800	111,800	68.7	424.0	112,000	112,000					115
120	65.0	419.3	111,300	111,300	67.2	421.9	108,200	112,000					120
125	63.6	416.8	106,100	106,100	65.8	419.6	102,400	112,000					125
130	62.1	414.1	101,200	101,200	64.3	417.2	97,100	112,000	67.6	420.6	88,600	109,000	130
135	60.5	411.3	96,600	96,700	62.8	414.7	92,300	111,700	66.2	418.4	84,000	109,000	135
140	59.0	408.3	91,900	92,600	61.3	411.9	87,700	111,400	64.7	416.1	79,800	107,700	140
145	57.4	405.1	87,600	88,900	59.8	409.0	83,500	108,600	63.2	413.5	75,800	102,800	145
150	55.8	401.7	83,600	85,500	58.2	405.9	79,500	103,400	61.7	410.8	72,200	98,200	150
155	54.2	398.1	79,900	82,300	56.7	402.6	75,800	98,000	60.2	408.0	68,700	94,000	155
160	52.5	394.3	76,400	79,500	55.0	399.2	72,400	92,800	58.6	404.9	65,500	90,000	160
165	50.8	390.3	73,100	76,800	53.4	395.4	69,100	88,000	57.1	401.7	62,500	86,300	165
170	49.1	386.0	70,100	74,300	51.7	391.5	66,100	83,600	55.5	398.3	59,600	82,900	170
175	47.3	381.4	67,200	72,000	50.0	387.3	63,200	79,500	53.8	394.6	56,900	79,600	175
180	45.4	376.5	64,500	69,900	48.2	382.9	60,500	75,600	52.1	390.7	54,400	76,600	180
185	43.5	371.2	61,900	67,000	46.4	378.1	57,900	72,100	50.4	386.6	52,000	73,700	185
190	41.5	365.6	59,300	63,900	44.5	373.1	55,500	68,700	48.7	382.2	49,800	70,900	190
195	39.5	359.6	56,900	61,000	42.6	367.7	53,200	65,500	46.9	377.6	47,600	68,400	195
200	37.3	353.1	54,600	58,300	40.5	361.9	51,000	62,600	45.0	372.6	45,600	65,900	200
205	35.0	346.1	52,400	55,700	38.4	355.7	48,900	59,800	43.1	367.3	43,600	63,600	205
210	32.6	338.4	50,400	53,300	36.2	348.9	46,900	57,100	41.1	361.6	41,800	61,400	210
215	30.0	330.0	48,400	50,900	33.9	341.6	45,000	54,600	39.0	355.5	40,000	59,300	215
220	27.2	320.5	46,500	48,700	31.3	333.5	43,200	52,200	36.8	348.9	38,300	57,200	220
225	24.0	309.7	44,600	46,300	28.6	324.6	41,500	49,900	34.5	341.7	36,700	55,300	225
230	20.4	296.9	42,800	43,700	25.7	314.5	39,800	47,700	32.0	333.9	35,100	52,900	230
235	16.0	281.0	41,100	41,200	22.3	302.9	38,200	45,500	29.4	325.2	33,600	50,600	235
240	9.6	257.6	35,100	35,100	18.4	288.8	36,600	42,900	26.5	315.4	32,200	48,300	240
245					13.3	270.3	35,000	40,400	23.2	304.3	30,800	46,200	245
250					2.9	231.4	32,500	32,500	19.4	290.9	29,400	44,100	250
255									14.7	273.9	28,100	41,600	255
260									7.3	246.3	26,700	37,700	260
265													265
270													270
280													280
290													290
300													300
310													310

MLC300 VPC-MAX S-1

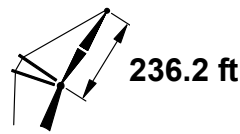
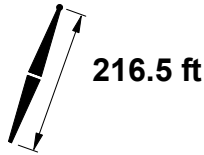
ASME B30.5



ft	75°				70°				65°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb		
90												90	
95												95	
100												100	
105												105	
110												110	
115												115	
120												120	
125												125	
130												130	
135												135	
140												140	
145												145	
150												150	
155												155	
160												160	
165												165	
170	62.8	408.5	51,500	77,800								170	
175	61.3	405.7	49,000	74,600								175	
180	59.7	402.8	46,600	71,600								180	
185	58.2	399.7	44,400	68,800								185	
190	56.6	396.4	42,300	66,100								190	
195	55.0	392.9	40,300	63,600								195	
200	53.3	389.2	38,400	61,200	57.6	392.6	27,800	52,200				200	
205	51.6	385.3	36,600	59,000	56.0	389.2	26,300	50,200				205	
210	49.9	381.1	34,900	56,800	54.4	385.6	24,900	48,300				210	
215	48.1	376.6	33,300	54,800								215	
220	46.3	371.9	31,700	52,900	52.7	381.8	23,600	46,600				220	
225	44.4	366.8	30,200	51,000	51.0	377.8	22,300	44,900				225	
230	42.5	361.4	28,800	49,200	49.2	373.5	21,000	43,300				230	
235	40.5	355.6	27,400	47,600	47.5	369.0	19,800	41,700	53.5	376.3	36,000	235	
240	38.3	349.3	26,100	45,900	45.6	364.1	18,700	40,200	51.8	372.4	34,700	240	
245	36.1	342.6	24,900	44,400	43.7	358.9	17,600	38,800	50.1	368.3	33,400	245	
250	33.8	335.2	23,700	42,900	41.7	353.3	16,600	37,500	48.4	363.8	32,200	250	
255	31.2	327.1	22,500	41,500	39.7	347.4	15,600	36,200	46.5	359.1	31,000	255	
260	28.5	318.2	21,400	40,100	37.5	340.9	14,600	34,900	44.7	354.1	29,900	260	
265	25.5	308.0	20,300	38,800	35.2	333.9	13,700	33,700	42.7	348.7	28,800	265	
270	22.2	296.3	19,200	37,500	32.8	326.3	12,800	32,600	40.7	343.0	27,700	270	
280	18.2	282.1	18,100	36,200	30.2	317.9	11,900	31,400	38.6	336.8	26,700	280	
290					24.3	297.9	10,200	29,300	34.0	322.8	24,800	290	
300					16.4	269.8		27,300	28.9	305.9	23,000	300	
310									22.6	284.5	21,200	310	
									13.8	252.6	19,600		

MLC300 VPC-MAX S-1

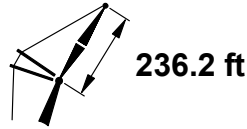
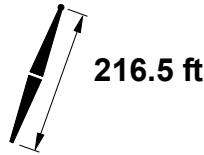
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
95	73.7	450.1	98,200	98,200									95
100	72.4	448.5	98,000	98,000									100
105	71.2	446.8	97,800	97,800									105
110	69.9	445.0	97,500	97,500	71.8	446.9	96,700	96,700					110
115	68.6	443.0	97,200	97,200	70.5	445.1	96,700	96,700					115
120	67.3	440.9	96,800	96,800	69.2	443.2	96,700	96,700					120
125	65.9	438.7	96,400	96,400	67.9	441.2	96,700	96,700					125
130	64.6	436.3	96,000	96,000	66.6	439.0	96,400	96,600					130
135	63.2	433.8	95,200	95,200	65.3	436.7	91,500	96,500	68.3	439.9	83,100	93,500	135
140	61.8	431.1	91,500	92,600	63.9	434.2	86,900	96,200	66.9	437.8	78,800	93,500	140
145	60.5	428.3	87,200	89,100	62.6	431.6	82,700	95,000	65.6	435.5	74,900	93,500	145
150	59.0	425.3	83,200	85,600	61.2	428.9	78,700	93,400	64.3	433.1	71,200	93,500	150
155	57.6	422.1	79,400	82,400	59.8	426.0	75,100	91,700	62.9	430.5	67,800	93,400	155
160	56.1	418.8	76,000	79,300	58.3	422.9	71,600	90,200	61.5	427.8	64,600	89,400	160
165	54.7	415.2	72,700	76,600	56.9	419.6	68,400	87,900	60.1	424.9	61,600	85,700	165
170	53.1	411.5	69,700	74,000	55.4	416.2	65,400	83,600	58.7	421.9	58,800	82,300	170
175	51.6	407.5	66,800	71,600	53.9	412.6	62,500	79,500	57.3	418.7	56,100	79,000	175
180	50.0	403.4	64,000	69,400	52.4	408.7	59,800	75,600	55.8	415.3	53,600	76,000	180
185	48.4	398.9	61,300	66,900	50.8	404.7	57,300	72,000	54.3	411.7	51,200	73,100	185
190	46.7	394.3	58,800	63,900	49.2	400.4	54,900	68,700	52.8	407.9	49,000	70,400	190
195	45.0	389.3	56,400	61,000	47.6	395.8	52,600	65,500	51.2	403.9	46,900	67,800	195
200	43.3	384.0	54,100	58,300	45.9	391.0	50,400	62,500	49.6	399.7	44,800	65,400	200
205	41.4	378.4	51,900	55,700	44.2	385.9	48,300	59,700	48.0	395.2	42,900	63,100	205
210	39.5	372.4	49,900	53,200	42.4	380.4	46,300	57,100	46.3	390.5	41,100	60,900	210
215	37.6	366.0	47,900	50,900	40.5	374.6	44,500	54,600	44.6	385.4	39,300	58,800	215
220	35.5	359.0	46,000	48,700	38.6	368.4	42,700	52,200	42.8	380.1	37,600	56,800	220
225	33.3	351.5	44,200	46,500	36.6	361.8	40,900	49,900	41.0	374.4	36,000	54,900	225
230	31.0	343.4	42,500	44,000	34.4	354.6	39,300	47,700	39.1	368.3	34,500	52,900	230
235	28.5	334.4	40,800	41,500	32.2	346.8	37,700	45,700	37.1	361.7	33,000	50,600	235
240	25.8	324.3	39,200	39,200	29.8	338.2	36,200	43,200	35.0	354.7	31,600	48,400	240
245	22.7	312.9	36,900	36,900	27.2	328.8	34,700	40,800	32.8	347.0	30,300	46,300	245
250	19.2	299.3	34,800	34,800	24.3	318.1	33,300	38,500	30.4	338.7	29,000	44,300	250
255	14.9	282.3	32,600	32,600	21.1	305.7	31,900	36,300	27.9	329.5	27,700	41,900	255
260	8.6	256.9	28,700	28,700	17.3	290.8	30,600	34,000	25.1	319.1	26,500	39,600	260
265					12.3	270.9	29,300	31,900	22.0	307.3	25,300	37,300	265
270									18.3	293.1	24,100	35,100	270
280									6.2	244.4	21,800	30,800	280
290													290
300													300
310													310
320													320
330													330

MLC300 VPC-MAX S-1

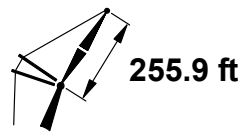
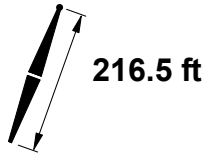
ASME B30.5



ft	75°				70°				65°			
	ft	ft	lb	lb	ft	ft	lb	lb	ft	ft	lb	ft
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170	63.9	428.1	47,900	73,800								170
175	62.5	425.4	45,600	70,900								175
180	61.1	422.7	43,400	68,000								180
185	59.7	419.8	41,300	65,400								185
190	58.3	416.7	39,300	62,900								190
195	56.8	413.4	37,400	60,500								195
200	55.4	410.0	35,700	58,300								200
205	53.9	406.3	34,000	56,200								205
210	52.3	402.5	32,400	54,200	57.7	409.6	23,800	47,600				210
215	50.8	398.4	30,800	52,200	56.3	406.2	22,500	45,800				215
220	49.2	394.1	29,400	50,400	54.8	402.7	21,200	44,100				220
225	47.5	389.6	28,000	48,600	53.3	399.0	20,000	42,500				225
230	45.8	384.7	26,600	47,000	51.7	395.1	18,800	41,000				230
235	44.1	379.6	25,300	45,400	50.2	390.9	17,700	39,500				235
240	42.3	374.1	24,100	43,800	48.5	386.5	16,700	38,100				240
245	40.5	368.3	22,900	42,400	46.9	381.8	15,600	36,800	52.5	389.6	31,400	245
250	38.5	362.1	21,800	41,000	45.2	376.9	14,700	35,500	51.0	385.6	30,200	250
255	36.5	355.4	20,700	39,600	43.4	371.7	13,700	34,300	49.4	381.3	29,100	255
260	34.4	348.2	19,600	38,300	41.6	366.1	12,800	33,100	47.7	376.8	28,000	260
265	32.1	340.4	18,600	37,100	39.7	360.1	11,900	32,000	46.0	372.0	27,000	265
270	29.7	331.8	17,600	35,800	37.8	353.7	11,100	30,900	44.3	366.9	26,000	270
280	24.2	311.5	15,700	33,500	33.5	339.4		28,800	40.7	355.7	24,100	280
290	17.1	284.0	13,800	31,400	28.7	322.4		26,800	36.7	342.9	22,300	290
300					23.0	301.1		25,000	32.4	328.0	20,700	300
310					15.4	271.3		23,200	27.4	310.1	19,100	310
320									21.4	287.4	17,600	320
330									12.8	253.3	16,100	330

MLC300 VPC-MAX S-1

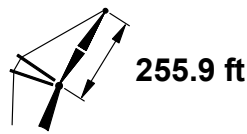
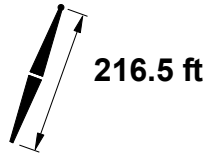
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
100	73.8	469.2	84,500	84,500									100
105	72.7	467.6	84,300	84,300									105
110	71.5	465.9	84,100	84,100									110
115	70.3	464.1	83,800	83,800									115
120	69.1	462.2	83,400	83,400	70.9	464.2	82,900	82,900					120
125	67.9	460.2	83,100	83,100	69.7	462.4	82,800	82,800					125
130	66.7	458.0	82,700	82,700	68.5	460.4	82,700	82,700					130
135	65.4	455.7	82,300	82,300	67.3	458.3	82,500	82,500					135
140	64.2	453.3	81,800	81,800	66.1	456.1	82,300	82,300	68.8	459.1	77,200	79,600	140
145	62.9	450.8	81,300	81,300	64.8	453.7	81,200	82,000	67.6	457.0	73,200	79,600	145
150	61.7	448.1	80,900	80,900	63.6	451.2	77,300	81,700	66.4	454.9	69,600	79,600	150
155	60.4	445.2	78,500	78,900	62.3	448.6	73,600	81,400	65.1	452.5	66,200	79,600	155
160	59.1	442.2	75,000	76,700	61.0	445.8	70,200	81,100	63.9	450.1	63,000	79,600	160
165	57.7	439.1	71,600	74,400	59.7	442.9	66,900	80,800	62.6	447.5	60,000	79,600	165
170	56.4	435.8	68,400	71,900	58.4	439.9	63,900	78,400	61.4	444.8	57,200	79,600	170
175	55.0	432.3	65,400	68,300	57.1	436.6	61,100	74,600	60.1	441.9	54,600	77,900	175
180	53.7	428.6	62,600	64,900	55.7	433.2	58,400	70,900	58.8	438.9	52,100	74,900	180
185	52.2	424.7	60,000	61,600	54.4	429.6	55,900	67,300	57.4	435.7	49,700	72,000	185
190	50.8	420.7	57,500	58,300	53.0	425.9	53,500	63,900	56.1	432.3	47,500	69,300	190
195	49.3	416.4	55,100	55,100	51.5	421.9	51,200	60,600	54.7	428.8	45,300	66,700	195
200	47.8	411.9	51,900	51,900	50.1	417.8	49,000	57,400	53.3	425.1	43,300	64,300	200
205	46.3	407.1	48,800	48,800	48.6	413.4	47,000	54,300	51.9	421.2	41,400	62,000	205
210	44.7	402.1	45,800	45,800	47.1	408.7	45,000	51,100	50.5	417.0	39,600	58,900	210
215	43.0	396.8	42,900	42,900	45.5	403.8	43,100	48,000	49.0	412.7	37,900	55,800	215
220	41.4	391.1	40,100	40,100	43.9	398.7	41,300	45,000	47.5	408.1	36,200	52,800	220
225	39.6	385.1	37,400	37,400	42.2	393.2	39,600	42,100	45.9	403.3	34,600	49,600	225
230	37.8	378.8	34,800	34,800	40.5	387.4	38,000	39,300	44.3	398.2	33,100	46,500	230
235	35.9	371.9	32,200	32,200	38.7	381.2	36,400	36,600	42.7	392.8	31,600	43,500	235
240	33.9	364.6	29,800	29,800	36.9	374.6	34,000	34,000	41.0	387.1	30,300	40,700	240
245	31.8	356.7	27,500	27,500	34.9	367.6	31,500	31,500	39.2	381.0	28,900	37,900	245
250	29.6	348.0	25,200	25,200	32.9	359.9	29,000	29,000	37.4	374.6	27,600	35,200	250
255	27.2	338.5	23,000	23,000	30.7	351.7	26,800	26,800	35.4	367.6	26,400	32,700	255
260	24.5	327.9	20,800	20,800	28.4	342.6	24,500	24,500	33.4	360.1	25,200	30,200	260
265	21.6	315.8	18,600	18,600	25.9	332.6	22,200	22,200	31.3	352.1	24,000	27,800	265
270	18.2	301.5	16,400	16,400	23.2	321.3	20,000	20,000	29.0	343.2	22,900	25,500	270
280	7.7	255.8	12,100	12,100	16.3	292.5	15,700	15,700	23.9	322.6	20,800	21,100	280
290									17.3	295.1	16,700	16,700	290
300									5.1	241.6	12,400	12,400	300
310													310
320													320
330													330
340													340
350													350

MLC300 VPC-MAX S-1

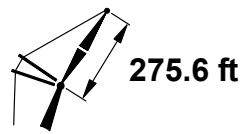
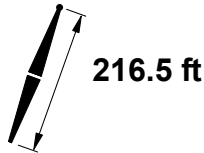
ASME B30.5



ft	75°				70°				65°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb		
100												100	
105												105	
110												110	
115												115	
120												120	
125												125	
130												130	
135												135	
140												140	
145												145	
150												150	
155												155	
160												160	
165												165	
170												170	
175												175	
180	63.5	445.0	41,600	66,800								180	
185	62.3	442.4	39,500	64,100								185	
190	61.0	439.6	37,600	61,600								190	
195	59.7	436.7	35,700	59,300								195	
200	58.4	433.6	34,000	57,100								200	
205	57.0	430.4	32,300	55,000								205	
210	55.7	427.0	30,700	52,900								210	
215	54.3	423.4	29,200	51,000								215	
220	52.9	419.6	27,700	49,200	57.9	426.5	19,400	42,800				220	
225	51.5	415.7	26,300	47,500	56.5	423.2	18,200	41,200				225	
230	50.0	411.5	25,000	45,800	55.2	419.8	17,100	39,700				230	
235	48.5	407.1	23,700	44,200	53.8	416.1	16,000	38,300				235	
240	47.0	402.5	22,500	42,700	52.4	412.3	14,900	36,900				240	
245	45.4	397.6	21,300	41,300	50.9	408.2	13,900	35,500				245	
250	43.8	392.4	20,200	39,900	49.5	404.0	13,000	34,300				250	
255	42.2	386.9	19,100	38,500	48.0	399.5	12,000	33,100	53.1	406.8	27,700	255	
260	40.4	381.1	18,100	37,200	46.4	394.7	11,100	31,900	51.7	402.8	26,700	260	
265	38.7	374.9	17,100	36,000	44.8	389.7	10,300	30,700	50.2	398.7	25,600	265	
270	36.8	368.3	16,100	34,800	43.2	384.4		29,700	48.7	394.3	24,700	270	
280	32.8	353.5	14,300	30,300	39.8	372.9		27,600	45.6	384.8	22,800	280	
290	28.3	336.2	12,500	25,600	36.1	359.7		25,700	42.4	374.2	21,100	290	
300	23.0	314.8	10,900	21,200	32.0	344.6		23,900	38.9	362.3	19,400	300	
310	16.2	285.7		16,800	27.4	326.6		22,200	35.1	348.7	17,900	310	
320					21.9	304.1		20,600	30.9	332.9	16,500	320	
330					14.5	272.5		16,800	26.1	314.0	15,100	330	
340									20.3	290.0	13,800	340	
350									11.9	253.8	12,500	350	

MLC300 VPC-MAX S-1

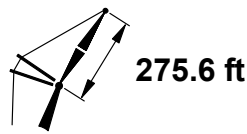
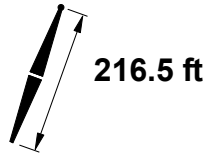
ASME B30.5



ft	85°				83°				80°				ft
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	lb	
105	73.9	488.2	72,000	72,000									105
110	72.9	486.7	71,700	71,700									110
115	71.8	485.0	71,300	71,300									115
120	70.7	483.3	70,900	70,900									120
125	69.5	481.4	70,500	70,500	71.2	483.3	70,200	70,200					125
130	68.4	479.4	70,100	70,100	70.1	481.5	69,900	69,900					130
135	67.3	477.3	69,600	69,600	69.0	479.6	69,700	69,700					135
140	66.2	475.1	68,200	68,200	67.9	477.6	69,300	69,300					140
145	65.0	472.8	66,800	66,800	66.7	475.4	69,000	69,000					145
150	63.9	470.3	65,600	65,600	65.6	473.1	67,900	67,900	68.2	476.3	67,100	67,100	150
155	62.7	467.8	64,400	64,400	64.5	470.7	66,600	66,600	67.0	474.2	65,200	67,000	155
160	61.5	465.0	63,200	63,200	63.3	468.2	65,400	65,400	65.9	471.9	62,000	66,900	160
165	60.3	462.2	62,100	62,100	62.1	465.6	64,200	64,200	64.8	469.6	59,000	66,700	165
170	59.1	459.2	61,000	61,000	60.9	462.8	63,000	63,000	63.6	467.1	56,200	65,900	170
175	57.9	456.1	60,000	60,000	59.7	459.9	60,200	62,000	62.4	464.5	53,600	64,800	175
180	56.6	452.8	59,000	59,000	58.5	456.8	57,500	60,900	61.2	461.7	51,100	63,600	180
185	55.4	449.3	58,100	58,100	57.3	453.6	55,000	60,000	60.0	458.8	48,700	62,600	185
190	54.1	445.7	56,700	57,300	56.0	450.2	52,600	59,000	58.8	455.8	46,500	61,600	190
195	52.8	441.9	54,300	55,900	54.7	446.7	50,400	58,200	57.6	452.6	44,400	60,600	195
200	51.5	437.9	52,100	53,000	53.5	443.0	48,200	57,300	56.3	449.3	42,400	59,700	200
205	50.1	433.8	49,900	50,200	52.1	439.1	46,200	55,100	55.1	445.8	40,500	58,700	205
210	48.7	429.4	47,400	47,400	50.8	435.1	44,200	52,100	53.8	442.2	38,700	57,900	210
215	47.3	424.8	44,800	44,800	49.4	430.8	42,400	49,300	52.5	438.4	37,000	56,600	215
220	45.9	420.0	42,300	42,300	48.0	426.3	40,600	46,600	51.1	434.3	35,300	53,600	220
225	44.4	414.9	39,900	39,900	46.6	421.6	38,900	44,000	49.8	430.1	33,800	50,700	225
230	42.9	409.5	37,600	37,600	45.1	416.7	37,300	41,500	48.4	425.7	32,300	47,900	230
235	41.3	403.9	35,400	35,400	43.6	411.5	35,700	39,100	47.0	421.0	30,800	45,200	235
240	39.7	397.9	33,200	33,200	42.1	406.0	34,200	36,800	45.5	416.2	29,400	42,700	240
245	38.0	391.6	31,100	31,100	40.5	400.1	32,800	34,600	44.0	411.0	28,100	40,300	245
250	36.2	384.8	29,000	29,000	38.9	394.0	31,400	32,500	42.5	405.6	26,800	37,900	250
255	34.4	377.6	27,000	27,000	37.1	387.4	30,100	30,400	40.9	399.9	25,600	35,600	255
260	32.5	369.8	24,900	24,900	35.4	380.5	28,300	28,300	39.3	393.8	24,400	33,500	260
265	30.5	361.5	22,900	22,900	33.5	373.0	26,300	26,300	37.6	387.4	23,300	31,400	265
270	28.3	352.4	20,900	20,900	31.5	365.0	24,200	24,200	35.8	380.5	22,200	29,300	270
280	23.4	331.2	16,900	16,900	27.2	346.8	20,200	20,200	32.0	365.3	20,100	25,200	280
290	17.3	303.4	13,000	13,000	22.1	324.4	16,300	16,300	27.8	347.5	18,200	21,200	290
300					15.4	293.9	12,300	12,300	22.8	325.8	16,300	17,200	300
310									16.4	296.8	13,300	13,300	310
320													320
330													330
340													340
350													350
360													360

MLC300 VPC-MAX S-1

ASME B30.5



ft	75°				70°				65°				
	ft	lb	lb	lb	ft	lb	lb	lb	ft	lb	lb	ft	
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190	63.2	462.0	36,500	60,800									190
195	62.1	459.4	34,600	58,500									195
200	60.9	456.6	32,900	56,300									200
205	59.7	453.7	31,200	54,200									205
210	58.5	450.6	29,600	52,200									210
215	57.2	447.4	28,100	50,300									215
220	56.0	444.0	26,700	48,500									220
225	54.7	440.5	25,300	46,700									225
230	53.4	436.8	24,000	45,100	58.0	443.5	15,900	38,900					230
235	52.1	432.9	22,800	43,500	56.7	440.2	14,900	37,400					235
240	50.7	428.8	21,600	42,000	55.5	436.8	13,800	36,100					240
245	49.4	424.5	20,400	40,600	54.2	433.2	12,800	34,800					245
250	48.0	420.1	19,300	39,200	52.9	429.4	11,900	33,500					250
255	46.5	415.3	18,200	37,800	51.6	425.5	11,000	32,300					255
260	45.1	410.4	17,200	36,600	50.2	421.3	10,100	31,100					260
265	43.6	405.2	16,200	35,300	48.8	417.0		30,000	53.6	423.9	24,800		265
270	42.0	399.6	15,200	34,200	47.4	412.4		28,900	52.2	420.0	23,800		270
280	38.8	387.7	13,400	31,900	44.5	402.5		26,900	49.5	411.7	22,000		280
290	35.3	374.1	11,700	29,300	41.4	391.6		25,000	46.7	402.6	20,300		290
300	31.4	358.6	10,100	25,200	38.1	379.3		23,200	43.8	392.5	18,700		300
310	27.1	340.3		21,300	34.6	365.4		21,500	40.6	381.2	17,200		310
320	22.0	317.8		17,400	30.7	349.4		20,000	37.3	368.6	15,800		320
330	15.3	287.1		13,400	26.2	330.5		18,500	33.6	354.2	14,400		330
340					20.9	306.9		17,100	29.6	337.6	13,100		340
350					13.6	273.5		13,400	25.0	317.7	11,700		350
360									19.3	292.4	10,400		360