

Liftcrane Jib Capacities

Jib No. 148 on
 Boom No. B60:500
 with Mast No. M10:503 or Mast No. M11:503
 297,800 lb VPC (Variable Position Counterweight)
 360 Degree Rating

MLC300 VPC-MAX SERIES 1



LIFTING CAPACITIES: Chart supplements Boom Capacity chart No. 9433-A. Lifting capacities for various boom lengths, jib lengths, and jib operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components. Capacities must be reduced by applicable deducts.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves is considered part of load. Boom and jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

BOOM BACKWARD STABILITY: Capacities indicated by (b) requires 2,400 lb minimum weight suspended beneath jib point. **Caution: Do not operate in areas indicated by (b) without required minimum weight.** Boom and jib may not lower and boom hoist wire rope may go slack causing wire rope damage or failure.

OPERATING CONDITIONS: Machine to operate on a firm, level, and uniformly supporting surface. Refer to Jib Rigging No. 84049566, Mast Rigging No. 81025690 or No. 84045340, Wire Rope Specification chart No. 9366-A, Counterweight Arrangement No. 9345-A, and Wind Conditions chart No. 9480-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 must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart No. 9619-A.



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



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



JIB POINT ELEVATION: Jib point elevation is vertical distance from ground level to centerline of 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, and 297,800 lb VPC.

Luffing Jib Backstay Deduct	
Boom Length (ft)	Deduct (lb)
137.8	4,100
157.5	4,600
177.2	5,200
196.9	5,800
216.5	6,400
236.2	6,900
255.9	7,500
275.6	8,100
295.3	8,700
315.0	9,300
334.6	9,800
354.3	10,400
Deduct the appropriate value from capacities when luffing jib backstays are stored on boom.	

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Refer to Table 1 (with luffing jib backstays stored) and Table 2 (without luffing jib backstays stored) for raising ability with the maximum weight of all load blocks, hooks, weight balls, slings, and hoist lines beneath boom and jib point sheaves. For block weights shown with #, load blocks, hooks, weight balls, and slings must remain on ground until combined weights are within rated capacity of chart. Raising is not permitted in shaded areas of table.

Select counterweight position from Tables 1 or 2 that will allow raising and lowering of boom and jib length. Counterweight position selection may be changed with jib on ground or while jib is within operating range of capacity chart.

Combined weight beneath boom and jib point sheaves must not exceed block weight shown. Total weight beneath jib point must not exceed 6,200 lb.

Table 1a: With Luffing Jib Backstays

Over End or Side of Crawlers												
Boom Length (ft)	Counterweight Position											
	34.8 ft						48.0 ft					
	Jib Length (ft)											
	39.4	59.1	78.7	98.4	118.1	137.8	39.4	59.1	78.7	98.4	118.1	137.8
Block Weight (lb)												
137.8	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
157.5	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
177.2	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
196.9	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
216.5	22,900	22,900	22,900	22,900	22,900	15,800	22,900	22,900	22,900	22,900	22,900	22,900
236.2	15,800	15,800	15,800	8,300	8,300	8,300	22,900	22,900	22,900	22,900	22,900	22,900
255.9	8,300	8,300	8,300	#	#	#	22,900	22,900	22,900	22,900	15,800	15,800
275.6	#	#	#	#			15,800	15,800	15,800	8,300	8,300	8,300
295.3	#						8,300	8,300	8,300	8,300	#	#
315.0												
334.6	Raising Not Permitted											
354.3	Raising Not Permitted											

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Table 1b: With Luffing Jib Backstays

Over End of Blocked Crawlers												
Boom Length (ft)	Counterweight Position											
	34.8 ft						48.0 ft					
	Jib Length (ft)											
	39.4	59.1	78.7	98.4	118.1	137.8	39.4	59.1	78.7	98.4	118.1	137.8
	Block Weight (lb)											
137.8	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
157.5	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
177.2	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
196.9	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
216.5	22,900	22,900	22,900	22,900	22,900	15,800	22,900	22,900	22,900	22,900	22,900	22,900
236.2	15,800	15,800	15,800	8,300	8,300	8,300	22,900	22,900	22,900	22,900	22,900	22,900
255.9	8,300	8,300	8,300	#	#	#	22,900	22,900	22,900	22,900	15,800	15,800
275.6	#	#	#	#	#	#	15,800	15,800	15,800	8,300	8,300	8,300
295.3	#	#	#	#	#	#	8,300	8,300	8,300	8,300	#	#
315.0	Raising Not Permitted											
334.6												
354.3												
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. <i>Crane tipping or structural damage can occur.</i>												

REFERENCE

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Table 2a: Without Luffing Jib Backstays

Over End or Side of Crawlers												
Boom Length (ft)	Counterweight Position											
	34.8 ft						48.0 ft					
	Jib Length (ft)											
	39.4	59.1	78.7	98.4	118.1	137.8	39.4	59.1	78.7	98.4	118.1	137.8
Block Weight (lb)												
137.8	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
157.5	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
177.2	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
196.9	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
216.5	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
236.2	22,900	22,900	15,800	15,800	15,800	8,300	22,900	22,900	22,900	22,900	22,900	22,900
255.9	15,800	8,300	8,300	8,300	8,300	#	22,900	22,900	22,900	22,900	22,900	22,900
275.6	8,300	#	#	#	#	#	22,900	22,900	15,800	15,800	15,800	8,300
295.3	#	#	#	#	#	#	15,800	15,800	8,300	8,300	8,300	8,300
315.0	#	#	#	#	#	#	8,300	8,300	#	#	#	#
334.6	Raising Not Permitted						#	#	#	#	#	#
354.3	Raising Not Permitted						#	Raising Not Permitted				

Table 2b: Without Luffing Jib Backstays

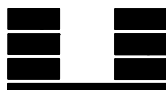
Over End of Blocked Crawlers												
Boom Length (ft)	Counterweight Position											
	34.8 ft						48.0 ft					
	Jib Length (ft)											
	39.4	59.1	78.7	98.4	118.1	137.8	39.4	59.1	78.7	98.4	118.1	137.8
Block Weight (lb)												
137.8	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
157.5	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
177.2	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
196.9	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
216.5	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
236.2	22,900	22,900	15,800	15,800	15,800	8,300	22,900	22,900	22,900	22,900	22,900	22,900
255.9	15,800	8,300	8,300	8,300	8,300	#	22,900	22,900	22,900	22,900	22,900	22,900
275.6	8,300	#	#	#	#	#	22,900	22,900	15,800	15,800	15,800	8,300
295.3	#	#	#	#	#	#	15,800	15,800	8,300	8,300	8,300	8,300
315.0	#	#	#	#	#	#	8,300	8,300	#	#	#	#
334.6	Raising Not Permitted						#	#	#	#	#	#
354.3	Raising Not Permitted						#	#	#	#	#	#

Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. Crane tipping or structural damage can occur.

Explanation of Symbols



Jib No. 148
+
Boom No. B60:500



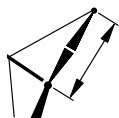
VPC (Variable Position Counterweight)



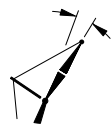
360 Degree Rating



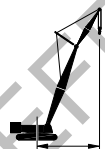
Boom Length



Jib Length



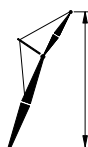
Jib Offset Angle



Operating Radius
(see page 1)



Boom Angle
(see page 1)



Jib Point Elevation
(see page 1)



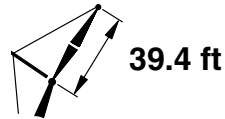
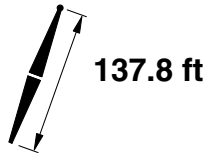
Counterweight Position
from Axis of Rotation



Lifting Capacities
(see page 1)

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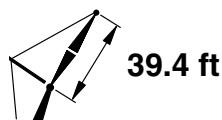
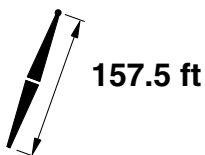
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ft	10°				20°				ft
	ft	°	ft	lb	lb	ft	lb	lb	
38	82.3	182.1	143,300	143,300					38
40	81.6	181.7	143,300	143,300					40
45	80.0	180.6	143,300	143,300	81.9	179.1	134,500	134,500	45
50	78.3	179.4	143,300	143,300	80.3	177.9	127,800	127,800	50
55	76.6	178.0	143,300	143,300	78.6	176.5	121,800	121,800	55
60	75.0	176.5	143,300	143,300	76.9	174.9	116,300	116,300	60
65	73.3	174.7	143,300	143,300	75.2	173.2	111,400	111,400	65
70	71.5	172.9	139,100	139,100	73.4	171.3	106,800	106,800	70
75	69.8	170.8	132,200	132,200	71.7	169.2	102,800	102,800	75
80	68.0	168.6	125,900	125,900	69.9	167.0	98,900	98,900	80
85	66.3	166.2	120,300	120,300	68.1	164.5	95,400	95,400	85
90	64.4	163.6	115,200	115,200	66.2	161.9	92,200	92,200	90
95	62.6	160.7	110,400	110,400	64.4	159.0	89,300	89,300	95
100	60.7	157.7	106,100	106,100	62.5	155.9	86,500	86,500	100
105	58.8	154.4	102,100	102,100	60.5	152.6	84,000	84,000	105
110	56.8	150.9	98,500	98,500	58.5	149.1	81,600	81,600	110
115	54.8	147.1	95,100	95,100	56.5	145.2	79,400	79,400	115
120	52.7	143.0	92,000	92,000	54.4	141.1	77,300	77,300	120
125	50.6	138.6	89,000	89,000	52.2	136.6	75,500	75,500	125
130	48.4	133.9	86,300	86,300	49.9	131.8	73,700	73,700	130
135	46.1	128.8	83,800	83,800	47.6	126.6	72,000	72,000	135
140	43.6	123.2	81,500	81,500	45.1	120.9	70,500	70,500	140
145	41.1	117.1	79,300	79,300	42.6	114.7	69,100	69,100	145
150	38.4	110.4	77,300	77,300	39.8	107.8	67,900	67,900	150
155	35.5	103.0	75,500	75,500	36.8	100.2	66,800	66,800	155
160	32.4	94.7	73,100	73,800	33.6	91.6	65,700	65,700	160
165	29.0	85.2	69,700	72,300	30.0	81.7	64,900	64,900	165
170	25.0	74.0	66,400	70,900					170

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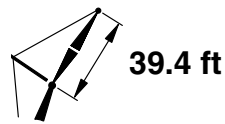
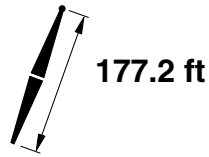
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	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
32	84.8	203.0	143,300b	143,300b					32
34	84.2	202.7	143,300	143,300					34
36	83.6	202.4	143,300	143,300					36
38	83.1	202.1	143,300	143,300	84.8	200.5	143,300b	143,300b	38
40	82.5	201.7	143,300	143,300	84.2	200.2	143,300	143,300	40
45	81.0	200.7	143,300	143,300	82.8	199.2	137,700	137,700	45
50	79.5	199.6	143,300	143,300	81.3	198.1	131,300	131,300	50
55	78.0	198.4	143,300	143,300	79.8	196.8	125,600	125,600	55
60	76.5	197.0	143,300	143,300	78.2	195.4	120,300	120,300	60
65	75.0	195.5	143,300	143,300	76.7	193.9	115,600	115,600	65
70	73.5	193.8	143,300	143,300	75.2	192.2	111,200	111,200	70
75	71.9	192.0	140,400	140,400	73.6	190.4	107,100	107,100	75
80	70.4	190.0	134,000	134,000	72.0	188.4	103,400	103,400	80
85	68.8	187.9	128,200	128,200	70.5	186.2	100,000	100,000	85
90	67.2	185.6	122,900	122,900	68.8	183.9	96,800	96,800	90
95	65.6	183.2	118,100	118,100	67.2	181.4	93,700	93,700	95
100	63.9	180.5	113,600	113,600	65.6	178.8	91,000	91,000	100
105	62.3	177.7	109,500	109,500	63.9	175.9	88,400	88,400	105
110	60.6	174.6	105,700	105,700	62.2	172.8	86,000	86,000	110
115	58.9	171.4	102,200	102,200	60.4	169.6	83,700	83,700	115
120	57.1	167.9	98,900	98,900	58.6	166.1	81,700	81,700	120
125	55.3	164.2	95,800	95,800	56.8	162.3	79,700	79,700	125
130	53.4	160.3	93,000	93,000	54.9	158.3	77,800	77,800	130
135	51.5	156.1	90,300	90,300	53.0	154.0	76,100	76,100	135
140	49.6	151.6	87,800	87,800	51.0	149.5	74,500	74,500	140
145	47.6	146.7	83,800	85,400	49.0	144.5	73,000	73,000	145
150	45.5	141.5	79,600	83,200	46.9	139.2	71,500	71,500	150
155	43.3	135.9	75,700	81,200	44.6	133.5	70,200	70,200	155
160	41.0	129.8	72,000	79,300	42.3	127.4	69,000	69,000	160
165	38.6	123.2	68,600	77,500	39.9	120.6	67,900	67,900	165
170	36.1	116.0	65,400	75,800	37.3	113.2	65,800	66,900	170
180	30.4	99.1	59,500	72,800	31.4	95.8	59,700	65,200	180
190	23.3	76.8	54,100	70,400					190

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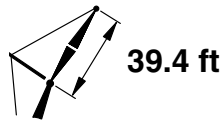
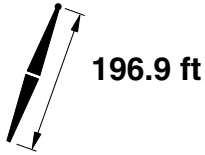
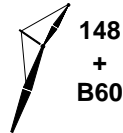
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
34	84.8	222.5	143,300	143,300					34
36	84.2	222.3	143,300	143,300					36
38	83.7	222.0	143,300	143,300					38
40	83.2	221.7	143,300	143,300	84.8	220.1	142,500	142,500	40
45	81.8	220.8	143,300	143,300	83.4	219.2	140,300	140,300	45
50	80.5	219.8	143,300	143,300	82.1	218.2	134,300	134,300	50
55	79.1	218.7	143,300	143,300	80.7	217.1	128,900	128,900	55
60	77.8	217.4	143,300	143,300	79.3	215.8	123,800	123,800	60
65	76.4	216.0	143,300	143,300	78.0	214.4	119,200	119,200	65
70	75.0	214.5	143,300	143,300	76.6	212.9	114,900	114,900	70
75	73.6	212.9	143,300	143,300	75.2	211.3	111,000	111,000	75
80	72.2	211.1	141,400	141,400	73.8	209.5	107,400	107,400	80
85	70.8	209.2	135,500	135,500	72.3	207.6	104,000	104,000	85
90	69.4	207.2	130,200	130,200	70.9	205.5	100,800	100,800	90
95	68.0	205.0	125,200	125,200	69.5	203.3	97,800	97,800	95
100	66.5	202.6	120,600	120,600	68.0	200.9	95,000	95,000	100
105	65.0	200.1	116,400	116,400	66.5	198.4	92,500	92,500	105
110	63.5	197.4	112,500	112,500	65.0	195.7	90,000	90,000	110
115	62.0	194.6	108,800	108,800	63.5	192.8	87,700	87,700	115
120	60.5	191.6	105,400	105,400	61.9	189.7	85,600	85,600	120
125	58.9	188.4	102,100	102,100	60.3	186.5	83,600	83,600	125
130	57.3	185.0	98,100	99,200	58.7	183.0	81,700	81,700	130
135	55.7	181.3	92,800	96,400	57.1	179.4	79,900	79,900	135
140	54.0	177.5	87,900	93,800	55.4	175.5	78,200	78,200	140
145	52.3	173.4	83,400	91,300	53.7	171.3	76,600	76,600	145
150	50.6	169.1	79,200	88,900	51.9	166.9	75,100	75,100	150
155	48.8	164.4	75,200	86,700	50.1	162.3	73,700	73,700	155
160	46.9	159.5	71,600	84,700	48.2	157.3	72,300	72,400	160
165	45.0	154.2	68,200	82,700	46.3	151.9	68,800	71,100	165
170	43.0	148.6	64,900	80,900	44.2	146.2	65,500	70,000	170
180	38.8	136.0	59,100	77,600	39.9	133.4	59,500	67,900	180
190	34.1	121.2	53,800	72,600	35.1	118.2	54,100	66,200	190
200	28.6	103.1	49,100	66,900	29.5	99.5	49,300	64,800	200
210	21.8	79.4	44,700	61,600					210

MLC300 VPC-MAX S-1

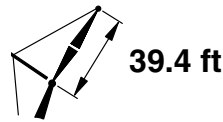
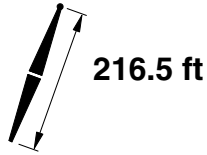
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
36	84.7	242.1	143,300	143,300					36
38	84.2	241.9	143,300	143,300					38
40	83.7	241.6	143,300	143,300					40
45	82.5	240.8	143,300	143,300	84.0	239.1	140,900	140,900	45
50	81.3	239.9	143,300	143,300	82.7	238.2	136,800	136,800	50
55	80.0	238.8	143,300	143,300	81.5	237.2	131,600	131,600	55
60	78.8	237.7	143,300	143,300	80.3	236.1	126,800	126,800	60
65	77.6	236.4	143,300	143,300	79.0	234.8	122,400	122,400	65
70	76.3	235.1	143,300	143,300	77.7	233.4	118,200	118,200	70
75	75.0	233.6	143,300	143,300	76.5	231.9	114,400	114,400	75
80	73.8	232.0	142,900	142,900	75.2	230.3	110,800	110,800	80
85	72.5	230.3	142,200	142,200	73.9	228.6	107,500	107,500	85
90	71.2	228.4	136,800	136,800	72.6	226.7	104,400	104,400	90
95	69.9	226.4	131,800	131,800	71.3	224.7	101,400	101,400	95
100	68.6	224.3	127,100	127,100	70.0	222.5	98,700	98,700	100
105	67.3	222.0	122,700	122,700	68.6	220.3	96,200	96,200	105
110	65.9	219.6	118,800	118,800	67.3	217.9	93,700	93,700	110
115	64.6	217.1	115,000	115,000	65.9	215.3	91,400	91,400	115
120	63.2	214.4	108,800	111,500	64.5	212.6	89,200	89,200	120
125	61.8	211.5	102,500	108,200	63.1	209.7	87,200	87,200	125
130	60.4	208.5	96,700	105,100	61.7	206.6	85,200	85,200	130
135	59.0	205.3	91,400	102,100	60.2	203.4	83,400	83,400	135
140	57.5	202.0	86,500	99,400	58.8	200.0	81,700	81,700	140
145	56.0	198.4	82,000	96,900	57.3	196.4	80,100	80,100	145
150	54.5	194.6	77,800	94,400	55.7	192.6	78,500	78,500	150
155	53.0	190.7	73,800	92,100	54.2	188.6	74,700	77,100	155
160	51.4	186.5	70,200	89,900	52.6	184.3	71,000	75,700	160
165	49.8	182.0	66,700	87,900	51.0	179.8	67,500	74,300	165
170	48.1	177.3	63,500	84,700	49.3	175.1	64,200	73,100	170
180	44.6	167.0	57,600	77,500	45.7	164.6	58,200	70,800	180
190	40.9	155.3	52,400	71,200	42.0	152.7	52,900	68,800	190
200	36.9	141.9	47,600	65,500	37.8	139.0	48,100	65,900	200
210	32.4	126.1	42,900	60,300	33.2	122.9	43,300	60,600	210
220	27.1	106.9	38,500	55,600	27.8	103.1	38,800	55,800	220
230	20.5	81.7	34,500	51,300					230

MLC300 VPC-MAX S-1

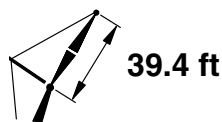
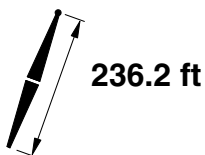
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
38	84.7	261.7	143,300	143,300					38
40	84.2	261.4	143,300	143,300					40
45	83.1	260.7	143,300	143,300	84.5	259.1	139,600	139,600	45
50	82.0	259.9	143,300	143,300	83.3	258.2	138,900	138,900	50
55	80.8	258.9	143,300	143,300	82.2	257.3	134,000	134,000	55
60	79.7	257.9	143,300	143,300	81.0	256.2	129,400	129,400	60
65	78.5	256.7	143,300	143,300	79.9	255.1	125,100	125,100	65
70	77.4	255.5	143,000	143,000	78.7	253.8	121,100	121,100	70
75	76.2	254.1	142,500	142,500	77.5	252.4	117,400	117,400	75
80	75.1	252.6	142,100	142,100	76.4	250.9	113,900	113,900	80
85	73.9	251.0	141,600	141,600	75.2	249.3	110,700	110,700	85
90	72.7	249.4	141,300	141,300	74.0	247.6	107,600	107,600	90
95	71.5	247.5	137,800	137,800	72.8	245.8	104,700	104,700	95
100	70.3	245.6	133,100	133,100	71.6	243.9	102,000	102,000	100
105	69.1	243.6	128,700	128,700	70.4	241.8	99,400	99,400	105
110	67.9	241.4	122,700	124,600	69.2	239.6	97,000	97,000	110
115	66.7	239.1	115,100	120,800	67.9	237.3	94,800	94,800	115
120	65.4	236.6	108,200	117,200	66.7	234.8	92,600	92,600	120
125	64.2	234.1	101,900	113,800	65.4	232.2	90,500	90,500	125
130	62.9	231.3	96,100	110,600	64.1	229.5	88,600	88,600	130
135	61.6	228.5	90,800	107,700	62.8	226.6	86,700	86,700	135
140	60.3	225.5	85,900	104,800	61.5	223.6	85,000	85,000	140
145	59.0	222.3	81,400	102,200	60.2	220.4	82,500	83,300	145
150	57.7	219.0	77,200	99,700	58.8	217.0	78,200	81,800	150
155	56.3	215.4	73,300	96,600	57.5	213.4	74,200	80,200	155
160	54.9	211.8	69,600	92,200	56.1	209.7	70,500	78,800	160
165	53.5	207.9	66,200	88,000	54.6	205.8	67,000	77,400	165
170	52.1	203.8	62,900	84,100	53.2	201.7	63,700	76,100	170
180	49.1	194.9	57,100	77,000	50.2	192.7	57,700	73,800	180
190	45.9	185.1	51,800	70,600	47.0	182.7	52,400	71,200	190
200	42.6	174.1	46,800	64,900	43.6	171.6	47,500	65,400	200
210	39.1	161.6	42,100	59,800	40.0	158.9	42,700	60,200	210
220	35.2	147.4	37,800	55,100	36.0	144.4	38,300	55,500	220
230	30.8	130.7	33,900	50,800	31.6	127.3	34,200	51,100	230
240	25.8	110.4	30,200	46,900	26.4	106.3	30,400	47,100	240
250	19.4	83.7	26,800	43,200					250

MLC300 VPC-MAX S-1

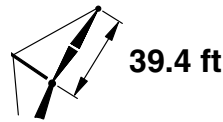
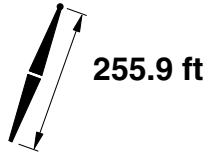
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
40	84.6	281.3	143,300	143,300					40
45	83.6	280.6	143,300	143,300	84.9	278.9	135,700	135,700	45
50	82.5	279.8	143,300	143,300	83.8	278.2	134,800	134,800	50
55	81.5	278.9	143,300	143,300	82.7	277.3	133,900	133,900	55
60	80.4	278.0	142,800	142,800	81.7	276.3	131,600	131,600	60
65	79.4	276.9	142,300	142,300	80.6	275.2	127,500	127,500	65
70	78.3	275.8	141,800	141,800	79.5	274.1	123,600	123,600	70
75	77.2	274.5	141,300	141,300	78.5	272.8	120,000	120,000	75
80	76.2	273.1	140,900	140,900	77.4	271.4	116,700	116,700	80
85	75.1	271.7	140,600	140,600	76.3	270.0	113,500	113,500	85
90	74.0	270.1	140,200	140,200	75.2	268.4	110,500	110,500	90
95	72.9	268.4	139,900	139,900	74.1	266.7	107,700	107,700	95
100	71.8	266.7	138,600	138,600	73.0	264.9	105,000	105,000	100
105	70.7	264.8	129,600	134,200	71.9	263.0	102,500	102,500	105
110	69.6	262.8	121,200	130,000	70.8	261.0	100,100	100,100	110
115	68.5	260.7	113,600	126,200	69.6	258.9	97,900	97,900	115
120	67.3	258.4	106,700	122,500	68.5	256.6	95,600	95,600	120
125	66.2	256.1	100,400	119,200	67.3	254.3	93,600	93,600	125
130	65.0	253.6	94,600	115,900	66.2	251.8	91,700	91,700	130
135	63.8	251.0	89,300	112,900	65.0	249.2	89,800	89,800	135
140	62.7	248.3	84,400	110,000	63.8	246.4	85,600	88,000	140
145	61.5	245.4	79,800	104,900	62.6	243.5	81,000	86,400	145
150	60.3	242.4	75,600	99,800	61.4	240.5	76,700	84,800	150
155	59.0	239.3	71,700	95,000	60.1	237.3	72,700	83,200	155
160	57.8	235.9	68,000	90,600	58.9	234.0	69,000	81,800	160
165	56.5	232.5	64,500	86,400	57.6	230.5	65,500	80,400	165
170	55.2	228.8	61,300	82,500	56.3	226.8	62,200	79,000	170
180	52.6	221.0	55,400	75,300	53.7	218.9	56,200	76,100	180
190	49.9	212.5	49,800	69,000	50.9	210.2	50,700	69,700	190
200	47.0	203.0	44,600	63,300	48.0	200.7	45,400	63,900	200
210	44.0	192.5	39,900	58,200	45.0	190.0	40,600	58,700	210
220	40.8	180.8	35,600	53,500	41.7	178.2	36,200	54,000	220
230	37.4	167.6	31,700	49,300	38.2	164.8	32,200	49,600	230
240	33.7	152.6	28,100	45,400	34.4	149.4	28,500	45,600	240
250	29.5	135.0	24,700	41,800	30.1	131.4	25,000	42,000	250
260	24.6	113.7	21,600	38,400					260
270	18.4	85.6	18,600	35,300					270

MLC300 VPC-MAX S-1

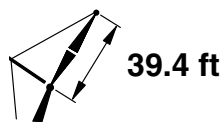
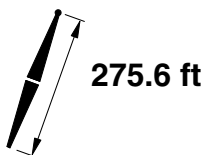
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
40	85.0	301.1	142,700	142,700					40
45	84.0	300.5	142,100	142,100					45
50	83.0	299.7	141,700	141,700	84.2	298.1	129,500	129,500	50
55	82.1	298.9	141,200	141,200	83.2	297.2	128,700	128,700	55
60	81.1	298.0	140,700	140,700	82.2	296.3	127,900	127,900	60
65	80.1	297.0	140,300	140,300	81.3	295.3	127,200	127,200	65
70	79.1	296.0	139,800	139,800	80.3	294.3	125,600	125,600	70
75	78.1	294.8	139,400	139,400	79.3	293.1	122,100	122,100	75
80	77.1	293.5	139,100	139,100	78.3	291.8	118,900	118,900	80
85	76.1	292.2	138,600	138,600	77.2	290.4	115,800	115,800	85
90	75.1	290.7	138,200	138,200	76.2	289.0	112,800	112,800	90
95	74.1	289.2	137,800	137,800	75.2	287.4	110,100	110,100	95
100	73.1	287.5	136,900	136,900	74.2	285.8	107,400	107,400	100
105	72.0	285.8	128,600	134,900	73.2	284.0	104,900	104,900	105
110	71.0	283.9	120,100	131,300	72.1	282.2	102,500	102,500	110
115	70.0	282.0	112,500	128,000	71.1	280.2	100,300	100,300	115
120	68.9	279.9	105,600	124,800	70.0	278.1	98,100	98,100	120
125	67.9	277.8	99,200	121,700	69.0	276.0	96,100	96,100	125
130	66.8	275.5	93,400	118,700	67.9	273.7	94,100	94,100	130
135	65.7	273.1	88,100	115,200	66.8	271.3	89,500	92,300	135
140	64.7	270.6	83,200	109,300	65.7	268.7	84,500	90,400	140
145	63.6	268.0	78,600	103,700	64.6	266.1	79,900	88,800	145
150	62.5	265.2	74,400	98,600	63.5	263.3	75,600	87,200	150
155	61.3	262.4	70,400	93,800	62.4	260.4	71,600	85,700	155
160	60.2	259.4	66,800	89,300	61.2	257.4	67,800	84,200	160
165	59.1	256.2	63,300	85,200	60.1	254.2	64,300	82,700	165
170	57.9	252.9	60,100	81,200	58.9	250.9	61,100	81,400	170
180	55.5	245.9	53,700	74,100	56.5	243.9	54,900	75,000	180
190	53.1	238.3	48,000	67,800	54.1	236.1	49,000	68,500	190
200	50.6	229.9	42,800	62,100	51.5	227.7	43,700	62,800	200
210	48.0	220.7	38,100	56,900	48.9	218.4	38,900	57,500	210
220	45.2	210.6	33,900	52,300	46.1	208.2	34,600	52,800	220
230	42.3	199.5	30,000	48,000	43.2	197.0	30,600	48,500	230
240	39.2	187.2	26,400	44,200	40.0	184.4	26,900	44,600	240
250	35.9	173.3	23,100	40,600	36.7	170.3	23,500	40,900	250
260	32.3	157.5	20,000	37,300	33.0	154.2	20,300	37,500	260
270	28.3	139.1	17,100	34,200	28.8	135.3	17,300	34,400	270
280	23.5	116.7	14,300	31,300					280
290	17.5	87.2	11,700	28,600					290

MLC300 VPC-MAX S-1

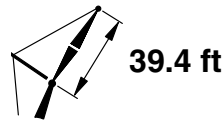
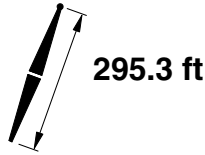
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
45	84.4	320.3	139,900	139,900					45
50	83.5	319.6	139,500	139,500	84.6	317.9	124,800	124,800	50
55	82.6	318.9	139,000	139,000	83.7	317.2	124,100	124,100	55
60	81.6	318.0	138,600	138,600	82.7	316.3	123,500	123,500	60
65	80.7	317.1	138,300	138,300	81.8	315.4	122,900	122,900	65
70	79.8	316.1	137,800	137,800	80.9	314.4	122,200	122,200	70
75	78.9	315.0	137,000	137,000	79.9	313.3	121,500	121,500	75
80	77.9	313.8	136,100	136,100	79.0	312.1	121,000	121,000	80
85	77.0	312.6	135,200	135,200	78.1	310.8	117,900	117,900	85
90	76.1	311.2	134,300	134,300	77.1	309.5	115,000	115,000	90
95	75.1	309.8	133,400	133,400	76.2	308.0	112,300	112,300	95
100	74.2	308.2	132,600	132,600	75.2	306.5	109,700	109,700	100
105	73.2	306.6	127,100	129,000	74.3	304.8	107,200	107,200	105
110	72.2	304.9	118,600	125,400	73.3	303.1	104,800	104,800	110
115	71.3	303.1	110,900	121,900	72.3	301.3	102,600	102,600	115
120	70.3	301.2	104,000	118,600	71.3	299.4	100,500	100,500	120
125	69.3	299.2	97,600	115,500	70.4	297.3	98,500	98,500	125
130	68.3	297.1	91,800	112,500	69.4	295.2	93,400	96,500	130
135	67.4	294.9	86,500	109,700	68.4	293.0	88,000	94,700	135
140	66.4	292.5	81,500	107,000	67.4	290.7	83,000	92,900	140
145	65.3	290.1	77,000	102,100	66.3	288.2	78,300	91,300	145
150	64.3	287.6	72,700	97,000	65.3	285.7	74,000	89,600	150
155	63.3	284.9	68,800	92,200	64.3	283.0	70,000	88,100	155
160	62.3	282.2	65,100	87,700	63.2	280.3	66,300	86,600	160
165	61.2	279.3	61,400	83,500	62.2	277.4	62,800	84,600	165
170	60.2	276.3	57,900	79,600	61.1	274.3	59,200	80,700	170
180	58.0	269.9	51,400	72,400	59.0	267.9	52,700	73,400	180
190	55.8	263.0	45,700	66,100	56.7	260.9	46,800	67,000	190
200	53.5	255.4	40,500	60,400	54.4	253.3	41,500	61,200	200
210	51.2	247.2	35,800	55,200	52.1	245.0	36,700	56,000	210
220	48.7	238.3	31,600	50,600	49.6	236.0	32,400	51,200	220
230	46.2	228.6	27,700	46,400	47.1	226.2	28,400	46,900	230
240	43.6	218.0	24,100	42,500	44.4	215.5	24,700	43,000	240
250	40.8	206.3	20,800	38,900	41.5	203.6	21,300	39,300	250
260	37.8	193.3	17,700	35,600	38.5	190.4	18,200	36,000	260
270	34.6	178.8	14,900	32,600	35.3	175.6	15,200	32,900	270
280	31.1	162.2	12,200	29,700	31.7	158.8	12,500	30,000	280
290	27.2	143.0	9,700	27,100	27.7	139.0	9,900	27,200	290
300	22.5	119.6	7,300	24,500					300

MLC300 VPC-MAX S-1

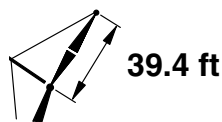
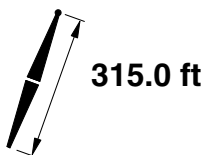
ASME B30.5



	10°				20°								
	ft	°	ft	lb	lb	ft	°	ft		lb	lb	ft	
45	84.7	340.1	135,000	135,000								45	
50	83.9	339.5	134,100	134,100	84.9	337.8	118,600	118,600	84.9	337.8	118,600	118,600	50
55	83.0	338.8	133,300	133,300	84.0	337.1	118,000	118,000	84.0	337.1	118,000	118,000	55
60	82.1	338.0	132,500	132,500	83.2	336.3	117,500	117,500	83.2	336.3	117,500	117,500	60
65	81.3	337.1	131,700	131,700	82.3	335.4	117,000	117,000	82.3	335.4	117,000	117,000	65
70	80.4	336.2	130,900	130,900	81.4	334.5	116,400	116,400	81.4	334.5	116,400	116,400	70
75	79.5	335.1	130,100	130,100	80.5	333.4	115,800	115,800	80.5	333.4	115,800	115,800	75
80	78.7	334.0	129,300	129,300	79.7	332.3	115,300	115,300	79.7	332.3	115,300	115,300	80
85	77.8	332.9	128,500	128,500	78.8	331.1	114,800	114,800	78.8	331.1	114,800	114,800	85
90	76.9	331.6	127,800	127,800	77.9	329.8	113,700	113,700	77.9	329.8	113,700	113,700	90
95	76.0	330.2	124,800	124,800	77.0	328.5	110,800	110,800	77.0	328.5	110,800	110,800	95
100	75.1	328.8	121,200	121,200	76.1	327.0	108,000	108,000	76.1	327.0	108,000	108,000	100
105	74.2	327.3	117,700	117,700	75.2	325.5	105,400	105,400	75.2	325.5	105,400	105,400	105
110	73.3	325.7	114,500	114,500	74.3	323.9	102,800	102,800	74.3	323.9	102,800	102,800	110
115	72.4	324.0	110,500	111,400	73.4	322.2	100,400	100,400	73.4	322.2	100,400	100,400	115
120	71.5	322.2	103,500	108,400	72.5	320.4	98,000	98,000	72.5	320.4	98,000	98,000	120
125	70.6	320.3	97,200	105,500	71.6	318.5	95,700	95,700	71.6	318.5	95,700	95,700	125
130	69.7	318.4	91,300	102,800	70.7	316.5	93,000	93,600	70.7	316.5	93,000	93,600	130
135	68.8	316.3	86,000	100,100	69.7	314.5	87,600	91,500	69.7	314.5	87,600	91,500	135
140	67.8	314.2	81,100	97,700	68.8	312.3	82,500	89,500	68.8	312.3	82,500	89,500	140
145	66.9	311.9	76,500	95,300	67.9	310.1	77,900	87,500	67.9	310.1	77,900	87,500	145
150	66.0	309.6	72,200	93,000	66.9	307.7	73,600	85,700	66.9	307.7	73,600	85,700	150
155	65.0	307.1	68,300	90,900	65.9	305.2	69,600	84,000	65.9	305.2	69,600	84,000	155
160	64.0	304.6	64,400	87,200	65.0	302.7	65,800	82,300	65.0	302.7	65,800	82,300	160
165	63.1	301.9	60,600	83,000	64.0	300.0	62,100	80,700	64.0	300.0	62,100	80,700	165
170	62.1	299.1	57,100	79,100	63.0	297.2	58,600	79,100	63.0	297.2	58,600	79,100	170
180	60.1	293.3	50,700	71,900	61.0	291.3	52,000	73,000	61.0	291.3	52,000	73,000	180
190	58.1	286.9	45,000	65,600	59.0	284.9	46,200	66,500	59.0	284.9	46,200	66,500	190
200	56.0	280.0	39,800	59,900	56.9	277.9	40,900	60,700	56.9	277.9	40,900	60,700	200
210	53.9	272.6	35,100	54,800	54.8	270.4	36,100	55,500	54.8	270.4	36,100	55,500	210
220	51.7	264.6	30,900	50,100	52.5	262.3	31,800	50,800	52.5	262.3	31,800	50,800	220
230	49.4	255.9	27,000	45,900	50.3	253.6	27,800	46,500	50.3	253.6	27,800	46,500	230
240	47.1	246.4	23,400	42,000	47.9	244.1	24,100	42,600	47.9	244.1	24,100	42,600	240
250	44.6	236.2	20,100	38,500	45.4	233.7	20,800	39,000	45.4	233.7	20,800	39,000	250
260	42.1	225.0	17,100	35,200	42.8	222.4	17,600	35,600	42.8	222.4	17,600	35,600	260
270	39.4	212.7	14,200	32,100	40.1	209.9	14,700	32,500	40.1	209.9	14,700	32,500	270
280	36.5	199.1	11,600	29,300	37.2	196.2	12,000	29,600	37.2	196.2	12,000	29,600	280
290	33.4	184.0	9,100	26,700	34.0	180.7	9,500	26,900	34.0	180.7	9,500	26,900	290
300	30.0	166.7	6,800	24,200	30.5	163.1	7,100	24,400	30.5	163.1	7,100	24,400	300
310	26.2	146.6		21,900	26.6	142.5		22,000	26.6	142.5		22,000	310
320	21.7	122.3		19,700									320

MLC300 VPC-MAX S-1

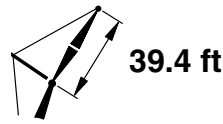
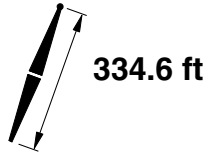
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
50	84.2	359.3	128,000	128,000					50
55	83.4	358.7	127,300	127,300	84.4	357.0	113,000	113,000	55
60	82.6	357.9	126,500	126,500	83.6	356.2	112,500	112,500	60
65	81.8	357.1	125,900	125,900	82.7	355.4	112,100	112,100	65
70	80.9	356.2	125,100	125,100	81.9	354.5	111,600	111,600	70
75	80.1	355.2	124,500	124,500	81.1	353.5	111,100	111,100	75
80	79.3	354.2	123,800	123,800	80.3	352.5	110,700	110,700	80
85	78.5	353.1	123,100	123,100	79.4	351.3	110,200	110,200	85
90	77.6	351.9	122,500	122,500	78.6	350.1	109,700	109,700	90
95	76.8	350.6	121,700	121,700	77.8	348.9	109,300	109,300	95
100	76.0	349.3	121,200	121,200	76.9	347.5	108,900	108,900	100
105	75.1	347.8	120,500	120,500	76.1	346.1	108,500	108,500	105
110	74.3	346.3	116,700	119,800	75.2	344.5	108,000	108,000	110
115	73.4	344.7	109,000	119,300	74.4	343.0	106,800	106,800	115
120	72.6	343.1	102,000	117,200	73.5	341.3	104,000	104,800	120
125	71.7	341.3	95,600	114,400	72.7	339.5	97,500	102,800	125
130	70.9	339.5	89,800	111,800	71.8	337.7	91,600	100,900	130
135	70.0	337.6	84,400	109,200	70.9	335.7	86,100	98,900	135
140	69.1	335.5	79,500	105,600	70.0	333.7	81,100	97,000	140
145	68.3	333.4	74,900	100,000	69.2	331.6	76,400	95,100	145
150	67.4	331.3	70,400	94,900	68.3	329.4	72,100	93,300	150
155	66.5	329.0	66,100	90,100	67.4	327.1	67,900	91,500	155
160	65.6	326.6	62,100	85,600	66.5	324.7	63,800	86,900	160
165	64.7	324.1	58,400	81,400	65.6	322.2	60,000	82,700	165
170	63.8	321.5	54,900	77,500	64.7	319.6	56,400	78,700	170
180	62.0	316.1	48,400	70,300	62.8	314.1	49,900	71,400	180
190	60.1	310.2	42,700	63,900	60.9	308.2	44,000	65,000	190
200	58.2	303.9	37,500	58,200	59.0	301.8	38,700	59,200	200
210	56.2	297.1	32,800	53,100	57.0	295.0	33,900	54,000	210
220	54.2	289.7	28,600	48,500	55.0	287.6	29,600	49,200	220
230	52.2	281.8	24,700	44,200	53.0	279.6	25,600	44,900	230
240	50.0	273.3	21,100	40,300	50.8	271.0	21,900	41,000	240
250	47.9	264.1	17,800	36,800	48.6	261.8	18,600	37,400	250
260	45.6	254.2	14,800	33,500	46.3	251.8	15,500	34,000	260
270	43.2	243.5	12,000	30,500	43.9	240.9	12,600	30,900	270
280	40.7	231.8	9,300	27,700	41.4	229.0	9,900	28,100	280
290	38.1	218.9	6,900	25,000	38.8	216.0	7,300	25,400	290
300	35.3	204.8		22,600	35.9	201.7		22,900	300
310	32.3	188.9		20,300	32.8	185.6		20,500	310
320	29.0	171.0		18,100	29.5	167.3		18,300	320
330	25.2	150.1		16,000					330
340	20.8	124.8		14,100					340

MLC300 VPC-MAX S-1

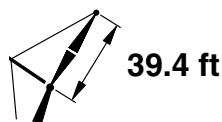
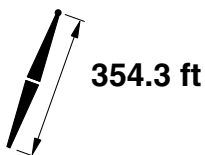
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
50	84.5	379.2	112,000	112,000					50
55	83.7	378.5	112,000	112,000	84.7	376.8	106,300	106,300	55
60	83.0	377.8	112,000	112,000	83.9	376.1	105,900	105,900	60
65	82.2	377.1	112,000	112,000	83.1	375.3	105,500	105,500	65
70	81.4	376.2	112,000	112,000	82.3	374.5	105,000	105,000	70
75	80.6	375.3	112,000	112,000	81.6	373.5	104,700	104,700	75
80	79.9	374.3	112,000	112,000	80.8	372.6	103,800	103,800	80
85	79.1	373.3	112,000	112,000	80.0	371.5	101,400	101,400	85
90	78.3	372.1	111,100	111,100	79.2	370.4	99,100	99,100	90
95	77.5	370.9	108,200	108,200	78.4	369.2	96,700	96,700	95
100	76.7	369.6	105,300	105,300	77.6	367.9	94,500	94,500	100
105	75.9	368.3	102,600	102,600	76.8	366.5	92,300	92,300	105
110	75.1	366.9	100,000	100,000	76.0	365.1	90,100	90,100	110
115	74.3	365.4	97,400	97,400	75.2	363.6	88,100	88,100	115
120	73.5	363.8	95,000	95,000	74.4	362.0	86,000	86,000	120
125	72.7	362.2	92,500	92,500	73.6	360.3	84,100	84,100	125
130	71.9	360.4	89,100	90,200	72.8	358.6	82,200	82,200	130
135	71.1	358.6	83,700	88,000	72.0	356.8	80,400	80,400	135
140	70.3	356.7	78,800	85,800	71.2	354.9	78,600	78,600	140
145	69.5	354.8	73,900	83,800	70.3	352.9	75,800	76,900	145
150	68.6	352.7	69,400	81,800	69.5	350.8	71,300	75,300	150
155	67.8	350.6	65,100	79,900	68.7	348.7	67,000	73,700	155
160	67.0	348.3	61,100	78,100	67.8	346.4	62,900	72,200	160
165	66.1	346.0	57,400	76,300	67.0	344.1	59,100	70,800	165
170	65.3	343.6	53,900	74,700	66.1	341.7	55,500	69,300	170
180	63.6	338.5	47,500	69,600	64.4	336.6	48,900	66,700	180
190	61.8	333.0	41,700	63,300	62.6	331.1	43,100	64,200	190
200	60.1	327.2	36,500	57,600	60.9	325.1	37,800	58,500	200
210	58.2	320.8	31,900	52,400	59.0	318.8	33,000	53,300	210
220	56.4	314.1	27,600	47,800	57.2	312.0	28,700	48,600	220
230	54.5	306.8	23,700	43,500	55.3	304.7	24,700	44,300	230
240	52.6	299.1	20,200	39,700	53.3	296.8	21,100	40,400	240
250	50.6	290.7	16,900	36,100	51.3	288.4	17,700	36,800	250
260	48.5	281.8	13,900	32,900	49.3	279.4	14,600	33,400	260
270	46.4	272.1	11,100	29,800	47.1	269.7	11,700	30,300	270
280	44.2	261.7	8,400	27,000	44.9	259.2	9,000	27,500	280
290	41.9	250.5		24,400	42.6	247.8	6,500	24,800	290
300	39.5	238.3		22,000	40.1	235.5		22,300	300
310	36.9	224.9		19,700	37.5	221.9		20,000	310
320	34.2	210.1		17,500	34.8	207.0		17,800	320
330	31.3	193.7		15,500	31.8	190.2		15,700	330
340	28.0	175.1		13,600	28.5	171.2		13,700	340
350	24.4	153.5		11,700					350
360	20.1	127.2		10,000					360

MLC300 VPC-MAX S-1

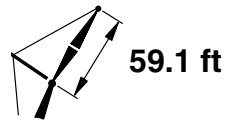
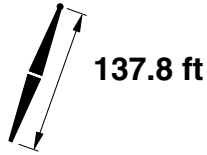
ASME B30.5



	10°				20°					
	ft	°	ft	lb		ft	°	ft		lb
				34.8 ft	48.0 ft					
50	84.8		399.0	98,800	98,800					50
55	84.1		398.4	98,800	98,800	84.9	396.6	96,000	96,000	55
60	83.3		397.7	98,800	98,800	84.2	396.0	96,000	96,000	60
65	82.6		397.0	98,800	98,800	83.5	395.2	96,000	96,000	65
70	81.9		396.2	98,800	98,800	82.7	394.4	96,000	96,000	70
75	81.1		395.3	98,800	98,800	82.0	393.6	96,000	96,000	75
80	80.4		394.4	98,800	98,800	81.2	392.6	96,000	96,000	80
85	79.6		393.4	98,800	98,800	80.5	391.6	96,000	96,000	85
90	78.9		392.3	98,800	98,800	79.8	390.5	95,000	95,000	90
95	78.1		391.2	98,800	98,800	79.0	389.4	92,500	92,500	95
100	77.4		390.0	98,600	98,600	78.3	388.2	90,200	90,200	100
105	76.7		388.7	95,800	95,800	77.5	386.9	87,800	87,800	105
110	75.9		387.3	93,100	93,100	76.8	385.5	85,600	85,600	110
115	75.1		385.9	90,500	90,500	76.0	384.1	83,400	83,400	115
120	74.4		384.4	88,000	88,000	75.2	382.6	81,300	81,300	120
125	73.6		382.9	85,600	85,600	74.5	381.1	79,300	79,300	125
130	72.9		381.2	83,200	83,200	73.7	379.4	77,300	77,300	130
135	72.1		379.5	81,000	81,000	72.9	377.7	75,400	75,400	135
140	71.3		377.7	76,600	78,800	72.2	375.9	73,500	73,500	140
145	70.5		375.9	71,700	76,700	71.4	374.0	71,700	71,700	145
150	69.8		374.0	67,200	74,800	70.6	372.1	69,200	70,000	150
155	69.0		371.9	62,900	72,800	69.8	370.1	64,800	68,400	155
160	68.2		369.8	58,900	71,000	69.0	368.0	60,800	66,700	160
165	67.4		367.7	55,200	69,300	68.2	365.8	56,900	65,200	165
170	66.6		365.4	51,600	67,600	67.4	363.5	53,400	63,700	170
180	65.0		360.6	45,200	64,400	65.8	358.7	46,800	60,900	180
190	63.4		355.5	39,400	61,500	64.2	353.5	40,900	58,400	190
200	61.7		350.0	34,300	55,900	62.5	348.0	35,600	55,900	200
210	60.0		344.1	29,600	50,800	60.8	342.1	30,800	51,800	210
220	58.3		337.8	25,300	46,100	59.1	335.8	26,500	47,000	220
230	56.6		331.1	21,500	41,900	57.3	329.0	22,500	42,700	230
240	54.8		323.9	17,900	38,000	55.5	321.8	18,900	38,800	240
250	52.9		316.3	14,600	34,500	53.7	314.0	15,500	35,200	250
260	51.1		308.1	11,600	31,200	51.8	305.8	12,400	31,900	260
270	49.1		299.3	8,800	28,200	49.8	297.0	9,600	28,800	270
280	47.1		289.9		25,400	47.8	287.5	6,900	25,900	280
290	45.1		279.8		22,800	45.7	277.3		23,300	290
300	42.9		269.0		20,300	43.6	266.4		20,800	300
310	40.7		257.2		18,000	41.3	254.5		18,400	310
320	38.3		244.5		15,900	38.9	241.6		16,200	320
330	35.9		230.6		13,900	36.4	227.6		14,200	330
340	33.2		215.3		12,000	33.7	212.1		12,200	340
350	30.3		198.3		10,200	30.8	194.7		10,400	350
360	27.2		179.0		8,200	27.6	175.0		8,400	360

MLC300 VPC-MAX S-1

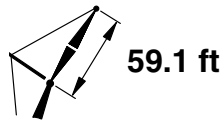
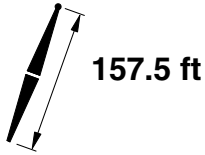
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
45	82.5	200.3	110,500	110,500					45
50	81.0	199.2	107,600	107,600					50
55	79.5	198.0	104,900	104,900	82.2	195.8	84,600	84,600	55
60	78.0	196.6	102,200	102,200	80.6	194.4	80,800	80,800	60
65	76.5	195.1	99,700	99,700	79.1	192.9	77,400	77,400	65
70	75.0	193.4	97,200	97,200	77.5	191.2	74,200	74,200	70
75	73.4	191.6	95,000	95,000	76.0	189.3	71,300	71,300	75
80	71.9	189.6	91,200	91,200	74.4	187.3	68,700	68,700	80
85	70.3	187.5	87,100	87,100	72.8	185.2	66,200	66,200	85
90	68.7	185.2	83,400	83,400	71.2	182.8	63,900	63,900	90
95	67.1	182.7	80,000	80,000	69.5	180.3	61,800	61,800	95
100	65.4	180.1	76,800	76,800	67.9	177.6	59,800	59,800	100
105	63.7	177.2	73,900	73,900	66.2	174.7	58,000	58,000	105
110	62.0	174.2	71,200	71,200	64.4	171.7	56,300	56,300	110
115	60.3	170.9	68,800	68,800	62.7	168.4	54,700	54,700	115
120	58.5	167.5	66,500	66,500	60.9	164.8	53,200	53,200	120
125	56.7	163.8	64,300	64,300	59.1	161.1	51,800	51,800	125
130	54.9	159.8	62,300	62,300	57.2	157.0	50,500	50,500	130
135	53.0	155.6	60,400	60,400	55.2	152.7	49,300	49,300	135
140	51.0	151.0	58,600	58,600	53.2	148.1	48,100	48,100	140
145	49.0	146.2	57,000	57,000	51.2	143.1	47,000	47,000	145
150	46.9	140.9	55,400	55,400	49.0	137.8	46,000	46,000	150
155	44.7	135.3	54,000	54,000	46.8	132.0	45,100	45,100	155
160	42.4	129.2	52,600	52,600	44.4	125.7	44,300	44,300	160
165	40.0	122.6	51,300	51,300	41.9	118.9	43,500	43,500	165
170	37.4	115.3	50,100	50,100	39.3	111.4	42,700	42,700	170
180	31.7	98.3	48,000	48,000	33.3	93.5	41,500	41,500	180
190	24.5	75.7	46,200	46,200					190

MLC300 VPC-MAX S-1

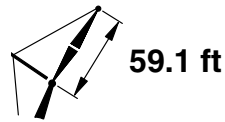
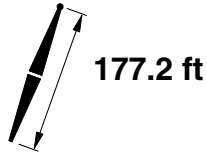
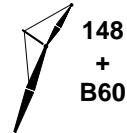
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
40	84.5	221.2	113,900	113,900					40
45	83.2	220.4	111,100	111,100					45
50	81.8	219.4	108,500	108,500	84.3	217.1	90,200	90,200	50
55	80.5	218.2	105,900	105,900	82.9	216.0	86,400	86,400	55
60	79.1	217.0	103,500	103,500	81.5	214.7	82,800	82,800	60
65	77.8	215.6	101,200	101,200	80.1	213.3	79,500	79,500	65
70	76.4	214.1	99,000	99,000	78.7	211.8	76,500	76,500	70
75	75.0	212.5	96,900	96,900	77.3	210.1	73,600	73,600	75
80	73.6	210.7	94,900	94,900	75.9	208.3	71,100	71,100	80
85	72.2	208.8	91,800	91,800	74.5	206.4	68,700	68,700	85
90	70.7	206.7	88,000	88,000	73.0	204.3	66,400	66,400	90
95	69.3	204.5	84,600	84,600	71.6	202.1	64,400	64,400	95
100	67.8	202.2	81,400	81,400	70.1	199.7	62,400	62,400	100
105	66.4	199.7	78,500	78,500	68.6	197.2	60,600	60,600	105
110	64.9	197.0	75,700	75,700	67.1	194.4	58,900	58,900	110
115	63.3	194.1	73,200	73,200	65.5	191.5	57,300	57,300	115
120	61.8	191.1	70,800	70,800	64.0	188.5	55,800	55,800	120
125	60.2	187.9	68,500	68,500	62.4	185.2	54,400	54,400	125
130	58.6	184.4	66,500	66,500	60.8	181.7	53,000	53,000	130
135	57.0	180.8	64,500	64,500	59.1	178.0	51,800	51,800	135
140	55.3	177.0	62,700	62,700	57.4	174.1	50,600	50,600	140
145	53.6	172.9	60,900	60,900	55.7	169.9	49,500	49,500	145
150	51.9	168.5	59,300	59,300	53.9	165.5	48,500	48,500	150
155	50.1	163.9	57,800	57,800	52.0	160.8	47,400	47,400	155
160	48.2	158.9	56,300	56,300	50.1	155.7	46,500	46,500	160
165	46.3	153.6	55,000	55,000	48.2	150.3	45,700	45,700	165
170	44.3	148.0	53,700	53,700	46.1	144.5	44,900	44,900	170
180	40.0	135.3	51,300	51,300	41.8	131.6	43,400	43,400	180
190	35.3	120.4	49,200	49,200	36.9	116.1	42,100	42,100	190
200	29.8	102.2	47,400	47,400	31.1	97.0	41,100	41,100	200
210	22.9	78.1	46,000	46,000					210

MLC300 VPC-MAX S-1

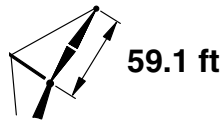
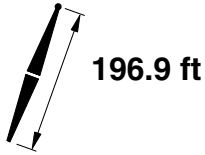
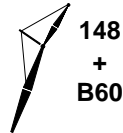
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
40	85.0	241.1	113,600	113,600					40
45	83.8	240.3	111,400	111,400					45
50	82.5	239.4	109,000	109,000	84.8	237.1	91,500	91,500	50
55	81.3	238.4	106,700	106,700	83.5	236.0	87,800	87,800	55
60	80.1	237.2	104,400	104,400	82.2	234.9	84,400	84,400	60
65	78.8	236.0	102,400	102,400	81.0	233.6	81,300	81,300	65
70	77.6	234.6	100,300	100,300	79.7	232.2	78,400	78,400	70
75	76.3	233.1	98,300	98,300	78.4	230.7	75,700	75,700	75
80	75.0	231.5	96,400	96,400	77.2	229.1	73,200	73,200	80
85	73.7	229.8	94,700	94,700	75.9	227.4	70,900	70,900	85
90	72.4	227.9	92,300	92,300	74.6	225.5	68,700	68,700	90
95	71.1	225.9	88,900	88,900	73.2	223.5	66,700	66,700	95
100	69.8	223.8	85,600	85,600	71.9	221.3	64,700	64,700	100
105	68.5	221.6	82,600	82,600	70.6	219.0	62,900	62,900	105
110	67.2	219.1	79,800	79,800	69.2	216.6	61,200	61,200	110
115	65.8	216.6	77,300	77,300	67.8	214.0	59,600	59,600	115
120	64.4	213.9	74,800	74,800	66.4	211.3	58,100	58,100	120
125	63.0	211.0	72,500	72,500	65.0	208.4	56,700	56,700	125
130	61.6	208.0	70,400	70,400	63.6	205.3	55,400	55,400	130
135	60.2	204.8	68,400	68,400	62.1	202.1	54,100	54,100	135
140	58.7	201.4	66,500	66,500	60.6	198.6	52,900	52,900	140
145	57.2	197.9	64,700	64,700	59.1	195.0	51,800	51,800	145
150	55.7	194.1	63,000	63,000	57.6	191.2	50,700	50,700	150
155	54.2	190.1	61,400	61,400	56.0	187.1	49,700	49,700	155
160	52.6	185.9	59,900	59,900	54.4	182.8	48,700	48,700	160
165	50.9	181.4	58,500	58,500	52.8	178.3	47,900	47,900	165
170	49.3	176.7	57,100	57,100	51.1	173.5	47,000	47,000	170
180	45.8	166.3	54,600	54,600	47.5	162.9	45,400	45,400	180
190	42.1	154.6	52,400	52,400	43.7	150.9	43,900	43,900	190
200	38.0	141.1	50,300	50,300	39.5	137.0	42,800	42,800	200
210	33.4	125.2	47,000	48,500	34.8	120.6	41,700	41,700	210
220	28.2	105.9	43,100	47,000	29.2	100.3	40,900	40,900	220
230	21.5	80.3	39,100	45,700					230

MLC300 VPC-MAX S-1

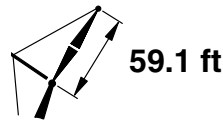
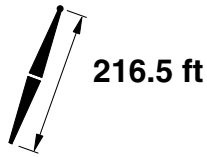
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
45	84.2	260.2	111,200	111,200					45
50	83.1	259.4	109,100	109,100					50
55	82.0	258.5	107,000	107,000	84.0	256.1	89,000	89,000	55
60	80.8	257.4	104,900	104,900	82.9	255.0	85,800	85,800	60
65	79.7	256.3	103,000	103,000	81.7	253.8	82,800	82,800	65
70	78.5	255.0	101,100	101,100	80.5	252.6	80,000	80,000	70
75	77.4	253.6	99,400	99,400	79.4	251.2	77,500	77,500	75
80	76.2	252.2	97,600	97,600	78.2	249.7	75,000	75,000	80
85	75.0	250.6	96,000	96,000	77.0	248.1	72,700	72,700	85
90	73.9	248.9	94,300	94,300	75.8	246.4	70,700	70,700	90
95	72.7	247.1	92,700	92,700	74.6	244.5	68,700	68,700	95
100	71.5	245.1	89,500	89,500	73.4	242.6	66,800	66,800	100
105	70.3	243.1	86,500	86,500	72.2	240.5	65,000	65,000	105
110	69.0	240.9	83,600	83,600	70.9	238.3	63,300	63,300	110
115	67.8	238.6	81,100	81,100	69.7	236.0	61,800	61,800	115
120	66.6	236.1	78,600	78,600	68.4	233.5	60,200	60,200	120
125	65.3	233.5	76,300	76,300	67.2	230.9	58,800	58,800	125
130	64.0	230.8	74,100	74,100	65.9	228.1	57,500	57,500	130
135	62.7	228.0	72,000	72,000	64.6	225.2	56,200	56,200	135
140	61.4	224.9	70,100	70,100	63.3	222.2	55,100	55,100	140
145	60.1	221.7	68,200	68,200	61.9	218.9	53,900	53,900	145
150	58.8	218.4	66,500	66,500	60.5	215.6	52,800	52,800	150
155	57.4	214.9	64,900	64,900	59.2	212.0	51,800	51,800	155
160	56.0	211.2	63,300	63,300	57.7	208.2	50,800	50,800	160
165	54.6	207.3	61,800	61,800	56.3	204.3	49,900	49,900	165
170	53.1	203.2	60,400	60,400	54.8	200.1	49,000	49,000	170
180	50.2	194.3	57,800	57,800	51.8	191.1	47,300	47,300	180
190	47.0	184.4	54,600	55,400	48.6	181.0	45,800	45,800	190
200	43.7	173.4	49,900	53,300	45.2	169.7	44,500	44,500	200
210	40.1	160.9	45,600	51,300	41.5	156.9	43,300	43,300	210
220	36.2	146.5	41,300	49,600	37.5	142.2	42,000	42,300	220
230	31.8	129.7	37,300	48,000	33.0	124.8	37,800	41,400	230
240	26.7	109.3	33,600	46,700					240
250	20.3	82.2	30,100	45,600					250

MLC300 VPC-MAX S-1

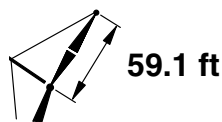
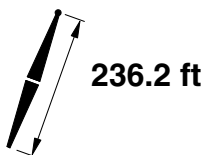
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
45	84.7	280.1	110,700	110,700					45
50	83.6	279.3	108,800	108,800					50
55	82.6	278.5	106,900	106,900	84.5	276.0	90,100	90,100	55
60	81.5	277.5	105,100	105,100	83.4	275.0	86,900	86,900	60
65	80.4	276.4	103,300	103,300	82.3	274.0	84,100	84,100	65
70	79.4	275.3	101,700	101,700	81.2	272.8	81,500	81,500	70
75	78.3	274.0	100,000	100,000	80.2	271.5	79,000	79,000	75
80	77.2	272.6	98,400	98,400	79.1	270.2	76,600	76,600	80
85	76.1	271.2	96,800	96,800	78.0	268.7	74,500	74,500	85
90	75.1	269.6	95,400	95,400	76.9	267.1	72,400	72,400	90
95	74.0	267.9	93,900	93,900	75.8	265.4	70,500	70,500	95
100	72.9	266.2	92,400	92,400	74.7	263.6	68,600	68,600	100
105	71.7	264.3	90,000	90,000	73.5	261.7	66,900	66,900	105
110	70.6	262.3	87,200	87,200	72.4	259.7	65,300	65,300	110
115	69.5	260.2	84,500	84,500	71.3	257.5	63,700	63,700	115
120	68.4	257.9	82,100	82,100	70.1	255.3	62,200	62,200	120
125	67.2	255.6	79,700	79,700	69.0	252.9	60,800	60,800	125
130	66.1	253.1	77,500	77,500	67.8	250.4	59,500	59,500	130
135	64.9	250.5	75,400	75,400	66.6	247.8	58,200	58,200	135
140	63.7	247.7	73,400	73,400	65.4	245.0	57,000	57,000	140
145	62.5	244.9	71,600	71,600	64.2	242.1	55,800	55,800	145
150	61.3	241.9	69,800	69,800	63.0	239.0	54,800	54,800	150
155	60.1	238.7	68,100	68,100	61.7	235.8	53,700	53,700	155
160	58.8	235.4	66,500	66,500	60.5	232.5	52,700	52,700	160
165	57.6	231.9	65,000	65,000	59.2	228.9	51,800	51,800	165
170	56.3	228.3	63,500	63,500	57.9	225.3	50,900	50,900	170
180	53.6	220.4	59,200	60,800	55.2	217.3	49,200	49,200	180
190	50.9	211.8	54,000	58,300	52.4	208.6	47,600	47,600	190
200	48.0	202.3	49,200	56,100	49.5	198.9	46,200	46,200	200
210	45.0	191.8	44,800	54,100	46.4	188.2	44,900	44,900	210
220	41.8	180.0	40,400	52,200	43.2	176.2	41,300	43,700	220
230	38.4	166.8	36,500	50,500	39.6	162.6	37,200	42,700	230
240	34.6	151.7	32,800	48,900	35.8	147.0	33,400	41,900	240
250	30.4	134.0	29,400	45,300	31.4	128.7	29,800	41,200	250
260	25.4	112.5	26,200	41,900					260
270	19.2	83.9	23,200	38,700					270

MLC300 VPC-MAX S-1

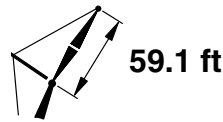
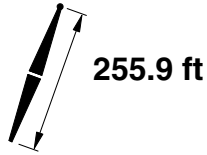
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb	lb	ft	lb	lb		
50	84.0	299.2	104,700	104,700					50
55	83.1	298.4	103,100	103,100	84.8	296.0	90,800	90,800	55
60	82.1	297.5	101,600	101,600	83.8	295.0	88,900	88,900	60
65	81.1	296.5	100,000	100,000	82.8	294.0	86,100	86,100	65
70	80.1	295.5	98,500	98,500	81.8	293.0	83,500	83,500	70
75	79.1	294.3	97,100	97,100	80.8	291.8	81,100	81,100	75
80	78.1	293.0	95,700	95,700	79.8	290.5	78,800	78,800	80
85	77.1	291.7	94,300	94,300	78.8	289.1	76,700	76,700	85
90	76.1	290.2	93,000	93,000	77.8	287.7	74,700	74,700	90
95	75.1	288.7	91,800	91,800	76.8	286.1	72,700	72,700	95
100	74.1	287.0	90,600	90,600	75.7	284.4	70,900	70,900	100
105	73.0	285.3	89,300	89,300	74.7	282.7	69,200	69,200	105
110	72.0	283.4	88,200	88,200	73.7	280.8	67,500	67,500	110
115	71.0	281.5	87,000	87,000	72.6	278.8	66,000	66,000	115
120	69.9	279.4	85,900	85,900	71.6	276.7	64,500	64,500	120
125	68.8	277.2	83,900	83,900	70.5	274.6	63,100	63,100	125
130	67.8	275.0	81,600	81,600	69.4	272.3	61,800	61,800	130
135	66.7	272.6	79,400	79,400	68.3	269.8	60,500	60,500	135
140	65.6	270.1	77,300	77,300	67.2	267.3	59,300	59,300	140
145	64.5	267.4	75,400	75,400	66.1	264.7	58,100	58,100	145
150	63.4	264.7	73,600	73,600	65.0	261.9	57,000	57,000	150
155	62.3	261.8	71,900	71,900	63.9	259.0	55,900	55,900	155
160	61.2	258.8	70,200	70,200	62.7	255.9	54,900	54,900	160
165	60.0	255.6	66,800	68,600	61.6	252.7	53,900	53,900	165
170	58.9	252.3	63,600	67,100	60.4	249.4	53,000	53,000	170
180	56.5	245.3	57,600	64,300	58.0	242.3	51,200	51,200	180
190	54.0	237.6	52,400	61,700	55.5	234.5	49,600	49,600	190
200	51.5	229.2	47,300	59,400	52.9	226.0	48,200	48,200	200
210	48.9	220.0	42,500	57,200	50.3	216.6	43,700	46,800	210
220	46.1	209.9	38,200	55,200	47.5	206.4	39,200	45,600	220
230	43.2	198.8	34,300	51,300	44.5	195.0	35,100	44,500	230
240	40.1	186.4	30,600	47,300	41.4	182.3	31,400	43,500	240
250	36.8	172.4	27,200	43,700	37.9	168.0	27,900	42,600	250
260	33.2	156.6	24,100	40,400	34.2	151.7	24,600	40,800	260
270	29.1	138.0	21,200	37,300	30.0	132.4	21,500	37,500	270
280	24.3	115.4	18,400	34,300					280

MLC300 VPC-MAX S-1

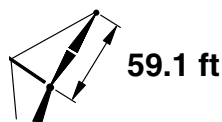
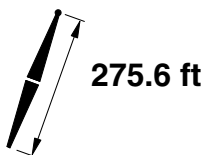
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
50	84.4	319.1	103,500	103,500					50
55	83.5	318.4	102,100	102,100					55
60	82.6	317.5	100,700	100,700	84.2	315.0	89,100	89,100	60
65	81.7	316.6	99,300	99,300	83.3	314.1	86,900	86,900	65
70	80.7	315.6	98,100	98,100	82.4	313.0	84,500	84,500	70
75	79.8	314.5	96,700	96,700	81.4	311.9	82,100	82,100	75
80	78.9	313.3	95,500	95,500	80.5	310.7	80,000	80,000	80
85	77.9	312.0	94,300	94,300	79.5	309.5	77,900	77,900	85
90	77.0	310.7	93,100	93,100	78.6	308.1	75,900	75,900	90
95	76.0	309.2	91,900	91,900	77.6	306.6	74,000	74,000	95
100	75.1	307.7	90,700	90,700	76.7	305.1	72,300	72,300	100
105	74.1	306.1	89,700	89,700	75.7	303.5	70,600	70,600	105
110	73.2	304.4	88,500	88,500	74.7	301.7	69,000	69,000	110
115	72.2	302.5	87,500	87,500	73.8	299.9	67,500	67,500	115
120	71.2	300.6	86,500	86,500	72.8	298.0	66,000	66,000	120
125	70.2	298.6	85,500	85,500	71.8	295.9	64,600	64,600	125
130	69.3	296.5	84,200	84,200	70.8	293.8	63,200	63,200	130
135	68.3	294.3	82,000	82,000	69.8	291.6	62,000	62,000	135
140	67.3	292.0	79,900	79,900	68.8	289.2	60,800	60,800	140
145	66.3	289.6	78,000	78,000	67.8	286.8	59,600	59,600	145
150	65.2	287.0	76,200	76,200	66.7	284.2	58,500	58,500	150
155	64.2	284.4	72,800	74,400	65.7	281.6	57,400	57,400	155
160	63.2	281.6	69,100	72,700	64.7	278.8	56,400	56,400	160
165	62.1	278.7	65,600	71,100	63.6	275.8	55,500	55,500	165
170	61.1	275.7	62,300	69,600	62.5	272.8	54,500	54,500	170
180	58.9	269.3	56,400	66,700	60.3	266.3	52,800	52,800	180
190	56.7	262.4	50,700	64,100	58.1	259.3	51,100	51,100	190
200	54.4	254.8	45,500	61,700	55.8	251.6	46,900	49,600	200
210	52.1	246.6	40,700	59,000	53.4	243.3	42,000	48,200	210
220	49.6	237.7	36,400	54,300	50.9	234.2	37,600	47,000	220
230	47.1	227.9	32,500	50,000	48.4	224.3	33,500	45,800	230
240	44.4	217.2	28,900	46,100	45.6	213.5	29,800	44,800	240
250	41.6	205.5	25,500	42,500	42.8	201.5	26,300	43,100	250
260	38.6	192.4	22,400	39,200	39.7	188.2	23,100	39,700	260
270	35.4	177.8	19,500	36,100	36.4	173.2	20,100	36,500	270
280	31.9	161.2	16,800	33,200	32.8	156.1	17,200	33,500	280
290	27.9	141.8	14,200	30,500	28.7	135.9	14,500	30,700	290
300	23.3	118.2	11,800	27,900					300

MLC300 VPC-MAX S-1

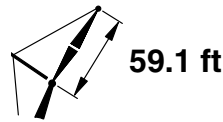
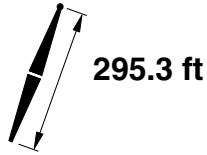
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
50	84.7	339.0	102,300	102,300					50
55	83.9	338.3	101,100	101,100					55
60	83.0	337.5	99,900	99,900	84.6	334.9	88,500	88,500	60
65	82.2	336.6	98,600	98,600	83.7	334.0	87,600	87,600	65
70	81.3	335.7	97,500	97,500	82.8	333.1	85,400	85,400	70
75	80.4	334.6	96,400	96,400	81.9	332.1	83,200	83,200	75
80	79.5	333.5	95,200	95,200	81.1	330.9	81,100	81,100	80
85	78.7	332.3	94,000	94,000	80.2	329.7	79,100	79,100	85
90	77.8	331.1	93,000	93,000	79.3	328.5	77,200	77,200	90
95	76.9	329.7	91,900	91,900	78.4	327.1	75,400	75,400	95
100	76.0	328.3	90,800	90,800	77.5	325.6	73,600	73,600	100
105	75.1	326.7	89,800	89,800	76.6	324.1	72,000	72,000	105
110	74.2	325.1	88,800	88,800	75.7	322.5	70,400	70,400	110
115	73.3	323.4	87,800	87,800	74.8	320.8	68,800	68,800	115
120	72.4	321.7	86,900	86,900	73.9	319.0	67,400	67,400	120
125	71.5	319.8	86,000	86,000	72.9	317.1	66,000	66,000	125
130	70.6	317.8	85,000	85,000	72.0	315.1	64,700	64,700	130
135	69.6	315.8	84,200	84,200	71.1	313.0	63,500	63,500	135
140	68.7	313.6	82,600	82,600	70.1	310.9	62,200	62,200	140
145	67.8	311.4	79,500	80,600	69.2	308.6	61,100	61,100	145
150	66.8	309.0	75,200	78,800	68.2	306.2	60,000	60,000	150
155	65.9	306.5	71,200	77,000	67.3	303.7	58,900	58,900	155
160	64.9	304.0	67,500	75,300	66.3	301.2	57,900	57,900	160
165	63.9	301.3	64,000	73,700	65.3	298.5	57,000	57,000	165
170	63.0	298.6	60,700	72,100	64.3	295.7	56,000	56,000	170
180	61.0	292.7	54,200	69,200	62.3	289.7	54,200	54,200	180
190	58.9	286.3	48,400	66,600	60.3	283.3	50,100	52,600	190
200	56.9	279.4	43,200	62,500	58.2	276.3	44,800	51,100	200
210	54.7	271.9	38,400	57,300	56.0	268.8	39,900	49,700	210
220	52.5	263.9	34,100	52,600	53.8	260.6	35,400	48,400	220
230	50.3	255.2	30,200	48,300	51.5	251.8	31,400	47,200	230
240	47.9	245.7	26,600	44,400	49.1	242.2	27,600	45,200	240
250	45.5	235.4	23,200	40,800	46.6	231.7	24,200	41,600	250
260	42.9	224.2	20,100	37,500	44.0	220.3	21,000	38,200	260
270	40.2	211.9	17,300	34,400	41.2	207.7	18,000	35,000	270
280	37.3	198.2	14,600	31,600	38.3	193.8	15,200	32,100	280
290	34.1	183.0	12,100	28,900	35.1	178.1	12,600	29,300	290
300	30.7	165.6	9,700	26,400	31.5	160.2	10,100	26,700	300
310	26.9	145.4	7,400	24,000					310
320	22.3	120.8		21,800					320

MLC300 VPC-MAX S-1

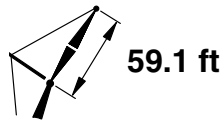
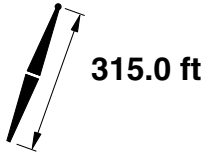
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
55	84.2	358.1	99,100	99,100					55
60	83.4	357.4	98,100	98,100	84.9	354.8	87,200	87,200	60
65	82.6	356.6	97,000	97,000	84.1	354.0	86,500	86,500	65
70	81.8	355.7	96,000	96,000	83.2	353.1	85,900	85,900	70
75	80.9	354.7	95,000	95,000	82.4	352.1	83,700	83,700	75
80	80.1	353.7	94,000	94,000	81.6	351.1	81,700	81,700	80
85	79.3	352.5	92,900	92,900	80.7	349.9	79,800	79,800	85
90	78.5	351.4	92,000	92,000	79.9	348.7	77,900	77,900	90
95	77.6	350.1	91,100	91,100	79.1	347.4	76,200	76,200	95
100	76.8	348.7	90,100	90,100	78.2	346.1	74,500	74,500	100
105	76.0	347.3	89,200	89,200	77.4	344.6	72,900	72,900	105
110	75.1	345.8	88,300	88,300	76.5	343.1	71,300	71,300	110
115	74.3	344.2	87,400	87,400	75.7	341.5	69,900	69,900	115
120	73.4	342.5	86,600	86,600	74.8	339.8	68,500	68,500	120
125	72.6	340.8	84,400	84,400	73.9	338.1	67,200	67,200	125
130	71.7	338.9	82,300	82,300	73.1	336.2	65,800	65,800	130
135	70.8	337.0	80,300	80,300	72.2	334.3	64,600	64,600	135
140	70.0	335.0	78,300	78,300	71.3	332.2	63,400	63,400	140
145	69.1	332.9	76,500	76,500	70.4	330.1	62,300	62,300	145
150	68.2	330.7	74,600	74,700	69.5	327.9	61,200	61,200	150
155	67.3	328.4	70,600	73,000	68.7	325.6	60,200	60,200	155
160	66.4	326.0	66,900	71,400	67.7	323.2	59,200	59,200	160
165	65.5	323.5	63,400	69,800	66.8	320.7	58,200	58,200	165
170	64.6	321.0	59,900	68,300	65.9	318.1	57,300	57,300	170
180	62.8	315.5	53,400	65,600	64.1	312.6	55,400	55,500	180
190	60.9	309.6	47,600	63,000	62.2	306.6	49,400	53,900	190
200	59.0	303.2	42,400	60,700	60.2	300.2	44,000	52,400	200
210	57.0	296.4	37,700	56,800	58.3	293.3	39,200	51,000	210
220	55.0	289.1	33,300	52,100	56.2	285.9	34,700	49,700	220
230	52.9	281.1	29,400	47,800	54.1	277.8	30,700	48,500	230
240	50.8	272.6	25,800	43,900	52.0	269.2	27,000	44,800	240
250	48.6	263.4	22,500	40,300	49.8	259.9	23,500	41,100	250
260	46.3	253.5	19,400	37,000	47.5	249.8	20,300	37,700	260
270	44.0	242.7	16,500	33,900	45.0	238.8	17,400	34,600	270
280	41.5	230.9	13,900	31,100	42.5	226.9	14,600	31,600	280
290	38.8	218.0	11,400	28,400	39.8	213.7	12,000	28,900	290
300	36.0	203.8	9,000	25,900	36.9	199.2	9,600	26,400	300
310	33.0	187.9	6,800	23,600	33.8	182.9	7,300	23,900	310
320	29.7	169.9		21,400	30.4	164.2		21,700	320
330	25.9	148.8		19,300					330
340	21.4	123.2		17,300					340

MLC300 VPC-MAX S-1

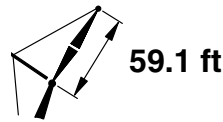
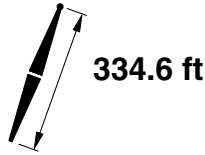
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
55	84.5	378.0	97,400	97,400					55
60	83.8	377.3	96,500	96,500					60
65	83.0	376.5	95,600	95,600	84.4	373.9	85,500	85,500	65
70	82.2	375.7	94,700	94,700	83.6	373.1	84,900	84,900	70
75	81.4	374.8	93,800	93,800	82.8	372.1	84,300	84,300	75
80	80.7	373.8	93,000	93,000	82.0	371.1	82,600	82,600	80
85	79.9	372.7	92,100	92,100	81.2	370.1	80,800	80,800	85
90	79.1	371.6	91,200	91,200	80.4	368.9	79,100	79,100	90
95	78.3	370.4	90,400	90,400	79.7	367.7	77,400	77,400	95
100	77.5	369.1	89,600	89,600	78.9	366.4	75,800	75,800	100
105	76.7	367.8	88,700	88,700	78.1	365.1	74,200	74,200	105
110	75.9	366.3	88,000	88,000	77.3	363.6	72,700	72,700	110
115	75.1	364.8	87,100	87,100	76.5	362.1	71,300	71,300	115
120	74.3	363.3	86,400	86,400	75.6	360.5	69,900	69,900	120
125	73.5	361.6	85,600	85,600	74.8	358.9	68,600	68,600	125
130	72.7	359.9	84,900	84,900	74.0	357.1	67,300	67,300	130
135	71.9	358.1	84,200	84,200	73.2	355.3	66,100	66,100	135
140	71.1	356.2	82,100	83,400	72.4	353.4	64,900	64,900	140
145	70.2	354.2	77,400	82,700	71.5	351.4	63,800	63,800	145
150	69.4	352.1	73,100	81,000	70.7	349.3	62,800	62,800	150
155	68.6	350.0	69,100	79,400	69.9	347.2	61,700	61,700	155
160	67.7	347.8	65,100	77,700	69.0	344.9	60,700	60,700	160
165	66.9	345.4	61,300	76,200	68.2	342.6	59,700	59,700	165
170	66.1	343.0	57,700	74,600	67.3	340.2	58,800	58,800	170
180	64.3	337.9	51,200	71,800	65.6	335.0	53,300	57,000	180
190	62.6	332.4	45,400	66,100	63.8	329.5	47,300	55,400	190
200	60.8	326.5	40,100	60,300	62.0	323.5	42,000	53,900	200
210	59.0	320.2	35,400	55,100	60.2	317.1	37,100	52,500	210
220	57.1	313.4	31,100	50,400	58.3	310.3	32,600	51,100	220
230	55.3	306.2	27,200	46,200	56.4	302.9	28,600	47,200	230
240	53.3	298.4	23,500	42,200	54.4	295.1	24,800	43,200	240
250	51.3	290.0	20,200	38,700	52.4	286.6	21,400	39,600	250
260	49.3	281.0	17,100	35,300	50.3	277.5	18,200	36,200	260
270	47.1	271.4	14,300	32,300	48.2	267.7	15,300	33,000	270
280	44.9	260.9	11,600	29,400	45.9	257.1	12,500	30,100	280
290	42.6	249.7	9,100	26,800	43.6	245.7	9,900	27,400	290
300	40.2	237.4	6,800	24,300	41.1	233.2	7,500	24,800	300
310	37.6	224.0		22,000	38.5	219.5		22,400	310
320	34.9	209.2		19,800	35.7	204.4		20,200	320
330	31.9	192.6		17,700	32.7	187.4		18,000	330
340	28.7	173.9		15,800	29.3	168.1		16,000	340
350	25.0	152.1		13,900					350
360	20.7	125.5		12,100					360

MLC300 VPC-MAX S-1

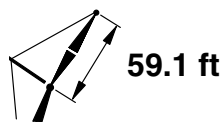
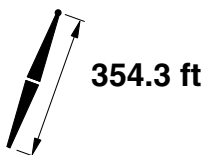
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
55	84.8	397.8	94,400	94,400					55
60	84.1	397.2	93,600	93,600					60
65	83.3	396.4	92,900	92,900	84.7	393.8	83,700	83,700	65
70	82.6	395.6	92,100	92,100	83.9	393.0	83,100	83,100	70
75	81.9	394.8	91,300	91,300	83.2	392.1	82,700	82,700	75
80	81.1	393.8	90,600	90,600	82.4	391.2	81,700	81,700	80
85	80.4	392.8	89,900	89,900	81.7	390.2	79,900	79,900	85
90	79.6	391.8	89,100	89,100	80.9	389.1	78,000	78,000	90
95	78.9	390.6	87,400	87,400	80.2	387.9	76,300	76,300	95
100	78.1	389.4	85,200	85,200	79.4	386.7	74,600	74,600	100
105	77.4	388.1	83,000	83,000	78.7	385.4	72,900	72,900	105
110	76.6	386.8	80,900	80,900	77.9	384.1	71,300	71,300	110
115	75.9	385.4	78,800	78,800	77.2	382.7	69,700	69,700	115
120	75.1	383.9	76,800	76,800	76.4	381.2	68,200	68,200	120
125	74.4	382.3	74,900	74,900	75.6	379.6	66,700	66,700	125
130	73.6	380.7	73,100	73,100	74.9	377.9	65,300	65,300	130
135	72.8	379.0	71,300	71,300	74.1	376.2	63,900	63,900	135
140	72.1	377.2	69,600	69,600	73.3	374.4	62,600	62,600	140
145	71.3	375.3	68,000	68,000	72.5	372.5	61,300	61,300	145
150	70.5	373.4	66,400	66,400	71.7	370.6	60,000	60,000	150
155	69.7	371.4	64,900	64,900	70.9	368.5	58,800	58,800	155
160	68.9	369.3	63,400	63,400	70.1	366.4	57,600	57,600	160
165	68.1	367.1	60,300	62,000	69.3	364.2	56,500	56,500	165
170	67.3	364.8	56,700	60,700	68.5	361.9	55,500	55,500	170
180	65.7	360.0	50,200	58,200	66.9	357.1	52,400	53,400	180
190	64.1	354.9	44,400	55,800	65.3	351.9	46,400	51,500	190
200	62.4	349.4	39,100	53,600	63.6	346.4	41,000	49,600	200
210	60.7	343.5	34,400	51,600	61.9	340.4	36,100	47,900	210
220	59.0	337.2	30,100	49,700	60.2	334.1	31,700	46,400	220
230	57.3	330.4	26,100	45,400	58.4	327.3	27,600	44,900	230
240	55.5	323.2	22,500	41,500	56.6	320.0	23,900	42,600	240
250	53.6	315.6	19,200	37,900	54.7	312.2	20,500	38,900	250
260	51.8	307.3	16,100	34,600	52.8	303.9	17,300	35,500	260
270	49.8	298.6	13,300	31,600	50.9	295.0	14,400	32,400	270
280	47.8	289.1	10,600	28,700	48.8	285.5	11,600	29,500	280
290	45.8	279.0	8,200	26,100	46.7	275.3	9,100	26,800	290
300	43.6	268.1		23,600	44.6	264.2	6,700	24,200	300
310	41.4	256.4		21,300	42.3	252.3		21,900	310
320	39.0	243.6		19,100	39.9	239.3		19,600	320
330	36.5	229.7		17,100	37.3	225.0		17,500	330
340	33.8	214.3		15,200	34.6	209.3		15,500	340
350	31.0	197.2		13,300	31.6	191.8		13,600	350
360	27.8	177.8		11,600	28.4	171.7		11,800	360
370	24.2	155.2		9,900					370
380	19.9	127.6		8,300					380

MLC300 VPC-MAX S-1

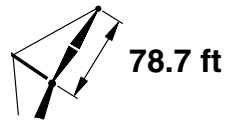
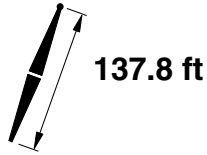
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
60	84.4	417.0	84,400	84,400					60
65	83.7	416.3	84,400	84,400	84.9	413.7	79,900	79,900	65
70	83.0	415.6	84,400	84,400	84.2	412.9	79,900	79,900	70
75	82.3	414.7	84,400	84,400	83.5	412.1	79,900	79,900	75
80	81.6	413.8	84,400	84,400	82.8	411.2	79,900	79,900	80
85	80.8	412.9	84,400	84,400	82.1	410.2	78,900	78,900	85
90	80.1	411.9	84,400	84,400	81.4	409.2	77,100	77,100	90
95	79.4	410.8	84,400	84,400	80.7	408.1	75,300	75,300	95
100	78.7	409.6	82,100	82,100	80.0	407.0	73,500	73,500	100
105	78.0	408.4	80,000	80,000	79.2	405.7	71,800	71,800	105
110	77.3	407.2	77,800	77,800	78.5	404.4	70,100	70,100	110
115	76.6	405.8	75,700	75,700	77.8	403.1	68,500	68,500	115
120	75.9	404.4	73,700	73,700	77.1	401.7	66,800	66,800	120
125	75.1	402.9	71,800	71,800	76.3	400.2	65,300	65,300	125
130	74.4	401.4	69,900	69,900	75.6	398.6	63,700	63,700	130
135	73.7	399.7	68,100	68,100	74.9	397.0	62,200	62,200	135
140	73.0	398.0	66,300	66,300	74.1	395.3	60,800	60,800	140
145	72.2	396.3	64,600	64,600	73.4	393.5	59,400	59,400	145
150	71.5	394.5	63,000	63,000	72.7	391.7	58,100	58,100	150
155	70.7	392.5	61,400	61,400	71.9	389.7	56,700	56,700	155
160	70.0	390.6	59,900	59,900	71.2	387.7	55,500	55,500	160
165	69.2	388.5	58,100	58,500	70.4	385.7	54,300	54,300	165
170	68.5	386.4	54,500	57,100	69.6	383.5	53,100	53,100	170
180	67.0	381.9	48,000	54,400	68.1	379.0	50,300	50,800	180
190	65.4	377.0	42,100	52,000	66.6	374.1	44,300	48,700	190
200	63.9	371.8	36,900	49,700	65.0	368.9	38,900	46,800	200
210	62.3	366.3	32,200	47,600	63.4	363.3	34,000	44,900	210
220	60.7	360.4	27,800	45,700	61.8	357.4	29,600	43,200	220
230	59.0	354.1	23,900	43,800	60.1	351.0	25,500	41,600	230
240	57.4	347.4	20,300	39,900	58.4	344.3	21,800	40,100	240
250	55.7	340.3	17,000	36,300	56.7	337.1	18,400	37,400	250
260	53.9	332.7	13,900	33,000	55.0	329.4	15,200	34,000	260
270	52.2	324.6	11,100	30,000	53.2	321.2	12,300	30,900	270
280	50.3	316.0	8,400	27,100	51.3	312.5	9,500	28,000	280
290	48.4	306.8		24,500	49.4	303.2	7,000	25,200	290
300	46.5	297.0		22,000	47.4	293.2		22,700	300
310	44.5	286.4		19,700	45.4	282.5		20,300	310
320	42.4	275.1		17,500	43.3	271.1		18,100	320
330	40.2	262.9		15,500	41.1	258.6		16,000	330
340	37.9	249.6		13,600	38.7	245.2		14,000	340
350	35.5	235.2		11,800	36.2	230.4		12,100	350
360	32.9	219.3		10,000	33.6	214.1		10,400	360
370	30.0	201.6		8,100	30.7	195.9		8,400	370

MLC300 VPC-MAX S-1

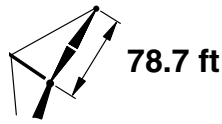
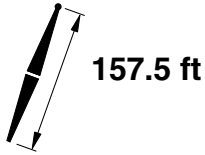
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
55	81.4	218.2	79,900	79,900					55
60	80.0	217.0	77,900	77,900					60
65	78.7	215.6	76,100	76,100	81.9	213.0	63,100	63,100	65
70	77.3	214.1	74,300	74,300	80.5	211.5	60,300	60,300	70
75	75.9	212.5	72,600	72,600	79.1	209.9	57,800	57,800	75
80	74.5	210.7	71,000	71,000	77.7	208.1	55,500	55,500	80
85	73.1	208.8	69,400	69,400	76.2	206.1	53,400	53,400	85
90	71.6	206.7	67,900	67,900	74.8	204.0	51,500	51,500	90
95	70.2	204.5	65,100	65,100	73.3	201.8	49,600	49,600	95
100	68.7	202.2	62,400	62,400	71.8	199.4	48,000	48,000	100
105	67.3	199.6	59,900	59,900	70.3	196.9	46,400	46,400	105
110	65.8	197.0	57,700	57,700	68.8	194.1	44,800	44,800	110
115	64.2	194.1	55,500	55,500	67.3	191.2	43,500	43,500	115
120	62.7	191.1	53,600	53,600	65.7	188.2	42,200	42,200	120
125	61.1	187.9	51,700	51,700	64.1	184.9	41,000	41,000	125
130	59.5	184.4	50,000	50,000	62.5	181.4	39,900	39,900	130
135	57.9	180.8	48,400	48,400	60.8	177.7	38,700	38,700	135
140	56.2	176.9	46,900	46,900	59.1	173.8	37,800	37,800	140
145	54.5	172.8	45,500	45,500	57.4	169.6	36,800	36,800	145
150	52.8	168.5	44,200	44,200	55.6	165.2	35,900	35,900	150
155	51.0	163.8	42,800	42,800	53.7	160.4	35,000	35,000	155
160	49.1	158.9	41,700	41,700	51.8	155.4	34,200	34,200	160
165	47.2	153.6	40,600	40,600	49.9	149.9	33,500	33,500	165
170	45.2	148.0	39,500	39,500	47.8	144.1	32,800	32,800	170
180	40.9	135.3	37,600	37,600	43.4	131.1	31,500	31,500	180
190	36.2	120.4	35,800	35,800	38.5	115.6	30,400	30,400	190
200	30.7	102.2	34,300	34,300	32.7	96.4	29,500	29,500	200
210	23.8	78.1	33,000	33,000					210

MLC300 VPC-MAX S-1

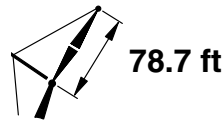
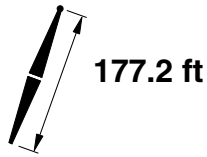
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	ft	lb	lb	
45	84.6	240.3	84,100	84,100					45
50	83.4	239.4	82,200	82,200					50
55	82.1	238.3	80,400	80,400					55
60	80.9	237.2	78,600	78,600	83.9	234.6	67,200	67,200	60
65	79.6	236.0	76,900	76,900	82.6	233.3	64,300	64,300	65
70	78.4	234.6	75,300	75,300	81.3	231.9	61,700	61,700	70
75	77.1	233.1	73,700	73,700	80.0	230.4	59,400	59,400	75
80	75.8	231.5	72,200	72,200	78.8	228.8	57,100	57,100	80
85	74.6	229.8	70,700	70,700	77.5	227.0	55,100	55,100	85
90	73.3	227.9	69,300	69,300	76.1	225.1	53,200	53,200	90
95	72.0	225.9	68,000	68,000	74.8	223.1	51,400	51,400	95
100	70.6	223.8	65,900	65,900	73.5	221.0	49,700	49,700	100
105	69.3	221.5	63,300	63,300	72.1	218.7	48,200	48,200	105
110	68.0	219.1	61,000	61,000	70.8	216.2	46,700	46,700	110
115	66.6	216.6	58,900	58,900	69.4	213.6	45,400	45,400	115
120	65.2	213.9	56,800	56,800	68.0	210.9	44,100	44,100	120
125	63.8	211.0	54,900	54,900	66.6	208.0	42,800	42,800	125
130	62.4	208.0	53,100	53,100	65.2	204.9	41,800	41,800	130
135	61.0	204.8	51,500	51,500	63.7	201.7	40,600	40,600	135
140	59.5	201.4	49,900	49,900	62.2	198.2	39,600	39,600	140
145	58.0	197.8	48,500	48,500	60.7	194.6	38,600	38,600	145
150	56.5	194.0	47,100	47,100	59.1	190.8	37,700	37,700	150
155	55.0	190.0	45,800	45,800	57.6	186.7	36,900	36,900	155
160	53.4	185.8	44,500	44,500	56.0	182.4	36,100	36,100	160
165	51.8	181.4	43,300	43,300	54.3	177.8	35,200	35,200	165
170	50.1	176.6	42,200	42,200	52.6	173.0	34,500	34,500	170
180	46.6	166.3	40,300	40,300	49.0	162.4	33,200	33,200	180
190	42.9	154.5	38,400	38,400	45.2	150.4	32,000	32,000	190
200	38.8	141.0	36,700	36,700	41.0	136.4	30,900	30,900	200
210	34.2	125.2	35,200	35,200	36.3	119.9	30,000	30,000	210
220	29.0	105.8	33,900	33,900	30.7	99.4	29,300	29,300	220
230	22.3	80.1	32,900	32,900					230

MLC300 VPC-MAX S-1

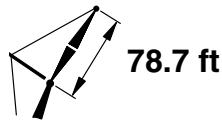
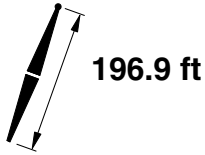
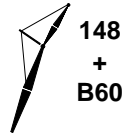
ASME B30.5



ft	10°				20°				ft
	ft	ft	ft		ft	ft	ft		
			34.8	48.0			34.8	48.0	
lb	lb	lb	lb	lb	lb	lb	lb		
45	85.0	260.2	84,100	84,100					45
50	83.9	259.3	82,300	82,300					50
55	82.7	258.4	80,600	80,600					55
60	81.6	257.3	79,100	79,100	84.3	254.6	68,100	68,100	60
65	80.4	256.2	77,500	77,500	83.2	253.4	65,400	65,400	65
70	79.3	254.9	76,000	76,000	82.0	252.2	62,900	62,900	70
75	78.1	253.6	74,500	74,500	80.8	250.8	60,700	60,700	75
80	77.0	252.1	73,100	73,100	79.7	249.3	58,500	58,500	80
85	75.8	250.5	71,800	71,800	78.5	247.7	56,600	56,600	85
90	74.6	248.8	70,400	70,400	77.3	246.0	54,700	54,700	90
95	73.4	247.0	69,200	69,200	76.1	244.1	53,000	53,000	95
100	72.2	245.1	68,000	68,000	74.9	242.2	51,400	51,400	100
105	71.0	243.0	66,400	66,400	73.6	240.1	49,900	49,900	105
110	69.8	240.8	64,100	64,100	72.4	237.9	48,400	48,400	110
115	68.6	238.5	61,800	61,800	71.2	235.5	47,100	47,100	115
120	67.3	236.1	59,800	59,800	69.9	233.1	45,800	45,800	120
125	66.1	233.5	57,900	57,900	68.6	230.4	44,600	44,600	125
130	64.8	230.8	56,100	56,100	67.3	227.7	43,400	43,400	130
135	63.5	227.9	54,400	54,400	66.0	224.8	42,400	42,400	135
140	62.2	224.9	52,800	52,800	64.7	221.7	41,300	41,300	140
145	60.9	221.7	51,300	51,300	63.3	218.5	40,400	40,400	145
150	59.5	218.3	49,900	49,900	62.0	215.1	39,500	39,500	150
155	58.1	214.8	48,500	48,500	60.6	211.5	38,600	38,600	155
160	56.8	211.1	47,300	47,300	59.2	207.7	37,800	37,800	160
165	55.3	207.2	46,000	46,000	57.7	203.8	37,000	37,000	165
170	53.9	203.1	44,900	44,900	56.3	199.6	36,200	36,200	170
180	50.9	194.2	42,700	42,700	53.2	190.5	34,800	34,800	180
190	47.8	184.4	40,800	40,800	50.0	180.4	33,500	33,500	190
200	44.4	173.3	39,100	39,100	46.6	169.1	32,400	32,400	200
210	40.8	160.8	37,500	37,500	42.9	156.3	31,300	31,300	210
220	36.9	146.4	36,000	36,000	38.9	141.4	30,400	30,400	220
230	32.5	129.6	34,800	34,800	34.3	123.9	29,700	29,700	230
240	27.4	109.1	33,600	33,600	28.9	102.2	29,100	29,100	240
250	21.0	82.0	32,700	32,700					250

MLC300 VPC-MAX S-1

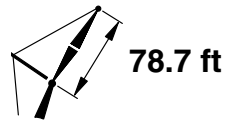
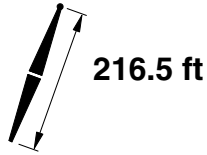
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
50	84.3	279.3	82,200	82,200					50
55	83.3	278.4	80,600	80,600					55
60	82.2	277.4	79,200	79,200	84.8	274.6	68,900	68,900	60
65	81.1	276.4	77,800	77,800	83.7	273.5	66,400	66,400	65
70	80.1	275.2	76,400	76,400	82.6	272.3	64,000	64,000	70
75	79.0	273.9	75,000	75,000	81.5	271.1	61,800	61,800	75
80	77.9	272.6	73,800	73,800	80.4	269.7	59,800	59,800	80
85	76.8	271.1	72,500	72,500	79.3	268.2	57,900	57,900	85
90	75.8	269.5	71,300	71,300	78.2	266.6	56,100	56,100	90
95	74.7	267.9	70,100	70,100	77.1	264.9	54,400	54,400	95
100	73.6	266.1	68,900	68,900	76.0	263.1	52,800	52,800	100
105	72.4	264.2	67,900	67,900	74.9	261.2	51,300	51,300	105
110	71.3	262.2	66,800	66,800	73.8	259.2	49,900	49,900	110
115	70.2	260.1	64,700	64,700	72.6	257.1	48,600	48,600	115
120	69.1	257.8	62,600	62,600	71.5	254.8	47,300	47,300	120
125	67.9	255.5	60,700	60,700	70.3	252.4	46,100	46,100	125
130	66.8	253.0	58,900	58,900	69.1	249.9	45,000	45,000	130
135	65.6	250.4	57,100	57,100	67.9	247.3	43,900	43,900	135
140	64.4	247.7	55,500	55,500	66.7	244.5	42,900	42,900	140
145	63.2	244.8	54,000	54,000	65.5	241.6	42,000	42,000	145
150	62.0	241.8	52,500	52,500	64.3	238.5	41,000	41,000	150
155	60.8	238.6	51,100	51,100	63.1	235.3	40,100	40,100	155
160	59.5	235.3	49,900	49,900	61.8	231.9	39,300	39,300	160
165	58.2	231.8	48,600	48,600	60.5	228.4	38,500	38,500	165
170	57.0	228.2	47,300	47,300	59.2	224.7	37,700	37,700	170
180	54.3	220.3	45,100	45,100	56.5	216.7	36,300	36,300	180
190	51.6	211.7	43,200	43,200	53.7	208.0	35,000	35,000	190
200	48.7	202.2	41,400	41,400	50.8	198.3	33,800	33,800	200
210	45.7	191.7	39,700	39,700	47.7	187.5	32,700	32,700	210
220	42.5	179.9	38,100	38,100	44.4	175.5	31,700	31,700	220
230	39.0	166.7	36,800	36,800	40.9	161.8	30,900	30,900	230
240	35.3	151.5	35,500	35,500	37.0	146.2	30,100	30,100	240
250	31.0	133.8	32,500	34,400	32.6	127.7	29,500	29,500	250
260	26.1	112.3	29,300	33,400					260
270	19.8	83.6	26,200	32,600					270

MLC300 VPC-MAX S-1

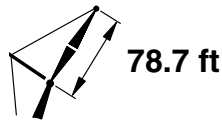
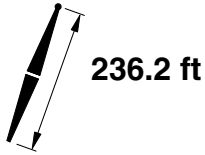
ASME B30.5



	10°				20°				
	ft	°	ft	34.8 ft		48.0 ft		ft	
				lb	lb	lb	lb		
50	84.7	299.2	81,800	81,800					50
55	83.7	298.3	80,500	80,500					55
60	82.7	297.4	79,100	79,100					60
65	81.7	296.5	77,800	77,800	84.1	293.5	67,100	67,100	65
70	80.7	295.4	76,600	76,600	83.1	292.5	64,900	64,900	70
75	79.8	294.2	75,300	75,300	82.1	291.3	62,800	62,800	75
80	78.8	292.9	74,200	74,200	81.1	290.0	60,800	60,800	80
85	77.7	291.6	73,000	73,000	80.1	288.6	59,000	59,000	85
90	76.7	290.1	71,900	71,900	79.1	287.1	57,300	57,300	90
95	75.7	288.6	70,800	70,800	78.0	285.6	55,700	55,700	95
100	74.7	286.9	69,700	69,700	77.0	283.9	54,100	54,100	100
105	73.7	285.2	68,700	68,700	76.0	282.1	52,600	52,600	105
110	72.6	283.3	67,700	67,700	74.9	280.3	51,300	51,300	110
115	71.6	281.4	66,700	66,700	73.9	278.3	50,000	50,000	115
120	70.6	279.3	65,200	65,200	72.8	276.2	48,800	48,800	120
125	69.5	277.1	63,200	63,200	71.7	274.0	47,600	47,600	125
130	68.4	274.9	61,400	61,400	70.7	271.7	46,400	46,400	130
135	67.4	272.5	59,700	59,700	69.6	269.3	45,400	45,400	135
140	66.3	270.0	58,000	58,000	68.5	266.8	44,400	44,400	140
145	65.2	267.3	56,400	56,400	67.4	264.1	43,300	43,300	145
150	64.1	264.6	55,000	55,000	66.2	261.3	42,400	42,400	150
155	62.9	261.7	53,600	53,600	65.1	258.4	41,600	41,600	155
160	61.8	258.7	52,200	52,200	64.0	255.3	40,700	40,700	160
165	60.7	255.5	50,900	50,900	62.8	252.1	39,900	39,900	165
170	59.5	252.2	49,700	49,700	61.6	248.8	39,100	39,100	170
180	57.1	245.2	47,500	47,500	59.2	241.7	37,700	37,700	180
190	54.7	237.5	45,400	45,400	56.7	233.9	36,400	36,400	190
200	52.2	229.1	43,600	43,600	54.2	225.3	35,100	35,100	200
210	49.5	219.9	41,800	41,800	51.5	216.0	34,000	34,000	210
220	46.8	209.8	40,200	40,200	48.7	205.6	33,000	33,000	220
230	43.9	198.7	38,500	38,800	45.7	194.2	32,100	32,100	230
240	40.8	186.2	34,900	37,500	42.5	181.5	31,200	31,200	240
250	37.4	172.3	31,500	36,200	39.1	167.1	30,500	30,500	250
260	33.8	156.4	28,400	35,100	35.3	150.7	29,000	29,800	260
270	29.7	137.8	25,400	34,100	31.0	131.2	25,900	29,300	270
280	24.9	115.2	22,600	33,200					280
290	18.8	85.1	20,000	32,500					290

MLC300 VPC-MAX S-1

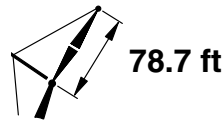
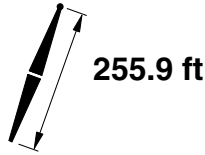
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
55	84.1	318.3	80,000	80,000					55
60	83.2	317.4	78,800	78,800					60
65	82.3	316.5	77,700	77,700	84.5	313.5	67,800	67,800	65
70	81.3	315.5	76,500	76,500	83.6	312.5	65,700	65,700	70
75	80.4	314.4	75,400	75,400	82.6	311.4	63,700	63,700	75
80	79.5	313.2	74,300	74,300	81.7	310.2	61,800	61,800	80
85	78.5	311.9	73,200	73,200	80.7	308.9	60,000	60,000	85
90	77.6	310.6	72,200	72,200	79.8	307.6	58,400	58,400	90
95	76.6	309.1	71,100	71,100	78.8	306.1	56,800	56,800	95
100	75.7	307.6	70,200	70,200	77.9	304.5	55,300	55,300	100
105	74.7	306.0	69,200	69,200	76.9	302.9	53,800	53,800	105
110	73.8	304.3	68,300	68,300	75.9	301.2	52,500	52,500	110
115	72.8	302.4	67,400	67,400	74.9	299.3	51,200	51,200	115
120	71.8	300.5	66,400	66,400	74.0	297.4	50,000	50,000	120
125	70.9	298.5	65,600	65,600	73.0	295.4	48,800	48,800	125
130	69.9	296.4	63,800	63,800	72.0	293.2	47,800	47,800	130
135	68.9	294.2	62,100	62,100	71.0	291.0	46,700	46,700	135
140	67.9	291.9	60,400	60,400	70.0	288.7	45,700	45,700	140
145	66.9	289.5	58,800	58,800	68.9	286.2	44,800	44,800	145
150	65.8	286.9	57,400	57,400	67.9	283.6	43,800	43,800	150
155	64.8	284.3	55,900	55,900	66.9	281.0	42,900	42,900	155
160	63.8	281.5	54,500	54,500	65.8	278.2	42,100	42,100	160
165	62.7	278.6	53,300	53,300	64.7	275.2	41,300	41,300	165
170	61.7	275.6	52,000	52,000	63.7	272.2	40,500	40,500	170
180	59.5	269.2	49,700	49,700	61.5	265.7	39,000	39,000	180
190	57.3	262.2	47,600	47,600	59.2	258.6	37,700	37,700	190
200	55.0	254.7	45,700	45,700	56.9	251.0	36,500	36,500	200
210	52.7	246.5	43,900	43,900	54.5	242.6	35,300	35,300	210
220	50.2	237.5	40,200	42,300	52.1	233.5	34,300	34,300	220
230	47.7	227.8	36,300	40,700	49.5	223.6	33,300	33,300	230
240	45.0	217.1	32,700	39,300	46.7	212.7	32,400	32,400	240
250	42.2	205.3	29,300	38,000	43.9	200.7	30,300	31,600	250
260	39.2	192.3	26,200	36,900	40.8	187.3	27,100	30,900	260
270	36.0	177.7	23,300	35,800	37.5	172.2	24,000	30,200	270
280	32.5	161.0	20,500	34,800	33.8	155.0	21,100	29,700	280
290	28.5	141.6	18,000	33,300	29.7	134.6	18,400	29,200	290
300	23.8	117.9	15,500	30,700					300

MLC300 VPC-MAX S-1

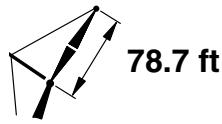
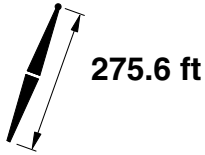
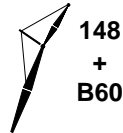
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
55	84.5	338.2	79,000	79,000					55
60	83.6	337.4	78,000	78,000					60
65	82.7	336.5	76,900	76,900	84.8	333.5	68,200	68,200	65
70	81.9	335.5	75,900	75,900	83.9	332.5	66,100	66,100	70
75	81.0	334.5	74,900	74,900	83.1	331.5	64,200	64,200	75
80	80.1	333.4	73,900	73,900	82.2	330.4	62,400	62,400	80
85	79.2	332.2	73,000	73,000	81.3	329.2	60,800	60,800	85
90	78.3	330.9	72,000	72,000	80.4	327.9	59,200	59,200	90
95	77.5	329.6	71,100	71,100	79.5	326.5	57,700	57,700	95
100	76.6	328.2	70,200	70,200	78.6	325.1	56,200	56,200	100
105	75.7	326.6	69,300	69,300	77.7	323.5	54,800	54,800	105
110	74.8	325.0	68,400	68,400	76.8	321.9	53,500	53,500	110
115	73.9	323.3	67,600	67,600	75.9	320.2	52,300	52,300	115
120	73.0	321.5	66,800	66,800	75.0	318.4	51,100	51,100	120
125	72.0	319.7	66,000	66,000	74.0	316.5	50,000	50,000	125
130	71.1	317.7	65,200	65,200	73.1	314.5	48,800	48,800	130
135	70.2	315.6	64,000	64,000	72.2	312.4	47,800	47,800	135
140	69.3	313.5	62,300	62,300	71.2	310.2	46,800	46,800	140
145	68.3	311.2	60,800	60,800	70.3	308.0	45,900	45,900	145
150	67.4	308.9	59,200	59,200	69.3	305.6	45,000	45,000	150
155	66.4	306.4	57,800	57,800	68.4	303.1	44,100	44,100	155
160	65.5	303.9	56,500	56,500	67.4	300.5	43,200	43,200	160
165	64.5	301.2	55,100	55,100	66.4	297.8	42,400	42,400	165
170	63.5	298.4	53,900	53,900	65.4	295.0	41,700	41,700	170
180	61.5	292.5	51,500	51,500	63.4	289.0	40,200	40,200	180
190	59.5	286.2	49,500	49,500	61.4	282.6	38,800	38,800	190
200	57.4	279.3	47,500	47,500	59.3	275.6	37,600	37,600	200
210	55.3	271.8	42,800	45,600	57.1	268.0	36,400	36,400	210
220	53.1	263.8	38,400	44,000	54.9	259.9	35,400	35,400	220
230	50.8	255.0	34,500	42,500	52.5	251.0	34,400	34,400	230
240	48.5	245.6	30,800	41,000	50.2	241.4	32,200	33,500	240
250	46.0	235.3	27,500	39,700	47.7	230.9	28,700	32,600	250
260	43.4	224.0	24,400	38,400	45.0	219.4	25,500	31,900	260
270	40.7	211.7	21,500	37,300	42.2	206.8	22,500	31,200	270
280	37.8	198.1	18,800	34,800	39.3	192.8	19,600	30,500	280
290	34.7	182.8	16,300	32,100	36.0	177.1	17,000	30,000	290
300	31.3	165.4	13,900	29,600	32.5	159.0	14,400	29,500	300
310	27.4	145.2	11,600	27,200	28.4	137.8	12,000	27,500	310
320	22.8	120.5	9,400	24,900					320

MLC300 VPC-MAX S-1

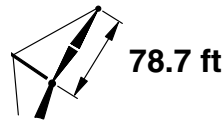
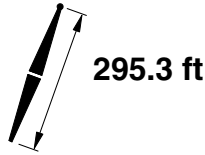
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
55	84.8	358.0	78,100	78,100					55
60	84.0	357.3	77,200	77,200					60
65	83.1	356.5	76,300	76,300					65
70	82.3	355.6	75,300	75,300	84.3	352.5	66,700	66,700	70
75	81.5	354.6	74,400	74,400	83.5	351.5	64,900	64,900	75
80	80.7	353.6	73,600	73,600	82.6	350.5	63,100	63,100	80
85	79.8	352.4	72,700	72,700	81.8	349.3	61,500	61,500	85
90	79.0	351.2	71,900	71,900	81.0	348.1	60,000	60,000	90
95	78.2	350.0	71,000	71,000	80.1	346.8	58,500	58,500	95
100	77.3	348.6	70,200	70,200	79.3	345.5	57,100	57,100	100
105	76.5	347.2	69,300	69,300	78.4	344.0	55,800	55,800	105
110	75.6	345.7	68,600	68,600	77.6	342.5	54,500	54,500	110
115	74.8	344.1	67,800	67,800	76.7	340.9	53,300	53,300	115
120	73.9	342.4	67,000	67,000	75.9	339.2	52,100	52,100	120
125	73.1	340.6	66,300	66,300	75.0	337.4	50,900	50,900	125
130	72.2	338.8	65,500	65,500	74.1	335.6	49,900	49,900	130
135	71.4	336.9	64,800	64,800	73.2	333.6	48,900	48,900	135
140	70.5	334.9	64,100	64,100	72.4	331.6	47,900	47,900	140
145	69.6	332.8	62,700	62,700	71.5	329.5	46,900	46,900	145
150	68.7	330.6	61,200	61,200	70.6	327.2	46,000	46,000	150
155	67.8	328.3	59,800	59,800	69.7	324.9	45,200	45,200	155
160	66.9	325.9	58,400	58,400	68.8	322.5	44,400	44,400	160
165	66.0	323.4	57,000	57,000	67.9	320.0	43,600	43,600	165
170	65.1	320.8	55,800	55,800	66.9	317.4	42,800	42,800	170
180	63.3	315.4	53,400	53,400	65.1	311.9	41,300	41,300	180
190	61.4	309.5	50,500	51,300	63.2	305.9	39,900	39,900	190
200	59.5	303.1	45,200	49,300	61.2	299.5	38,700	38,700	200
210	57.5	296.3	40,500	47,500	59.3	292.6	37,500	37,500	210
220	55.5	288.9	36,100	45,800	57.2	285.1	36,500	36,500	220
230	53.5	281.0	32,200	44,200	55.1	277.1	33,900	35,400	230
240	51.4	272.5	28,600	42,700	53.0	268.4	30,100	34,500	240
250	49.2	263.3	25,200	41,400	50.8	259.1	26,600	33,700	250
260	46.9	253.3	22,100	39,100	48.4	248.9	23,400	32,900	260
270	44.5	242.5	19,200	36,000	46.0	237.9	20,400	32,100	270
280	42.0	230.7	16,500	33,100	43.5	225.9	17,600	31,400	280
290	39.4	217.8	14,000	30,400	40.8	212.7	14,900	30,800	290
300	36.5	203.6	11,700	27,900	37.9	198.1	12,400	28,500	300
310	33.5	187.7	9,400	25,600	34.7	181.7	10,100	26,100	310
320	30.2	169.6	7,300	23,400	31.3	162.9	7,800	23,800	320
330	26.4	148.6		21,300					330
340	21.9	122.9		19,200					340

MLC300 VPC-MAX S-1

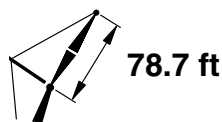
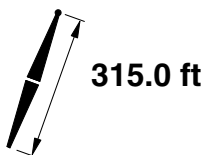
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
60	84.3	377.2	72,700	72,700					60
65	83.5	376.4	71,900	71,900					65
70	82.7	375.5	71,200	71,200	84.6	372.4	63,500	63,500	70
75	81.9	374.6	70,400	70,400	83.8	371.5	63,000	63,000	75
80	81.2	373.6	69,700	69,700	83.0	370.5	62,400	62,400	80
85	80.4	372.6	68,900	68,900	82.2	369.4	62,000	62,000	85
90	79.6	371.5	68,200	68,200	81.4	368.3	61,400	61,400	90
95	78.8	370.3	67,500	67,500	80.7	367.1	59,900	59,900	95
100	78.0	369.0	66,700	66,700	79.9	365.8	58,500	58,500	100
105	77.2	367.6	66,100	66,100	79.1	364.4	57,200	57,200	105
110	76.4	366.2	65,400	65,400	78.3	363.0	56,000	56,000	110
115	75.6	364.7	64,800	64,800	77.4	361.5	54,800	54,800	115
120	74.8	363.1	64,100	64,100	76.6	359.9	53,500	53,500	120
125	74.0	361.5	63,400	63,400	75.8	358.2	52,500	52,500	125
130	73.2	359.7	62,800	62,800	75.0	356.5	51,300	51,300	130
135	72.4	357.9	62,100	62,100	74.2	354.7	50,300	50,300	135
140	71.6	356.0	61,600	61,600	73.4	352.7	49,400	49,400	140
145	70.8	354.1	60,900	60,900	72.5	350.7	48,400	48,400	145
150	69.9	352.0	60,300	60,300	71.7	348.7	47,500	47,500	150
155	69.1	349.8	59,700	59,700	70.8	346.5	46,600	46,600	155
160	68.3	347.6	59,100	59,100	70.0	344.2	45,800	45,800	160
165	67.4	345.3	58,500	58,500	69.1	341.9	45,000	45,000	165
170	66.6	342.9	57,900	57,900	68.3	339.5	44,200	44,200	170
180	64.8	337.8	55,500	55,800	66.5	334.3	42,700	42,700	180
190	63.1	332.3	49,600	53,600	64.8	328.8	41,400	41,400	190
200	61.3	326.4	44,400	51,600	63.0	322.8	40,100	40,100	200
210	59.5	320.1	39,600	49,700	61.1	316.4	38,900	38,900	210
220	57.7	313.3	35,300	47,900	59.3	309.5	37,200	37,800	220
230	55.8	306.0	31,300	46,300	57.4	302.2	33,100	36,800	230
240	53.8	298.2	27,700	44,800	55.4	294.3	29,300	35,800	240
250	51.8	289.8	24,400	41,800	53.4	285.8	25,900	34,900	250
260	49.8	280.9	21,300	38,400	51.3	276.7	22,700	34,100	260
270	47.6	271.2	18,400	35,400	49.1	266.8	19,700	33,400	270
280	45.4	260.8	15,700	32,500	46.9	256.2	16,900	32,600	280
290	43.1	249.5	13,200	29,900	44.5	244.7	14,300	30,600	290
300	40.7	237.2	10,900	27,400	42.0	232.2	11,800	28,100	300
310	38.1	223.8	8,700	25,000	39.4	218.4	9,500	25,700	310
320	35.4	208.9	6,600	22,800	36.6	203.2	7,300	23,400	320
330	32.4	192.4		20,800	33.5	186.1		21,200	330
340	29.2	173.6		18,800	30.1	166.6		19,100	340
350	25.5	151.8		16,900					350
360	21.1	125.1		15,100					360

MLC300 VPC-MAX S-1

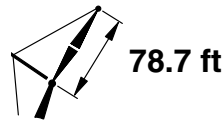
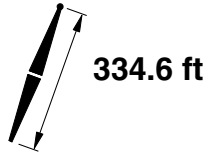
ASME B30.5



	10°				20°					
	ft	°	ft	lb		ft	°	ft		lb
				34.8 ft	48.0 ft					
60	84.6		397.0	71,600	71,600					60
65	83.8		396.3	70,900	70,900					65
70	83.1		395.5	70,300	70,300	84.9	392.3	62,800	62,800	70
75	82.4		394.6	69,700	69,700	84.1	391.5	62,400	62,400	75
80	81.6		393.7	69,000	69,000	83.4	390.5	61,900	61,900	80
85	80.9		392.7	68,400	68,400	82.6	389.5	61,400	61,400	85
90	80.1		391.6	67,700	67,700	81.9	388.4	60,900	60,900	90
95	79.4		390.5	67,100	67,100	81.1	387.3	60,600	60,600	95
100	78.6		389.3	66,400	66,400	80.4	386.1	59,400	59,400	100
105	77.9		388.0	65,800	65,800	79.6	384.8	58,200	58,200	105
110	77.1		386.6	65,100	65,100	78.9	383.4	57,000	57,000	110
115	76.4		385.2	64,600	64,600	78.1	382.0	55,700	55,700	115
120	75.6		383.7	64,000	64,000	77.3	380.5	54,500	54,500	120
125	74.9		382.2	63,300	63,300	76.6	378.9	53,500	53,500	125
130	74.1		380.5	62,700	62,700	75.8	377.3	52,400	52,400	130
135	73.3		378.8	62,200	62,200	75.0	375.5	51,400	51,400	135
140	72.5		377.0	61,600	61,600	74.2	373.7	50,400	50,400	140
145	71.8		375.2	61,100	61,100	73.5	371.8	49,500	49,500	145
150	71.0		373.2	60,500	60,500	72.7	369.9	48,600	48,600	150
155	70.2		371.2	60,000	60,000	71.9	367.8	47,800	47,800	155
160	69.4		369.1	59,400	59,400	71.1	365.7	46,900	46,900	160
165	68.6		366.9	58,900	58,900	70.3	363.5	46,100	46,100	165
170	67.8		364.7	58,300	58,300	69.5	361.2	45,300	45,300	170
180	66.2		359.9	53,300	57,200	67.8	356.4	43,900	43,900	180
190	64.6		354.7	47,400	55,600	66.2	351.2	42,500	42,500	190
200	62.9		349.2	42,200	53,400	64.5	345.6	41,200	41,200	200
210	61.2		343.3	37,400	51,600	62.8	339.7	39,700	40,000	210
220	59.5		337.0	33,000	49,800	61.1	333.3	35,200	38,900	220
230	57.7		330.3	29,100	47,700	59.3	326.5	31,000	37,900	230
240	56.0		323.1	25,500	43,700	57.5	319.2	27,300	36,900	240
250	54.1		315.4	22,100	40,100	55.6	311.4	23,800	35,900	250
260	52.2		307.2	19,000	36,800	53.7	303.1	20,600	35,100	260
270	50.3		298.4	16,100	33,700	51.7	294.2	17,600	34,300	270
280	48.3		289.0	13,500	30,900	49.7	284.6	14,800	31,900	280
290	46.2		278.8	11,000	28,200	47.6	274.3	12,200	29,100	290
300	44.1		268.0	8,600	25,700	45.4	263.2	9,700	26,600	300
310	41.8		256.2		23,400	43.1	251.2	7,400	24,100	310
320	39.5		243.4		21,200	40.7	238.2		21,900	320
330	37.0		229.4		19,200	38.2	223.9		19,700	330
340	34.3		214.1		17,200	35.4	208.1		17,700	340
350	31.4		196.9		15,400	32.4	190.4		15,800	350
360	28.2		177.5		13,600	29.1	170.2		13,900	360
370	24.6		154.9		11,900					370
380	20.4		127.2		10,300					380

MLC300 VPC-MAX S-1

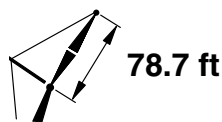
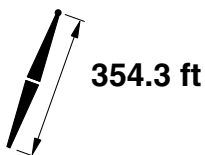
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
60	84.8	416.9	69,800	69,800					60
65	84.1	416.2	69,200	69,200					65
70	83.4	415.4	68,600	68,600					70
75	82.7	414.6	68,000	68,000	84.4	411.4	61,200	61,200	75
80	82.0	413.7	67,500	67,500	83.7	410.5	60,800	60,800	80
85	81.3	412.8	66,800	66,800	83.0	409.5	60,400	60,400	85
90	80.6	411.7	66,300	66,300	82.3	408.5	60,100	60,100	90
95	79.9	410.7	65,700	65,700	81.6	407.4	59,700	59,700	95
100	79.2	409.5	65,200	65,200	80.9	406.3	59,300	59,300	100
105	78.5	408.3	64,700	64,700	80.1	405.0	58,200	58,200	105
110	77.8	407.0	64,100	64,100	79.4	403.8	57,100	57,100	110
115	77.0	405.7	63,500	63,500	78.7	402.4	55,900	55,900	115
120	76.3	404.3	63,000	63,000	78.0	401.0	54,800	54,800	120
125	75.6	402.8	62,500	62,500	77.2	399.5	53,800	53,800	125
130	74.9	401.2	62,000	62,000	76.5	397.9	52,800	52,800	130
135	74.1	399.6	61,400	61,400	75.8	396.3	51,800	51,800	135
140	73.4	397.9	59,900	59,900	75.0	394.6	50,800	50,800	140
145	72.7	396.1	58,500	58,500	74.3	392.8	49,900	49,900	145
150	71.9	394.3	57,200	57,200	73.5	390.9	49,100	49,100	150
155	71.2	392.4	55,800	55,800	72.8	389.0	48,200	48,200	155
160	70.5	390.4	54,600	54,600	72.0	387.0	47,400	47,400	160
165	69.7	388.4	53,400	53,400	71.3	384.9	46,700	46,700	165
170	68.9	386.2	52,200	52,200	70.5	382.8	45,900	45,900	170
180	67.4	381.7	50,000	50,000	69.0	378.2	44,400	44,400	180
190	65.9	376.9	46,300	47,900	67.4	373.3	43,100	43,100	190
200	64.3	371.7	41,100	46,000	65.9	368.1	41,900	41,900	200
210	62.7	366.2	36,300	44,200	64.3	362.5	38,700	40,500	210
220	61.1	360.3	32,000	42,500	62.6	356.6	34,200	39,200	220
230	59.5	354.0	28,000	41,000	61.0	350.2	30,100	37,900	230
240	57.8	347.3	24,400	39,500	59.3	343.5	26,300	36,700	240
250	56.1	340.2	21,000	38,200	57.6	336.2	22,800	35,600	250
260	54.4	332.6	18,000	36,000	55.8	328.6	19,600	34,500	260
270	52.6	324.5	15,100	33,000	54.0	320.4	16,600	33,600	270
280	50.8	315.8	12,400	30,100	52.2	311.6	13,800	31,200	280
290	48.9	306.6	9,900	27,500	50.2	302.3	11,200	28,500	290
300	46.9	296.8	7,600	25,000	48.3	292.3	8,800	25,900	300
310	44.9	286.2		22,700	46.2	281.6	6,500	23,500	310
320	42.8	274.9		20,500	44.1	270.0		21,300	320
330	40.6	262.7		18,400	41.9	257.6		19,100	330
340	38.3	249.4		16,500	39.5	244.0		17,100	340
350	35.9	234.9		14,700	37.0	229.2		15,200	350
360	33.3	219.0		12,900	34.3	212.8		13,400	360
370	30.5	201.3		11,300	31.4	194.5		11,600	370
380	27.4	181.2		9,700	28.2	173.6		10,000	380
390	23.8	157.8		8,100					390

MLC300 VPC-MAX S-1

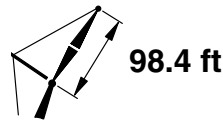
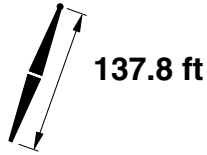
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
65	84.4	436.1	67,800	67,800					65
70	83.7	435.3	67,300	67,300					70
75	83.1	434.5	66,800	66,800	84.7	431.3	60,300	60,300	75
80	82.4	433.7	66,300	66,300	84.0	430.5	60,000	60,000	80
85	81.7	432.8	65,800	65,800	83.3	429.5	59,700	59,700	85
90	81.0	431.8	65,300	65,300	82.6	428.6	59,300	59,300	90
95	80.4	430.8	64,800	64,800	82.0	427.5	59,000	59,000	95
100	79.7	429.7	64,300	64,300	81.3	426.4	58,600	58,600	100
105	79.0	428.5	63,800	63,800	80.6	425.3	58,300	58,300	105
110	78.3	427.3	63,300	63,300	79.9	424.0	57,700	57,700	110
115	77.6	426.0	62,800	62,800	79.2	422.7	56,600	56,600	115
120	77.0	424.7	62,400	62,400	78.5	421.4	55,400	55,400	120
125	76.3	423.3	61,800	61,800	77.8	420.0	54,400	54,400	125
130	75.6	421.8	61,400	61,400	77.1	418.5	53,400	53,400	130
135	74.9	420.3	60,000	60,000	76.4	416.9	52,500	52,500	135
140	74.2	418.7	58,400	58,400	75.7	415.3	51,500	51,500	140
145	73.5	417.0	56,900	56,900	75.0	413.6	50,600	50,600	145
150	72.8	415.2	55,600	55,600	74.3	411.9	49,700	49,700	150
155	72.1	413.4	54,200	54,200	73.6	410.0	49,000	49,000	155
160	71.4	411.5	52,800	52,800	72.9	408.1	48,100	48,100	160
165	70.7	409.6	51,500	51,500	72.2	406.2	47,200	47,200	165
170	70.0	407.6	50,300	50,300	71.5	404.1	46,100	46,100	170
180	68.5	403.3	48,000	48,000	70.0	399.8	44,200	44,200	180
190	67.1	398.7	44,200	45,800	68.6	395.2	42,400	42,400	190
200	65.6	393.9	38,900	43,800	67.1	390.3	40,600	40,600	200
210	64.1	388.6	34,100	41,900	65.6	385.0	36,700	39,100	210
220	62.6	383.1	29,800	40,200	64.0	379.4	32,100	37,500	220
230	61.1	377.2	25,800	38,500	62.5	373.5	28,000	36,100	230
240	59.5	370.9	22,200	37,000	60.9	367.1	24,200	34,900	240
250	57.9	364.3	18,800	35,600	59.3	360.4	20,800	33,600	250
260	56.3	357.2	15,700	34,300	57.7	353.3	17,500	32,500	260
270	54.6	349.7	12,900	31,400	56.0	345.7	14,500	31,400	270
280	52.9	341.7	10,200	28,500	54.3	337.6	11,800	29,700	280
290	51.2	333.2	7,700	25,900	52.5	329.0	9,200	27,000	290
300	49.4	324.2		23,400	50.7	319.9	6,700	24,400	300
310	47.6	314.6		21,100	48.9	310.1		22,000	310
320	45.7	304.4		18,900	46.9	299.7		19,800	320
330	43.7	293.4		16,800	44.9	288.6		17,600	330
340	41.7	281.6		14,900	42.9	276.6		15,600	340
350	39.6	269.0		13,100	40.7	263.7		13,700	350
360	37.3	255.2		11,400	38.4	249.6		11,900	360
370	34.9	240.3		9,700	35.9	234.3		10,200	370
380	32.4	223.8		7,800	33.3	217.4		8,400	380

MLC300 VPC-MAX S-1

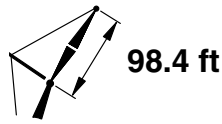
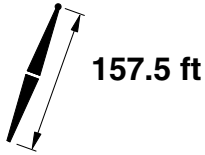
ASME B30.5



	10°				20°				
	ft	°	ft	lb	ft	°	ft	lb	
55	82.5	238.6	63,800	63,800					55
60	81.2	237.4	62,300	62,300					60
65	80.0	236.2	60,800	60,800					65
70	78.7	234.8	59,400	59,400	82.5	232.2	52,400	52,400	70
75	77.5	233.3	57,900	57,900	81.2	230.7	50,700	50,700	75
80	76.2	231.7	56,300	56,300	79.9	229.0	48,500	48,500	80
85	74.9	230.0	54,800	54,800	78.6	227.3	46,600	46,600	85
90	73.6	228.1	53,300	53,300	77.3	225.4	44,700	44,700	90
95	72.3	226.1	51,900	51,900	76.0	223.4	43,000	43,000	95
100	71.0	224.0	50,600	50,600	74.7	221.2	41,400	41,400	100
105	69.7	221.8	49,300	49,300	73.3	218.9	39,900	39,900	105
110	68.3	219.4	48,000	48,000	72.0	216.5	38,500	38,500	110
115	67.0	216.8	46,900	46,900	70.6	213.9	37,200	37,200	115
120	65.6	214.1	45,800	45,800	69.2	211.2	36,000	36,000	120
125	64.2	211.3	44,600	44,600	67.8	208.3	34,800	34,800	125
130	62.8	208.2	43,200	43,200	66.3	205.2	33,800	33,800	130
135	61.4	205.0	41,700	41,700	64.9	202.0	32,800	32,800	135
140	59.9	201.7	40,300	40,300	63.4	198.6	31,800	31,800	140
145	58.4	198.1	39,000	39,000	61.9	194.9	30,900	30,900	145
150	56.9	194.3	37,700	37,700	60.4	191.1	30,000	30,000	150
155	55.4	190.3	36,500	36,500	58.8	187.0	29,200	29,200	155
160	53.8	186.1	35,400	35,400	57.2	182.7	28,500	28,500	160
165	52.1	181.7	34,400	34,400	55.5	178.2	27,800	27,800	165
170	50.5	177.0	33,400	33,400	53.8	173.4	27,100	27,100	170
180	47.0	166.6	31,600	31,600	50.3	162.8	25,800	25,800	180
190	43.3	154.9	29,900	29,900	46.4	150.8	24,700	24,700	190
200	39.2	141.4	28,400	28,400	42.2	136.9	23,700	23,700	200
210	34.7	125.6	27,100	27,100	37.5	120.4	22,800	22,800	210
220	29.4	106.3	25,900	25,900	32.0	100.1	22,100	22,100	220
230	22.8	80.9	24,900	24,900					230

MLC300 VPC-MAX S-1

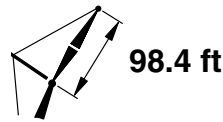
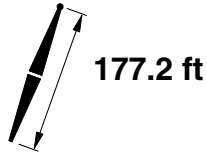
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
50	84.2	259.6	65,500	65,500					50
55	83.1	258.6	64,100	64,100					55
60	81.9	257.6	62,700	62,700					60
65	80.8	256.4	61,400	61,400	84.3	253.7	54,100	54,100	65
70	79.6	255.2	60,100	60,100	83.1	252.4	52,800	52,800	70
75	78.5	253.8	58,800	58,800	81.9	251.0	51,600	51,600	75
80	77.3	252.3	57,400	57,400	80.7	249.5	49,700	49,700	80
85	76.1	250.7	56,000	56,000	79.6	247.9	47,800	47,800	85
90	74.9	249.0	54,500	54,500	78.4	246.2	46,000	46,000	90
95	73.8	247.2	53,200	53,200	77.2	244.4	44,300	44,300	95
100	72.6	245.3	51,900	51,900	75.9	242.4	42,800	42,800	100
105	71.3	243.2	50,700	50,700	74.7	240.3	41,400	41,400	105
110	70.1	241.1	49,600	49,600	73.5	238.1	40,000	40,000	110
115	68.9	238.7	48,400	48,400	72.2	235.8	38,700	38,700	115
120	67.7	236.3	47,300	47,300	71.0	233.3	37,500	37,500	120
125	66.4	233.7	46,200	46,200	69.7	230.7	36,400	36,400	125
130	65.1	231.0	45,200	45,200	68.4	227.9	35,300	35,300	130
135	63.8	228.1	44,200	44,200	67.1	225.0	34,300	34,300	135
140	62.5	225.1	42,800	42,800	65.8	222.0	33,400	33,400	140
145	61.2	221.9	41,400	41,400	64.4	218.7	32,500	32,500	145
150	59.9	218.6	40,200	40,200	63.1	215.3	31,600	31,600	150
155	58.5	215.1	39,000	39,000	61.7	211.8	30,800	30,800	155
160	57.1	211.4	37,800	37,800	60.3	208.0	30,000	30,000	160
165	55.7	207.5	36,700	36,700	58.8	204.0	29,300	29,300	165
170	54.2	203.4	35,700	35,700	57.4	199.9	28,500	28,500	170
180	51.3	194.5	33,800	33,800	54.3	190.8	27,300	27,300	180
190	48.1	184.7	32,100	32,100	51.1	180.8	26,100	26,100	190
200	44.8	173.6	30,500	30,500	47.7	169.4	25,000	25,000	200
210	41.2	161.1	29,100	29,100	44.0	156.6	24,100	24,100	210
220	37.3	146.8	27,800	27,800	40.0	141.8	23,200	23,200	220
230	33.0	130.1	26,700	26,700	35.5	124.4	22,500	22,500	230
240	27.9	109.7	25,700	25,700	30.1	102.8	21,900	21,900	240
250	21.5	82.7	24,700	24,700					250

MLC300 VPC-MAX S-1

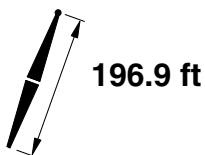
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
50	84.6	279.5	65,500	65,500					50
55	83.6	278.6	64,200	64,200					55
60	82.5	277.6	63,000	63,000					60
65	81.4	276.6	61,700	61,700	84.7	273.7	54,300	54,300	65
70	80.4	275.4	60,500	60,500	83.6	272.5	53,100	53,100	70
75	79.3	274.2	59,300	59,300	82.5	271.2	52,100	52,100	75
80	78.2	272.8	58,100	58,100	81.4	269.9	50,800	50,800	80
85	77.2	271.3	56,900	56,900	80.3	268.4	48,900	48,900	85
90	76.1	269.8	55,600	55,600	79.2	266.8	47,200	47,200	90
95	75.0	268.1	54,400	54,400	78.1	265.1	45,600	45,600	95
100	73.9	266.3	53,100	53,100	77.0	263.3	44,100	44,100	100
105	72.8	264.4	51,900	51,900	75.9	261.4	42,600	42,600	105
110	71.6	262.4	50,800	50,800	74.8	259.4	41,300	41,300	110
115	70.5	260.3	49,700	49,700	73.6	257.2	40,000	40,000	115
120	69.4	258.1	48,700	48,700	72.5	255.0	38,900	38,900	120
125	68.2	255.7	47,600	47,600	71.3	252.6	37,800	37,800	125
130	67.1	253.2	46,700	46,700	70.1	250.1	36,700	36,700	130
135	65.9	250.6	45,700	45,700	69.0	247.5	35,700	35,700	135
140	64.7	247.9	44,800	44,800	67.8	244.7	34,700	34,700	140
145	63.5	245.0	43,800	43,800	66.5	241.8	33,800	33,800	145
150	62.3	242.0	42,500	42,500	65.3	238.7	33,000	33,000	150
155	61.1	238.9	41,200	41,200	64.1	235.5	32,100	32,100	155
160	59.8	235.5	40,100	40,100	62.8	232.1	31,400	31,400	160
165	58.6	232.1	39,000	39,000	61.5	228.6	30,600	30,600	165
170	57.3	228.4	37,900	37,900	60.2	224.9	29,900	29,900	170
180	54.7	220.6	35,900	35,900	57.5	217.0	28,600	28,600	180
190	51.9	212.0	34,200	34,200	54.7	208.2	27,400	27,400	190
200	49.1	202.5	32,500	32,500	51.8	198.5	26,400	26,400	200
210	46.0	192.0	31,000	31,000	48.7	187.8	25,400	25,400	210
220	42.8	180.3	29,700	29,700	45.5	175.7	24,400	24,400	220
230	39.4	167.0	28,500	28,500	41.9	162.1	23,600	23,600	230
240	35.6	151.9	27,300	27,300	38.0	146.5	22,900	22,900	240
250	31.4	134.3	26,300	26,300	33.6	128.1	22,300	22,300	250
260	26.5	112.8	25,400	25,400	28.4	105.2	21,800	21,800	260
270	20.2	84.4	24,600	24,600					270

MLC300 VPC-MAX S-1

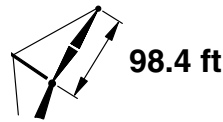
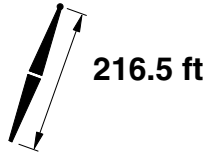
ASME B30.5



	10°				20°					
	ft	°	ft	lb	lb	ft	lb	lb		ft
50	85.0	299.4	34.8 ft	65,200	65,200	84.0	292.6	53,300	53,300	50
55	84.0	298.6	48.0 ft	64,100	64,100					55
60	83.0	297.7		62,900	62,900					60
65	82.0	296.7		61,800	61,800					65
70	81.0	295.6		60,800	60,800					70
75	80.0	294.4		59,600	59,600	83.0	291.4	52,300	52,300	75
80	79.0	293.1		58,500	58,500	82.0	290.1	51,300	51,300	80
85	78.0	291.8		57,500	57,500	81.0	288.8	49,900	49,900	85
90	77.0	290.3		56,500	56,500	80.0	287.3	48,300	48,300	90
95	76.0	288.8		55,300	55,300	79.0	285.7	46,700	46,700	95
100	75.0	287.1		54,100	54,100	77.9	284.1	45,200	45,200	100
105	74.0	285.4		52,900	52,900	76.9	282.3	43,800	43,800	105
110	72.9	283.5		51,900	51,900	75.9	280.4	42,500	42,500	110
115	71.9	281.6		50,800	50,800	74.8	278.4	41,300	41,300	115
120	70.8	279.5		49,900	49,900	73.7	276.4	40,100	40,100	120
125	69.8	277.4		48,800	48,800	72.7	274.2	39,000	39,000	125
130	68.7	275.1		47,900	47,900	71.6	271.9	38,000	38,000	130
135	67.6	272.7		47,000	47,000	70.5	269.4	37,000	37,000	135
140	66.6	270.2		46,100	46,100	69.4	266.9	36,000	36,000	140
145	65.5	267.6		45,300	45,300	68.3	264.2	35,100	35,100	145
150	64.4	264.8		44,400	44,400	67.2	261.5	34,300	34,300	150
155	63.2	261.9		43,500	43,500	66.0	258.5	33,400	33,400	155
160	62.1	258.9		42,300	42,300	64.9	255.5	32,700	32,700	160
165	61.0	255.8		41,100	41,100	63.7	252.3	32,000	32,000	165
170	59.8	252.5		40,000	40,000	62.6	249.0	31,200	31,200	170
180	57.4	245.5		38,000	38,000	60.2	241.8	29,900	29,900	180
190	55.0	237.8		36,200	36,200	57.7	234.0	28,700	28,700	190
200	52.5	229.4		34,500	34,500	55.1	225.5	27,600	27,600	200
210	49.8	220.2		32,900	32,900	52.4	216.1	26,600	26,600	210
220	47.1	210.1		31,500	31,500	49.6	205.8	25,600	25,600	220
230	44.2	199.0		30,200	30,200	46.6	194.4	24,800	24,800	230
240	41.1	186.6		29,000	29,000	43.5	181.7	24,000	24,000	240
250	37.8	172.7		28,000	28,000	40.1	167.4	23,300	23,300	250
260	34.1	156.8		27,000	27,000	36.3	150.9	22,600	22,600	260
270	30.1	138.3		26,000	26,000	32.0	131.6	22,100	22,100	270
280	25.3	115.7		25,200	25,200	26.9	107.5	21,700	21,700	280
290	19.2	85.9		22,700	24,500					290

MLC300 VPC-MAX S-1

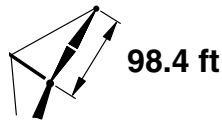
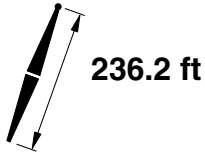
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
55	84.4	318.5	63,800	63,800					55
60	83.5	317.6	62,800	62,800					60
65	82.5	316.7	61,800	61,800					65
70	81.6	315.7	60,800	60,800	84.4	312.6	53,400	53,400	70
75	80.7	314.6	59,800	59,800	83.5	311.5	52,500	52,500	75
80	79.7	313.4	58,800	58,800	82.5	310.3	51,600	51,600	80
85	78.8	312.1	57,900	57,900	81.6	309.0	50,700	50,700	85
90	77.9	310.8	56,900	56,900	80.6	307.7	49,200	49,200	90
95	76.9	309.3	55,900	55,900	79.7	306.2	47,700	47,700	95
100	76.0	307.8	54,800	54,800	78.7	304.6	46,200	46,200	100
105	75.0	306.2	53,800	53,800	77.8	303.0	44,900	44,900	105
110	74.0	304.5	52,800	52,800	76.8	301.3	43,600	43,600	110
115	73.1	302.7	51,800	51,800	75.8	299.4	42,400	42,400	115
120	72.1	300.7	50,800	50,800	74.8	297.5	41,300	41,300	120
125	71.1	298.7	49,900	49,900	73.8	295.5	40,100	40,100	125
130	70.1	296.6	49,000	49,000	72.8	293.3	39,100	39,100	130
135	69.2	294.4	48,100	48,100	71.8	291.1	38,200	38,200	135
140	68.2	292.1	47,200	47,200	70.8	288.8	37,200	37,200	140
145	67.1	289.7	46,400	46,400	69.8	286.3	36,300	36,300	145
150	66.1	287.1	45,600	45,600	68.8	283.7	35,500	35,500	150
155	65.1	284.5	44,800	44,800	67.7	281.1	34,700	34,700	155
160	64.1	281.7	44,000	44,000	66.7	278.3	33,900	33,900	160
165	63.0	278.8	43,100	43,100	65.6	275.3	33,100	33,100	165
170	61.9	275.8	42,000	42,000	64.5	272.3	32,400	32,400	170
180	59.8	269.4	39,900	39,900	62.4	265.8	31,100	31,100	180
190	57.6	262.5	38,100	38,100	60.1	258.8	29,900	29,900	190
200	55.3	254.9	36,300	36,300	57.8	251.1	28,700	28,700	200
210	52.9	246.7	34,800	34,800	55.4	242.7	27,700	27,700	210
220	50.5	237.8	33,300	33,300	52.9	233.7	26,700	26,700	220
230	48.0	228.0	32,000	32,000	50.3	223.7	25,800	25,800	230
240	45.3	217.4	30,700	30,700	47.6	212.8	25,000	25,000	240
250	42.5	205.6	29,600	29,600	44.8	200.8	24,300	24,300	250
260	39.5	192.6	28,500	28,500	41.7	187.4	23,600	23,600	260
270	36.3	178.0	27,100	27,500	38.4	172.4	23,000	23,000	270
280	32.8	161.4	24,400	26,600	34.7	155.2	22,400	22,400	280
290	28.8	142.0	21,800	25,800	30.6	134.8	21,900	21,900	290
300	24.2	118.5	19,400	25,000					300
310	18.2	87.1	17,000	24,400					310

MLC300 VPC-MAX S-1

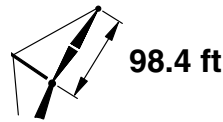
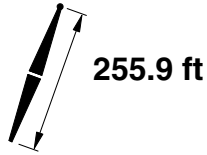
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
55	84.7	338.4	63,400	63,400					55
60	83.8	337.6	62,500	62,500					60
65	83.0	336.7	61,500	61,500					65
70	82.1	335.7	60,700	60,700	84.8	332.6	53,400	53,400	70
75	81.2	334.7	59,800	59,800	83.9	331.5	52,500	52,500	75
80	80.4	333.6	58,900	58,900	83.0	330.4	51,700	51,700	80
85	79.5	332.4	58,000	58,000	82.1	329.2	50,800	50,800	85
90	78.6	331.1	57,100	57,100	81.2	327.9	50,000	50,000	90
95	77.7	329.8	56,300	56,300	80.3	326.6	48,600	48,600	95
100	76.8	328.4	55,400	55,400	79.4	325.1	47,200	47,200	100
105	75.9	326.8	54,500	54,500	78.5	323.6	45,900	45,900	105
110	75.0	325.2	53,500	53,500	77.6	322.0	44,600	44,600	110
115	74.1	323.5	52,500	52,500	76.7	320.3	43,400	43,400	115
120	73.2	321.8	51,600	51,600	75.8	318.5	42,300	42,300	120
125	72.3	319.9	50,700	50,700	74.9	316.6	41,200	41,200	125
130	71.4	317.9	49,800	49,800	73.9	314.6	40,200	40,200	130
135	70.5	315.9	49,000	49,000	73.0	312.5	39,200	39,200	135
140	69.5	313.7	48,100	48,100	72.1	310.3	38,300	38,300	140
145	68.6	311.5	47,400	47,400	71.1	308.0	37,400	37,400	145
150	67.6	309.1	46,600	46,600	70.2	305.7	36,500	36,500	150
155	66.7	306.6	45,800	45,800	69.2	303.2	35,800	35,800	155
160	65.7	304.1	45,100	45,100	68.2	300.6	35,000	35,000	160
165	64.8	301.4	44,400	44,400	67.2	297.9	34,200	34,200	165
170	63.8	298.7	43,600	43,600	66.2	295.1	33,500	33,500	170
180	61.8	292.8	41,800	41,800	64.2	289.1	32,200	32,200	180
190	59.8	286.4	39,900	39,900	62.2	282.7	31,000	31,000	190
200	57.7	279.5	38,100	38,100	60.1	275.7	29,800	29,800	200
210	55.6	272.1	36,500	36,500	57.9	268.1	28,800	28,800	210
220	53.4	264.0	35,000	35,000	55.7	260.0	27,800	27,800	220
230	51.1	255.3	33,600	33,600	53.4	251.1	26,900	26,900	230
240	48.7	245.8	32,300	32,300	51.0	241.5	26,000	26,000	240
250	46.3	235.6	30,800	31,200	48.5	231.0	25,300	25,300	250
260	43.7	224.3	27,700	30,100	45.9	219.5	24,500	24,500	260
270	41.0	212.0	24,900	29,000	43.1	206.9	23,900	23,900	270
280	38.1	198.4	22,200	28,100	40.1	192.9	23,200	23,300	280
290	35.0	183.1	19,600	27,200	36.9	177.2	20,500	22,700	290
300	31.6	165.8	17,300	26,400	33.3	159.2	18,000	22,200	300
310	27.7	145.6	15,000	25,600	29.3	138.0	15,600	21,800	310
320	23.2	121.1	12,800	24,900					320
330	17.3	88.2	10,700	24,400					330

MLC300 VPC-MAX S-1

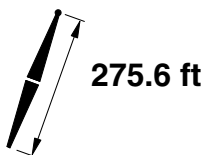
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
60	84.2	357.5	61,800	61,800					60
65	83.4	356.7	60,900	60,900					65
70	82.6	355.8	60,100	60,100					70
75	81.7	354.8	59,300	59,300	84.2	351.6	52,300	52,300	75
80	80.9	353.7	58,600	58,600	83.4	350.5	51,600	51,600	80
85	80.1	352.6	57,800	57,800	82.6	349.4	50,800	50,800	85
90	79.2	351.4	57,000	57,000	81.7	348.2	50,100	50,100	90
95	78.4	350.2	56,200	56,200	80.9	346.9	49,200	49,200	95
100	77.6	348.8	55,400	55,400	80.0	345.5	47,800	47,800	100
105	76.7	347.4	54,700	54,700	79.2	344.1	46,600	46,600	105
110	75.9	345.9	53,800	53,800	78.3	342.5	45,400	45,400	110
115	75.0	344.3	53,000	53,000	77.5	340.9	44,200	44,200	115
120	74.2	342.6	52,100	52,100	76.6	339.2	43,100	43,100	120
125	73.3	340.8	51,200	51,200	75.8	337.5	42,100	42,100	125
130	72.5	339.0	50,400	50,400	74.9	335.6	41,100	41,100	130
135	71.6	337.1	49,600	49,600	74.0	333.7	40,200	40,200	135
140	70.7	335.1	48,800	48,800	73.1	331.6	39,200	39,200	140
145	69.9	333.0	48,000	48,000	72.2	329.5	38,400	38,400	145
150	69.0	330.8	47,300	47,300	71.4	327.3	37,500	37,500	150
155	68.1	328.5	46,600	46,600	70.5	325.0	36,700	36,700	155
160	67.2	326.1	45,800	45,800	69.6	322.6	35,900	35,900	160
165	66.3	323.6	45,200	45,200	68.6	320.1	35,200	35,200	165
170	65.4	321.0	44,500	44,500	67.7	317.5	34,500	34,500	170
180	63.5	315.6	43,200	43,200	65.9	311.9	33,100	33,100	180
190	61.7	309.7	41,400	41,400	64.0	306.0	31,900	31,900	190
200	59.8	303.3	39,600	39,600	62.0	299.5	30,800	30,800	200
210	57.8	296.5	38,000	38,000	60.0	292.6	29,700	29,700	210
220	55.8	289.2	36,500	36,500	58.0	285.2	28,700	28,700	220
230	53.7	281.2	35,100	35,100	55.9	277.1	27,800	27,800	230
240	51.6	272.7	32,300	33,800	53.8	268.5	26,900	26,900	240
250	49.4	263.5	29,000	32,600	51.5	259.1	26,200	26,200	250
260	47.1	253.6	25,900	31,500	49.2	249.0	25,400	25,400	260
270	44.8	242.8	23,000	30,400	46.8	238.0	24,400	24,700	270
280	42.3	231.0	20,300	29,400	44.2	226.0	21,600	24,100	280
290	39.6	218.2	17,800	28,400	41.5	212.8	19,000	23,500	290
300	36.8	203.9	15,500	27,600	38.6	198.2	16,500	23,000	300
310	33.8	188.1	13,300	26,800	35.5	181.8	14,100	22,500	310
320	30.5	170.0	11,200	26,100	32.0	163.0	11,800	22,100	320
330	26.7	149.0	9,200	24,200	28.1	140.9	9,700	21,700	330
340	22.3	123.5	7,200	22,200					340
350	16.5	89.2		20,200					350

MLC300 VPC-MAX S-1

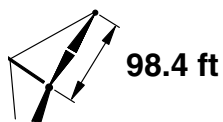
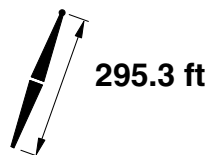
ASME B30.5



	10°				20°						
	ft	°	ft	lb		ft	°	ft		lb	
				34.8 ft	48.0 ft					34.8 ft	48.0 ft
60	84.5	377.4	61,200	61,200						60	
65	83.7	376.6	60,500	60,500						65	
70	82.9	375.7	59,700	59,700						70	
75	82.2	374.8	59,000	59,000	84.5	371.5	52,100	52,100		75	
80	81.4	373.8	58,300	58,300	83.8	370.5	51,400	51,400		80	
85	80.6	372.8	57,600	57,600	83.0	369.5	50,800	50,800		85	
90	79.8	371.6	56,900	56,900	82.2	368.3	50,100	50,100		90	
95	79.0	370.4	56,100	56,100	81.4	367.1	49,400	49,400		95	
100	78.2	369.2	55,500	55,500	80.6	365.8	48,500	48,500		100	
105	77.5	367.8	54,700	54,700	79.8	364.5	47,400	47,400		105	
110	76.7	366.4	54,000	54,000	79.0	363.0	46,200	46,200		110	
115	75.9	364.9	53,300	53,300	78.2	361.5	45,000	45,000		115	
120	75.1	363.3	52,500	52,500	77.4	359.9	44,000	44,000		120	
125	74.2	361.7	51,700	51,700	76.5	358.2	42,900	42,900		125	
130	73.4	359.9	50,900	50,900	75.7	356.5	41,900	41,900		130	
135	72.6	358.1	50,100	50,100	74.9	354.7	41,000	41,000		135	
140	71.8	356.2	49,400	49,400	74.1	352.8	40,100	40,100		140	
145	71.0	354.3	48,700	48,700	73.2	350.8	39,300	39,300		145	
150	70.2	352.2	48,000	48,000	72.4	348.7	38,400	38,400		150	
155	69.3	350.0	47,200	47,200	71.6	346.5	37,600	37,600		155	
160	68.5	347.8	46,600	46,600	70.7	344.3	36,800	36,800		160	
165	67.6	345.5	45,900	45,900	69.9	341.9	36,100	36,100		165	
170	66.8	343.1	45,300	45,300	69.0	339.5	35,400	35,400		170	
180	65.1	338.0	44,000	44,000	67.3	334.3	34,100	34,100		180	
190	63.3	332.5	42,800	42,800	65.5	328.8	32,900	32,900		190	
200	61.5	326.6	41,200	41,200	63.7	322.8	31,700	31,700		200	
210	59.7	320.3	39,500	39,500	61.9	316.4	30,700	30,700		210	
220	57.9	313.5	37,600	38,000	60.0	309.5	29,700	29,700		220	
230	56.0	306.2	33,600	36,600	58.1	302.2	28,700	28,700		230	
240	54.1	298.5	30,000	35,200	56.1	294.3	27,800	27,800		240	
250	52.1	290.1	26,700	34,000	54.1	285.8	27,100	27,100		250	
260	50.0	281.1	23,600	32,800	52.0	276.7	25,300	26,300		260	
270	47.9	271.5	20,700	31,800	49.8	266.9	22,300	25,600		270	
280	45.7	261.0	18,100	30,700	47.6	256.2	19,500	24,900		280	
290	43.4	249.8	15,600	29,800	45.2	244.7	16,900	24,300		290	
300	40.9	237.5	13,200	28,800	42.8	232.2	14,400	23,800		300	
310	38.4	224.1	11,000	26,800	40.1	218.4	12,100	23,200		310	
320	35.6	209.3	8,900	24,600	37.3	203.2	9,800	22,700		320	
330	32.7	192.8	7,000	22,600	34.3	186.2	7,700	22,300		330	
340	29.4	174.1		20,600	30.9	166.7		21,100		340	
350	25.8	152.3		18,700	27.0	143.7		19,100		350	
360	21.4	125.7		16,900						360	

MLC300 VPC-MAX S-1

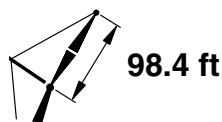
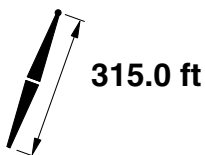
ASME B30.5



	10°				20°				
	ft	°	ft	lb	ft	°	ft	lb	
60	84.8	397.2	60,100	60,100					60
65	84.0	396.5	59,400	59,400					65
70	83.3	395.7	58,800	58,800					70
75	82.6	394.8	58,100	58,100	84.8	391.5	51,700	51,700	75
80	81.8	393.9	57,500	57,500	84.1	390.5	51,000	51,000	80
85	81.1	392.9	56,800	56,800	83.3	389.5	50,400	50,400	85
90	80.3	391.8	56,200	56,200	82.6	388.4	49,900	49,900	90
95	79.6	390.7	55,600	55,600	81.8	387.3	49,200	49,200	95
100	78.8	389.5	54,900	54,900	81.1	386.1	48,600	48,600	100
105	78.1	388.2	54,400	54,400	80.3	384.8	47,800	47,800	105
110	77.3	386.8	53,700	53,700	79.6	383.4	46,700	46,700	110
115	76.6	385.4	53,100	53,100	78.8	382.0	45,600	45,600	115
120	75.8	383.9	52,400	52,400	78.0	380.5	44,500	44,500	120
125	75.1	382.4	51,700	51,700	77.3	378.9	43,600	43,600	125
130	74.3	380.7	51,100	51,100	76.5	377.3	42,600	42,600	130
135	73.5	379.0	50,400	50,400	75.7	375.5	41,700	41,700	135
140	72.8	377.2	49,700	49,700	74.9	373.7	40,800	40,800	140
145	72.0	375.4	49,000	49,000	74.1	371.8	39,900	39,900	145
150	71.2	373.4	48,300	48,300	73.4	369.9	39,100	39,100	150
155	70.4	371.4	47,600	47,600	72.6	367.8	38,300	38,300	155
160	69.6	369.3	47,000	47,000	71.8	365.7	37,600	37,600	160
165	68.8	367.1	46,300	46,300	71.0	363.5	36,800	36,800	165
170	68.0	364.9	45,800	45,800	70.2	361.2	36,200	36,200	170
180	66.4	360.1	44,600	44,600	68.5	356.4	34,900	34,900	180
190	64.8	354.9	43,400	43,400	66.9	351.2	33,600	33,600	190
200	63.1	349.4	42,400	42,400	65.2	345.6	32,500	32,500	200
210	61.4	343.5	40,900	40,900	63.5	339.7	31,400	31,400	210
220	59.7	337.2	36,600	39,300	61.8	333.3	30,500	30,500	220
230	58.0	330.5	32,700	37,800	60.0	326.5	29,500	29,500	230
240	56.2	323.3	29,100	36,500	58.2	319.2	28,700	28,700	240
250	54.3	315.6	25,700	35,200	56.3	311.4	27,700	27,900	250
260	52.5	307.4	22,700	34,000	54.4	303.1	24,500	27,100	260
270	50.5	298.6	19,800	32,900	52.4	294.2	21,500	26,400	270
280	48.5	289.2	17,100	32,000	50.4	284.6	18,700	25,700	280
290	46.5	279.1	14,600	30,900	48.3	274.3	16,100	25,100	290
300	44.3	268.2	12,300	28,500	46.1	263.2	13,600	24,500	300
310	42.1	256.5	10,100	26,200	43.8	251.2	11,300	24,000	310
320	39.7	243.7	8,100	24,000	41.4	238.2	9,100	23,400	320
330	37.2	229.8		21,900	38.8	223.9	7,100	22,700	330
340	34.5	214.4		20,000	36.1	208.1		20,600	340
350	31.7	197.3		18,200	33.1	190.4		18,700	350
360	28.5	177.9		16,400	29.8	170.2		16,800	360
370	24.9	155.3		14,700	26.0	146.4		15,000	370
380	20.6	127.8		13,100					380

MLC300 VPC-MAX S-1

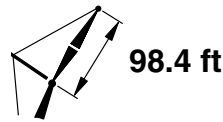
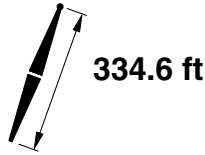
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
65	84.3	416.4	58,500	58,500					65
70	83.6	415.6	57,900	57,900					70
75	82.9	414.8	57,400	57,400					75
80	82.2	413.9	56,800	56,800	84.4	410.5	50,700	50,700	80
85	81.5	412.9	56,200	56,200	83.7	409.5	50,200	50,200	85
90	80.8	411.9	55,700	55,700	82.9	408.5	49,600	49,600	90
95	80.1	410.8	55,200	55,200	82.2	407.4	49,000	49,000	95
100	79.4	409.7	54,600	54,600	81.5	406.2	48,500	48,500	100
105	78.7	408.5	54,100	54,100	80.8	405.0	48,000	48,000	105
110	78.0	407.2	53,500	53,500	80.1	403.7	47,400	47,400	110
115	77.2	405.8	53,000	53,000	79.3	402.4	46,400	46,400	115
120	76.5	404.4	52,400	52,400	78.6	401.0	45,400	45,400	120
125	75.8	403.0	51,800	51,800	77.9	399.5	44,400	44,400	125
130	75.1	401.4	51,200	51,200	77.2	397.9	43,500	43,500	130
135	74.3	399.8	50,700	50,700	76.4	396.3	42,500	42,500	135
140	73.6	398.1	50,000	50,000	75.7	394.6	41,700	41,700	140
145	72.9	396.3	49,400	49,400	74.9	392.8	40,800	40,800	145
150	72.1	394.5	48,700	48,700	74.2	390.9	40,000	40,000	150
155	71.4	392.6	48,100	48,100	73.5	389.0	39,300	39,300	155
160	70.7	390.6	47,500	47,500	72.7	387.0	38,500	38,500	160
165	69.9	388.5	46,900	46,900	71.9	384.9	37,800	37,800	165
170	69.2	386.4	46,300	46,300	71.2	382.8	37,100	37,100	170
180	67.6	381.9	45,200	45,200	69.6	378.2	35,800	35,800	180
190	66.1	377.1	44,100	44,100	68.1	373.3	34,600	34,600	190
200	64.5	371.9	43,000	43,000	66.5	368.1	33,400	33,400	200
210	63.0	366.4	38,800	42,000	64.9	362.5	32,400	32,400	210
220	61.3	360.5	34,400	40,800	63.3	356.6	31,400	31,400	220
230	59.7	354.2	30,500	39,300	61.6	350.2	30,400	30,400	230
240	58.0	347.5	26,800	38,000	60.0	343.4	29,200	29,500	240
250	56.3	340.4	23,500	36,700	58.2	336.2	25,700	28,700	250
260	54.6	332.8	20,400	35,500	56.5	328.5	22,500	27,900	260
270	52.8	324.7	17,500	34,300	54.7	320.3	19,400	27,200	270
280	51.0	316.1	14,900	32,000	52.8	311.6	16,600	26,600	280
290	49.1	306.9	12,400	29,300	50.9	302.2	14,000	25,900	290
300	47.2	297.0	10,000	26,800	48.9	292.2	11,600	25,300	300
310	45.2	286.5	7,900	24,500	46.9	281.5	9,300	24,700	310
320	43.1	275.2		22,300	44.7	270.0	7,100	23,300	320
330	40.9	263.0		20,300	42.5	257.5		21,200	330
340	38.6	249.7		18,400	40.2	244.0		19,100	340
350	36.1	235.3		16,500	37.7	229.1		17,200	350
360	33.5	219.4		14,800	35.0	212.8		15,400	360
370	30.7	201.7		13,100	32.1	194.5		13,600	370
380	27.6	181.6		11,500	28.8	173.5		11,900	380
390	24.1	158.3		10,000					390
400	19.9	129.8		8,500					400

MLC300 VPC-MAX S-1

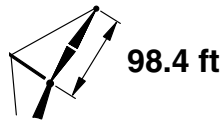
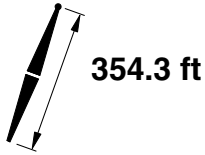
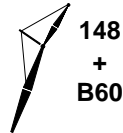
ASME B30.5



	10°				20°				
	ft	°	ft	lb	ft	°	ft	lb	
65	84.6	436.2	57,000	57,000					65
70	83.9	435.5	56,500	56,500					70
75	83.3	434.7	56,000	56,000					75
80	82.6	433.9	55,500	55,500	84.6	430.4	49,900	49,900	80
85	81.9	433.0	55,000	55,000	83.9	429.5	49,500	49,500	85
90	81.2	432.0	54,500	54,500	83.3	428.5	49,000	49,000	90
95	80.6	431.0	54,000	54,000	82.6	427.5	48,500	48,500	95
100	79.9	429.9	53,600	53,600	81.9	426.4	48,000	48,000	100
105	79.2	428.7	53,100	53,100	81.2	425.2	47,500	47,500	105
110	78.5	427.5	52,500	52,500	80.5	424.0	47,000	47,000	110
115	77.8	426.2	52,100	52,100	79.8	422.7	46,500	46,500	115
120	77.2	424.9	51,600	51,600	79.2	421.3	45,500	45,500	120
125	76.5	423.5	51,100	51,100	78.5	419.9	44,600	44,600	125
130	75.8	422.0	50,600	50,600	77.8	418.4	43,700	43,700	130
135	75.1	420.4	50,100	50,100	77.1	416.9	42,800	42,800	135
140	74.4	418.8	49,600	49,600	76.4	415.3	41,900	41,900	140
145	73.7	417.2	49,100	49,100	75.7	413.6	41,200	41,200	145
150	73.0	415.4	48,500	48,500	75.0	411.8	40,400	40,400	150
155	72.3	413.6	47,900	47,900	74.3	410.0	39,700	39,700	155
160	71.6	411.7	47,300	47,300	73.5	408.1	38,900	38,900	160
165	70.9	409.8	46,800	46,800	72.8	406.1	38,300	38,300	165
170	70.2	407.8	46,300	46,300	72.1	404.1	37,600	37,600	170
180	68.7	403.5	44,200	44,200	70.7	399.8	36,300	36,300	180
190	67.3	398.9	42,300	42,300	69.2	395.2	35,100	35,100	190
200	65.8	394.0	40,600	40,600	67.7	390.2	34,000	34,000	200
210	64.3	388.8	37,600	38,900	66.2	385.0	32,900	32,900	210
220	62.8	383.3	33,300	37,400	64.7	379.4	32,000	32,000	220
230	61.3	377.4	29,300	35,900	63.1	373.4	31,000	31,000	230
240	59.7	371.1	25,700	34,600	61.5	367.1	28,200	30,100	240
250	58.1	364.5	22,400	33,400	59.9	360.4	24,700	29,300	250
260	56.5	357.4	19,300	32,200	58.3	353.2	21,500	28,600	260
270	54.8	349.9	16,400	31,100	56.6	345.6	18,500	27,900	270
280	53.1	341.9	13,800	30,200	54.9	337.5	15,700	27,200	280
290	51.4	333.5	11,300	28,500	53.1	329.0	13,000	26,500	290
300	49.6	324.5	9,000	26,000	51.3	319.8	10,600	25,900	300
310	47.8	314.9	6,800	23,700	49.5	310.1	8,300	24,900	310
320	45.9	304.6		21,600	47.6	299.7		22,600	320
330	43.9	293.7		19,500	45.6	288.5		20,500	330
340	41.9	281.9		17,600	43.5	276.5		18,500	340
350	39.8	269.2		15,800	41.3	263.6		16,600	350
360	37.5	255.5		14,000	39.0	249.6		14,800	360
370	35.1	240.6		12,400	36.6	234.2		13,000	370
380	32.6	224.2		10,800	33.9	217.3		11,400	380
390	29.8	205.9		9,300	31.1	198.4		9,800	390
400	26.8	185.2		7,800	27.9	176.7		8,300	400

MLC300 VPC-MAX S-1

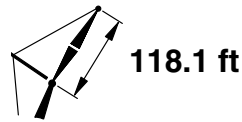
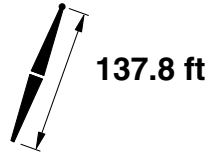
ASME B30.5



	10°				20°					
	ft	°	ft	lb		ft	°	ft		lb
				34.8 ft	48.0 ft					
65	84.8	456.1	55,900	55,900					65	
70	84.2	455.4	55,400	55,400					70	
75	83.5	454.6	55,000	55,000					75	
80	82.9	453.8	54,500	54,500	84.9	450.3	49,200	49,200	80	
85	82.3	453.0	54,100	54,100	84.2	449.5	48,800	48,800	85	
90	81.6	452.0	53,600	53,600	83.6	448.5	48,500	48,500	90	
95	81.0	451.0	53,200	53,200	82.9	447.5	48,100	48,100	95	
100	80.3	450.0	52,800	52,800	82.3	446.5	47,600	47,600	100	
105	79.7	448.9	52,400	52,400	81.6	445.4	47,200	47,200	105	
110	79.0	447.7	51,900	51,900	81.0	444.2	46,700	46,700	110	
115	78.4	446.5	51,500	51,500	80.3	443.0	46,300	46,300	115	
120	77.7	445.2	51,000	51,000	79.6	441.7	45,900	45,900	120	
125	77.1	443.9	50,600	50,600	79.0	440.3	45,100	45,100	125	
130	76.4	442.5	50,200	50,200	78.3	438.9	44,200	44,200	130	
135	75.8	441.0	49,700	49,700	77.7	437.4	43,300	43,300	135	
140	75.1	439.5	49,300	49,300	77.0	435.9	42,500	42,500	140	
145	74.4	437.9	48,900	48,900	76.3	434.3	41,800	41,800	145	
150	73.8	436.2	48,400	48,400	75.7	432.6	41,000	41,000	150	
155	73.1	434.5	47,900	47,900	75.0	430.9	40,200	40,200	155	
160	72.4	432.7	47,400	47,400	74.3	429.1	39,500	39,500	160	
165	71.8	430.9	46,400	46,400	73.6	427.2	38,800	38,800	165	
170	71.1	429.0	45,300	45,300	72.9	425.3	38,100	38,100	170	
180	69.7	424.9	43,200	43,200	71.6	421.2	36,900	36,900	180	
190	68.3	420.6	41,200	41,200	70.2	416.8	35,700	35,700	190	
200	66.9	416.0	39,300	39,300	68.8	412.1	34,600	34,600	200	
210	65.5	411.0	35,400	37,600	67.3	407.2	33,500	33,500	210	
220	64.1	405.8	31,100	36,000	65.9	401.9	32,600	32,600	220	
230	62.7	400.2	27,100	34,400	64.4	396.3	30,000	31,600	230	
240	61.2	394.3	23,500	33,100	62.9	390.3	26,200	30,700	240	
250	59.7	388.1	20,200	31,700	61.4	384.0	22,700	29,600	250	
260	58.2	381.5	17,100	30,500	59.9	377.3	19,400	28,600	260	
270	56.6	374.5	14,200	29,400	58.3	370.2	16,400	27,500	270	
280	55.1	367.0	11,500	28,400	56.8	362.7	13,600	26,600	280	
290	53.4	359.2	9,000	26,900	55.1	354.7	11,000	25,700	290	
300	51.8	350.8	6,700	24,400	53.5	346.3	8,500	24,900	300	
310	50.1	342.0		22,100	51.7	337.3		23,400	310	
320	48.4	332.6		19,900	50.0	327.8		21,100	320	
330	46.6	322.6		17,900	48.2	317.7		19,000	330	
340	44.7	312.0		16,000	46.3	306.8		17,000	340	
350	42.8	300.6		14,200	44.3	295.3		15,100	350	
360	40.8	288.4		12,400	42.3	282.9		13,300	360	
370	38.7	275.3		10,800	40.2	269.5		11,600	370	
380	36.5	261.2		9,200	37.9	255.0		9,900	380	
390	34.2	245.7		7,400	35.5	239.1		8,100	390	

MLC300 VPC-MAX S-1

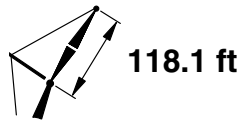
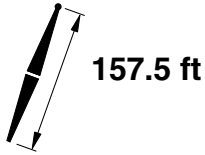
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
65	81.9	256.2	48,400	48,400					65
70	80.8	254.9	47,000	47,000					70
75	79.6	253.6	45,700	45,700					75
80	78.5	252.1	44,400	44,400					80
85	77.3	250.5	43,200	43,200					85
90	76.1	248.8	42,000	42,000	82.6	249.0	38,900	38,900	90
95	74.9	247.0	40,700	40,700	81.4	247.4	37,800	37,800	95
100	73.7	245.1	39,600	39,600	80.2	245.7	36,900	36,900	100
105	72.5	243.0	38,500	38,500	79.0	243.8	35,900	35,900	105
110	71.3	240.8	37,400	37,400	77.8	241.9	35,000	35,000	110
115	70.1	238.5	36,300	36,300	76.6	239.8	33,800	33,800	115
120	68.8	236.1	35,400	35,400	75.4	237.6	32,600	32,600	120
125	67.6	233.5	34,400	34,400	74.1	235.2	31,500	31,500	125
130	66.3	230.8	33,500	33,500	72.8	232.7	30,400	30,400	130
135	65.0	227.9	32,600	32,600	71.6	230.1	29,500	29,500	135
140	63.7	224.9	31,700	31,700	70.3	227.4	28,600	28,600	140
145	62.4	221.7	30,800	30,800	69.0	224.4	27,700	27,700	145
150	61.0	218.3	30,000	30,000	67.6	221.4	26,800	26,800	150
155	59.6	214.8	29,300	29,300	66.3	218.1	26,000	26,000	155
160	58.3	211.1	28,600	28,600	64.9	214.7	25,200	25,200	160
165	56.8	207.2	27,800	27,800	63.5	211.2	24,600	24,600	165
170	55.4	203.1	27,200	27,200	62.1	207.4	23,800	23,800	170
180	52.4	194.2	25,900	25,900	60.7	203.4	23,200	23,200	180
190	49.3	184.4	24,700	24,700	59.2	199.2	22,600	22,600	190
200	45.9	173.3	23,600	23,600	56.1	190.2	21,500	21,500	200
210	42.3	160.8	22,600	22,600	52.9	180.0	20,500	20,500	210
220	38.4	146.5	21,700	21,700	49.5	168.7	19,500	19,500	220
230	34.1	129.6	20,700	20,700	45.8	155.8	18,700	18,700	230
240	29.0	109.2	19,800	19,800	41.7	140.9	17,900	17,900	240
250	22.5	82.0	19,000	19,000	37.2	123.3	17,300	17,300	250
			19,000	19,000	31.7	101.5	16,700	16,700	250

MLC300 VPC-MAX S-1

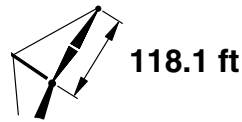
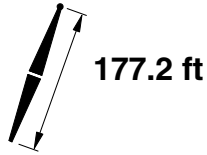
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
55	84.7	278.4	51,200	51,200					55
60	83.6	277.4	50,000	50,000					60
65	82.5	276.3	48,800	48,800					65
70	81.5	275.2	47,600	47,600					70
75	80.4	273.9	46,300	46,300	84.3	270.6	40,200	40,200	75
80	79.3	272.5	45,100	45,100	83.2	269.3	39,300	39,300	80
85	78.2	271.1	43,900	43,900	82.1	267.8	38,300	38,300	85
90	77.1	269.5	42,800	42,800	81.0	266.2	37,400	37,400	90
95	76.0	267.8	41,700	41,700	79.9	264.5	36,500	36,500	95
100	74.9	266.1	40,600	40,600	78.8	262.7	35,600	35,600	100
105	73.8	264.2	39,600	39,600	77.6	260.8	34,700	34,700	105
110	72.7	262.2	38,500	38,500	76.5	258.8	33,600	33,600	110
115	71.6	260.0	37,500	37,500	75.4	256.6	32,600	32,600	115
120	70.5	257.8	36,600	36,600	74.2	254.3	31,500	31,500	120
125	69.3	255.5	35,600	35,600	73.0	252.0	30,600	30,600	125
130	68.1	253.0	34,700	34,700	71.9	249.4	29,600	29,600	130
135	67.0	250.4	33,900	33,900	70.7	246.8	28,700	28,700	135
140	65.8	247.6	33,100	33,100	69.5	244.0	28,000	28,000	140
145	64.6	244.8	32,200	32,200	68.3	241.1	27,100	27,100	145
150	63.4	241.7	31,500	31,500	67.0	238.0	26,400	26,400	150
155	62.1	238.6	30,600	30,600	65.8	234.8	25,700	25,700	155
160	60.9	235.3	29,900	29,900	64.5	231.4	25,000	25,000	160
165	59.6	231.8	29,200	29,200	63.2	227.9	24,300	24,300	165
170	58.3	228.1	28,600	28,600	61.9	224.2	23,800	23,800	170
180	55.7	220.3	27,300	27,300	59.2	216.2	22,600	22,600	180
190	53.0	211.7	26,100	26,100	56.4	207.4	21,600	21,600	190
200	50.1	202.2	25,000	25,000	53.5	197.7	20,600	20,600	200
210	47.1	191.6	23,900	23,900	50.4	186.9	19,800	19,800	210
220	43.9	179.9	23,000	23,000	47.1	174.8	19,000	19,000	220
230	40.4	166.6	22,200	22,200	43.5	161.1	18,300	18,300	230
240	36.7	151.5	21,200	21,200	39.6	145.4	17,600	17,600	240
250	32.4	133.8	20,400	20,400	35.2	126.8	17,100	17,100	250
260	27.5	112.2	19,600	19,600	29.9	103.6	16,600	16,600	260
270	21.2	83.5	18,900	18,900					270

MLC300 VPC-MAX S-1

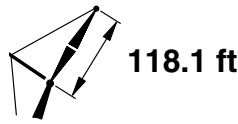
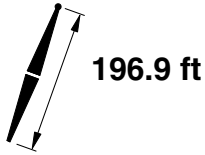
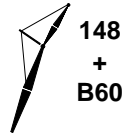
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb	lb	ft	lb	lb		
60	84.0	297.4	50,100	50,100					60
65	83.0	296.4	49,000	49,000					65
70	82.0	295.3	47,900	47,900					70
75	81.0	294.1	46,800	46,800	84.7	290.7	40,400	40,400	75
80	80.0	292.9	45,700	45,700	83.7	289.4	39,500	39,500	80
85	79.0	291.5	44,600	44,600	82.6	288.1	38,700	38,700	85
90	78.0	290.1	43,600	43,600	81.6	286.6	37,800	37,800	90
95	77.0	288.5	42,500	42,500	80.6	285.0	36,900	36,900	95
100	76.0	286.9	41,500	41,500	79.6	283.4	36,100	36,100	100
105	75.0	285.1	40,500	40,500	78.5	281.6	35,300	35,300	105
110	73.9	283.3	39,500	39,500	77.5	279.7	34,500	34,500	110
115	72.9	281.3	38,500	38,500	76.4	277.7	33,500	33,500	115
120	71.8	279.2	37,600	37,600	75.4	275.6	32,500	32,500	120
125	70.8	277.1	36,700	36,700	74.3	273.4	31,600	31,600	125
130	69.7	274.8	35,900	35,900	73.2	271.1	30,700	30,700	130
135	68.6	272.4	35,000	35,000	72.1	268.7	29,800	29,800	135
140	67.6	269.9	34,300	34,300	71.0	266.2	29,000	29,000	140
145	66.5	267.3	33,500	33,500	69.9	263.5	28,200	28,200	145
150	65.4	264.5	32,700	32,700	68.8	260.7	27,400	27,400	150
155	64.2	261.6	31,900	31,900	67.6	257.8	26,700	26,700	155
160	63.1	258.6	31,200	31,200	66.5	254.7	26,000	26,000	160
165	62.0	255.5	30,500	30,500	65.3	251.5	25,400	25,400	165
170	60.8	252.2	29,800	29,800	64.1	248.2	24,800	24,800	170
180	58.4	245.1	28,600	28,600	61.7	241.0	23,700	23,700	180
190	56.0	237.4	27,300	27,300	59.2	233.2	22,600	22,600	190
200	53.4	229.0	26,200	26,200	56.7	224.6	21,600	21,600	200
210	50.8	219.8	25,200	25,200	54.0	215.2	20,800	20,800	210
220	48.1	209.7	24,300	24,300	51.1	204.9	19,900	19,900	220
230	45.1	198.6	23,300	23,300	48.2	193.4	19,200	19,200	230
240	42.1	186.1	22,500	22,500	45.0	180.6	18,500	18,500	240
250	38.7	172.2	21,700	21,700	41.5	166.2	17,900	17,900	250
260	35.1	156.3	20,900	20,900	37.7	149.6	17,400	17,400	260
270	31.0	137.7	20,100	20,100	33.4	130.0	16,900	16,900	270
280	26.2	115.0	19,400	19,400	28.2	105.6	16,500	16,500	280
290	20.0	84.8	18,800	18,800					290

MLC300 VPC-MAX S-1

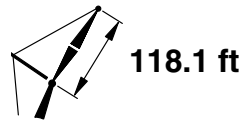
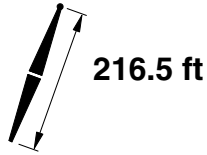
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
60	84.4	317.3	50,100	50,100					60
65	83.5	316.4	49,100	49,100					65
70	82.6	315.4	48,100	48,100					70
75	81.6	314.3	47,100	47,100					75
80	80.7	313.1	46,100	46,100	84.1	309.6	39,800	39,800	80
85	79.7	311.8	45,100	45,100	83.1	308.3	38,900	38,900	85
90	78.8	310.5	44,100	44,100	82.2	306.9	38,100	38,100	90
95	77.9	309.0	43,100	43,100	81.2	305.4	37,300	37,300	95
100	76.9	307.5	42,100	42,100	80.2	303.9	36,600	36,600	100
105	76.0	305.9	41,200	41,200	79.3	302.2	35,800	35,800	105
110	75.0	304.2	40,300	40,300	78.3	300.5	35,100	35,100	110
115	74.0	302.3	39,400	39,400	77.3	298.7	34,400	34,400	115
120	73.0	300.4	38,500	38,500	76.3	296.7	33,400	33,400	120
125	72.1	298.4	37,700	37,700	75.3	294.7	32,500	32,500	125
130	71.1	296.3	36,800	36,800	74.3	292.5	31,600	31,600	130
135	70.1	294.1	36,000	36,000	73.3	290.3	30,700	30,700	135
140	69.1	291.8	35,300	35,300	72.3	287.9	29,900	29,900	140
145	68.1	289.3	34,600	34,600	71.3	285.5	29,100	29,100	145
150	67.1	286.8	33,800	33,800	70.3	282.9	28,400	28,400	150
155	66.0	284.2	33,000	33,000	69.2	280.2	27,700	27,700	155
160	65.0	281.4	32,400	32,400	68.2	277.4	27,100	27,100	160
165	63.9	278.5	31,700	31,700	67.1	274.5	26,400	26,400	165
170	62.9	275.5	31,000	31,000	66.0	271.4	25,700	25,700	170
180	60.7	269.1	29,700	29,700	63.8	264.9	24,600	24,600	180
190	58.5	262.1	28,600	28,600	61.6	257.8	23,600	23,600	190
200	56.2	254.6	27,400	27,400	59.3	250.1	22,600	22,600	200
210	53.9	246.3	26,400	26,400	56.9	241.8	21,700	21,700	210
220	51.4	237.4	25,400	25,400	54.4	232.6	20,900	20,900	220
230	48.9	227.6	24,500	24,500	51.8	222.7	20,100	20,100	230
240	46.2	216.9	23,700	23,700	49.0	211.7	19,400	19,400	240
250	43.4	205.2	22,800	22,800	46.2	199.6	18,700	18,700	250
260	40.4	192.1	22,100	22,100	43.1	186.2	18,100	18,100	260
270	37.2	177.5	21,400	21,400	39.7	171.0	17,600	17,600	270
280	33.7	160.8	20,600	20,600	36.0	153.6	17,200	17,200	280
290	29.7	141.4	19,900	19,900	31.8	133.0	16,800	16,800	290
300	25.0	117.7	19,300	19,300					300
310	19.0	86.0	18,700	18,700					310

MLC300 VPC-MAX S-1

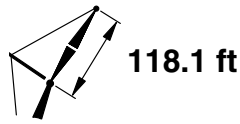
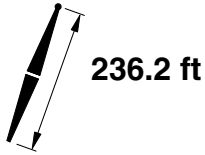
ASME B30.5



	10°				20°				
	ft	°	ft	lb	ft	°	ft	lb	
60	84.7	337.2	50,000	50,000					60
65	83.9	336.4	49,100	49,100					65
70	83.0	335.4	48,200	48,200					70
75	82.1	334.4	47,300	47,300					75
80	81.2	333.3	46,300	46,300	84.4	329.6	39,800	39,800	80
85	80.4	332.1	45,500	45,500	83.5	328.4	39,100	39,100	85
90	79.5	330.8	44,500	44,500	82.6	327.1	38,300	38,300	90
95	78.6	329.5	43,600	43,600	81.8	325.8	37,600	37,600	95
100	77.7	328.0	42,700	42,700	80.9	324.3	36,900	36,900	100
105	76.8	326.5	41,800	41,800	79.9	322.8	36,200	36,200	105
110	75.9	324.9	41,000	41,000	79.0	321.1	35,500	35,500	110
115	75.0	323.2	40,100	40,100	78.1	319.4	34,800	34,800	115
120	74.1	321.4	39,400	39,400	77.2	317.6	34,200	34,200	120
125	73.2	319.5	38,500	38,500	76.3	315.7	33,300	33,300	125
130	72.3	317.6	37,700	37,700	75.3	313.7	32,400	32,400	130
135	71.3	315.5	36,900	36,900	74.4	311.6	31,500	31,500	135
140	70.4	313.4	36,100	36,100	73.5	309.4	30,700	30,700	140
145	69.5	311.1	35,400	35,400	72.5	307.2	30,000	30,000	145
150	68.5	308.8	34,700	34,700	71.6	304.8	29,300	29,300	150
155	67.6	306.3	34,000	34,000	70.6	302.3	28,600	28,600	155
160	66.6	303.7	33,400	33,400	69.6	299.7	27,900	27,900	160
165	65.6	301.1	32,700	32,700	68.6	297.0	27,300	27,300	165
170	64.7	298.3	32,100	32,100	67.6	294.2	26,600	26,600	170
180	62.7	292.4	30,800	30,800	65.6	288.2	25,500	25,500	180
190	60.6	286.0	29,700	29,700	63.6	281.7	24,500	24,500	190
200	58.6	279.1	28,500	28,500	61.4	274.7	23,500	23,500	200
210	56.4	271.7	27,500	27,500	59.3	267.1	22,600	22,600	210
220	54.2	263.6	26,500	26,500	57.0	258.9	21,700	21,700	220
230	52.0	254.9	25,600	25,600	54.7	250.0	21,000	21,000	230
240	49.6	245.4	24,700	24,700	52.3	240.4	20,300	20,300	240
250	47.1	235.1	23,900	23,900	49.8	229.8	19,600	19,600	250
260	44.6	223.9	23,200	23,200	47.2	218.3	18,900	18,900	260
270	41.8	211.5	22,500	22,500	44.4	205.6	18,400	18,400	270
280	38.9	197.8	21,800	21,800	41.4	191.5	17,800	17,800	280
290	35.8	182.5	21,000	21,000	38.1	175.6	17,400	17,400	290
300	32.4	165.2	20,300	20,300	34.5	157.4	17,000	17,000	300
310	28.5	144.9	19,100	19,700	30.4	135.9	16,600	16,600	310
320	23.9	120.1	16,900	19,100					320
330	18.0	86.9	14,800	18,700					330

MLC300 VPC-MAX S-1

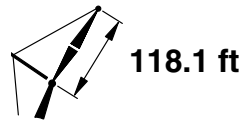
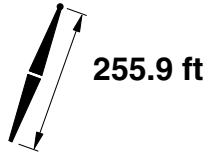
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
65	84.2	356.3	49,000	49,000					65
70	83.4	355.4	48,100	48,100					70
75	82.6	354.4	47,300	47,300					75
80	81.7	353.4	46,500	46,500	84.8	349.6	39,900	39,900	80
85	80.9	352.3	45,600	45,600	83.9	348.5	39,200	39,200	85
90	80.1	351.1	44,800	44,800	83.1	347.3	38,500	38,500	90
95	79.2	349.8	43,900	43,900	82.2	346.0	37,800	37,800	95
100	78.4	348.5	43,100	43,100	81.4	344.6	37,200	37,200	100
105	77.6	347.0	42,300	42,300	80.5	343.2	36,500	36,500	105
110	76.7	345.5	41,500	41,500	79.7	341.7	35,900	35,900	110
115	75.9	343.9	40,700	40,700	78.8	340.0	35,200	35,200	115
120	75.0	342.2	40,000	40,000	78.0	338.3	34,600	34,600	120
125	74.2	340.5	39,200	39,200	77.1	336.6	34,000	34,000	125
130	73.3	338.6	38,400	38,400	76.2	334.7	33,200	33,200	130
135	72.4	336.7	37,600	37,600	75.3	332.8	32,400	32,400	135
140	71.6	334.7	36,900	36,900	74.5	330.7	31,600	31,600	140
145	70.7	332.6	36,300	36,300	73.6	328.6	30,800	30,800	145
150	69.8	330.4	35,600	35,600	72.7	326.4	30,100	30,100	150
155	68.9	328.1	34,900	34,900	71.8	324.0	29,400	29,400	155
160	68.0	325.7	34,200	34,200	70.9	321.6	28,700	28,700	160
165	67.1	323.2	33,600	33,600	70.0	319.1	28,100	28,100	165
170	66.2	320.7	33,000	33,000	69.0	316.5	27,500	27,500	170
180	64.4	315.2	31,800	31,800	67.2	310.9	26,300	26,300	180
190	62.5	309.3	30,600	30,600	65.3	305.0	25,300	25,300	190
200	60.6	302.9	29,600	29,600	63.3	298.5	24,400	24,400	200
210	58.6	296.1	28,500	28,500	61.3	291.6	23,400	23,400	210
220	56.6	288.7	27,500	27,500	59.3	284.1	22,600	22,600	220
230	54.5	280.8	26,600	26,600	57.2	276.0	21,800	21,800	230
240	52.4	272.3	25,700	25,700	55.0	267.3	21,100	21,100	240
250	50.2	263.1	24,900	24,900	52.8	257.9	20,400	20,400	250
260	47.9	253.1	24,200	24,200	50.4	247.8	19,700	19,700	260
270	45.6	242.3	23,400	23,400	48.0	236.7	19,200	19,200	270
280	43.1	230.5	22,700	22,700	45.4	224.6	18,600	18,600	280
290	40.4	217.6	21,600	22,100	42.7	211.3	18,100	18,100	290
300	37.6	203.3	19,200	21,400	39.8	196.6	17,700	17,700	300
310	34.5	187.4	17,000	20,700	36.7	180.0	17,200	17,200	310
320	31.2	169.3	14,800	20,200	33.1	161.1	15,600	16,900	320
330	27.4	148.2	12,800	19,500	29.1	138.7	13,400	16,500	330
340	23.0	122.4	10,800	19,100					340

MLC300 VPC-MAX S-1

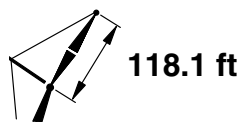
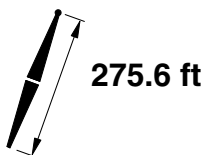
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
65	84.5	376.2	48,500	48,500					65
70	83.7	375.4	47,700	47,700					70
75	83.0	374.5	47,000	47,000					75
80	82.2	373.5	46,300	46,300					80
85	81.4	372.4	45,500	45,500	84.2	368.5	39,100	39,100	85
90	80.6	371.3	44,700	44,700	83.5	367.4	38,500	38,500	90
95	79.8	370.1	44,000	44,000	82.7	366.2	37,900	37,900	95
100	79.0	368.8	43,200	43,200	81.9	364.9	37,200	37,200	100
105	78.2	367.5	42,500	42,500	81.1	363.5	36,600	36,600	105
110	77.4	366.0	41,800	41,800	80.2	362.1	36,100	36,100	110
115	76.6	364.5	41,000	41,000	79.4	360.6	35,400	35,400	115
120	75.8	362.9	40,300	40,300	78.6	359.0	34,900	34,900	120
125	75.0	361.3	39,500	39,500	77.8	357.3	34,300	34,300	125
130	74.2	359.6	38,900	38,900	77.0	355.5	33,700	33,700	130
135	73.4	357.7	38,200	38,200	76.2	353.7	33,000	33,000	135
140	72.6	355.9	37,600	37,600	75.3	351.8	32,200	32,200	140
145	71.8	353.9	36,800	36,800	74.5	349.8	31,500	31,500	145
150	70.9	351.8	36,200	36,200	73.7	347.7	30,800	30,800	150
155	70.1	349.7	35,500	35,500	72.8	345.5	30,100	30,100	155
160	69.3	347.4	34,900	34,900	72.0	343.3	29,400	29,400	160
165	68.4	345.1	34,300	34,300	71.1	340.9	28,800	28,800	165
170	67.6	342.7	33,700	33,700	70.3	338.5	28,200	28,200	170
180	65.9	337.6	32,600	32,600	68.5	333.3	27,100	27,100	180
190	64.1	332.1	31,400	31,400	66.7	327.7	26,000	26,000	190
200	62.3	326.2	30,300	30,300	64.9	321.8	25,000	25,000	200
210	60.5	319.9	29,300	29,300	63.1	315.3	24,100	24,100	210
220	58.7	313.1	28,400	28,400	61.2	308.4	23,300	23,300	220
230	56.8	305.8	27,500	27,500	59.3	301.0	22,500	22,500	230
240	54.8	298.0	26,600	26,600	57.3	293.1	21,800	21,800	240
250	52.8	289.6	25,800	25,800	55.3	284.6	21,100	21,100	250
260	50.8	280.6	25,100	25,100	53.2	275.4	20,400	20,400	260
270	48.6	271.0	24,300	24,300	51.0	265.6	19,900	19,900	270
280	46.4	260.5	22,300	23,600	48.7	254.9	19,300	19,300	280
290	44.1	249.2	19,700	23,000	46.4	243.3	18,800	18,800	290
300	41.7	236.9	17,400	22,300	43.9	230.7	18,200	18,200	300
310	39.1	223.5	15,200	21,800	41.2	216.9	16,300	17,800	310
320	36.4	208.6	13,100	21,100	38.4	201.5	14,100	17,400	320
330	33.4	192.1	11,100	20,500	35.3	184.3	11,900	17,000	330
340	30.1	173.3	9,200	19,900	31.9	164.6	9,900	16,700	340
350	26.4	151.4	7,400	19,500	28.0	141.2	7,900	16,500	350
360	22.1	124.6		19,000					360

MLC300 VPC-MAX S-1

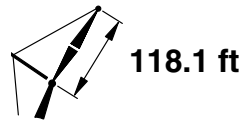
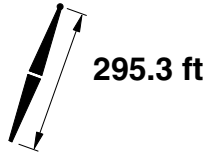
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
65	84.8	396.1	48,100	48,100					65
70	84.1	395.3	47,400	47,400					70
75	83.3	394.4	46,800	46,800					75
80	82.6	393.5	46,100	46,100					80
85	81.8	392.5	45,400	45,400	84.5	388.5	39,100	39,100	85
90	81.1	391.4	44,800	44,800	83.8	387.5	38,500	38,500	90
95	80.4	390.3	44,100	44,100	83.0	386.3	37,900	37,900	95
100	79.6	389.1	43,400	43,400	82.3	385.1	37,400	37,400	100
105	78.9	387.8	42,700	42,700	81.5	383.8	36,800	36,800	105
110	78.1	386.5	42,000	42,000	80.8	382.4	36,200	36,200	110
115	77.3	385.0	41,300	41,300	80.0	381.0	35,600	35,600	115
120	76.6	383.5	40,600	40,600	79.2	379.5	35,100	35,100	120
125	75.8	382.0	40,000	40,000	78.5	377.9	34,600	34,600	125
130	75.1	380.3	39,300	39,300	77.7	376.3	34,100	34,100	130
135	74.3	378.6	38,600	38,600	76.9	374.5	33,600	33,600	135
140	73.5	376.8	38,000	38,000	76.1	372.7	32,900	32,900	140
145	72.7	375.0	37,400	37,400	75.3	370.8	32,100	32,100	145
150	72.0	373.0	36,800	36,800	74.5	368.9	31,400	31,400	150
155	71.2	371.0	36,200	36,200	73.8	366.8	30,800	30,800	155
160	70.4	368.9	35,500	35,500	73.0	364.7	30,200	30,200	160
165	69.6	366.7	35,000	35,000	72.1	362.5	29,500	29,500	165
170	68.8	364.5	34,400	34,400	71.3	360.2	28,900	28,900	170
180	67.2	359.7	33,300	33,300	69.7	355.3	27,800	27,800	180
190	65.5	354.5	32,200	32,200	68.0	350.1	26,800	26,800	190
200	63.9	349.0	31,200	31,200	66.4	344.5	25,800	25,800	200
210	62.2	343.1	30,200	30,200	64.7	338.6	24,800	24,800	210
220	60.5	336.8	29,200	29,200	62.9	332.2	24,100	24,100	220
230	58.7	330.1	28,300	28,300	61.1	325.3	23,200	23,200	230
240	56.9	322.9	27,500	27,500	59.3	318.0	22,500	22,500	240
250	55.1	315.2	26,600	26,600	57.4	310.2	21,800	21,800	250
260	53.2	306.9	25,600	25,900	55.5	301.8	21,100	21,100	260
270	51.2	298.1	22,700	25,100	53.5	292.9	20,500	20,500	270
280	49.2	288.7	20,000	24,500	51.5	283.3	20,000	20,000	280
290	47.2	278.6	17,500	23,800	49.4	272.9	19,200	19,400	290
300	45.0	267.7	15,100	23,200	47.2	261.8	16,700	18,900	300
310	42.8	255.9	12,900	22,600	44.9	249.7	14,300	18,500	310
320	40.4	243.1	10,800	22,100	42.5	236.6	12,100	18,000	320
330	37.9	229.1	8,900	21,400	39.9	222.2	10,000	17,600	330
340	35.2	213.7	7,000	20,800	37.1	206.2	8,000	17,300	340
350	32.3	196.5		20,200	34.1	188.4		16,900	350
360	29.1	177.1		18,400	30.8	167.9		16,700	360
370	25.5	154.4		16,700	26.9	143.7		16,400	370
380	21.2	126.6		15,100					380

MLC300 VPC-MAX S-1

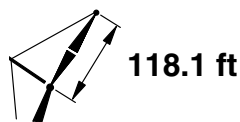
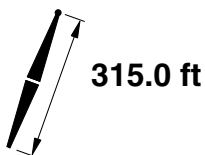
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
70	84.4	415.2	46,800	46,800					70
75	83.6	414.4	46,200	46,200					75
80	82.9	413.5	45,600	45,600					80
85	82.2	412.5	45,000	45,000	84.8	408.5	38,800	38,800	85
90	81.5	411.5	44,300	44,300	84.1	407.5	38,300	38,300	90
95	80.8	410.4	43,700	43,700	83.4	406.4	37,800	37,800	95
100	80.1	409.3	43,100	43,100	82.7	405.2	37,300	37,300	100
105	79.4	408.1	42,500	42,500	81.9	404.0	36,700	36,700	105
110	78.7	406.8	41,900	41,900	81.2	402.7	36,200	36,200	110
115	78.0	405.5	41,300	41,300	80.5	401.4	35,700	35,700	115
120	77.2	404.0	40,600	40,600	79.8	399.9	35,200	35,200	120
125	76.5	402.6	40,100	40,100	79.0	398.4	34,700	34,700	125
130	75.8	401.0	39,400	39,400	78.3	396.9	34,200	34,200	130
135	75.1	399.4	38,800	38,800	77.6	395.2	33,700	33,700	135
140	74.3	397.7	38,200	38,200	76.8	393.5	33,200	33,200	140
145	73.6	395.9	37,700	37,700	76.1	391.7	32,600	32,600	145
150	72.9	394.1	37,000	37,000	75.3	389.9	32,000	32,000	150
155	72.1	392.2	36,500	36,500	74.6	387.9	31,300	31,300	155
160	71.4	390.2	35,900	35,900	73.8	385.9	30,600	30,600	160
165	70.6	388.1	35,400	35,400	73.1	383.8	30,000	30,000	165
170	69.9	386.0	34,800	34,800	72.3	381.7	29,400	29,400	170
180	68.3	381.5	33,800	33,800	70.8	377.1	28,400	28,400	180
190	66.8	376.6	32,700	32,700	69.2	372.2	27,300	27,300	190
200	65.2	371.5	31,800	31,800	67.6	367.0	26,400	26,400	200
210	63.7	365.9	30,800	30,800	66.0	361.4	25,500	25,500	210
220	62.0	360.0	29,800	29,800	64.4	355.4	24,600	24,600	220
230	60.4	353.7	29,000	29,000	62.7	349.0	23,900	23,900	230
240	58.7	347.0	28,200	28,200	61.0	342.2	23,100	23,100	240
250	57.0	339.9	27,400	27,400	59.3	335.0	22,400	22,400	250
260	55.3	332.3	24,600	26,600	57.5	327.3	21,800	21,800	260
270	53.5	324.2	21,700	25,900	55.7	319.0	21,100	21,100	270
280	51.7	315.6	19,000	25,200	53.9	310.3	20,500	20,500	280
290	49.8	306.4	16,500	24,500	51.9	300.9	18,400	20,100	290
300	47.8	296.5	14,200	23,900	50.0	290.8	15,900	19,500	300
310	45.8	285.9	12,000	23,400	47.9	280.0	13,500	19,100	310
320	43.7	274.6	9,900	22,800	45.8	268.4	11,300	18,600	320
330	41.5	262.3	7,900	22,300	43.5	255.9	9,200	18,200	330
340	39.2	249.1		21,400	41.1	242.3	7,200	17,800	340
350	36.8	234.6		19,600	38.6	227.3		17,400	350
360	34.2	218.6		17,800	35.9	210.8		17,100	360
370	31.4	200.9		16,100	33.0	192.3		16,700	370
380	28.2	180.7		14,500	29.7	171.1		15,000	380
390	24.7	157.2		13,000					390
400	20.5	128.5		11,500					400

MLC300 VPC-MAX S-1

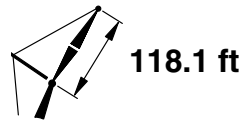
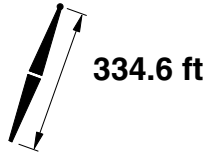
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
70	84.6	435.1	46,200	46,200					70
75	83.9	434.3	45,700	45,700					75
80	83.3	433.5	45,200	45,200					80
85	82.6	432.6	44,700	44,700					85
90	81.9	431.6	44,100	44,100	84.4	427.5	38,100	38,100	90
95	81.2	430.6	43,600	43,600	83.7	426.4	37,600	37,600	95
100	80.6	429.5	43,100	43,100	83.0	425.3	37,200	37,200	100
105	79.9	428.3	42,500	42,500	82.3	424.2	36,700	36,700	105
110	79.2	427.1	42,000	42,000	81.6	422.9	36,200	36,200	110
115	78.5	425.8	41,400	41,400	80.9	421.6	35,700	35,700	115
120	77.8	424.5	40,700	40,700	80.2	420.3	35,300	35,300	120
125	77.2	423.1	40,200	40,200	79.6	418.9	34,800	34,800	125
130	76.5	421.6	39,600	39,600	78.9	417.4	34,300	34,300	130
135	75.8	420.0	39,100	39,100	78.2	415.8	33,900	33,900	135
140	75.1	418.4	38,600	38,600	77.5	414.2	33,500	33,500	140
145	74.4	416.8	38,000	38,000	76.8	412.5	33,100	33,100	145
150	73.7	415.0	37,500	37,500	76.0	410.7	32,600	32,600	150
155	73.0	413.2	36,900	36,900	75.3	408.9	31,900	31,900	155
160	72.3	411.3	36,400	36,400	74.6	407.0	31,300	31,300	160
165	71.6	409.4	35,800	35,800	73.9	405.0	30,700	30,700	165
170	70.8	407.3	35,400	35,400	73.2	403.0	30,200	30,200	170
180	69.4	403.1	34,300	34,300	71.7	398.7	29,100	29,100	180
190	67.9	398.5	33,300	33,300	70.2	394.0	28,000	28,000	190
200	66.5	393.6	32,400	32,400	68.8	389.1	27,100	27,100	200
210	65.0	388.4	31,500	31,500	67.2	383.8	26,200	26,200	210
220	63.5	382.8	30,600	30,600	65.7	378.2	25,400	25,400	220
230	61.9	376.9	29,800	29,800	64.2	372.2	24,600	24,600	230
240	60.4	370.7	28,900	28,900	62.6	365.9	23,800	23,800	240
250	58.8	364.0	25,500	28,200	61.0	359.1	23,100	23,100	250
260	57.2	356.9	22,400	27,400	59.3	351.9	22,400	22,400	260
270	55.5	349.4	19,500	26,700	57.6	344.3	21,800	21,800	270
280	53.8	341.4	16,800	26,000	55.9	336.2	19,000	21,200	280
290	52.1	333.0	14,300	25,300	54.2	327.6	16,300	20,700	290
300	50.3	323.9	12,000	24,700	52.3	318.4	13,800	20,200	300
310	48.4	314.3	9,800	24,100	50.5	308.6	11,500	19,600	310
320	46.6	304.1	7,700	23,500	48.5	298.2	9,300	19,200	320
330	44.6	293.1		21,700	46.5	286.9	7,200	18,700	330
340	42.5	281.3		19,800	44.4	274.9		18,400	340
350	40.4	268.6		17,900	42.2	261.9		18,000	350
360	38.2	254.8		16,200	39.9	247.7		17,000	360
370	35.8	239.9		14,500	37.5	232.3		15,300	370
380	33.2	223.4		13,000	34.8	215.2		13,600	380
390	30.4	205.0		11,500	31.9	196.0		12,000	390
400	27.4	184.2		10,000	28.7	174.1		10,400	400
410	23.9	160.0		8,600					410
420	19.8	130.2		7,100					420

MLC300 VPC-MAX S-1

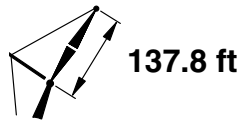
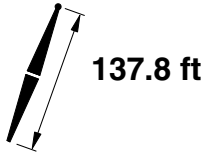
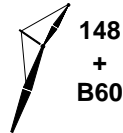
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
70	84.8	455.0	45,100	45,100					70
75	84.2	454.2	44,700	44,700					75
80	83.6	453.4	44,300	44,300					80
85	82.9	452.5	43,800	43,800					85
90	82.3	451.6	43,400	43,400					90
95	81.6	450.6	42,900	42,900	84.6	447.5	37,700	37,700	95
100	81.0	449.6	42,300	42,300	83.3	445.4	36,900	36,900	100
105	80.3	448.5	41,900	41,900	82.7	444.3	36,400	36,400	105
110	79.7	447.3	41,400	41,400	82.0	443.1	36,000	36,000	110
115	79.0	446.1	40,900	40,900	81.4	441.9	35,500	35,500	115
120	78.4	444.8	40,400	40,400	80.7	440.6	35,100	35,100	120
125	77.7	443.5	39,900	39,900	80.0	439.2	34,700	34,700	125
130	77.1	442.1	39,400	39,400	79.4	437.8	34,200	34,200	130
135	76.4	440.6	38,900	38,900	78.7	436.3	33,900	33,900	135
140	75.7	439.1	38,300	38,300	78.0	434.8	33,500	33,500	140
145	75.1	437.5	37,900	37,900	77.4	433.2	33,100	33,100	145
150	74.4	435.8	37,300	37,300	76.7	431.5	32,600	32,600	150
155	73.7	434.1	36,900	36,900	76.0	429.7	32,200	32,200	155
160	73.1	432.3	36,400	36,400	75.3	427.9	31,600	31,600	160
165	72.4	430.4	35,900	35,900	74.6	426.1	31,000	31,000	165
170	71.7	428.5	35,400	35,400	74.0	424.1	30,500	30,500	170
180	70.4	424.5	34,500	34,500	72.6	420.0	29,400	29,400	180
190	69.0	420.1	33,500	33,500	71.2	415.6	28,400	28,400	190
200	67.6	415.5	32,700	32,700	69.8	411.0	27,500	27,500	200
210	66.2	410.6	31,800	31,800	68.3	406.0	26,600	26,600	210
220	64.7	405.3	30,900	30,900	66.9	400.7	25,800	25,800	220
230	63.3	399.8	30,200	30,200	65.4	395.0	25,000	25,000	230
240	61.8	393.9	27,800	29,300	63.9	389.1	24,300	24,300	240
250	60.3	387.6	24,400	28,600	62.4	382.7	23,600	23,600	250
260	58.8	381.0	21,300	27,900	60.9	376.0	23,000	23,000	260
270	57.3	374.0	18,400	27,100	59.3	368.9	20,800	22,300	270
280	55.7	366.5	15,700	26,200	57.7	361.4	18,000	21,700	280
290	54.1	358.6	13,200	25,300	56.1	353.4	15,300	21,200	290
300	52.4	350.3	10,800	24,500	54.4	344.9	12,900	20,700	300
310	50.7	341.4	8,600	23,700	52.7	335.9	10,500	20,200	310
320	49.0	332.0	6,600	23,000	50.9	326.3	8,300	19,700	320
330	47.2	322.0		20,900	49.1	316.1		19,300	330
340	45.3	311.4		19,000	47.2	305.3		18,900	340
350	43.4	300.0		17,200	45.3	293.6		18,200	350
360	41.4	287.8		15,400	43.2	281.1		16,400	360
370	39.3	274.6		13,800	41.1	267.7		14,600	370
380	37.1	260.4		12,200	38.8	253.0		13,000	380
390	34.8	245.0		10,700	36.4	237.1		11,400	390
400	32.3	228.0		9,300	33.8	219.4		9,900	400
410	29.6	209.0		7,800	31.0	199.7		8,400	410
420					27.8	177.1		6,700	420

MLC300 VPC-MAX S-1

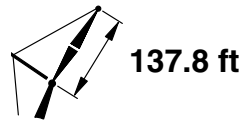
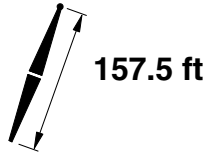
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
65	82.2	276.8	40,500	40,500					65
70	81.2	275.6	39,200	39,200					70
75	80.1	274.4	38,000	38,000					75
80	79.0	273.0	36,800	36,800					80
85	77.9	271.6	35,600	35,600	82.5	268.7	30,800	30,800	85
90	76.8	270.0	34,400	34,400	81.4	267.1	29,800	29,800	90
95	75.8	268.3	33,300	33,300	80.3	265.4	28,900	28,900	95
100	74.7	266.6	32,300	32,300	79.2	263.6	28,000	28,000	100
105	73.5	264.7	31,200	31,200	78.1	261.7	27,100	27,100	105
110	72.4	262.7	30,200	30,200	76.9	259.7	26,300	26,300	110
115	71.3	260.6	29,200	29,200	75.8	257.6	25,500	25,500	115
120	70.2	258.3	28,300	28,300	74.7	255.3	24,700	24,700	120
125	69.0	256.0	27,400	27,400	73.5	252.9	24,000	24,000	125
130	67.9	253.5	26,600	26,600	72.3	250.4	23,300	23,300	130
135	66.7	250.9	25,700	25,700	71.1	247.8	22,600	22,600	135
140	65.5	248.2	24,900	24,900	69.9	245.0	22,000	22,000	140
145	64.3	245.3	24,100	24,100	68.7	242.1	21,400	21,400	145
150	63.1	242.3	23,400	23,400	67.5	239.1	20,800	20,800	150
155	61.9	239.1	22,700	22,700	66.3	235.9	20,100	20,100	155
160	60.6	235.8	22,000	22,000	65.0	232.5	19,600	19,600	160
165	59.4	232.4	21,400	21,400	63.7	229.0	19,100	19,100	165
170	58.1	228.7	20,700	20,700	62.4	225.3	18,600	18,600	170
180	55.5	220.9	19,500	19,500	59.7	217.3	17,500	17,500	180
190	52.7	212.3	18,300	18,300	57.0	208.6	16,700	16,700	190
200	49.9	202.8	17,400	17,400	54.0	198.9	15,900	15,900	200
210	46.9	192.3	16,400	16,400	51.0	188.2	15,100	15,100	210
220	43.7	180.6	15,500	15,500	47.7	176.2	14,400	14,400	220
230	40.2	167.4	14,700	14,700	44.2	162.7	13,700	13,700	230
240	36.5	152.4	13,900	13,900	40.3	147.1	13,200	13,200	240
250	32.3	134.8	13,300	13,300	35.9	128.7	12,700	12,700	250
260	27.4	113.4	12,700	12,700	30.7	106.0	12,400	12,400	260
270	21.2	85.2	12,200	12,200					270

MLC300 VPC-MAX S-1

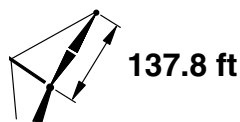
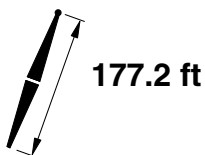
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
55	84.7	298.8	43,100	43,100					55
60	83.7	297.9	42,000	42,000					60
65	82.8	296.9	40,900	40,900					65
70	81.8	295.8	39,700	39,700					70
75	80.8	294.6	38,500	38,500					75
80	79.8	293.4	37,400	37,400	84.0	290.3	32,100	32,100	80
85	78.8	292.0	36,300	36,300	83.0	289.0	31,100	31,100	85
90	77.8	290.6	35,200	35,200	82.0	287.5	30,300	30,300	90
95	76.7	289.0	34,100	34,100	81.0	285.9	29,400	29,400	95
100	75.7	287.4	33,200	33,200	80.0	284.3	28,600	28,600	100
105	74.7	285.6	32,100	32,100	78.9	282.5	27,700	27,700	105
110	73.7	283.8	31,200	31,200	77.9	280.6	26,900	26,900	110
115	72.6	281.8	30,300	30,300	76.8	278.6	26,200	26,200	115
120	71.6	279.8	29,400	29,400	75.8	276.6	25,400	25,400	120
125	70.5	277.6	28,500	28,500	74.7	274.4	24,700	24,700	125
130	69.5	275.3	27,700	27,700	73.6	272.1	24,100	24,100	130
135	68.4	272.9	26,900	26,900	72.5	269.7	23,400	23,400	135
140	67.3	270.4	26,100	26,100	71.4	267.1	22,800	22,800	140
145	66.2	267.8	25,300	25,300	70.3	264.5	22,200	22,200	145
150	65.1	265.1	24,600	24,600	69.2	261.7	21,600	21,600	150
155	64.0	262.2	23,900	23,900	68.1	258.8	21,000	21,000	155
160	62.9	259.2	23,200	23,200	66.9	255.7	20,500	20,500	160
165	61.7	256.0	22,500	22,500	65.8	252.5	19,900	19,900	165
170	60.6	252.7	21,900	21,900	64.6	249.2	19,400	19,400	170
180	58.2	245.7	20,700	20,700	62.2	242.1	18,500	18,500	180
190	55.8	238.1	19,600	19,600	59.7	234.3	17,500	17,500	190
200	53.2	229.7	18,500	18,500	57.1	225.8	16,700	16,700	200
210	50.6	220.5	17,600	17,600	54.5	216.4	16,000	16,000	210
220	47.8	210.4	16,700	16,700	51.7	206.1	15,300	15,300	220
230	44.9	199.3	15,900	15,900	48.7	194.7	14,600	14,600	230
240	41.9	186.9	15,100	15,100	45.5	182.0	14,000	14,000	240
250	38.6	173.0	14,300	14,300	42.1	167.7	13,400	13,400	250
260	34.9	157.2	13,700	13,700	38.4	151.3	13,000	13,000	260
270	30.9	138.8	13,100	13,100	34.1	132.0	12,600	12,600	270
280	26.1	116.3	12,600	12,600	29.0	108.1	12,300	12,300	280
290	20.0	86.6	12,200	12,200					290

MLC300 VPC-MAX S-1

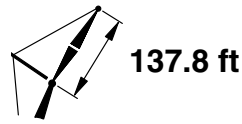
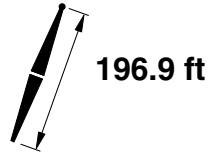
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
60	84.1	317.8	42,100	42,100					60
65	83.2	316.9	41,000	41,000					65
70	82.3	315.9	40,000	40,000					70
75	81.4	314.8	38,900	38,900					75
80	80.4	313.6	37,900	37,900	84.4	310.4	32,300	32,300	80
85	79.5	312.3	36,900	36,900	83.5	309.1	31,400	31,400	85
90	78.5	311.0	35,900	35,900	82.5	307.8	30,600	30,600	90
95	77.6	309.5	34,900	34,900	81.6	306.3	29,800	29,800	95
100	76.7	308.0	33,900	33,900	80.6	304.8	29,000	29,000	100
105	75.7	306.4	33,000	33,000	79.7	303.1	28,200	28,200	105
110	74.7	304.7	32,000	32,000	78.7	301.4	27,500	27,500	110
115	73.8	302.9	31,200	31,200	77.7	299.5	26,700	26,700	115
120	72.8	301.0	30,300	30,300	76.7	297.6	26,100	26,100	120
125	71.8	298.9	29,400	29,400	75.7	295.6	25,400	25,400	125
130	70.8	296.8	28,600	28,600	74.7	293.5	24,700	24,700	130
135	69.8	294.6	27,900	27,900	73.7	291.2	24,100	24,100	135
140	68.8	292.3	27,100	27,100	72.7	288.9	23,500	23,500	140
145	67.8	289.9	26,400	26,400	71.7	286.4	22,900	22,900	145
150	66.8	287.4	25,600	25,600	70.7	283.9	22,300	22,300	150
155	65.8	284.7	24,900	24,900	69.6	281.2	21,800	21,800	155
160	64.8	282.0	24,300	24,300	68.6	278.4	21,200	21,200	160
165	63.7	279.1	23,600	23,600	67.5	275.5	20,700	20,700	165
170	62.6	276.1	23,000	23,000	66.4	272.4	20,300	20,300	170
180	60.5	269.7	21,800	21,800	64.3	265.9	19,300	19,300	180
190	58.3	262.7	20,700	20,700	62.0	258.9	18,400	18,400	190
200	56.0	255.2	19,700	19,700	59.7	251.2	17,500	17,500	200
210	53.7	247.0	18,700	18,700	57.3	242.9	16,800	16,800	210
220	51.2	238.1	17,800	17,800	54.8	233.8	16,000	16,000	220
230	48.7	228.3	16,900	16,900	52.2	223.9	15,400	15,400	230
240	46.0	217.7	16,100	16,100	49.5	213.0	14,700	14,700	240
250	43.2	205.9	15,400	15,400	46.7	201.0	14,200	14,200	250
260	40.3	192.9	14,700	14,700	43.6	187.6	13,600	13,600	260
270	37.0	178.4	14,100	14,100	40.3	172.6	13,200	13,200	270
280	33.5	161.8	13,500	13,500	36.6	155.4	12,800	12,800	280
290	29.6	142.5	13,000	13,000	32.5	135.1	12,400	12,400	290
300	24.9	119.0	12,400	12,400	27.5	110.0	12,200	12,200	300
310	19.0	87.9	12,100	12,100					310

MLC300 VPC-MAX S-1

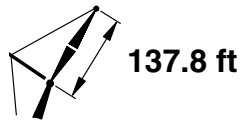
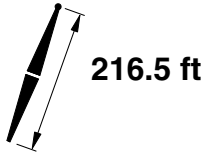
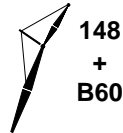
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
60	84.5	337.7	42,100	42,100					60
65	83.6	336.9	41,200	41,200					65
70	82.7	335.9	40,200	40,200					70
75	81.9	334.9	39,300	39,300					75
80	81.0	333.8	38,300	38,300	84.8	330.5	32,400	32,400	80
85	80.1	332.6	37,300	37,300	83.9	329.3	31,600	31,600	85
90	79.2	331.3	36,400	36,400	83.0	328.0	30,800	30,800	90
95	78.4	330.0	35,400	35,400	82.1	326.6	30,100	30,100	95
100	77.5	328.5	34,600	34,600	81.2	325.2	29,400	29,400	100
105	76.6	327.0	33,600	33,600	80.3	323.6	28,600	28,600	105
110	75.7	325.4	32,800	32,800	79.4	322.0	27,900	27,900	110
115	74.8	323.7	31,900	31,900	78.5	320.3	27,200	27,200	115
120	73.9	321.9	31,100	31,100	77.6	318.5	26,600	26,600	120
125	72.9	320.1	30,300	30,300	76.6	316.6	25,900	25,900	125
130	72.0	318.1	29,500	29,500	75.7	314.6	25,300	25,300	130
135	71.1	316.1	28,700	28,700	74.8	312.5	24,700	24,700	135
140	70.2	313.9	28,000	28,000	73.8	310.3	24,100	24,100	140
145	69.2	311.6	27,300	27,300	72.9	308.1	23,500	23,500	145
150	68.3	309.3	26,600	26,600	71.9	305.7	23,000	23,000	150
155	67.3	306.9	26,000	26,000	71.0	303.2	22,500	22,500	155
160	66.4	304.3	25,300	25,300	70.0	300.6	21,900	21,900	160
165	65.4	301.6	24,600	24,600	69.0	297.9	21,500	21,500	165
170	64.4	298.9	24,000	24,000	68.0	295.1	21,000	21,000	170
180	62.5	293.0	22,900	22,900	66.0	289.2	20,000	20,000	180
190	60.4	286.6	21,800	21,800	64.0	282.7	19,200	19,200	190
200	58.4	279.7	20,700	20,700	61.8	275.7	18,300	18,300	200
210	56.2	272.3	19,800	19,800	59.7	268.2	17,500	17,500	210
220	54.0	264.2	18,800	18,800	57.5	260.0	16,800	16,800	220
230	51.8	255.5	17,900	17,900	55.1	251.1	16,200	16,200	230
240	49.4	246.1	17,200	17,200	52.8	241.5	15,500	15,500	240
250	47.0	235.8	16,400	16,400	50.3	231.0	14,900	14,900	250
260	44.4	224.6	15,700	15,700	47.6	219.6	14,400	14,400	260
270	41.7	212.3	15,000	15,000	44.8	207.0	13,900	13,900	270
280	38.8	198.7	14,300	14,300	41.9	193.0	13,400	13,400	280
290	35.7	183.5	13,800	13,800	38.7	177.2	13,000	13,000	290
300	32.3	166.2	13,300	13,300	35.1	159.2	12,700	12,700	300
310	28.4	146.1	12,800	12,800	31.1	138.0	12,400	12,400	310
320	23.9	121.6	12,400	12,400	26.2	111.7	12,200	12,200	320
330	18.1	89.0	12,100	12,100					330

MLC300 VPC-MAX S-1

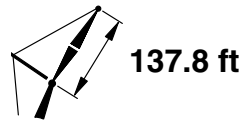
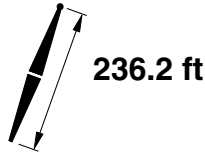
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
60	84.8	357.6	42,100	42,100					60
65	84.0	356.8	41,200	41,200					65
70	83.2	355.9	40,300	40,300					70
75	82.3	355.0	39,400	39,400					75
80	81.5	353.9	38,500	38,500					80
85	80.7	352.8	37,700	37,700	84.2	349.3	31,800	31,800	85
90	79.9	351.6	36,800	36,800	83.4	348.1	31,100	31,100	90
95	79.0	350.3	35,900	35,900	82.6	346.8	30,300	30,300	95
100	78.2	349.0	35,000	35,000	81.7	345.5	29,600	29,600	100
105	77.3	347.5	34,200	34,200	80.9	344.0	29,000	29,000	105
110	76.5	346.0	33,400	33,400	80.0	342.5	28,300	28,300	110
115	75.7	344.4	32,600	32,600	79.2	340.9	27,700	27,700	115
120	74.8	342.8	31,800	31,800	78.3	339.2	27,000	27,000	120
125	73.9	341.0	31,000	31,000	77.4	337.4	26,400	26,400	125
130	73.1	339.2	30,300	30,300	76.6	335.6	25,800	25,800	130
135	72.2	337.3	29,600	29,600	75.7	333.6	25,200	25,200	135
140	71.3	335.2	28,800	28,800	74.8	331.6	24,700	24,700	140
145	70.5	333.1	28,100	28,100	73.9	329.5	24,100	24,100	145
150	69.6	330.9	27,400	27,400	73.0	327.2	23,600	23,600	150
155	68.7	328.7	26,800	26,800	72.1	324.9	23,000	23,000	155
160	67.8	326.3	26,200	26,200	71.2	322.5	22,600	22,600	160
165	66.9	323.8	25,500	25,500	70.3	320.0	22,100	22,100	165
170	66.0	321.2	25,000	25,000	69.4	317.4	21,500	21,500	170
180	64.2	315.8	23,800	23,800	67.5	311.9	20,700	20,700	180
190	62.3	309.9	22,700	22,700	65.6	305.9	19,800	19,800	190
200	60.4	303.5	21,700	21,700	63.7	299.5	19,000	19,000	200
210	58.4	296.7	20,700	20,700	61.7	292.6	18,200	18,200	210
220	56.4	289.4	19,800	19,800	59.7	285.1	17,500	17,500	220
230	54.4	281.5	18,900	18,900	57.6	277.1	16,800	16,800	230
240	52.2	272.9	18,100	18,100	55.4	268.4	16,200	16,200	240
250	50.0	263.8	17,400	17,400	53.2	259.1	15,600	15,600	250
260	47.8	253.8	16,600	16,600	50.9	248.9	15,000	15,000	260
270	45.4	243.0	15,900	15,900	48.4	237.9	14,600	14,600	270
280	42.9	231.3	15,300	15,300	45.9	225.9	14,100	14,100	280
290	40.3	218.4	14,700	14,700	43.2	212.7	13,600	13,600	290
300	37.5	204.2	14,100	14,100	40.3	198.1	13,200	13,200	300
310	34.4	188.4	13,600	13,600	37.2	181.7	12,800	12,800	310
320	31.1	170.4	13,100	13,100	33.7	162.9	12,500	12,500	320
330	27.4	149.4	12,700	12,700	29.7	140.8	12,300	12,300	330
340	22.9	124.0	12,300	12,300	25.0	113.3	12,200	12,200	340
350	17.2	89.9	12,000	12,000					350

MLC300 VPC-MAX S-1

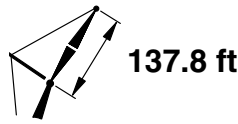
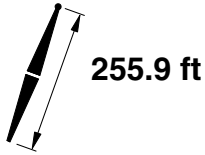
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
65	84.3	376.7	41,100	41,100					65
70	83.5	375.9	40,300	40,300					70
75	82.7	375.0	39,500	39,500					75
80	82.0	374.0	38,700	38,700					80
85	81.2	372.9	37,800	37,800	84.5	369.4	31,900	31,900	85
90	80.4	371.8	37,100	37,100	83.8	368.2	31,200	31,200	90
95	79.6	370.6	36,300	36,300	83.0	367.0	30,500	30,500	95
100	78.8	369.3	35,400	35,400	82.2	365.7	29,900	29,900	100
105	78.0	368.0	34,700	34,700	81.4	364.3	29,200	29,200	105
110	77.2	366.6	33,900	33,900	80.6	362.9	28,600	28,600	110
115	76.4	365.1	33,200	33,200	79.8	361.4	28,000	28,000	115
120	75.6	363.5	32,400	32,400	78.9	359.8	27,400	27,400	120
125	74.8	361.8	31,700	31,700	78.1	358.1	26,800	26,800	125
130	74.0	360.1	30,900	30,900	77.3	356.4	26,200	26,200	130
135	73.2	358.3	30,200	30,200	76.5	354.6	25,700	25,700	135
140	72.4	356.4	29,600	29,600	75.7	352.6	25,100	25,100	140
145	71.6	354.4	28,900	28,900	74.8	350.6	24,600	24,600	145
150	70.7	352.4	28,200	28,200	74.0	348.6	24,100	24,100	150
155	69.9	350.2	27,600	27,600	73.1	346.4	23,600	23,600	155
160	69.1	348.0	27,000	27,000	72.3	344.1	23,100	23,100	160
165	68.2	345.7	26,400	26,400	71.4	341.8	22,600	22,600	165
170	67.4	343.3	25,800	25,800	70.6	339.4	22,200	22,200	170
180	65.7	338.2	24,700	24,700	68.9	334.2	21,300	21,300	180
190	63.9	332.7	23,600	23,600	67.1	328.7	20,500	20,500	190
200	62.1	326.8	22,500	22,500	65.3	322.7	19,600	19,600	200
210	60.3	320.5	21,600	21,600	63.5	316.3	18,900	18,900	210
220	58.5	313.7	20,700	20,700	61.6	309.4	18,200	18,200	220
230	56.6	306.4	19,800	19,800	59.7	302.1	17,500	17,500	230
240	54.6	298.7	19,000	19,000	57.7	294.1	16,800	16,800	240
250	52.6	290.3	18,200	18,200	55.7	285.7	16,300	16,300	250
260	50.6	281.3	17,500	17,500	53.6	276.5	15,700	15,700	260
270	48.5	271.7	16,800	16,800	51.4	266.7	15,200	15,200	270
280	46.3	261.3	16,200	16,200	49.2	256.1	14,700	14,700	280
290	44.0	250.0	15,600	15,600	46.8	244.6	14,200	14,200	290
300	41.5	237.7	15,000	15,000	44.3	232.0	13,800	13,800	300
310	39.0	224.3	14,400	14,400	41.7	218.3	13,400	13,400	310
320	36.2	209.6	13,800	13,800	38.9	203.0	13,000	13,000	320
330	33.3	193.1	13,400	13,400	35.8	185.9	12,800	12,800	330
340	30.0	174.4	12,000	13,000	32.4	166.4	12,500	12,500	340
350	26.4	152.7	10,300	12,600	28.6	143.4	10,900	12,300	350
360	22.1	126.2	8,500	12,200					360
370	16.4	90.7	6,800	12,000					370

MLC300 VPC-MAX S-1

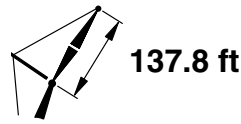
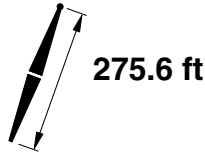
ASME B30.5



ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
65	84.6	396.6	40,400	40,400					65
70	83.8	395.8	39,900	39,900					70
75	83.1	395.0	39,300	39,300					75
80	82.4	394.0	38,500	38,500					80
85	81.6	393.0	37,800	37,800	84.8	389.3	31,800	31,800	85
90	80.9	392.0	37,100	37,100	84.1	388.3	31,200	31,200	90
95	80.1	390.8	36,400	36,400	83.3	387.1	30,600	30,600	95
100	79.4	389.6	35,600	35,600	82.6	385.9	30,000	30,000	100
105	78.6	388.3	34,900	34,900	81.8	384.6	29,400	29,400	105
110	77.9	387.0	34,200	34,200	81.1	383.2	28,800	28,800	110
115	77.1	385.6	33,400	33,400	80.3	381.8	28,200	28,200	115
120	76.4	384.1	32,800	32,800	79.5	380.3	27,700	27,700	120
125	75.6	382.5	32,100	32,100	78.8	378.7	27,100	27,100	125
130	74.8	380.9	31,400	31,400	78.0	377.1	26,600	26,600	130
135	74.1	379.2	30,700	30,700	77.2	375.4	26,000	26,000	135
140	73.3	377.4	30,100	30,100	76.4	373.5	25,500	25,500	140
145	72.5	375.5	29,500	29,500	75.6	371.7	25,000	25,000	145
150	71.8	373.6	28,800	28,800	74.9	369.7	24,500	24,500	150
155	71.0	371.6	28,200	28,200	74.1	367.7	24,100	24,100	155
160	70.2	369.5	27,600	27,600	73.3	365.5	23,600	23,600	160
165	69.4	367.3	27,000	27,000	72.5	363.3	23,100	23,100	165
170	68.6	365.0	26,400	26,400	71.7	361.1	22,700	22,700	170
180	67.0	360.2	25,300	25,300	70.0	356.2	21,800	21,800	180
190	65.3	355.1	24,300	24,300	68.4	351.0	21,000	21,000	190
200	63.7	349.6	23,300	23,300	66.7	345.5	20,200	20,200	200
210	62.0	343.7	22,400	22,400	65.0	339.5	19,500	19,500	210
220	60.3	337.4	21,500	21,500	63.2	333.1	18,700	18,700	220
230	58.5	330.7	20,600	20,600	61.5	326.3	18,100	18,100	230
240	56.7	323.5	19,800	19,800	59.6	319.0	17,400	17,400	240
250	54.9	315.8	19,000	19,000	57.8	311.2	16,900	16,900	250
260	53.0	307.6	18,200	18,200	55.9	302.9	16,300	16,300	260
270	51.1	298.8	17,600	17,600	53.9	293.9	15,800	15,800	270
280	49.1	289.4	16,900	16,900	51.9	284.4	15,300	15,300	280
290	47.0	279.3	16,300	16,300	49.8	274.1	14,800	14,800	290
300	44.9	268.4	15,700	15,700	47.6	263.0	14,300	14,300	300
310	42.6	256.7	15,100	15,100	45.3	251.0	14,000	14,000	310
320	40.3	244.0	14,000	14,600	42.9	237.9	13,600	13,600	320
330	37.8	230.0	12,100	14,100	40.3	223.6	13,200	13,200	330
340	35.1	214.7	10,200	13,600	37.6	207.8	11,400	12,900	340
350	32.2	197.6	8,500	13,200	34.6	190.0	9,500	12,600	350
360	29.1	178.2	6,800	12,900	31.3	169.8	7,600	12,400	360
370	25.5	155.7		12,500	27.5	145.9		12,200	370
380	21.2	128.3		12,200					380
390	15.7	91.3		12,000					390

MLC300 VPC-MAX S-1

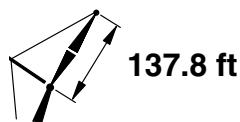
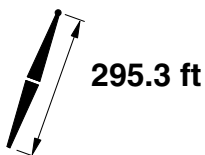
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
65	84.8	416.5	39,900	39,900					65
70	84.1	415.7	39,400	39,400					70
75	83.4	414.9	39,000	39,000					75
80	82.7	414.0	38,500	38,500					80
85	82.0	413.1	37,800	37,800					85
90	81.3	412.1	37,200	37,200	84.4	408.3	31,300	31,300	90
95	80.6	411.0	36,500	36,500	83.7	407.2	30,700	30,700	95
100	79.9	409.8	35,800	35,800	82.9	406.0	30,100	30,100	100
105	79.2	408.6	35,100	35,100	82.2	404.8	29,500	29,500	105
110	78.5	407.3	34,500	34,500	81.5	403.5	29,000	29,000	110
115	77.8	406.0	33,800	33,800	80.8	402.2	28,400	28,400	115
120	77.0	404.6	33,100	33,100	80.0	400.7	27,900	27,900	120
125	76.3	403.1	32,500	32,500	79.3	399.2	27,400	27,400	125
130	75.6	401.5	31,800	31,800	78.6	397.7	26,900	26,900	130
135	74.9	399.9	31,200	31,200	77.8	396.0	26,400	26,400	135
140	74.1	398.2	30,500	30,500	77.1	394.3	25,900	25,900	140
145	73.4	396.5	30,000	30,000	76.4	392.5	25,400	25,400	145
150	72.7	394.6	29,400	29,400	75.6	390.7	24,900	24,900	150
155	71.9	392.7	28,800	28,800	74.9	388.8	24,400	24,400	155
160	71.2	390.8	28,200	28,200	74.1	386.8	24,000	24,000	160
165	70.4	388.7	27,600	27,600	73.4	384.7	23,500	23,500	165
170	69.7	386.6	27,100	27,100	72.6	382.5	23,100	23,100	170
180	68.2	382.0	26,000	26,000	71.1	378.0	22,300	22,300	180
190	66.6	377.2	25,000	25,000	69.5	373.1	21,500	21,500	190
200	65.1	372.0	24,000	24,000	67.9	367.9	20,700	20,700	200
210	63.5	366.5	23,100	23,100	66.3	362.3	19,900	19,900	210
220	61.9	360.6	22,200	22,200	64.7	356.3	19,300	19,300	220
230	60.2	354.4	21,400	21,400	63.1	349.9	18,600	18,600	230
240	58.6	347.7	20,500	20,500	61.4	343.2	18,100	18,100	240
250	56.9	340.5	19,800	19,800	59.6	335.9	17,400	17,400	250
260	55.1	333.0	19,100	19,100	57.9	328.3	16,900	16,900	260
270	53.4	324.9	18,400	18,400	56.1	320.1	16,400	16,400	270
280	51.5	316.3	17,700	17,700	54.2	311.3	15,800	15,800	280
290	49.6	307.1	17,100	17,100	52.3	302.0	15,400	15,400	290
300	47.7	297.2	16,000	16,500	50.3	291.9	14,900	14,900	300
310	45.7	286.7	13,800	15,900	48.3	281.2	14,500	14,500	310
320	43.6	275.4	11,800	15,400	46.1	269.7	13,400	14,100	320
330	41.4	263.2	9,800	14,800	43.9	257.2	11,300	13,800	330
340	39.1	249.9	8,000	14,300	41.5	243.6	9,400	13,400	340
350	36.7	235.5		13,900	39.0	228.8	7,500	13,100	350
360	34.1	219.6		13,500	36.4	212.4		12,800	360
370	31.3	202.0		13,100	33.4	194.0		12,600	370
380	28.2	181.9		12,700	30.2	173.0		12,400	380
390	24.7	158.6		12,400	26.5	148.2		12,200	390
400	20.5	130.2		12,100					400

MLC300 VPC-MAX S-1

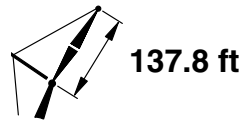
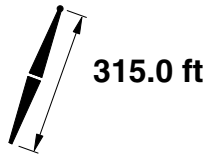
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	
70	84.4	435.6	38,500	38,500					70
75	83.7	434.8	38,100	38,100					75
80	83.1	434.0	37,600	37,600					80
85	82.4	433.1	37,200	37,200					85
90	81.7	432.1	36,800	36,800	84.6	428.3	31,100	31,100	90
95	81.1	431.1	36,300	36,300	83.9	427.2	30,600	30,600	95
100	80.4	430.0	35,700	35,700	83.3	426.1	30,100	30,100	100
105	79.7	428.8	35,000	35,000	82.6	425.0	29,600	29,600	105
110	79.0	427.6	34,400	34,400	81.9	423.7	29,000	29,000	110
115	78.3	426.3	33,800	33,800	81.2	422.4	28,500	28,500	115
120	77.7	425.0	33,200	33,200	80.5	421.1	28,000	28,000	120
125	77.0	423.6	32,600	32,600	79.8	419.7	27,500	27,500	125
130	76.3	422.1	32,000	32,000	79.1	418.2	27,000	27,000	130
135	75.6	420.6	31,400	31,400	78.4	416.6	26,500	26,500	135
140	74.9	419.0	30,800	30,800	77.7	415.0	26,100	26,100	140
145	74.2	417.3	30,300	30,300	77.0	413.3	25,600	25,600	145
150	73.5	415.6	29,700	29,700	76.3	411.5	25,200	25,200	150
155	72.8	413.8	29,100	29,100	75.6	409.7	24,700	24,700	155
160	72.1	411.9	28,600	28,600	74.9	407.8	24,300	24,300	160
165	71.4	409.9	28,100	28,100	74.2	405.9	23,800	23,800	165
170	70.7	407.9	27,500	27,500	73.5	403.8	23,400	23,400	170
180	69.2	403.6	26,500	26,500	72.0	399.5	22,600	22,600	180
190	67.8	399.1	25,500	25,500	70.5	394.9	21,900	21,900	190
200	66.3	394.2	24,600	24,600	69.0	390.0	21,100	21,100	200
210	64.8	389.0	23,700	23,700	67.5	384.7	20,400	20,400	210
220	63.3	383.4	22,800	22,800	66.0	379.1	19,800	19,800	220
230	61.8	377.6	22,000	22,000	64.5	373.1	19,100	19,100	230
240	60.2	371.3	21,200	21,200	62.9	366.8	18,500	18,500	240
250	58.6	364.6	20,500	20,500	61.3	360.1	17,900	17,900	250
260	57.0	357.6	19,800	19,800	59.6	352.9	17,300	17,300	260
270	55.3	350.1	19,000	19,000	58.0	345.3	16,800	16,800	270
280	53.7	342.1	18,400	18,400	56.2	337.2	16,400	16,400	280
290	51.9	333.6	17,300	17,700	54.5	328.6	15,900	15,900	290
300	50.1	324.6	14,900	17,200	52.7	319.5	15,400	15,400	300
310	48.3	315.0	12,800	16,600	50.8	309.7	14,700	15,000	310
320	46.4	304.8	10,700	16,000	48.9	299.3	12,500	14,600	320
330	44.5	293.9	8,800	15,600	46.9	288.1	10,500	14,200	330
340	42.4	282.1	7,000	15,000	44.8	276.1	8,500	13,900	340
350	40.3	269.5		14,500	42.6	263.2	6,700	13,600	350
360	38.0	255.8		14,100	40.3	249.1		13,300	360
370	35.7	240.8		13,800	37.9	233.7		12,900	370
380	33.1	224.4		13,300	35.2	216.8		12,700	380
390	30.4	206.2		13,000	32.4	197.8		12,500	390
400	27.3	185.5		12,400	29.2	176.1		12,300	400
410	23.9	161.4		11,100	25.5	150.5		11,500	410
420	19.8	132.1		9,700					420

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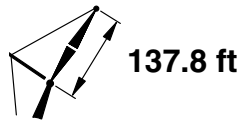
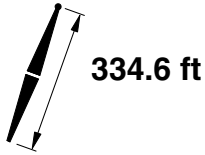
ASME B30.5



	10°				20°				
	ft	°	ft	lb	ft	°	ft	lb	
70	84.7	455.5	37,900	37,900					70
75	84.0	454.8	37,500	37,500					75
80	83.4	453.9	37,300	37,300					80
85	82.7	453.1	36,800	36,800					85
90	82.1	452.2	36,400	36,400	84.9	448.2	31,000	31,000	90
95	81.4	451.2	36,000	36,000	84.2	447.2	30,500	30,500	95
100	80.8	450.1	35,600	35,600	83.6	446.2	30,000	30,000	100
105	80.2	449.0	35,100	35,100	82.9	445.1	29,600	29,600	105
110	79.5	447.9	34,500	34,500	82.3	443.9	29,100	29,100	110
115	78.9	446.6	34,000	34,000	81.6	442.7	28,600	28,600	115
120	78.2	445.4	33,400	33,400	80.9	441.4	28,100	28,100	120
125	77.5	444.0	32,800	32,800	80.3	440.0	27,700	27,700	125
130	76.9	442.6	32,300	32,300	79.6	438.6	27,200	27,200	130
135	76.2	441.1	31,700	31,700	79.0	437.1	26,800	26,800	135
140	75.6	439.6	31,200	31,200	78.3	435.6	26,300	26,300	140
145	74.9	438.0	30,600	30,600	77.6	434.0	25,900	25,900	145
150	74.2	436.4	30,100	30,100	76.9	432.3	25,500	25,500	150
155	73.6	434.6	29,600	29,600	76.3	430.6	25,100	25,100	155
160	72.9	432.9	29,100	29,100	75.6	428.7	24,600	24,600	160
165	72.2	431.0	28,500	28,500	74.9	426.9	24,200	24,200	165
170	71.5	429.1	28,000	28,000	74.2	424.9	23,800	23,800	170
180	70.2	425.0	27,000	27,000	72.8	420.8	23,100	23,100	180
190	68.8	420.7	26,100	26,100	71.5	416.5	22,300	22,300	190
200	67.4	416.1	25,200	25,200	70.0	411.8	21,500	21,500	200
210	66.0	411.2	24,300	24,300	68.6	406.8	20,900	20,900	210
220	64.6	405.9	23,400	23,400	67.2	401.5	20,300	20,300	220
230	63.1	400.4	22,700	22,700	65.7	395.9	19,600	19,600	230
240	61.7	394.5	21,900	21,900	64.2	390.0	19,000	19,000	240
250	60.2	388.2	21,100	21,100	62.7	383.6	18,400	18,400	250
260	58.7	381.6	20,400	20,400	61.2	376.9	17,900	17,900	260
270	57.1	374.6	19,700	19,700	59.6	369.8	17,400	17,400	270
280	55.5	367.2	17,500	19,100	58.0	362.3	16,900	16,900	280
290	53.9	359.3	15,000	18,500	56.4	354.3	16,400	16,400	290
300	52.3	351.0	12,700	17,900	54.7	345.9	15,000	15,900	300
310	50.6	342.2	10,500	17,300	53.0	336.9	12,700	15,500	310
320	48.9	332.8	8,500	16,800	51.3	327.4	10,500	15,100	320
330	47.1	322.8	6,500	16,200	49.4	317.2	8,400	14,700	330
340	45.2	312.2		15,700	47.6	306.4	6,500	14,300	340
350	43.3	300.8		15,300	45.6	294.8		14,000	350
360	41.3	288.6		14,800	43.6	282.4		13,700	360
370	39.2	275.5		14,300	41.4	269.0		13,400	370
380	37.0	261.4		13,700	39.2	254.4		13,100	380
390	34.7	246.0		12,200	36.8	238.6		12,800	390
400	32.2	229.0		10,800	34.2	221.0		11,600	400
410	29.5	210.2		9,500	31.4	201.4		10,100	410
420	26.6	188.9		8,200	28.3	179.0		8,700	420
430	23.2	164.1		6,700	24.7	152.6		7,200	430

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ft	10°				20°				ft
	ft	ft	lb		ft	ft	lb		
			34.8 ft	48.0 ft			34.8 ft	48.0 ft	
70	84.9	475.4	36,600	36,600					70
75	84.3	474.6	36,300	36,300					75
80	83.7	473.9	35,900	35,900					80
85	83.0	473.0	35,600	35,600					85
90	82.4	472.2	35,200	35,200					90
95	81.8	471.2	34,800	34,800	84.5	467.2	30,300	30,300	95
100	81.2	470.2	34,400	34,400	83.8	466.2	29,800	29,800	100
105	80.6	469.2	34,100	34,100	83.2	465.1	29,300	29,300	105
110	80.0	468.0	33,700	33,700	82.6	464.0	28,900	28,900	110
115	79.3	466.9	33,300	33,300	82.0	462.8	28,500	28,500	115
120	78.7	465.7	32,900	32,900	81.3	461.6	28,000	28,000	120
125	78.1	464.4	32,500	32,500	80.7	460.3	27,600	27,600	125
130	77.5	463.0	32,100	32,100	80.1	459.0	27,100	27,100	130
135	76.8	461.6	31,600	31,600	79.4	457.5	26,800	26,800	135
140	76.2	460.2	31,100	31,100	78.8	456.1	26,300	26,300	140
145	75.6	458.7	30,600	30,600	78.2	454.5	25,900	25,900	145
150	74.9	457.1	30,100	30,100	77.5	452.9	25,500	25,500	150
155	74.3	455.4	29,600	29,600	76.9	451.3	25,100	25,100	155
160	73.6	453.7	29,100	29,100	76.2	449.6	24,700	24,700	160
165	73.0	452.0	28,600	28,600	75.6	447.8	24,400	24,400	165
170	72.4	450.1	28,200	28,200	74.9	445.9	24,000	24,000	170
180	71.1	446.3	27,300	27,300	73.6	442.0	23,200	23,200	180
190	69.7	442.2	26,300	26,300	72.3	437.9	22,500	22,500	190
200	68.4	437.8	25,500	25,500	71.0	433.4	21,800	21,800	200
210	67.1	433.1	24,600	24,600	69.6	428.7	21,200	21,200	210
220	65.7	428.1	23,800	23,800	68.2	423.7	20,600	20,600	220
230	64.4	422.9	23,000	23,000	66.9	418.4	20,000	20,000	230
240	63.0	417.3	22,300	22,300	65.5	412.8	19,400	19,400	240
250	61.6	411.4	21,500	21,500	64.0	406.8	18,800	18,800	250
260	60.1	405.2	20,900	20,900	62.6	400.5	18,200	18,200	260
270	58.7	398.6	19,000	20,200	61.1	393.8	17,700	17,700	270
280	57.2	391.6	16,300	19,600	59.6	386.8	17,200	17,200	280
290	55.7	384.3	13,800	19,000	58.1	379.3	16,500	16,800	290
300	54.2	376.5	11,500	18,400	56.5	371.5	14,000	16,400	300
310	52.6	368.3	9,300	17,800	54.9	363.1	11,700	15,900	310
320	51.0	359.6	7,300	17,300	53.3	354.3	9,500	15,500	320
330	49.4	350.4		16,800	51.6	345.0	7,400	15,100	330
340	47.7	340.7		16,300	49.9	335.1		14,800	340
350	45.9	330.3		15,800	48.1	324.5		14,400	350
360	44.1	319.3		15,400	46.3	313.3		14,100	360
370	42.2	307.5		14,400	44.4	301.3		13,800	370
380	40.3	295.0		12,900	42.4	288.5		13,500	380
390	38.3	281.4		11,400	40.3	274.6		12,400	390
400	36.1	266.8		10,000	38.1	259.6		10,900	400
410	33.8	250.9		8,700	35.8	243.2		9,500	410
420	31.4	233.5		7,100	33.3	225.2		8,100	420