

Liftcrane Jib Capacities

Jib No. 148 on
 Boom No. B60:500
 with Mast No. M10:503 or Mast No. M11:503
 474,100 lb VPC (Variable Position Counterweight)
 360 Degree Rating

MLC300 VPC-MAX SERIES 3



LIFTING CAPACITIES: Chart supplements Boom Capacity chart No. 9431-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, (c) requires 10,000 lb minimum weight, and (d) requires 20,000 lb minimum weight. **Caution: Do not operate in areas indicated by (b), (c), or (d) 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 (°) 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 474,100 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 1: 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	22,900	22,900	22,900	22,900	22,900	22,900	22,900
236.2	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
255.9	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
275.6	22,900	22,900	22,900	22,900	22,900	15,800	22,900	22,900	22,900	22,900	22,900	22,900
295.3	22,900	15,800	15,800	15,800	15,800	8,300	22,900	22,900	22,900	22,900	22,900	22,900
315.0	Raising Not Permitted											
334.6												
354.3												

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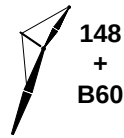
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Table 2: Without Luffing Jib Backstays

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	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
255.9	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
275.6	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900	22,900
295.3	22,900	22,900	22,900	15,800	15,800	15,800	22,900	22,900	22,900	22,900	22,900	22,900
315.0	8,300	8,300	8,300	8,300	8,300	8,300	8,300	8,300	8,300	8,300	8,300	8,300
334.6	#	#	#	#	#	#	#	#	#	#	#	#
354.3	#	#	#	#	#	#	#	#	#	#	#	#

Explanation of Symbols



Jib No. 148
+
Boom No. B60:500



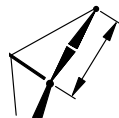
VPC (Variable Position Counterweight)



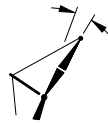
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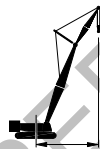
Boom Length



Jib Length



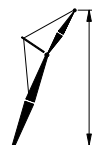
Jib Offset Angle



Operating Radius
(see page 1)



Boom Angle
(see page 1)



Jib Point Elevation
(see page 1)



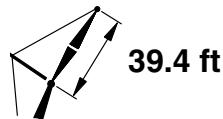
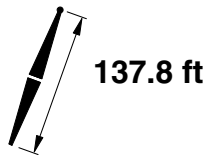
Counterweight Position
from Axis of Rotation



Lifting Capacities
(see page 1)

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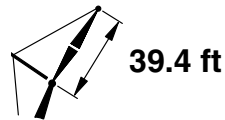
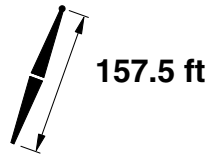
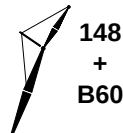
ASME B30.5



	10°					20°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	
38	82.3	182.1	143,300d	143,300d						38
40	81.6	181.7	143,300d	143,300d						40
45	80.0	180.6	143,300c	143,300c	81.9	179.1	134,500d	134,500d		45
50	78.3	179.4	143,300c	143,300c	80.3	177.9	127,800c	127,800c		50
55	76.6	178.0	143,300b	143,300b	78.6	176.5	121,800c	121,800c		55
60	75.0	176.5	143,300	143,300	76.9	174.9	116,300b	116,300b		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
140	43.6	123.2	81,500	81,500	45.1	120.9	70,500	70,500		140
150	38.4	110.4	77,300	77,300	39.8	107.8	67,900	67,900		150
160	32.4	94.7	73,800	73,800	33.6	91.6	65,700	65,700		160
170	25.0	74.0	70,900	70,900						170

MLC300 VPC-MAX S-3

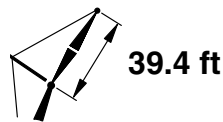
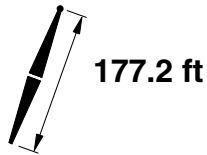
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
32	84.8	203.0	143,300d	143,300d					32
34	84.2	202.7	143,300d	143,300d					34
36	83.6	202.4	143,300d	143,300d					36
38	83.1	202.1	143,300d	143,300d	84.8	200.5	143,300d	143,300d	38
40	82.5	201.7	143,300d	143,300d	84.2	200.2	143,300d	143,300d	40
45	81.0	200.7	143,300c	143,300c	82.8	199.2	137,700c	137,700c	45
50	79.5	199.6	143,300c	143,300c	81.3	198.1	131,300c	131,300c	50
55	78.0	198.4	143,300b	143,300b	79.8	196.8	125,600c	125,600c	55
60	76.5	197.0	143,300	143,300	78.2	195.4	120,300b	120,300b	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
140	49.6	151.6	87,800	87,800	51.0	149.5	74,500	74,500	140
150	45.5	141.5	83,200	83,200	46.9	139.2	71,500	71,500	150
160	41.0	129.8	79,300	79,300	42.3	127.4	69,000	69,000	160
170	36.1	116.0	75,800	75,800	37.3	113.2	66,900	66,900	170
180	30.4	99.1	72,800	72,800	31.4	95.8	65,200	65,200	180
190	23.3	76.8	70,400	70,400					190

MLC300 VPC-MAX S-3

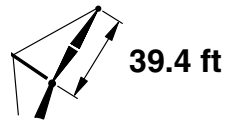
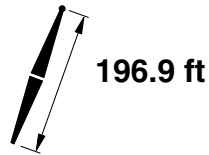
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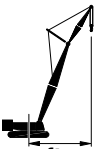
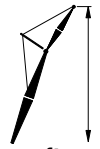
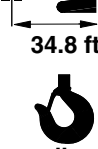
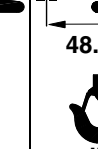
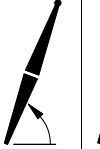
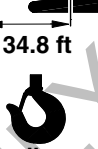
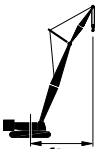


	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
34	84.8	222.5	143,300d	143,300d					34
36	84.2	222.3	143,300d	143,300d					36
38	83.7	222.0	143,300d	143,300d					38
40	83.2	221.7	143,300c	143,300c					40
45	81.8	220.8	143,300c	143,300c	84.8	220.1	142,500d	142,500d	45
					83.4	219.2	140,300c	140,300c	
50	80.5	219.8	143,300b	143,300b	82.1	218.2	134,300c	134,300c	50
55	79.1	218.7	143,300	143,300	80.7	217.1	128,900b	128,900b	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	99,200	99,200	58.7	183.0	81,700	81,700	130
140	54.0	177.5	93,800	93,800	55.4	175.5	78,200	78,200	140
150	50.6	169.1	88,900	88,900	51.9	166.9	75,100	75,100	150
160	46.9	159.5	84,700	84,700	48.2	157.3	72,400	72,400	160
170	43.0	148.6	80,900	80,900	44.2	146.2	70,000	70,000	170
180	38.8	136.0	77,600	77,600	39.9	133.4	67,900	67,900	180
190	34.1	121.2	74,600	74,600	35.1	118.2	66,200	66,200	190
200	28.6	103.1	72,100	72,100	29.5	99.5	64,800	64,800	200
210	21.8	79.4	70,100	70,100					210

MLC300 VPC-MAX S-3

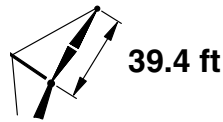
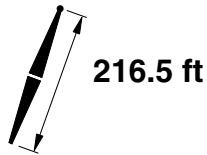
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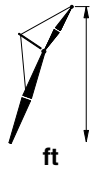
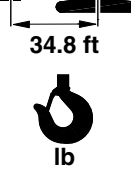
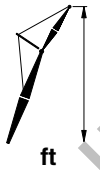
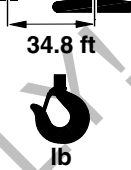
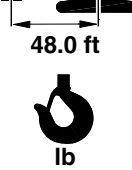
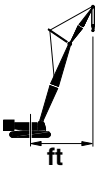


	10°					20°				
	 ft	 °	 ft	 lb	 lb	 ft	 lb	 lb	 lb	 ft
36	84.7	242.1	143,300d	143,300d						36
38	84.2	241.9	143,300c	143,300c						38
40	83.7	241.6	143,300c	143,300c						40
45	82.5	240.8	143,300c	143,300c	84.0	239.1	140,900c	140,900c		45
50	81.3	239.9	143,300	143,300	82.7	238.2	136,800c	136,800c		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	111,500	111,500	64.5	212.6	89,200	89,200		120
125	61.8	211.5	108,200	108,200	63.1	209.7	87,200	87,200		125
130	60.4	208.5	105,100	105,100	61.7	206.6	85,200	85,200		130
140	57.5	202.0	99,400	99,400	58.8	200.0	81,700	81,700		140
150	54.5	194.6	94,400	94,400	55.7	192.6	78,500	78,500		150
160	51.4	186.5	89,900	89,900	52.6	184.3	75,700	75,700		160
170	48.1	177.3	85,900	85,900	49.3	175.1	73,100	73,100		170
180	44.6	167.0	82,300	82,300	45.7	164.6	70,800	70,800		180
190	40.9	155.3	79,200	79,200	42.0	152.7	68,800	68,800		190
200	36.9	141.9	76,300	76,300	37.8	139.0	67,100	67,100		200
210	32.4	126.1	73,700	73,700	33.2	122.9	65,600	65,600		210
220	27.1	106.9	68,800	71,500	27.8	103.1	64,600	64,600		220
230	20.5	81.7	63,800	69,800						230

MLC300 VPC-MAX S-3

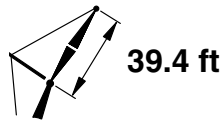
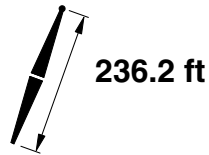
ASME B30.5

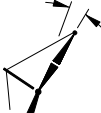
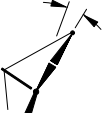
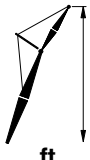
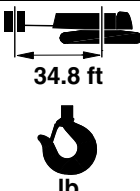
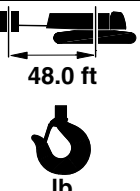
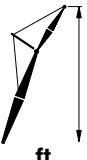
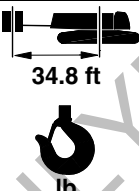


	10°				20°				
									
	ft	ft	ft	lb	lb	ft	lb	lb	ft
38	84.7	261.7	143,300c	143,300c					38
40	84.2	261.4	143,300c	143,300c					40
45	83.1	260.7	143,300b	143,300b	84.5	259.1	139,600c	139,600c	45
50	82.0	259.9	143,300	143,300	83.3	258.2	138,900b	138,900b	50
55	80.8	258.9	143,300	143,300	82.2	257.3	134,000	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	124,600	124,600	69.2	239.6	97,000	97,000	110
115	66.7	239.1	120,800	120,800	67.9	237.3	94,800	94,800	115
120	65.4	236.6	117,200	117,200	66.7	234.8	92,600	92,600	120
125	64.2	234.1	113,800	113,800	65.4	232.2	90,500	90,500	125
130	62.9	231.3	110,600	110,600	64.1	229.5	88,600	88,600	130
140	60.3	225.5	104,800	104,800	61.5	223.6	85,000	85,000	140
150	57.7	219.0	99,700	99,700	58.8	217.0	81,800	81,800	150
160	54.9	211.8	95,000	95,000	56.1	209.7	78,800	78,800	160
170	52.1	203.8	90,800	90,800	53.2	201.7	76,100	76,100	170
180	49.1	194.9	87,100	87,100	50.2	192.7	73,800	73,800	180
190	45.9	185.1	83,600	83,600	47.0	182.7	71,600	71,600	190
200	42.6	174.1	79,500	80,600	43.6	171.6	69,600	69,600	200
210	39.1	161.6	73,600	77,800	40.0	158.9	67,900	67,900	210
220	35.2	147.4	68,300	75,300	36.0	144.4	66,400	66,400	220
230	30.8	130.7	63,400	73,000	31.6	127.3	63,700	65,200	230
240	25.8	110.4	58,900	71,100	26.4	106.3	59,100	64,400	240
250	19.4	83.7	54,400	69,700					250

MLC300 VPC-MAX S-3

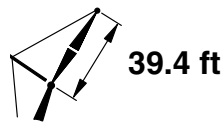
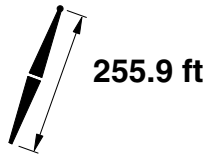
ASME B30.5



	 10°				 20°					
	 ft	 ft	 ft	 34.8 ft lb	 48.0 ft lb	 ft	 ft	 34.8 ft lb		 48.0 ft lb
40	84.6	281.3	143,300c	143,300c						40
45	83.6	280.6	143,300	143,300	84.9	278.9	135,700c	135,700c		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	134,200	134,200	71.9	263.0	102,500	102,500		105
110	69.6	262.8	130,000	130,000	70.8	261.0	100,100	100,100		110
115	68.5	260.7	126,200	126,200	69.6	258.9	97,900	97,900		115
120	67.3	258.4	122,500	122,500	68.5	256.6	95,600	95,600		120
125	66.2	256.1	119,200	119,200	67.3	254.3	93,600	93,600		125
130	65.0	253.6	115,900	115,900	66.2	251.8	91,700	91,700		130
140	62.7	248.3	110,000	110,000	63.8	246.4	88,000	88,000		140
150	60.3	242.4	104,700	104,700	61.4	240.5	84,800	84,800		150
160	57.8	235.9	99,800	99,800	58.9	234.0	81,800	81,800		160
170	55.2	228.8	95,500	95,500	56.3	226.8	79,000	79,000		170
180	52.6	221.0	91,600	91,600	53.7	218.9	76,600	76,600		180
190	49.9	212.5	84,400	88,100	50.9	210.2	74,300	74,300		190
200	47.0	203.0	77,900	84,800	48.0	200.7	72,200	72,200		200
210	44.0	192.5	72,000	81,800	45.0	190.0	70,400	70,400		210
220	40.8	180.8	66,700	79,100	41.7	178.2	67,100	68,700		220
230	37.4	167.6	61,800	76,700	38.2	164.8	62,200	67,200		230
240	33.7	152.6	56,900	74,500	34.4	149.4	57,300	66,000		240
250	29.5	135.0	52,300	72,500	30.1	131.4	52,600	64,900		250
260	24.6	113.7	48,100	70,000						260
270	18.4	85.6	44,100	65,600						270

MLC300 VPC-MAX S-3

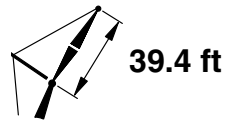
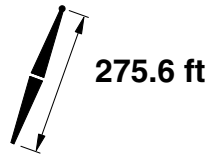
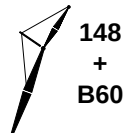
ASME B30.5

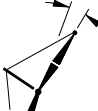
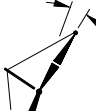
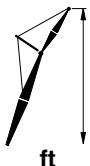
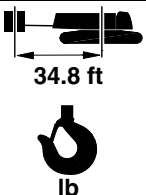
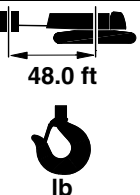
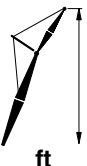
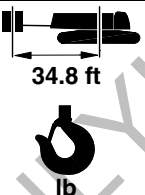
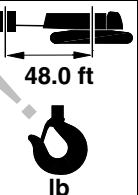


	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	ft
40	85.0	301.1	142,700b	142,700b					40
45	84.0	300.5	142,100	142,100					45
50	83.0	299.7	141,700	141,700	84.2	298.1	129,500	129,500	50
55	82.1	298.9	141,200	141,200	83.2	297.2	128,700	128,700	55
60	81.1	298.0	140,700	140,700	82.2	296.3	127,900	127,900	60
65	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	134,900	134,900	73.2	284.0	104,900	104,900	105
110	71.0	283.9	131,300	131,300	72.1	282.2	102,500	102,500	110
115	70.0	282.0	128,000	128,000	71.1	280.2	100,300	100,300	115
120	68.9	279.9	124,800	124,800	70.0	278.1	98,100	98,100	120
125	67.9	277.8	121,700	121,700	69.0	276.0	96,100	96,100	125
130	66.8	275.5	118,700	118,700	67.9	273.7	94,100	94,100	130
140	64.7	270.6	113,000	113,000	65.7	268.7	90,400	90,400	140
150	62.5	265.2	107,900	107,900	63.5	263.3	87,200	87,200	150
160	60.2	259.4	103,500	103,500	61.2	257.4	84,200	84,200	160
170	57.9	252.9	98,600	99,300	58.9	250.9	81,400	81,400	170
180	55.5	245.9	90,400	95,300	56.5	243.9	78,900	78,900	180
190	53.1	238.3	83,100	91,600	54.1	236.1	76,600	76,600	190
200	50.6	229.9	76,600	88,300	51.5	227.7	74,500	74,500	200
210	48.0	220.7	70,800	85,200	48.9	218.4	71,400	72,500	210
220	45.2	210.6	65,400	82,500	46.1	208.2	66,000	70,800	220
230	42.3	199.5	60,100	79,900	43.2	197.0	60,700	69,200	230
240	39.2	187.2	55,200	77,600	40.0	184.4	55,700	67,800	240
250	35.9	173.3	50,700	73,500	36.7	170.3	51,100	66,500	250
260	32.3	157.5	46,500	68,900	33.0	154.2	46,800	65,500	260
270	28.3	139.1	42,600	64,600	28.8	135.3	42,800	64,700	270
280	23.5	116.7	38,900	60,500					280
290	17.5	87.2	35,500	56,700					290

MLC300 VPC-MAX S-3

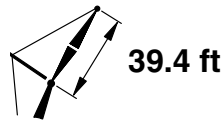
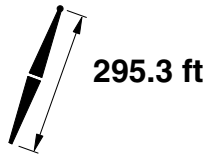
ASME B30.5



	 10°					 20°					
	 ft	 °	 ft	 34.8 ft lb	 48.0 ft lb	 °	 ft	 34.8 ft lb	 48.0 ft lb	 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	129,000	129,000	74.3	304.8	107,200	107,200		105	
110	72.2	304.9	125,400	125,400	73.3	303.1	104,800	104,800		110	
115	71.3	303.1	121,900	121,900	72.3	301.3	102,600	102,600		115	
120	70.3	301.2	118,600	118,600	71.3	299.4	100,500	100,500		120	
125	69.3	299.2	115,500	115,500	70.4	297.3	98,500	98,500		125	
130	68.3	297.1	112,500	112,500	69.4	295.2	96,500	96,500		130	
140	66.4	292.5	107,000	107,000	67.4	290.7	92,900	92,900		140	
150	64.3	287.6	102,100	102,100	65.3	285.7	89,600	89,600		150	
160	62.3	282.2	97,600	97,600	63.2	280.3	86,600	86,600		160	
170	60.2	276.3	93,600	93,600	61.1	274.3	83,900	83,900		170	
180	58.0	269.9	88,800	90,100	59.0	267.9	81,300	81,300		180	
190	55.8	263.0	81,500	87,000	56.7	260.9	78,900	78,900		190	
200	53.5	255.4	75,000	84,200	54.4	253.3	75,800	76,800		200	
210	51.2	247.2	68,900	81,700	52.1	245.0	69,800	74,800		210	
220	48.7	238.3	63,100	79,700	49.6	236.0	63,900	73,000		220	
230	46.2	228.6	57,800	77,900	47.1	226.2	58,500	71,300		230	
240	43.6	218.0	52,900	76,600	44.4	215.5	53,500	69,800		240	
250	40.8	206.3	48,400	71,800	41.5	203.6	49,000	68,400		250	
260	37.8	193.3	44,300	67,200	38.5	190.4	44,700	67,200		260	
270	34.6	178.8	40,400	62,900	35.3	175.6	40,800	63,200		270	
280	31.1	162.2	36,800	59,000	31.7	158.8	37,100	59,200		280	
290	27.2	143.0	33,400	55,200	27.7	139.0	33,600	55,400		290	
300	22.5	119.6	30,200	51,800						300	

MLC300 VPC-MAX S-3

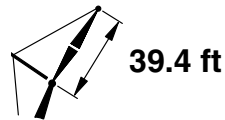
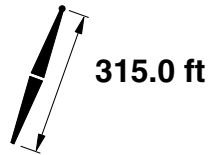
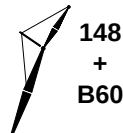
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	ft
45	84.7	340.1	135,000	135,000	84.9	337.8	118,600	118,600	45
50	83.9	339.5	134,100	134,100	84.0	337.1	118,000	118,000	50
55	83.0	338.8	133,300	133,300	83.2	336.3	117,500	117,500	55
60	82.1	338.0	132,500	132,500	82.3	335.4	117,000	117,000	60
65	81.3	337.1	131,700	131,700	81.4	334.5	116,400	116,400	65
70	80.4	336.2	130,900	130,900	80.5	333.4	115,800	115,800	70
75	79.5	335.1	130,100	130,100	79.7	332.3	115,300	115,300	75
80	78.7	334.0	129,300	129,300	78.8	331.1	114,800	114,800	80
85	77.8	332.9	128,500	128,500	77.9	329.8	113,700	113,700	85
90	76.9	331.6	127,800	127,800	77.0	328.5	110,800	110,800	90
95	76.0	330.2	124,800	124,800	76.1	327.0	108,000	108,000	95
100	75.1	328.8	121,200	121,200	75.2	325.5	105,400	105,400	100
105	74.2	327.3	117,700	117,700	74.3	323.9	102,800	102,800	105
110	73.3	325.7	114,500	114,500	73.4	322.2	100,400	100,400	110
115	72.4	324.0	111,400	111,400	72.5	320.4	98,000	98,000	115
120	71.5	322.2	108,400	108,400	71.6	318.5	95,700	95,700	120
125	70.6	320.3	105,500	105,500	70.7	316.5	93,600	93,600	125
130	69.7	318.4	102,800	102,800	68.8	312.3	89,500	89,500	130
140	67.8	314.2	97,700	97,700	66.9	307.7	85,700	85,700	140
150	66.0	309.6	93,000	93,000	65.0	302.7	82,300	82,300	150
160	64.0	304.6	88,900	88,900	63.0	297.2	79,100	79,100	160
170	62.1	299.1	85,100	85,100	61.0	291.3	76,300	76,300	170
180	60.1	293.3	81,700	81,700	59.0	284.9	73,800	73,800	180
190	58.1	286.9	78,500	78,500	56.9	277.9	71,400	71,400	190
200	56.0	280.0	74,500	75,800	54.8	270.4	69,200	69,300	200
210	53.9	272.6	68,200	73,200	52.5	262.3	63,300	67,400	210
220	51.7	264.6	62,400	71,000	50.3	253.6	57,900	65,700	220
230	49.4	255.9	57,100	68,900	47.9	244.1	53,000	64,300	230
240	47.1	246.4	52,200	67,200	45.4	233.7	48,400	63,000	240
250	44.6	236.2	47,800	65,700	42.8	222.4	44,200	62,000	250
260	42.1	225.0	43,600	64,300	40.1	209.9	40,300	61,200	260
270	39.4	212.7	39,800	62,500	37.2	196.2	36,600	58,900	270
280	36.5	199.1	36,200	58,500	34.0	180.7	33,200	55,100	280
290	33.4	184.0	32,900	54,900	30.5	163.1	30,000	51,600	290
300	30.0	166.7	29,700	51,400	26.6	142.5	26,900	48,300	300
310	26.2	146.6	26,800	48,200					310
320	21.7	122.3	23,900	45,100					320

MLC300 VPC-MAX S-3

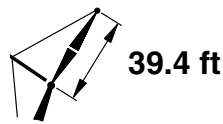
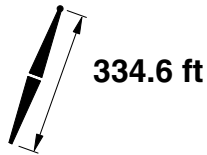
ASME B30.5



	10°				20°				
	ft	ft	ft	lb	ft	ft	lb	lb	
50	84.2	359.3	128,000	128,000	84.4	357.0	113,000	113,000	50
55	83.4	358.7	127,300	127,300	83.6	356.2	112,500	112,500	55
60	82.6	357.9	126,500	126,500	82.7	355.4	112,100	112,100	60
65	81.8	357.1	125,900	125,900	81.9	354.5	111,600	111,600	65
70	80.9	356.2	125,100	125,100	81.1	353.5	111,100	111,100	70
75	80.1	355.2	124,500	124,500	80.3	352.5	110,700	110,700	75
80	79.3	354.2	123,800	123,800	79.4	351.3	110,200	110,200	80
85	78.5	353.1	123,100	123,100	78.6	350.1	109,700	109,700	85
90	77.6	351.9	122,500	122,500	77.8	348.9	109,300	109,300	90
95	76.8	350.6	121,700	121,700	76.9	347.5	108,900	108,900	95
100	76.0	349.3	121,200	121,200	76.1	346.1	108,500	108,500	100
105	75.1	347.8	120,500	120,500	75.2	344.5	108,000	108,000	105
110	74.3	346.3	119,800	119,800	74.4	343.0	106,800	106,800	110
115	73.4	344.7	119,300	119,300	73.5	341.3	104,800	104,800	115
120	72.6	343.1	117,200	117,200	72.7	339.5	102,800	102,800	120
125	71.7	341.3	114,400	114,400	71.8	337.7	100,900	100,900	125
130	70.9	339.5	111,800	111,800	70.0	333.7	97,000	97,000	130
140	69.1	335.5	106,800	106,800	68.3	329.4	93,300	93,300	140
150	67.4	331.3	102,100	102,100	66.5	324.7	89,900	89,900	150
160	65.6	326.6	97,800	97,800	64.7	319.6	86,700	86,700	160
170	63.8	321.5	93,900	93,900	62.8	314.1	83,800	83,800	170
180	62.0	316.1	86,600	86,600	60.9	308.2	80,400	81,200	180
190	60.1	310.2	79,300	79,300	59.0	301.8	73,500	78,700	190
200	58.2	303.9	72,300	72,300	57.0	295.0	67,000	76,400	200
210	56.2	297.1	65,900	65,900	55.0	287.6	61,100	74,400	210
220	54.2	289.7	60,100	60,100	53.0	279.6	55,700	72,600	220
230	52.2	281.8	54,800	54,800	50.8	271.0	50,800	70,900	230
240	50.0	273.3	49,900	49,900	48.6	261.8	46,200	69,500	240
250	47.9	264.1	45,500	45,500	46.3	251.8	42,000	65,600	250
260	45.6	254.2	41,300	41,300	43.9	240.9	38,100	61,300	260
270	43.2	243.5	37,500	37,500	41.4	229.0	34,500	57,300	270
280	40.7	231.8	33,900	33,900	38.8	216.0	31,100	53,600	280
290	38.1	218.9	30,600	30,600	35.9	201.7	27,900	50,100	290
300	35.3	204.8	27,500	27,500	32.8	185.6	24,900	46,800	300
310	32.3	188.9	24,600	24,600	29.5	167.3	22,000	43,700	310
320	29.0	171.0	21,800	21,800					320
330	25.2	150.1	19,200	19,200					330
340	20.8	124.8	16,600	16,600					340

MLC300 VPC-MAX S-3

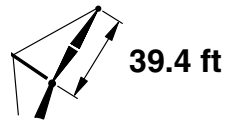
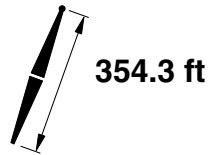
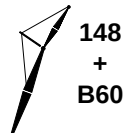
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
50	84.5	379.2	112,000	112,000	84.7	376.8	106,300	106,300	50
55	83.7	378.5	112,000	112,000	83.9	376.1	105,900	105,900	55
60	83.0	377.8	112,000	112,000	83.1	375.3	105,500	105,500	60
65	82.2	377.1	112,000	112,000	82.3	374.5	105,000	105,000	65
70	81.4	376.2	112,000	112,000	81.6	373.5	104,700	104,700	70
75	80.6	375.3	112,000	112,000	80.8	372.6	103,800	103,800	75
80	79.9	374.3	112,000	112,000	80.0	371.5	101,400	101,400	80
85	79.1	373.3	112,000	112,000	79.2	370.4	99,100	99,100	85
90	78.3	372.1	111,100	111,100	78.4	369.2	96,700	96,700	90
95	77.5	370.9	108,200	108,200	77.6	367.9	94,500	94,500	95
100	76.7	369.6	105,300	105,300	76.8	366.5	92,300	92,300	100
105	75.9	368.3	102,600	102,600	76.0	365.1	90,100	90,100	105
110	75.1	366.9	100,000	100,000	75.2	363.6	88,100	88,100	110
115	74.3	365.4	97,400	97,400	74.4	362.0	86,000	86,000	115
120	73.5	363.8	95,000	95,000	73.6	360.3	84,100	84,100	120
125	72.7	362.2	92,500	92,500	72.8	358.6	82,200	82,200	125
130	71.9	360.4	90,200	90,200	71.2	354.9	78,600	78,600	130
140	70.3	356.7	85,800	85,800	69.5	350.8	75,300	75,300	140
150	68.6	352.7	81,800	81,800	67.8	346.4	72,200	72,200	150
160	67.0	348.3	78,100	78,100	66.1	341.7	69,300	69,300	160
170	65.3	343.6	74,700	74,700	64.4	336.6	66,700	66,700	170
180	63.6	338.5	71,500	71,500	62.6	331.1	64,200	64,200	180
190	61.8	333.0	68,600	68,600	60.9	325.1	61,900	61,900	190
200	60.1	327.2	65,900	65,900	59.0	318.8	59,800	59,800	200
210	58.2	320.8	63,400	63,400	57.2	312.0	57,900	57,900	210
220	56.4	314.1	59,100	61,100	55.3	304.7	54,800	56,100	220
230	54.5	306.8	53,900	59,000	53.3	296.8	49,900	54,400	230
240	52.6	299.1	49,000	57,100	51.3	288.4	45,400	52,900	240
250	50.6	290.7	44,600	55,300	49.3	279.4	41,200	51,500	250
260	48.5	281.8	40,400	53,600	47.1	269.7	37,300	50,200	260
270	46.4	272.1	36,600	52,100	44.9	259.2	33,700	49,000	270
280	44.2	261.7	33,100	50,800	42.6	247.8	30,300	48,000	280
290	41.9	250.5	29,800	49,200	40.1	235.5	27,100	46,300	290
300	39.5	238.3	26,700	46,000	37.5	221.9	24,200	43,400	300
310	36.9	224.9	23,700	43,200	34.8	207.0	21,400	40,900	310
320	34.2	210.1	21,000	40,800	31.8	190.2	18,700	38,800	320
330	31.3	193.7	18,400	38,800	28.5	171.2	16,200	37,200	330
340	28.0	175.1	16,000	37,200					340
350	24.4	153.5	13,600	34,900					350
360	20.1	127.2	11,400	32,500					360

MLC300 VPC-MAX S-3

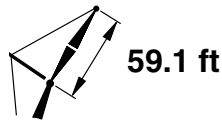
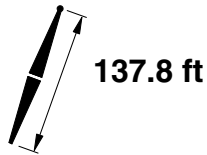
ASME B30.5

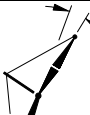
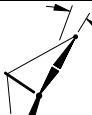
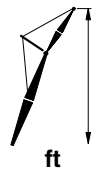
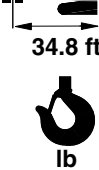
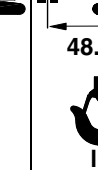
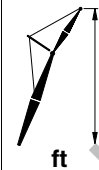
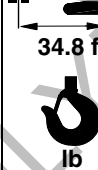
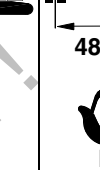


	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
50	84.8	399.0	98,800	98,800					50
55	84.1	398.4	98,800	98,800	84.9	396.6	96,000	96,000	55
60	83.3	397.7	98,800	98,800	84.2	396.0	96,000	96,000	60
65	82.6	397.0	98,800	98,800	83.5	395.2	96,000	96,000	65
70	81.9	396.2	98,800	98,800	82.7	394.4	96,000	96,000	70
75	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
140	71.3	377.7	78,800	78,800	72.2	375.9	73,500	73,500	140
150	69.8	374.0	74,800	74,800	70.6	372.1	70,000	70,000	150
160	68.2	369.8	71,000	71,000	69.0	368.0	66,700	66,700	160
170	66.6	365.4	67,600	67,600	67.4	363.5	63,700	63,700	170
180	65.0	360.6	64,400	64,400	65.8	358.7	60,900	60,900	180
190	63.4	355.5	61,500	61,500	64.2	353.5	58,400	58,400	190
200	61.7	350.0	58,700	58,700	62.5	348.0	55,900	55,900	200
210	60.0	344.1	56,300	56,300	60.8	342.1	53,700	53,700	210
220	58.3	337.8	54,000	54,000	59.1	335.8	51,700	51,700	220
230	56.6	331.1	51,600	51,900	57.3	329.0	49,800	49,800	230
240	54.8	323.9	46,700	49,900	55.5	321.8	47,700	48,000	240
250	52.9	316.3	42,300	48,200	53.7	314.0	43,200	46,500	250
260	51.1	308.1	38,200	46,600	51.8	305.8	39,000	45,000	260
270	49.1	299.3	34,400	45,200	49.8	297.0	35,100	43,700	270
280	47.1	289.9	30,800	43,800	47.8	287.5	31,500	42,500	280
290	45.1	279.8	27,500	42,700	45.7	277.3	28,200	41,400	290
300	42.9	269.0	24,400	41,600	43.6	266.4	25,000	40,600	300
310	40.7	257.2	21,500	40,800	41.3	254.5	22,000	39,700	310
320	38.3	244.5	18,800	39,800	38.9	241.6	19,300	39,100	320
330	35.9	230.6	16,200	37,500	36.4	227.6	16,600	37,700	330
340	33.2	215.3	13,800	35,600	33.7	212.1	14,100	35,700	340
350	30.3	198.3	11,500	33,400	30.8	194.7	11,800	33,600	350
360	27.2	179.0	9,300	31,000	27.6	175.0	9,500	31,100	360
370	23.6	156.6	7,200	28,700					370
380	19.4	129.4		26,500					380

MLC300 VPC-MAX S-3

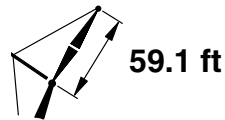
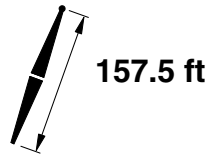
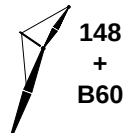
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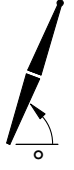
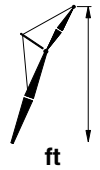
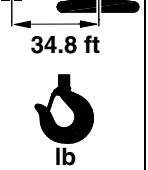
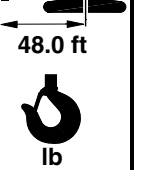
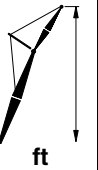
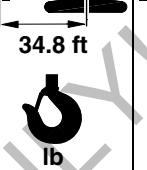
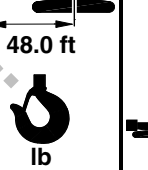


	 10°				 20°					
										
	ft	ft	ft	lb	lb	ft	ft	lb	lb	ft
45	82.5	200.3	34.8	110,500d	110,500d					45
50	81.0	199.2	48.0	107,600c	107,600c					50
55	79.5	198.0		104,900c	104,900c	82.2	195.8	84,600c	84,600c	55
60	78.0	196.6		102,200c	102,200c	80.6	194.4	80,800c	80,800c	60
65	76.5	195.1		99,700b	99,700b	79.1	192.9	77,400c	77,400c	65
70	75.0	193.4		97,200	97,200	77.5	191.2	74,200b	74,200b	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
140	51.0	151.0		58,600	58,600	53.2	148.1	48,100	48,100	140
150	46.9	140.9		55,400	55,400	49.0	137.8	46,000	46,000	150
160	42.4	129.2		52,600	52,600	44.4	125.7	44,300	44,300	160
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-3

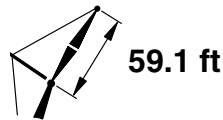
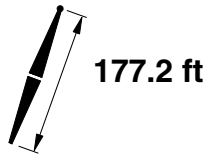
ASME B30.5



	10°					20°				
	 ft	 °	 ft	 34.8 ft lb	 48.0 ft lb	 °	 ft	 34.8 ft lb	 48.0 ft lb	 ft
40	84.5	221.2	113,900d	113,900d						40
45	83.2	220.4	111,100c	111,100c						45
50	81.8	219.4	108,500c	108,500c	84.3	217.1	90,200d	90,200d		50
55	80.5	218.2	105,900c	105,900c	82.9	216.0	86,400c	86,400c		55
60	79.1	217.0	103,500b	103,500b	81.5	214.7	82,800c	82,800c		60
65	77.8	215.6	101,200	101,200	80.1	213.3	79,500b	79,500b		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
140	55.3	177.0	62,700	62,700	57.4	174.1	50,600	50,600		140
150	51.9	168.5	59,300	59,300	53.9	165.5	48,500	48,500		150
160	48.2	158.9	56,300	56,300	50.1	155.7	46,500	46,500		160
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-3

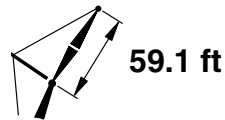
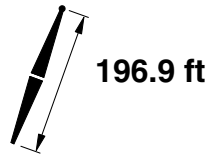
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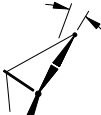
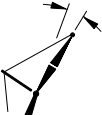
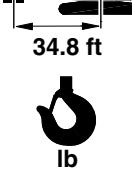
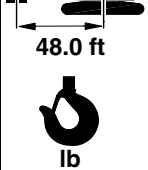
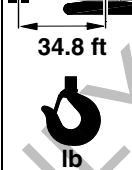
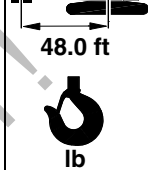
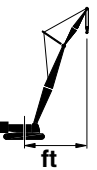


	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
40	85.0	241.1	113,600d	113,600d					40
45	83.8	240.3	111,400c	111,400c					45
50	82.5	239.4	109,000c	109,000c	84.8	237.1	91,500c	91,500c	50
55	81.3	238.4	106,700b	106,700b	83.5	236.0	87,800c	87,800c	55
60	80.1	237.2	104,400	104,400	82.2	234.9	84,400c	84,400c	60
65	78.8	236.0	102,400	102,400	81.0	233.6	81,300b	81,300b	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
140	58.7	201.4	66,500	66,500	60.6	198.6	52,900	52,900	140
150	55.7	194.1	63,000	63,000	57.6	191.2	50,700	50,700	150
160	52.6	185.9	59,900	59,900	54.4	182.8	48,700	48,700	160
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	48,500	48,500	34.8	120.6	41,700	41,700	210
220	28.2	105.9	47,000	47,000	29.2	100.3	40,900	40,900	220
230	21.5	80.3	45,700	45,700					230

MLC300 VPC-MAX S-3

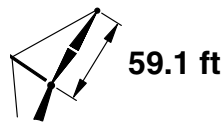
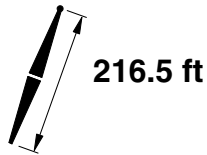
ASME B30.5

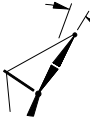
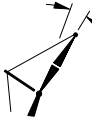
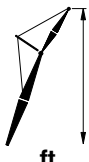
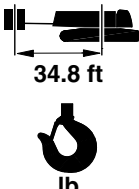
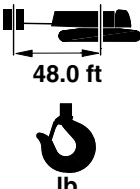
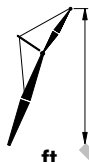
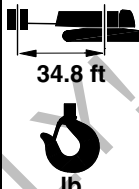
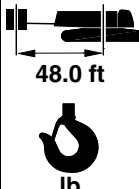


	 10°				 20°						
											
	ft	°	ft	lb	lb	ft	°	ft	lb	lb	ft
45		84.2	260.2	111,200c	111,200c						45
50		83.1	259.4	109,100c	109,100c						50
55		82.0	258.5	107,000	107,000	84.0	256.1	89,000c	89,000c		55
60		80.8	257.4	104,900	104,900	82.9	255.0	85,800b	85,800b		60
65		79.7	256.3	103,000	103,000	81.7	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
140		61.4	224.9	70,100	70,100	63.3	222.2	55,100	55,100		140
150		58.8	218.4	66,500	66,500	60.5	215.6	52,800	52,800		150
160		56.0	211.2	63,300	63,300	57.7	208.2	50,800	50,800		160
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	55,400	55,400	48.6	181.0	45,800	45,800		190
200		43.7	173.4	53,300	53,300	45.2	169.7	44,500	44,500		200
210		40.1	160.9	51,300	51,300	41.5	156.9	43,300	43,300		210
220		36.2	146.5	49,600	49,600	37.5	142.2	42,300	42,300		220
230		31.8	129.7	48,000	48,000	33.0	124.8	41,400	41,400		230
240		26.7	109.3	46,700	46,700						240
250		20.3	82.2	45,600	45,600						250

MLC300 VPC-MAX S-3

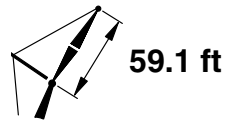
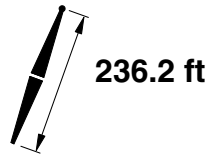
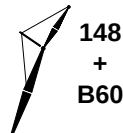
ASME B30.5



	 10°				 20°					
	 ft	 °	 ft	 34.8 ft  lb	 48.0 ft  lb	 °	 ft	 34.8 ft  lb		 48.0 ft  lb
45	84.7	280.1	110,700 ^c	110,700 ^c						45
50	83.6	279.3	108,800 ^b	108,800 ^b						50
55	82.6	278.5	106,900	106,900	84.5	276.0	90,100 ^c	90,100 ^c		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
140	63.7	247.7	73,400	73,400	65.4	245.0	57,000	57,000		140
150	61.3	241.9	69,800	69,800	63.0	239.0	54,800	54,800		150
160	58.8	235.4	66,500	66,500	60.5	232.5	52,700	52,700		160
170	56.3	228.3	63,500	63,500	57.9	225.3	50,900	50,900		170
180	53.6	220.4	60,800	60,800	55.2	217.3	49,200	49,200		180
190	50.9	211.8	58,300	58,300	52.4	208.6	47,600	47,600		190
200	48.0	202.3	56,100	56,100	49.5	198.9	46,200	46,200		200
210	45.0	191.8	54,100	54,100	46.4	188.2	44,900	44,900		210
220	41.8	180.0	52,200	52,200	43.2	176.2	43,700	43,700		220
230	38.4	166.8	50,500	50,500	39.6	162.6	42,700	42,700		230
240	34.6	151.7	49,000	49,000	35.8	147.0	41,900	41,900		240
250	30.4	134.0	47,600	47,600	31.4	128.7	41,200	41,200		250
260	25.4	112.5	46,400	46,400						260
270	19.2	83.9	45,400	45,400						270

MLC300 VPC-MAX S-3

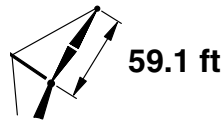
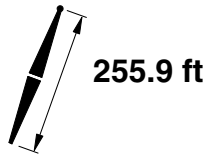
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
50	84.0	299.2	104,700	104,700					50
55	83.1	298.4	103,100	103,100	84.8	296.0	90,800b	90,800b	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
140	65.6	270.1	77,300	77,300	67.2	267.3	59,300	59,300	140
150	63.4	264.7	73,600	73,600	65.0	261.9	57,000	57,000	150
160	61.2	258.8	70,200	70,200	62.7	255.9	54,900	54,900	160
170	58.9	252.3	67,100	67,100	60.4	249.4	53,000	53,000	170
180	56.5	245.3	64,300	64,300	58.0	242.3	51,200	51,200	180
190	54.0	237.6	61,700	61,700	55.5	234.5	49,600	49,600	190
200	51.5	229.2	59,400	59,400	52.9	226.0	48,200	48,200	200
210	48.9	220.0	57,200	57,200	50.3	216.6	46,800	46,800	210
220	46.1	209.9	55,200	55,200	47.5	206.4	45,600	45,600	220
230	43.2	198.8	53,400	53,400	44.5	195.0	44,500	44,500	230
240	40.1	186.4	51,700	51,700	41.4	182.3	43,500	43,500	240
250	36.8	172.4	50,100	50,100	37.9	168.0	42,600	42,600	250
260	33.2	156.6	48,800	48,800	34.2	151.7	41,800	41,800	260
270	29.1	138.0	46,700	47,500	30.0	132.4	41,200	41,200	270
280	24.3	115.4	43,000	46,500					280

MLC300 VPC-MAX S-3

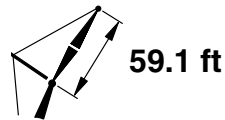
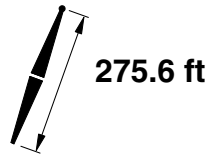
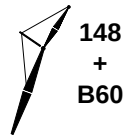
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	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
140	67.3	292.0	79,900	79,900	68.8	289.2	60,800	60,800	140
150	65.2	287.0	76,200	76,200	66.7	284.2	58,500	58,500	150
160	63.2	281.6	72,700	72,700	64.7	278.8	56,400	56,400	160
170	61.1	275.7	69,600	69,600	62.5	272.8	54,500	54,500	170
180	58.9	269.3	66,700	66,700	60.3	266.3	52,800	52,800	180
190	56.7	262.4	64,100	64,100	58.1	259.3	51,100	51,100	190
200	54.4	254.8	61,700	61,700	55.8	251.6	49,600	49,600	200
210	52.1	246.6	59,500	59,500	53.4	243.3	48,200	48,200	210
220	49.6	237.7	57,500	57,500	50.9	234.2	47,000	47,000	220
230	47.1	227.9	55,600	55,600	48.4	224.3	45,800	45,800	230
240	44.4	217.2	53,900	53,900	45.6	213.5	44,800	44,800	240
250	41.6	205.5	52,300	52,300	42.8	201.5	43,800	43,800	250
260	38.6	192.4	49,000	50,800	39.7	188.2	43,000	43,000	260
270	35.4	177.8	45,100	49,500	36.4	173.2	42,200	42,200	270
280	31.9	161.2	41,400	48,300	32.8	156.1	41,600	41,600	280
290	27.9	141.8	38,000	47,200	28.7	135.9	38,300	41,100	290
300	23.3	118.2	34,700	46,300					300

MLC300 VPC-MAX S-3

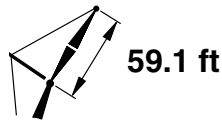
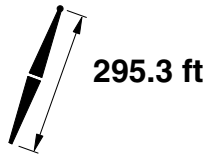
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	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
140	68.7	313.6	82,600	82,600	70.1	310.9	62,200	62,200	140
150	66.8	309.0	78,800	78,800	68.2	306.2	60,000	60,000	150
160	64.9	304.0	75,300	75,300	66.3	301.2	57,900	57,900	160
170	63.0	298.6	72,100	72,100	64.3	295.7	56,000	56,000	170
180	61.0	292.7	69,200	69,200	62.3	289.7	54,200	54,200	180
190	58.9	286.3	66,600	66,600	60.3	283.3	52,600	52,600	190
200	56.9	279.4	64,200	64,200	58.2	276.3	51,100	51,100	200
210	54.7	271.9	61,900	61,900	56.0	268.8	49,700	49,700	210
220	52.5	263.9	59,800	59,800	53.8	260.6	48,400	48,400	220
230	50.3	255.2	57,900	57,900	51.5	251.8	47,200	47,200	230
240	47.9	245.7	55,400	56,100	49.1	242.2	46,100	46,100	240
250	45.5	235.4	50,900	54,500	46.6	231.7	45,100	45,100	250
260	42.9	224.2	46,700	52,900	44.0	220.3	44,200	44,200	260
270	40.2	211.9	42,800	51,500	41.2	207.7	43,300	43,300	270
280	37.3	198.2	39,200	50,200	38.3	193.8	39,800	42,600	280
290	34.1	183.0	35,800	49,000	35.1	178.1	36,300	42,000	290
300	30.7	165.6	32,600	47,900	31.5	160.2	33,000	41,400	300
310	26.9	145.4	29,600	46,900					310
320	22.3	120.8	26,700	46,100					320

MLC300 VPC-MAX S-3

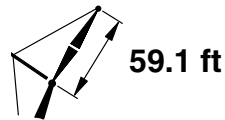
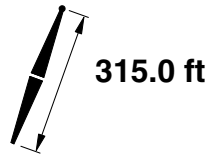
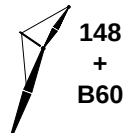
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
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
140	70.0	335.0	78,300	78,300	71.3	332.2	63,400	63,400	140
150	68.2	330.7	74,700	74,700	69.5	327.9	61,200	61,200	150
160	66.4	326.0	71,400	71,400	67.7	323.2	59,200	59,200	160
170	64.6	321.0	68,300	68,300	65.9	318.1	57,300	57,300	170
180	62.8	315.5	65,600	65,600	64.1	312.6	55,500	55,500	180
190	60.9	309.6	63,000	63,000	62.2	306.6	53,900	53,900	190
200	59.0	303.2	60,700	60,700	60.2	300.2	52,400	52,400	200
210	57.0	296.4	58,600	58,600	58.3	293.3	51,000	51,000	210
220	55.0	289.1	56,700	56,700	56.2	285.9	49,700	49,700	220
230	52.9	281.1	55,000	55,000	54.1	277.8	48,500	48,500	230
240	50.8	272.6	53,400	53,400	52.0	269.2	47,300	47,300	240
250	48.6	263.4	50,100	52,000	49.8	259.9	46,300	46,300	250
260	46.3	253.5	46,000	50,700	47.5	249.8	45,300	45,300	260
270	44.0	242.7	42,100	49,700	45.0	238.8	42,900	44,500	270
280	41.5	230.9	38,500	48,800	42.5	226.9	39,200	43,700	280
290	38.8	218.0	35,100	48,200	39.8	213.7	35,800	42,900	290
300	36.0	203.8	32,000	47,600	36.9	199.2	32,500	42,300	300
310	33.0	187.9	29,000	47,300	33.8	182.9	29,500	41,700	310
320	29.7	169.9	26,200	46,800	30.4	164.2	26,500	41,300	320
330	25.9	148.8	23,500	43,900					330
340	21.4	123.2	21,000	41,200					340

MLC300 VPC-MAX S-3

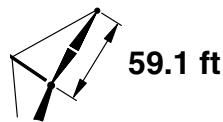
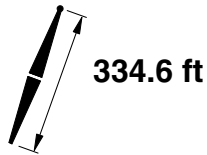
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	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
140	71.1	356.2	83,400	83,400	72.4	353.4	64,900	64,900	140
150	69.4	352.1	81,000	81,000	70.7	349.3	62,800	62,800	150
160	67.7	347.8	77,700	77,700	69.0	344.9	60,700	60,700	160
170	66.1	343.0	74,600	74,600	67.3	340.2	58,800	58,800	170
180	64.3	337.9	71,800	71,800	65.6	335.0	57,000	57,000	180
190	62.6	332.4	69,200	69,200	63.8	329.5	55,400	55,400	190
200	60.8	326.5	66,700	66,700	62.0	323.5	53,900	53,900	200
210	59.0	320.2	64,600	64,600	60.2	317.1	52,500	52,500	210
220	57.1	313.4	62,500	62,500	58.3	310.3	51,100	51,100	220
230	55.3	306.2	57,300	60,700	56.4	302.9	49,900	49,900	230
240	53.3	298.4	52,400	59,000	54.4	295.1	48,700	48,700	240
250	51.3	290.0	47,900	57,500	52.4	286.6	47,600	47,600	250
260	49.3	281.0	43,700	56,100	50.3	277.5	44,800	46,600	260
270	47.1	271.4	39,800	54,900	48.2	267.7	40,800	45,700	270
280	44.9	260.9	36,200	53,800	45.9	257.1	37,100	44,900	280
290	42.6	249.7	32,900	52,700	43.6	245.7	33,700	44,100	290
300	40.2	237.4	29,700	51,500	41.1	233.2	30,400	43,300	300
310	37.6	224.0	26,800	48,300	38.5	219.5	27,400	42,600	310
320	34.9	209.2	24,000	45,200	35.7	204.4	24,500	42,100	320
330	31.9	192.6	21,400	42,400	32.7	187.4	21,800	41,600	330
340	28.7	173.9	18,900	39,700	29.3	168.1	19,200	39,900	340
350	25.0	152.1	16,500	37,100					350
360	20.7	125.5	14,200	34,600					360

MLC300 VPC-MAX S-3

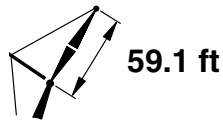
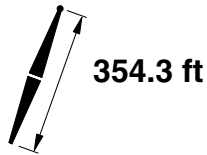
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	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
140	72.1	377.2	69,600	69,600	73.3	374.4	62,600	62,600	140
150	70.5	373.4	66,400	66,400	71.7	370.6	60,000	60,000	150
160	68.9	369.3	63,400	63,400	70.1	366.4	57,600	57,600	160
170	67.3	364.8	60,700	60,700	68.5	361.9	55,500	55,500	170
180	65.7	360.0	58,200	58,200	66.9	357.1	53,400	53,400	180
190	64.1	354.9	55,800	55,800	65.3	351.9	51,500	51,500	190
200	62.4	349.4	53,600	53,600	63.6	346.4	49,600	49,600	200
210	60.7	343.5	51,600	51,600	61.9	340.4	47,900	47,900	210
220	59.0	337.2	49,700	49,700	60.2	334.1	46,400	46,400	220
230	57.3	330.4	47,900	47,900	58.4	327.3	44,900	44,900	230
240	55.5	323.2	46,300	46,300	56.6	320.0	43,500	43,500	240
250	53.6	315.6	44,800	44,800	54.7	312.2	42,300	42,300	250
260	51.8	307.3	42,700	43,400	52.8	303.9	41,200	41,200	260
270	49.8	298.6	38,900	42,200	50.9	295.0	40,000	40,000	270
280	47.8	289.1	35,300	41,000	48.8	285.5	36,300	39,100	280
290	45.8	279.0	31,900	39,900	46.7	275.3	32,800	38,200	290
300	43.6	268.1	28,800	38,900	44.6	264.2	29,600	37,400	300
310	41.4	256.4	25,900	38,100	42.3	252.3	26,600	36,600	310
320	39.0	243.6	23,100	37,300	39.9	239.3	23,800	36,000	320
330	36.5	229.7	20,500	36,600	37.3	225.0	21,100	35,500	330
340	33.8	214.3	18,000	36,000	34.6	209.3	18,500	35,100	340
350	31.0	197.2	15,700	35,000	31.6	191.8	16,100	34,800	350
360	27.8	177.8	13,500	33,700	28.4	171.7	13,700	33,700	360
370	24.2	155.2	11,300	31,800					370
380	19.9	127.6	9,200	29,600					380

MLC300 VPC-MAX S-3

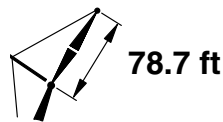
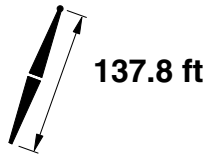
ASME B30.5



	10°				20°				
	ft	°	ft	lb	ft	°	lb	ft	
60	84.4	417.0	84,400	84,400	84.9	413.7	79,900	79,900	60
65	83.7	416.3	84,400	84,400	84.2	412.9	79,900	79,900	65
70	83.0	415.6	84,400	84,400	83.5	412.1	79,900	79,900	70
75	82.3	414.7	84,400	84,400	82.8	411.2	79,900	79,900	75
80	81.6	413.8	84,400	84,400	82.1	410.2	78,900	78,900	80
85	80.8	412.9	84,400	84,400	81.4	409.2	77,100	77,100	85
90	80.1	411.9	84,400	84,400	80.7	408.1	75,300	75,300	90
95	79.4	410.8	84,400	84,400	80.0	407.0	73,500	73,500	95
100	78.7	409.6	82,100	82,100	79.2	405.7	71,800	71,800	100
105	78.0	408.4	80,000	80,000	78.5	404.4	70,100	70,100	105
110	77.3	407.2	77,800	77,800	77.8	403.1	68,500	68,500	110
115	76.6	405.8	75,700	75,700	77.1	401.7	66,800	66,800	115
120	75.9	404.4	73,700	73,700	76.3	400.2	65,300	65,300	120
125	75.1	402.9	71,800	71,800	75.6	398.6	63,700	63,700	125
130	74.4	401.4	69,900	69,900	74.1	395.3	60,800	60,800	130
140	73.0	398.0	66,300	66,300	72.7	391.7	58,100	58,100	140
150	71.5	394.5	63,000	63,000	71.2	387.7	55,500	55,500	150
160	70.0	390.6	59,900	59,900	69.6	383.5	53,100	53,100	160
170	68.5	386.4	57,100	57,100	68.1	379.0	50,800	50,800	170
180	67.0	381.9	54,400	54,400	66.6	374.1	48,700	48,700	180
190	65.4	377.0	52,000	52,000	65.0	368.9	46,800	46,800	190
200	63.9	371.8	49,700	49,700	63.4	363.3	44,900	44,900	200
210	62.3	366.3	47,600	47,600	61.8	357.4	43,200	43,200	210
220	60.7	360.4	45,700	45,700	60.1	351.0	41,600	41,600	220
230	59.0	354.1	43,900	43,900	58.4	344.3	40,100	40,100	230
240	57.4	347.4	42,200	42,200	56.7	337.1	38,700	38,700	240
250	55.7	340.3	40,700	40,700	55.0	329.4	37,500	37,500	250
260	53.9	332.7	39,200	39,200	53.2	321.2	36,400	36,400	260
270	52.2	324.6	36,600	37,900	51.3	312.5	34,200	35,300	270
280	50.3	316.0	33,100	36,800	49.4	303.2	30,700	34,400	280
290	48.4	306.8	29,700	35,700	47.4	293.2	27,500	33,400	290
300	46.5	297.0	26,600	34,700	45.4	282.5	24,500	32,700	300
310	44.5	286.4	23,700	33,800	43.3	271.1	21,700	32,000	310
320	42.4	275.1	20,900	33,100	41.1	258.6	19,000	31,500	320
330	40.2	262.9	18,300	32,400	38.7	245.2	16,500	30,900	330
340	37.9	249.6	15,900	31,800	36.2	230.4	14,100	30,600	340
350	35.5	235.2	13,600	31,400	33.6	214.1	11,800	30,400	350
360	32.9	219.3	11,300	31,100	30.7	195.9	9,600	30,400	360
370	30.0	201.6	9,200	30,300					370
380	26.9	181.5	7,200	28,100					380
390	23.4	158.2		26,000					390
400	19.2	129.6		24,000					400

MLC300 VPC-MAX S-3

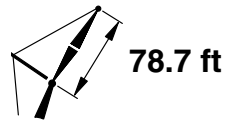
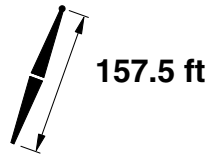
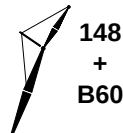
ASME B30.5

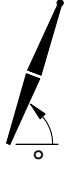
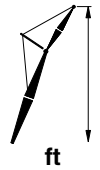
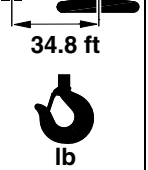
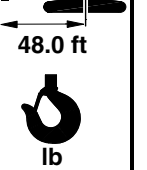
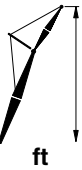
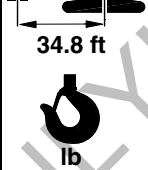
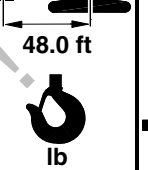


	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
55	81.4	218.2	79,900c	79,900c					55
60	80.0	217.0	77,900c	77,900c					60
65	78.7	215.6	76,100b	76,100b	81.9	213.0	63,100c	63,100c	65
70	77.3	214.1	74,300	74,300	80.5	211.5	60,300c	60,300c	70
75	75.9	212.5	72,600	72,600	79.1	209.9	57,800b	57,800b	75
80	74.5	210.7	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
140	56.2	176.9	46,900	46,900	59.1	173.8	37,800	37,800	140
150	52.8	168.5	44,200	44,200	55.6	165.2	35,900	35,900	150
160	49.1	158.9	41,700	41,700	51.8	155.4	34,200	34,200	160
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-3

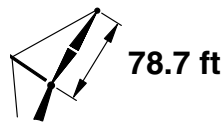
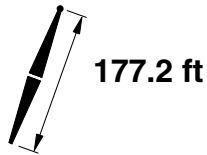
ASME B30.5



	10°					20°				
	 ft	 °	 ft	 34.8 ft lb	 48.0 ft lb	 °	 ft	 34.8 ft lb	 48.0 ft lb	 ft
45	84.6	240.3	84,100d	84,100d						45
50	83.4	239.4	82,200c	82,200c						50
55	82.1	238.3	80,400c	80,400c						55
60	80.9	237.2	78,600b	78,600b	83.9	234.6	67,200c	67,200c		60
65	79.6	236.0	76,900	76,900	82.6	233.3	64,300c	64,300c		65
70	78.4	234.6	75,300	75,300	81.3	231.9	61,700b	61,700b		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
140	59.5	201.4	49,900	49,900	62.2	198.2	39,600	39,600		140
150	56.5	194.0	47,100	47,100	59.1	190.8	37,700	37,700		150
160	53.4	185.8	44,500	44,500	56.0	182.4	36,100	36,100		160
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-3

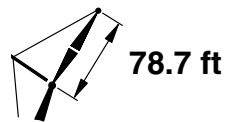
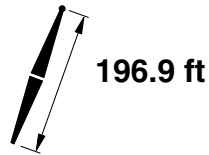
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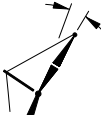
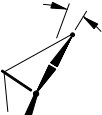
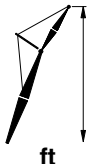
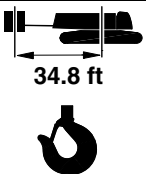
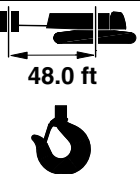
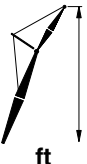
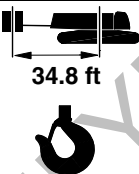
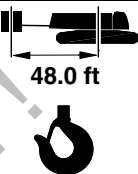


	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
45	85.0	260.2	84,100d	84,100d					45
50	83.9	259.3	82,300c	82,300c					50
55	82.7	258.4	80,600c	80,600c					55
60	81.6	257.3	79,100b	79,100b	84.3	254.6	68,100c	68,100c	60
65	80.4	256.2	77,500	77,500	83.2	253.4	65,400c	65,400c	65
70	79.3	254.9	76,000	76,000	82.0	252.2	62,900b	62,900b	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
140	62.2	224.9	52,800	52,800	64.7	221.7	41,300	41,300	140
150	59.5	218.3	49,900	49,900	62.0	215.1	39,500	39,500	150
160	56.8	211.1	47,300	47,300	59.2	207.7	37,800	37,800	160
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-3

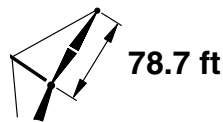
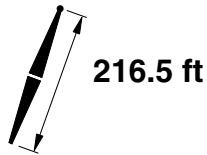
ASME B30.5



	 10°				 20°					
	 ft	 °	 ft	 34.8 ft lb	 48.0 ft lb	 °	 ft	 34.8 ft lb		 48.0 ft lb
50	84.3	279.3	82,200c	82,200c						50
55	83.3	278.4	80,600b	80,600b						55
60	82.2	277.4	79,200	79,200	84.8	274.6	68,900c	68,900c		60
65	81.1	276.4	77,800	77,800	83.7	273.5	66,400b	66,400b		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
140	64.4	247.7	55,500	55,500	66.7	244.5	42,900	42,900		140
150	62.0	241.8	52,500	52,500	64.3	238.5	41,000	41,000		150
160	59.5	235.3	49,900	49,900	61.8	231.9	39,300	39,300		160
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	34,400	34,400	32.6	127.7	29,500	29,500		250
260	26.1	112.3	33,400	33,400						260
270	19.8	83.6	32,600	32,600						270

MLC300 VPC-MAX S-3

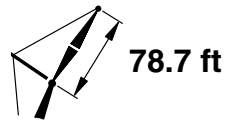
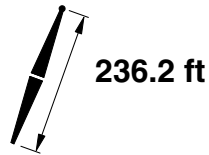
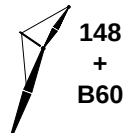
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
50	84.7	299.2	81,800c	81,800c					50
55	83.7	298.3	80,500b	80,500b					55
60	82.7	297.4	79,100	79,100					60
65	81.7	296.5	77,800	77,800	84.1	293.5	67,100b	67,100b	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
140	66.3	270.0	58,000	58,000	68.5	266.8	44,400	44,400	140
150	64.1	264.6	55,000	55,000	66.2	261.3	42,400	42,400	150
160	61.8	258.7	52,200	52,200	64.0	255.3	40,700	40,700	160
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	38,800	38,800	45.7	194.2	32,100	32,100	230
240	40.8	186.2	37,500	37,500	42.5	181.5	31,200	31,200	240
250	37.4	172.3	36,200	36,200	39.1	167.1	30,500	30,500	250
260	33.8	156.4	35,100	35,100	35.3	150.7	29,800	29,800	260
270	29.7	137.8	34,100	34,100	31.0	131.2	29,300	29,300	270
280	24.9	115.2	33,200	33,200					280
290	18.8	85.1	32,500	32,500					290

MLC300 VPC-MAX S-3

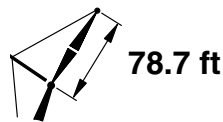
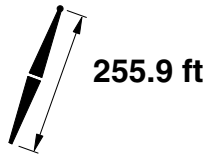
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	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
140	67.9	291.9	60,400	60,400	70.0	288.7	45,700	45,700	140
150	65.8	286.9	57,400	57,400	67.9	283.6	43,800	43,800	150
160	63.8	281.5	54,500	54,500	65.8	278.2	42,100	42,100	160
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	42,300	42,300	52.1	233.5	34,300	34,300	220
230	47.7	227.8	40,700	40,700	49.5	223.6	33,300	33,300	230
240	45.0	217.1	39,300	39,300	46.7	212.7	32,400	32,400	240
250	42.2	205.3	38,000	38,000	43.9	200.7	31,600	31,600	250
260	39.2	192.3	36,900	36,900	40.8	187.3	30,900	30,900	260
270	36.0	177.7	35,800	35,800	37.5	172.2	30,200	30,200	270
280	32.5	161.0	34,800	34,800	33.8	155.0	29,700	29,700	280
290	28.5	141.6	33,800	33,800	29.7	134.6	29,200	29,200	290
300	23.8	117.9	33,100	33,100					300

MLC300 VPC-MAX S-3

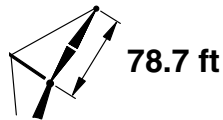
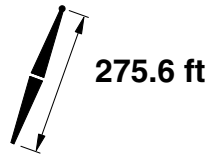
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	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
140	69.3	313.5	62,300	62,300	71.2	310.2	46,800	46,800	140
150	67.4	308.9	59,200	59,200	69.3	305.6	45,000	45,000	150
160	65.5	303.9	56,500	56,500	67.4	300.5	43,200	43,200	160
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	45,600	45,600	57.1	268.0	36,400	36,400	210
220	53.1	263.8	44,000	44,000	54.9	259.9	35,400	35,400	220
230	50.8	255.0	42,500	42,500	52.5	251.0	34,400	34,400	230
240	48.5	245.6	41,000	41,000	50.2	241.4	33,500	33,500	240
250	46.0	235.3	39,700	39,700	47.7	230.9	32,600	32,600	250
260	43.4	224.0	38,400	38,400	45.0	219.4	31,900	31,900	260
270	40.7	211.7	37,300	37,300	42.2	206.8	31,200	31,200	270
280	37.8	198.1	36,300	36,300	39.3	192.8	30,500	30,500	280
290	34.7	182.8	35,300	35,300	36.0	177.1	30,000	30,000	290
300	31.3	165.4	34,400	34,400	32.5	159.0	29,500	29,500	300
310	27.4	145.2	33,600	33,600	28.4	137.8	29,100	29,100	310
320	22.8	120.5	30,900	32,900					320

MLC300 VPC-MAX S-3

ASME B30.5



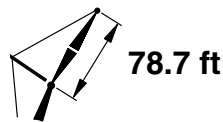
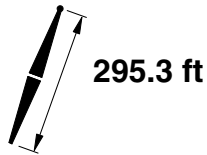
	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
55	84.8	358.0	78,100	78,100					55
60	84.0	357.3	77,200	77,200					60
65	83.1	356.5	76,300	76,300					65
70	82.3	355.6	75,300	75,300	84.3	352.5	66,700	66,700	70
75	81.5	354.6	74,400	74,400	83.5	351.5	64,900	64,900	75
80	80.7	353.6	73,600	73,600	82.6	350.5	63,100	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
140	70.5	334.9	64,100	64,100	72.4	331.6	47,900	47,900	140
150	68.7	330.6	61,200	61,200	70.6	327.2	46,000	46,000	150
160	66.9	325.9	58,400	58,400	68.8	322.5	44,400	44,400	160
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	51,300	51,300	63.2	305.9	39,900	39,900	190
200	59.5	303.1	49,300	49,300	61.2	299.5	38,700	38,700	200
210	57.5	296.3	47,500	47,500	59.3	292.6	37,500	37,500	210
220	55.5	288.9	45,800	45,800	57.2	285.1	36,500	36,500	220
230	53.5	281.0	44,200	44,200	55.1	277.1	35,400	35,400	230
240	51.4	272.5	42,700	42,700	53.0	268.4	34,500	34,500	240
250	49.2	263.3	41,400	41,400	50.8	259.1	33,700	33,700	250
260	46.9	253.3	40,100	40,100	48.4	248.9	32,900	32,900	260
270	44.5	242.5	38,900	38,900	46.0	237.9	32,100	32,100	270
280	42.0	230.7	37,800	37,800	43.5	225.9	31,400	31,400	280
290	39.4	217.8	36,700	36,700	40.8	212.7	30,800	30,800	290
300	36.5	203.6	34,600	35,800	37.9	198.1	30,200	30,200	300
310	33.5	187.7	31,600	34,900	34.7	181.7	29,800	29,800	310
320	30.2	169.6	28,800	34,200	31.3	162.9	29,300	29,300	320
330	26.4	148.6	26,100	33,500					330
340	21.9	122.9	23,500	32,800					340

MLC300 VPC-MAX S-3

ASME B30.5



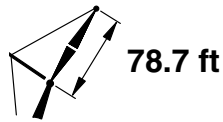
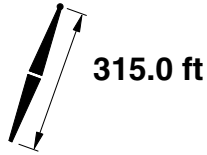
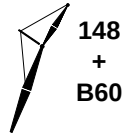
474,100 lb



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
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
140	71.6	356.0	61,600	61,600	73.4	352.7	49,400	49,400	140
150	69.9	352.0	60,300	60,300	71.7	348.7	47,500	47,500	150
160	68.3	347.6	59,100	59,100	70.0	344.2	45,800	45,800	160
170	66.6	342.9	57,900	57,900	68.3	339.5	44,200	44,200	170
180	64.8	337.8	55,800	55,800	66.5	334.3	42,700	42,700	180
190	63.1	332.3	53,600	53,600	64.8	328.8	41,400	41,400	190
200	61.3	326.4	51,600	51,600	63.0	322.8	40,100	40,100	200
210	59.5	320.1	49,700	49,700	61.1	316.4	38,900	38,900	210
220	57.7	313.3	47,900	47,900	59.3	309.5	37,800	37,800	220
230	55.8	306.0	46,300	46,300	57.4	302.2	36,800	36,800	230
240	53.8	298.2	44,800	44,800	55.4	294.3	35,800	35,800	240
250	51.8	289.8	43,300	43,300	53.4	285.8	34,900	34,900	250
260	49.8	280.9	42,000	42,000	51.3	276.7	34,100	34,100	260
270	47.6	271.2	40,800	40,800	49.1	266.8	33,400	33,400	270
280	45.4	260.8	39,700	39,700	46.9	256.2	32,600	32,600	280
290	43.1	249.5	37,000	38,600	44.5	244.7	31,900	31,900	290
300	40.7	237.2	33,800	37,500	42.0	232.2	31,300	31,300	300
310	38.1	223.8	30,900	36,700	39.4	218.4	30,800	30,800	310
320	35.4	208.9	28,100	35,700	36.6	203.2	28,800	30,300	320
330	32.4	192.4	25,400	34,900	33.5	186.1	26,000	29,800	330
340	29.2	173.6	22,900	34,200	30.1	166.6	23,400	29,400	340
350	25.5	151.8	20,500	33,600					350
360	21.1	125.1	18,200	33,000					360

MLC300 VPC-MAX S-3

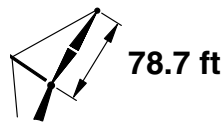
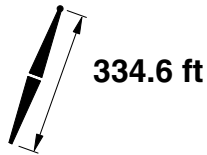
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	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
140	72.5	377.0	61,600	61,600	74.2	373.7	50,400	50,400	140
150	71.0	373.2	60,500	60,500	72.7	369.9	48,600	48,600	150
160	69.4	369.1	59,400	59,400	71.1	365.7	46,900	46,900	160
170	67.8	364.7	58,300	58,300	69.5	361.2	45,300	45,300	170
180	66.2	359.9	57,200	57,200	67.8	356.4	43,900	43,900	180
190	64.6	354.7	55,600	55,600	66.2	351.2	42,500	42,500	190
200	62.9	349.2	53,400	53,400	64.5	345.6	41,200	41,200	200
210	61.2	343.3	51,600	51,600	62.8	339.7	40,000	40,000	210
220	59.5	337.0	49,800	49,800	61.1	333.3	38,900	38,900	220
230	57.7	330.3	48,100	48,100	59.3	326.5	37,900	37,900	230
240	56.0	323.1	46,600	46,600	57.5	319.2	36,900	36,900	240
250	54.1	315.4	45,100	45,100	55.6	311.4	35,900	35,900	250
260	52.2	307.2	43,700	43,700	53.7	303.1	35,100	35,100	260
270	50.3	298.4	41,700	42,500	51.7	294.2	34,300	34,300	270
280	48.3	289.0	38,100	41,200	49.7	284.6	33,600	33,600	280
290	46.2	278.8	34,700	40,100	47.6	274.3	32,800	32,800	290
300	44.1	268.0	31,600	39,100	45.4	263.2	32,200	32,200	300
310	41.8	256.2	28,600	38,100	43.1	251.2	29,600	31,600	310
320	39.5	243.4	25,900	37,200	40.7	238.2	26,700	31,100	320
330	37.0	229.4	23,200	36,300	38.2	223.9	24,000	30,500	330
340	34.3	214.1	20,700	35,500	35.4	208.1	21,400	30,100	340
350	31.4	196.9	18,400	34,700	32.4	190.4	18,900	29,700	350
360	28.2	177.5	16,100	34,100	29.1	170.2	16,500	29,400	360
370	24.6	154.9	13,900	33,500					370
380	20.4	127.2	11,800	31,600					380

MLC300 VPC-MAX S-3

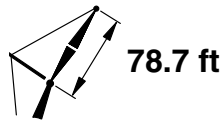
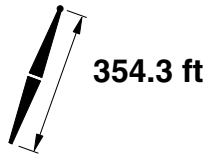
ASME B30.5

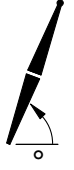
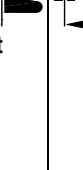
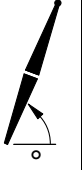
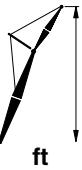


	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
60	84.8	416.9	69,800	69,800					60
65	84.1	416.2	69,200	69,200					65
70	83.4	415.4	68,600	68,600					70
75	82.7	414.6	68,000	68,000	84.4	411.4	61,200	61,200	75
80	82.0	413.7	67,500	67,500	83.7	410.5	60,800	60,800	80
85	81.3	412.8	66,800	66,800	83.0	409.5	60,400	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
140	73.4	397.9	59,900	59,900	75.0	394.6	50,800	50,800	140
150	71.9	394.3	57,200	57,200	73.5	390.9	49,100	49,100	150
160	70.5	390.4	54,600	54,600	72.0	387.0	47,400	47,400	160
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	47,900	47,900	67.4	373.3	43,100	43,100	190
200	64.3	371.7	46,000	46,000	65.9	368.1	41,900	41,900	200
210	62.7	366.2	44,200	44,200	64.3	362.5	40,500	40,500	210
220	61.1	360.3	42,500	42,500	62.6	356.6	39,200	39,200	220
230	59.5	354.0	41,000	41,000	61.0	350.2	37,900	37,900	230
240	57.8	347.3	39,500	39,500	59.3	343.5	36,700	36,700	240
250	56.1	340.2	38,200	38,200	57.6	336.2	35,600	35,600	250
260	54.4	332.6	36,900	36,900	55.8	328.6	34,500	34,500	260
270	52.6	324.5	35,800	35,800	54.0	320.4	33,600	33,600	270
280	50.8	315.8	34,700	34,700	52.2	311.6	32,700	32,700	280
290	48.9	306.6	33,700	33,700	50.2	302.3	31,800	31,800	290
300	46.9	296.8	30,600	32,800	48.3	292.3	31,100	31,100	300
310	44.9	286.2	27,600	31,900	46.2	281.6	28,700	30,400	310
320	42.8	274.9	24,900	31,200	44.1	270.0	25,900	29,800	320
330	40.6	262.7	22,300	30,500	41.9	257.6	23,200	29,200	330
340	38.3	249.4	19,800	29,800	39.5	244.0	20,600	28,700	340
350	35.9	234.9	17,500	29,300	37.0	229.2	18,200	28,300	350
360	33.3	219.0	15,200	28,900	34.3	212.8	15,800	28,000	360
370	30.5	201.3	13,100	28,600	31.4	194.5	13,600	27,800	370
380	27.4	181.2	11,100	28,400	28.2	173.6	11,400	27,800	380
390	23.8	157.8	9,100	28,300					390
400	19.6	129.2	7,200	26,900					400

MLC300 VPC-MAX S-3

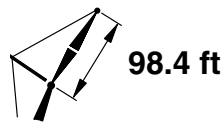
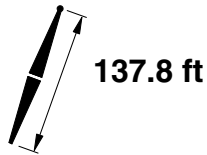
ASME B30.5

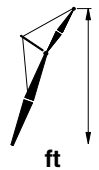
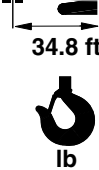
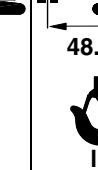
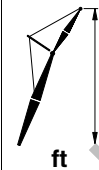
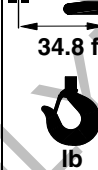
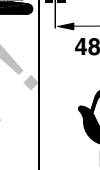


	10°					20°				
										
	ft	°	ft	34.8 ft lb	48.0 ft lb	°	ft	lb	lb	ft
65	84.4		436.1	67,800	67,800					65
70	83.7		435.3	67,300	67,300					70
75	83.1		434.5	66,800	66,800	84.7	431.3	60,300	60,300	75
80	82.4		433.7	66,300	66,300	84.0	430.5	60,000	60,000	80
85	81.7		432.8	65,800	65,800	83.3	429.5	59,700	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
140	74.2		418.7	58,400	58,400	75.7	415.3	51,500	51,500	140
150	72.8		415.2	55,600	55,600	74.3	411.9	49,700	49,700	150
160	71.4		411.5	52,800	52,800	72.9	408.1	48,100	48,100	160
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	45,800	45,800	68.6	395.2	42,400	42,400	190
200	65.6		393.9	43,800	43,800	67.1	390.3	40,600	40,600	200
210	64.1		388.6	41,900	41,900	65.6	385.0	39,100	39,100	210
220	62.6		383.1	40,200	40,200	64.0	379.4	37,500	37,500	220
230	61.1		377.2	38,500	38,500	62.5	373.5	36,100	36,100	230
240	59.5		370.9	37,000	37,000	60.9	367.1	34,900	34,900	240
250	57.9		364.3	35,600	35,600	59.3	360.4	33,600	33,600	250
260	56.3		357.2	34,300	34,300	57.7	353.3	32,500	32,500	260
270	54.6		349.7	33,100	33,100	56.0	345.7	31,400	31,400	270
280	52.9		341.7	32,000	32,000	54.3	337.6	30,400	30,400	280
290	51.2		333.2	31,000	31,000	52.5	329.0	29,500	29,500	290
300	49.4		324.2	28,400	30,100	50.7	319.9	28,700	28,700	300
310	47.6		314.6	25,400	29,200	48.9	310.1	26,700	27,900	310
320	45.7		304.4	22,700	28,400	46.9	299.7	23,800	27,200	320
330	43.7		293.4	20,100	27,700	44.9	288.6	21,100	26,600	330
340	41.7		281.6	17,600	27,100	42.9	276.6	18,600	26,100	340
350	39.6		269.0	15,300	26,600	40.7	263.7	16,100	25,700	350
360	37.3		255.2	13,100	26,100	38.4	249.6	13,800	25,300	360
370	34.9		240.3	11,000	25,800	35.9	234.3	11,600	25,000	370
380	32.4		223.8	9,000	25,500	33.3	217.4	9,500	24,900	380
390	29.6		205.5	7,100	25,500	30.5	198.5	7,500	24,900	390
400	26.6		184.7		25,400					400
410	23.1		160.6		23,500					410
420	19.0		131.0		21,700					420

MLC300 VPC-MAX S-3

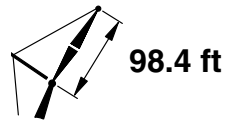
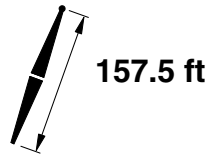
ASME B30.5



	10°				20°					
										
	ft	ft	ft	lb	lb	ft	ft	lb	lb	ft
55	82.5	238.6	34.8	63,800c	63,800c	82.5	232.2	52,400c	52,400c	55
60	81.2	237.4	48.0	62,300c	62,300c	81.2	230.7	50,700c	50,700c	60
65	80.0	236.2		60,800b	60,800b					65
70	78.7	234.8		59,400b	59,400b					70
75	77.5	233.3		57,900	57,900					75
80	76.2	231.7		56,300	56,300	79.9	229.0	48,500b	48,500b	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
140	59.9	201.7		40,300	40,300	63.4	198.6	31,800	31,800	140
150	56.9	194.3		37,700	37,700	60.4	191.1	30,000	30,000	150
160	53.8	186.1		35,400	35,400	57.2	182.7	28,500	28,500	160
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-3

ASME B30.5

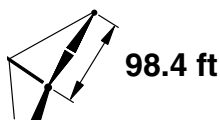
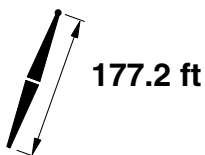
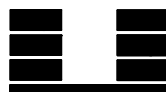
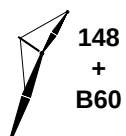


	10°				20°				
									
	ft	ft	ft	lb	ft	ft	lb	lb	ft
50	84.2	259.6	65,500c	65,500c					50
55	83.1	258.6	64,100c	64,100c					55
60	81.9	257.6	62,700c	62,700c					60
65	80.8	256.4	61,400b	61,400b	84.3	253.7	54,100c	54,100c	65
70	79.6	255.2	60,100	60,100	83.1	252.4	52,800c	52,800c	70
75	78.5	253.8	58,800	58,800	81.9	251.0	51,600b	51,600b	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
140	62.5	225.1	42,800	42,800	65.8	222.0	33,400	33,400	140
150	59.9	218.6	40,200	40,200	63.1	215.3	31,600	31,600	150
160	57.1	211.4	37,800	37,800	60.3	208.0	30,000	30,000	160
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-3

ASME B30.5

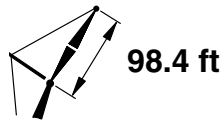
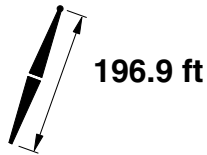
Manitowoc

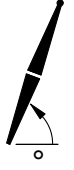
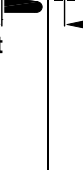
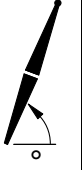
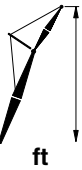


	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
50	84.6	279.5	65,500c	65,500c					50
55	83.6	278.6	64,200c	64,200c					55
60	82.5	277.6	63,000b	63,000b					60
65	81.4	276.6	61,700	61,700	84.7	273.7	54,300c	54,300c	65
70	80.4	275.4	60,500	60,500	83.6	272.5	53,100b	53,100b	70
75	79.3	274.2	59,300	59,300	82.5	271.2	52,100b	52,100b	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
140	64.7	247.9	44,800	44,800	67.8	244.7	34,700	34,700	140
150	62.3	242.0	42,500	42,500	65.3	238.7	33,000	33,000	150
160	59.8	235.5	40,100	40,100	62.8	232.1	31,400	31,400	160
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-3

ASME B30.5



	10°					20°				
										
	ft	°	ft	34.8 ft lb	48.0 ft lb		ft	lb	lb	ft
50	85.0	299.4	65,200c	65,200c						50
55	84.0	298.6	64,100b	64,100b						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	84.0	292.6	53,300b	53,300b		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
140	66.6	270.2	46,100	46,100	69.4	266.9	36,000	36,000		140
150	64.4	264.8	44,400	44,400	67.2	261.5	34,300	34,300		150
160	62.1	258.9	42,300	42,300	64.9	255.5	32,700	32,700		160
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	24,500	24,500						290

MLC300 VPC-MAX S-3

ASME B30.5

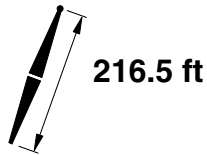
Manitowoc



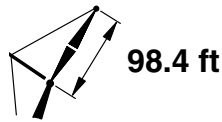
474,100 lb



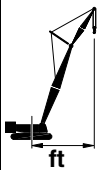
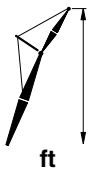
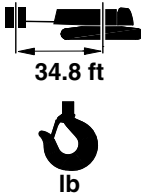
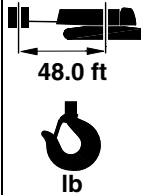
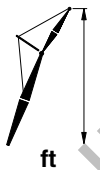
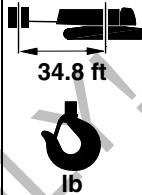
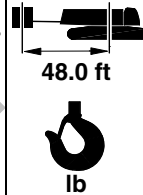
360°



216.5 ft

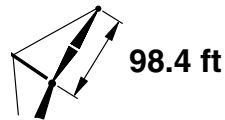
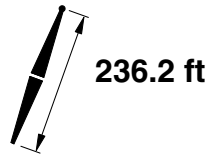
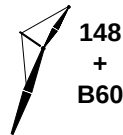


98.4 ft

	10°				20°					
	 ft	 °	 ft	 34.8 ft lb	 48.0 ft lb	 °	 ft	 34.8 ft lb		 48.0 ft lb
55	84.4	318.5		63,800b	63,800b					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
140	68.2	292.1		47,200	47,200	70.8	288.8	37,200	37,200	140
150	66.1	287.1		45,600	45,600	68.8	283.7	35,500	35,500	150
160	64.1	281.7		44,000	44,000	66.7	278.3	33,900	33,900	160
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		27,500	27,500	38.4	172.4	23,000	23,000	270
280	32.8	161.4		26,600	26,600	34.7	155.2	22,400	22,400	280
290	28.8	142.0		25,800	25,800	30.6	134.8	21,900	21,900	290
300	24.2	118.5		25,000	25,000					300
310	18.2	87.1		24,400	24,400					310

MLC300 VPC-MAX S-3

ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	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
140	69.5	313.7	48,100	48,100	72.1	310.3	38,300	38,300	140
150	67.6	309.1	46,600	46,600	70.2	305.7	36,500	36,500	150
160	65.7	304.1	45,100	45,100	68.2	300.6	35,000	35,000	160
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	31,200	31,200	48.5	231.0	25,300	25,300	250
260	43.7	224.3	30,100	30,100	45.9	219.5	24,500	24,500	260
270	41.0	212.0	29,000	29,000	43.1	206.9	23,900	23,900	270
280	38.1	198.4	28,100	28,100	40.1	192.9	23,300	23,300	280
290	35.0	183.1	27,200	27,200	36.9	177.2	22,700	22,700	290
300	31.6	165.8	26,400	26,400	33.3	159.2	22,200	22,200	300
310	27.7	145.6	25,600	25,600	29.3	138.0	21,800	21,800	310
320	23.2	121.1	24,900	24,900					320
330	17.3	88.2	24,400	24,400					330

MLC300 VPC-MAX S-3

ASME B30.5

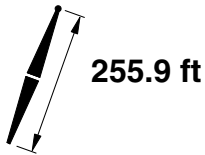
Manitowoc



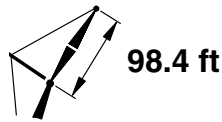
474,100 lb



360°



255.9 ft

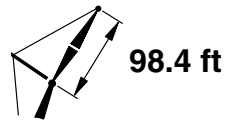
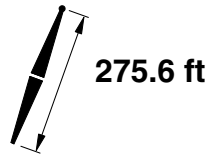
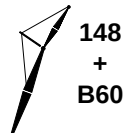


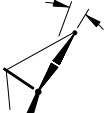
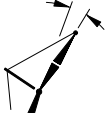
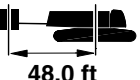
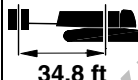
98.4 ft

	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
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
140	70.7	335.1	48,800	48,800	73.1	331.6	39,200	39,200	140
150	69.0	330.8	47,300	47,300	71.4	327.3	37,500	37,500	150
160	67.2	326.1	45,800	45,800	69.6	322.6	35,900	35,900	160
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	33,800	33,800	53.8	268.5	26,900	26,900	240
250	49.4	263.5	32,600	32,600	51.5	259.1	26,200	26,200	250
260	47.1	253.6	31,500	31,500	49.2	249.0	25,400	25,400	260
270	44.8	242.8	30,400	30,400	46.8	238.0	24,700	24,700	270
280	42.3	231.0	29,400	29,400	44.2	226.0	24,100	24,100	280
290	39.6	218.2	28,400	28,400	41.5	212.8	23,500	23,500	290
300	36.8	203.9	27,600	27,600	38.6	198.2	23,000	23,000	300
310	33.8	188.1	26,800	26,800	35.5	181.8	22,500	22,500	310
320	30.5	170.0	26,100	26,100	32.0	163.0	22,100	22,100	320
330	26.7	149.0	25,400	25,400	28.1	140.9	21,700	21,700	330
340	22.3	123.5	24,800	24,800					340
350	16.5	89.2	24,300	24,300					350

MLC300 VPC-MAX S-3

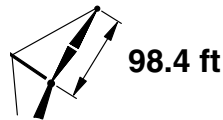
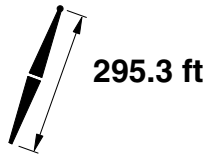
ASME B30.5



	 10°				 20°				
	 ft °	 ft	 34.8 ft lb	 48.0 ft lb	 °	 ft	 34.8 ft lb	 48.0 ft lb	
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
140	71.8	356.2	49,400	49,400	74.1	352.8	40,100	40,100	140
150	70.2	352.2	48,000	48,000	72.4	348.7	38,400	38,400	150
160	68.5	347.8	46,600	46,600	70.7	344.3	36,800	36,800	160
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	38,000	38,000	60.0	309.5	29,700	29,700	220
230	56.0	306.2	36,600	36,600	58.1	302.2	28,700	28,700	230
240	54.1	298.5	35,200	35,200	56.1	294.3	27,800	27,800	240
250	52.1	290.1	34,000	34,000	54.1	285.8	27,100	27,100	250
260	50.0	281.1	32,800	32,800	52.0	276.7	26,300	26,300	260
270	47.9	271.5	31,800	31,800	49.8	266.9	25,600	25,600	270
280	45.7	261.0	30,700	30,700	47.6	256.2	24,900	24,900	280
290	43.4	249.8	29,800	29,800	45.2	244.7	24,300	24,300	290
300	40.9	237.5	28,800	28,800	42.8	232.2	23,800	23,800	300
310	38.4	224.1	28,000	28,000	40.1	218.4	23,200	23,200	310
320	35.6	209.3	27,200	27,200	37.3	203.2	22,700	22,700	320
330	32.7	192.8	26,500	26,500	34.3	186.2	22,300	22,300	330
340	29.4	174.1	25,300	25,800	30.9	166.7	22,000	22,000	340
350	25.8	152.3	22,900	25,200	27.0	143.7	21,700	21,700	350
360	21.4	125.7	20,600	24,700					360

MLC300 VPC-MAX S-3

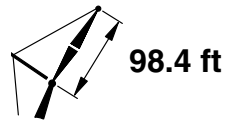
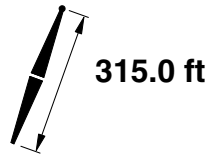
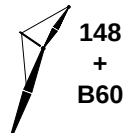
ASME B30.5



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

MLC300 VPC-MAX S-3

ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	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
140	73.6	398.1	50,000	50,000	75.7	394.6	41,700	41,700	140
150	72.1	394.5	48,700	48,700	74.2	390.9	40,000	40,000	150
160	70.7	390.6	47,500	47,500	72.7	387.0	38,500	38,500	160
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	42,000	42,000	64.9	362.5	32,400	32,400	210
220	61.3	360.5	40,800	40,800	63.3	356.6	31,400	31,400	220
230	59.7	354.2	39,300	39,300	61.6	350.2	30,400	30,400	230
240	58.0	347.5	38,000	38,000	60.0	343.4	29,500	29,500	240
250	56.3	340.4	36,700	36,700	58.2	336.2	28,700	28,700	250
260	54.6	332.8	35,500	35,500	56.5	328.5	27,900	27,900	260
270	52.8	324.7	34,300	34,300	54.7	320.3	27,200	27,200	270
280	51.0	316.1	33,300	33,300	52.8	311.6	26,600	26,600	280
290	49.1	306.9	32,300	32,300	50.9	302.2	25,900	25,900	290
300	47.2	297.0	31,300	31,300	48.9	292.2	25,300	25,300	300
310	45.2	286.5	30,100	30,500	46.9	281.5	24,700	24,700	310
320	43.1	275.2	27,300	29,600	44.7	270.0	24,200	24,200	320
330	40.9	263.0	24,700	28,800	42.5	257.5	23,700	23,700	330
340	38.6	249.7	22,200	28,100	40.2	244.0	23,200	23,200	340
350	36.1	235.3	19,900	27,400	37.7	229.1	20,800	22,800	350
360	33.5	219.4	17,700	26,700	35.0	212.8	18,500	22,400	360
370	30.7	201.7	15,500	26,100	32.1	194.5	16,200	22,100	370
380	27.6	181.6	13,500	25,500	28.8	173.5	14,000	21,700	380
390	24.1	158.3	11,600	25,000					390
400	19.9	129.8	9,600	24,600					400

MLC300 VPC-MAX S-3

ASME B30.5

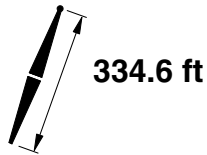
Manitowoc



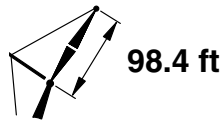
474,100 lb



360°



334.6 ft

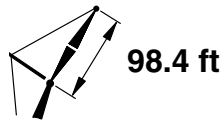
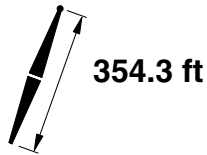


98.4 ft

	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	ft
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
140	74.4	418.8	49,600	49,600	76.4	415.3	41,900	41,900	140
150	73.0	415.4	48,500	48,500	75.0	411.8	40,400	40,400	150
160	71.6	411.7	47,300	47,300	73.5	408.1	38,900	38,900	160
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	38,900	38,900	66.2	385.0	32,900	32,900	210
220	62.8	383.3	37,400	37,400	64.7	379.4	32,000	32,000	220
230	61.3	377.4	35,900	35,900	63.1	373.4	31,000	31,000	230
240	59.7	371.1	34,600	34,600	61.5	367.1	30,100	30,100	240
250	58.1	364.5	33,400	33,400	59.9	360.4	29,300	29,300	250
260	56.5	357.4	32,200	32,200	58.3	353.2	28,600	28,600	260
270	54.8	349.9	31,100	31,100	56.6	345.6	27,900	27,900	270
280	53.1	341.9	30,200	30,200	54.9	337.5	27,200	27,200	280
290	51.4	333.5	29,200	29,200	53.1	329.0	26,500	26,500	290
300	49.6	324.5	28,300	28,300	51.3	319.8	25,900	25,900	300
310	47.8	314.9	27,500	27,500	49.5	310.1	25,300	25,300	310
320	45.9	304.6	26,200	26,700	47.6	299.7	24,800	24,800	320
330	43.9	293.7	23,600	26,000	45.6	288.5	24,300	24,300	330
340	41.9	281.9	21,200	25,400	43.5	276.5	22,400	23,800	340
350	39.8	269.2	18,900	24,800	41.3	263.6	19,900	23,400	350
360	37.5	255.5	16,700	24,300	39.0	249.6	17,600	23,000	360
370	35.1	240.6	14,600	23,900	36.6	234.2	15,400	22,600	370
380	32.6	224.2	12,600	23,500	33.9	217.3	13,300	22,200	380
390	29.8	205.9	10,700	23,200	31.1	198.4	11,300	22,000	390
400	26.8	185.2	8,800	23,000	27.9	176.7	9,300	21,700	400
410	23.4	161.1	7,000	22,900					410
420	19.2	131.6		22,900					420

MLC300 VPC-MAX S-3

ASME B30.5

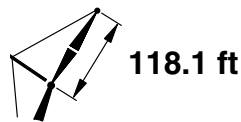
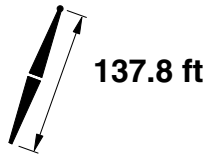


	10°				20°				
	ft	°	ft	lb	ft	°	lb	ft	
65	84.8	456.1	55,900	55,900					65
70	84.2	455.4	55,400	55,400					70
75	83.5	454.6	55,000	55,000					75
80	82.9	453.8	54,500	54,500					80
85	82.3	453.0	54,100	54,100	84.9	450.3	49,200	49,200	85
90	81.6	452.0	53,600	53,600	83.6	448.5	48,500	48,500	90
95	81.0	451.0	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
140	75.1	439.5	49,300	49,300	77.0	435.9	42,500	42,500	140
150	73.8	436.2	48,400	48,400	75.7	432.6	41,000	41,000	150
160	72.4	432.7	47,400	47,400	74.3	429.1	39,500	39,500	160
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	37,600	37,600	67.3	407.2	33,500	33,500	210
220	64.1	405.8	36,000	36,000	65.9	401.9	32,600	32,600	220
230	62.7	400.2	34,400	34,400	64.4	396.3	31,600	31,600	230
240	61.2	394.3	33,100	33,100	62.9	390.3	30,700	30,700	240
250	59.7	388.1	31,700	31,700	61.4	384.0	29,600	29,600	250
260	58.2	381.5	30,500	30,500	59.9	377.3	28,600	28,600	260
270	56.6	374.5	29,400	29,400	58.3	370.2	27,500	27,500	270
280	55.1	367.0	28,400	28,400	56.8	362.7	26,600	26,600	280
290	53.4	359.2	27,400	27,400	55.1	354.7	25,700	25,700	290
300	51.8	350.8	26,400	26,400	53.5	346.3	24,900	24,900	300
310	50.1	342.0	25,600	25,600	51.7	337.3	24,200	24,200	310
320	48.4	332.6	24,000	24,800	50.0	327.8	23,500	23,500	320
330	46.6	322.6	21,400	24,100	48.2	317.7	22,900	22,900	330
340	44.7	312.0	19,000	23,400	46.3	306.8	20,300	22,300	340
350	42.8	300.6	16,700	22,900	44.3	295.3	17,900	21,800	350
360	40.8	288.4	14,500	22,300	42.3	282.9	15,600	21,300	360
370	38.7	275.3	12,400	21,900	40.2	269.5	13,400	21,000	370
380	36.5	261.2	10,400	21,500	37.9	255.0	11,300	20,700	380
390	34.2	245.7	8,500	21,200	35.5	239.1	9,300	20,500	390
400	31.7	228.8	6,700	21,000	33.0	221.7	7,400	20,300	400
410	29.0	209.9		21,000	30.2	202.1		20,300	410
420	26.1	188.6		21,000	27.1	179.8		20,300	420
430	22.7	163.7		21,000					430
440	18.6	133.3		19,500					440

MLC300 VPC-MAX S-3

ASME B30.5

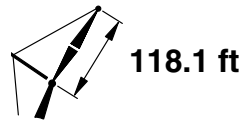
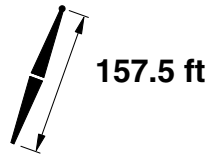
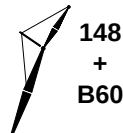
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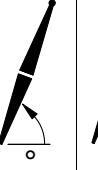
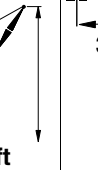
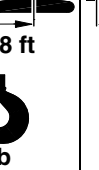
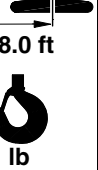
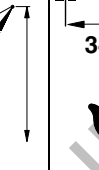
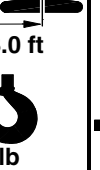


	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
65	81.9	256.2	48,400c	48,400c					65
70	80.8	254.9	47,000b	47,000b					70
75	79.6	253.6	45,700b	45,700b					75
80	78.5	252.1	44,400	44,400	82.6	249.0	38,900c	38,900c	80
85	77.3	250.5	43,200	43,200	81.4	247.4	37,800b	37,800b	85
90	76.1	248.8	42,000	42,000	80.2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

MLC300 VPC-MAX S-3

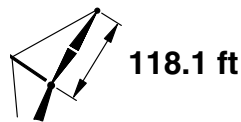
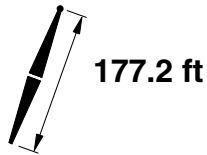
ASME B30.5



	10°				20°				
									
	ft	ft	ft	lb	lb	ft	lb	lb	ft
55	84.7	278.4	51,200c	51,200c					55
60	83.6	277.4	50,000c	50,000c					60
65	82.5	276.3	48,800b	48,800b					65
70	81.5	275.2	47,600b	47,600b					70
75	80.4	273.9	46,300	46,300	84.3	270.6	40,200c	40,200c	75
80	79.3	272.5	45,100	45,100	83.2	269.3	39,300b	39,300b	80
85	78.2	271.1	43,900	43,900	82.1	267.8	38,300b	38,300b	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
140	65.8	247.6	33,100	33,100	69.5	244.0	28,000	28,000	140
150	63.4	241.7	31,500	31,500	67.0	238.0	26,400	26,400	150
160	60.9	235.3	29,900	29,900	64.5	231.4	25,000	25,000	160
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-3

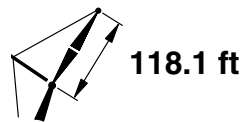
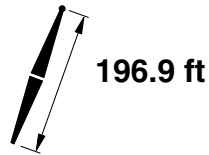
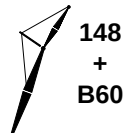
ASME B30.5

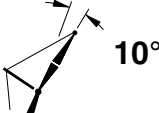
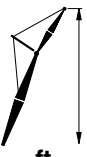


	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
60	84.0	297.4	50,100c	50,100c					60
65	83.0	296.4	49,000b	49,000b					65
70	82.0	295.3	47,900	47,900					70
75	81.0	294.1	46,800	46,800	84.7	290.7	40,400c	40,400c	75
80	80.0	292.9	45,700	45,700	83.7	289.4	39,500b	39,500b	80
85	79.0	291.5	44,600	44,600	82.6	288.1	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
140	67.6	269.9	34,300	34,300	71.0	266.2	29,000	29,000	140
150	65.4	264.5	32,700	32,700	68.8	260.7	27,400	27,400	150
160	63.1	258.6	31,200	31,200	66.5	254.7	26,000	26,000	160
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-3

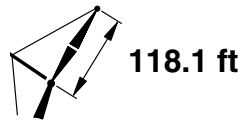
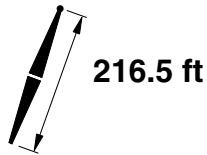
ASME B30.5

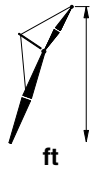
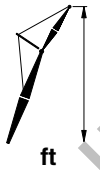
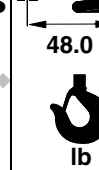
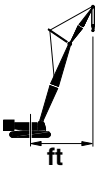


	 10°				 20°				
	 ft	 ft	 ft	 34.8 ft  lb	 48.0 ft  lb	 ft	 ft	 34.8 ft  lb	
60	84.4	317.3	50,100b	50,100b					60
65	83.5	316.4	49,100	49,100					65
70	82.6	315.4	48,100	48,100					70
75	81.6	314.3	47,100	47,100					75
80	80.7	313.1	46,100	46,100	84.1	309.6	39,800	39,800	80
85	79.7	311.8	45,100	45,100	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
140	69.1	291.8	35,300	35,300	72.3	287.9	29,900	29,900	140
150	67.1	286.8	33,800	33,800	70.3	282.9	28,400	28,400	150
160	65.0	281.4	32,400	32,400	68.2	277.4	27,100	27,100	160
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-3

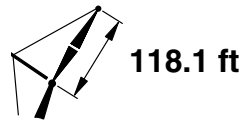
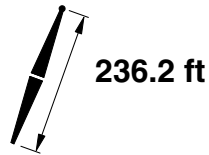
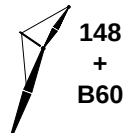
ASME B30.5



	10°				20°				
									
	ft	ft	ft	lb	ft	ft	lb	lb	ft
60	84.7	337.2	34.8	50,000b	84.4	329.6	39,800	39,800	60
65	83.9	336.4	48.0	49,100					65
70	83.0	335.4		48,200					70
75	82.1	334.4		47,300					75
80	81.2	333.3		46,300					80
85	80.4	332.1		45,500	83.5	328.4	39,100	39,100	85
90	79.5	330.8		44,500	82.6	327.1	38,300	38,300	90
95	78.6	329.5		43,600	81.8	325.8	37,600	37,600	95
100	77.7	328.0		42,700	80.9	324.3	36,900	36,900	100
105	76.8	326.5		41,800	79.9	322.8	36,200	36,200	105
110	75.9	324.9		41,000	79.0	321.1	35,500	35,500	110
115	75.0	323.2		40,100	78.1	319.4	34,800	34,800	115
120	74.1	321.4		39,400	77.2	317.6	34,200	34,200	120
125	73.2	319.5		38,500	76.3	315.7	33,300	33,300	125
130	72.3	317.6		37,700	75.3	313.7	32,400	32,400	130
140	70.4	313.4		36,100	73.5	309.4	30,700	30,700	140
150	68.5	308.8		34,700	71.6	304.8	29,300	29,300	150
160	66.6	303.7		33,400	69.6	299.7	27,900	27,900	160
170	64.7	298.3		32,100	67.6	294.2	26,600	26,600	170
180	62.7	292.4		30,800	65.6	288.2	25,500	25,500	180
190	60.6	286.0		29,700	63.6	281.7	24,500	24,500	190
200	58.6	279.1		28,500	61.4	274.7	23,500	23,500	200
210	56.4	271.7		27,500	59.3	267.1	22,600	22,600	210
220	54.2	263.6		26,500	57.0	258.9	21,700	21,700	220
230	52.0	254.9		25,600	54.7	250.0	21,000	21,000	230
240	49.6	245.4		24,700	52.3	240.4	20,300	20,300	240
250	47.1	235.1		23,900	49.8	229.8	19,600	19,600	250
260	44.6	223.9		23,200	47.2	218.3	18,900	18,900	260
270	41.8	211.5		22,500	44.4	205.6	18,400	18,400	270
280	38.9	197.8		21,800	41.4	191.5	17,800	17,800	280
290	35.8	182.5		21,000	38.1	175.6	17,400	17,400	290
300	32.4	165.2		20,300	34.5	157.4	17,000	17,000	300
310	28.5	144.9		19,700	30.4	135.9	16,600	16,600	310
320	23.9	120.1		19,100					320
330	18.0	86.9		18,700					330

MLC300 VPC-MAX S-3

ASME B30.5



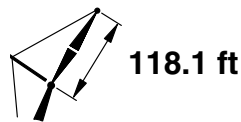
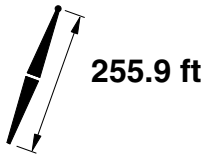
	10°					20°				
	ft	°	ft	lb	lb	ft	°	lb	lb	ft
65	84.2	356.3	49,000	49,000						65
70	83.4	355.4	48,100	48,100						70
75	82.6	354.4	47,300	47,300						75
80	81.7	353.4	46,500	46,500	84.8	349.6	39,900	39,900		80
85	80.9	352.3	45,600	45,600	83.9	348.5	39,200	39,200		85
90	80.1	351.1	44,800	44,800	83.1	347.3	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
140	71.6	334.7	36,900	36,900	74.5	330.7	31,600	31,600		140
150	69.8	330.4	35,600	35,600	72.7	326.4	30,100	30,100		150
160	68.0	325.7	34,200	34,200	70.9	321.6	28,700	28,700		160
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	22,100	22,100	42.7	211.3	18,100	18,100		290
300	37.6	203.3	21,400	21,400	39.8	196.6	17,700	17,700		300
310	34.5	187.4	20,700	20,700	36.7	180.0	17,200	17,200		310
320	31.2	169.3	20,200	20,200	33.1	161.1	16,900	16,900		320
330	27.4	148.2	19,500	19,500	29.1	138.7	16,500	16,500		330
340	23.0	122.4	19,100	19,100						340

MLC300 VPC-MAX S-3

ASME B30.5



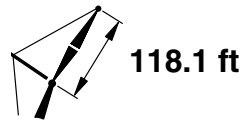
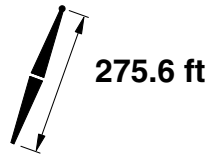
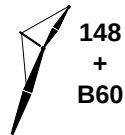
474,100 lb



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	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
140	72.6	355.9	37,600	37,600	75.3	351.8	32,200	32,200	140
150	70.9	351.8	36,200	36,200	73.7	347.7	30,800	30,800	150
160	69.3	347.4	34,900	34,900	72.0	343.3	29,400	29,400	160
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	23,600	23,600	48.7	254.9	19,300	19,300	280
290	44.1	249.2	23,000	23,000	46.4	243.3	18,800	18,800	290
300	41.7	236.9	22,300	22,300	43.9	230.7	18,200	18,200	300
310	39.1	223.5	21,800	21,800	41.2	216.9	17,800	17,800	310
320	36.4	208.6	21,100	21,100	38.4	201.5	17,400	17,400	320
330	33.4	192.1	20,500	20,500	35.3	184.3	17,000	17,000	330
340	30.1	173.3	19,900	19,900	31.9	164.6	16,700	16,700	340
350	26.4	151.4	19,500	19,500	28.0	141.2	16,500	16,500	350
360	22.1	124.6	19,000	19,000					360

MLC300 VPC-MAX S-3

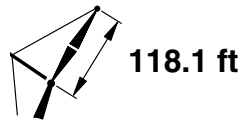
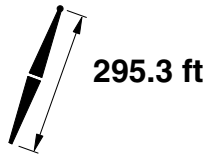
ASME B30.5



	10°					20°				
	ft	°	ft	lb	lb	ft	°	lb	lb	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
140	73.5	376.8	38,000	38,000	76.1	372.7	32,900	32,900		140
150	72.0	373.0	36,800	36,800	74.5	368.9	31,400	31,400		150
160	70.4	368.9	35,500	35,500	73.0	364.7	30,200	30,200		160
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	25,900	25,900	55.5	301.8	21,100	21,100		260
270	51.2	298.1	25,100	25,100	53.5	292.9	20,500	20,500		270
280	49.2	288.7	24,500	24,500	51.5	283.3	20,000	20,000		280
290	47.2	278.6	23,800	23,800	49.4	272.9	19,400	19,400		290
300	45.0	267.7	23,200	23,200	47.2	261.8	18,900	18,900		300
310	42.8	255.9	22,600	22,600	44.9	249.7	18,500	18,500		310
320	40.4	243.1	22,100	22,100	42.5	236.6	18,000	18,000		320
330	37.9	229.1	21,400	21,400	39.9	222.2	17,600	17,600		330
340	35.2	213.7	20,800	20,800	37.1	206.2	17,300	17,300		340
350	32.3	196.5	20,300	20,300	34.1	188.4	16,900	16,900		350
360	29.1	177.1	19,800	19,800	30.8	167.9	16,700	16,700		360
370	25.5	154.4	19,300	19,300	26.9	143.7	16,400	16,400		370
380	21.2	126.6	18,200	18,900						380

MLC300 VPC-MAX S-3

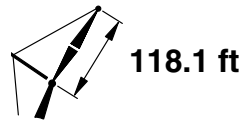
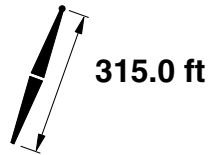
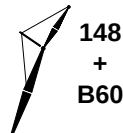
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	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
140	74.3	397.7	38,200	38,200	76.8	393.5	33,200	33,200	140
150	72.9	394.1	37,000	37,000	75.3	389.9	32,000	32,000	150
160	71.4	390.2	35,900	35,900	73.8	385.9	30,600	30,600	160
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	26,600	26,600	57.5	327.3	21,800	21,800	260
270	53.5	324.2	25,900	25,900	55.7	319.0	21,100	21,100	270
280	51.7	315.6	25,200	25,200	53.9	310.3	20,500	20,500	280
290	49.8	306.4	24,500	24,500	51.9	300.9	20,100	20,100	290
300	47.8	296.5	23,900	23,900	50.0	290.8	19,500	19,500	300
310	45.8	285.9	23,400	23,400	47.9	280.0	19,100	19,100	310
320	43.7	274.6	22,800	22,800	45.8	268.4	18,600	18,600	320
330	41.5	262.3	22,300	22,300	43.5	255.9	18,200	18,200	330
340	39.2	249.1	21,700	21,700	41.1	242.3	17,800	17,800	340
350	36.8	234.6	21,100	21,100	38.6	227.3	17,400	17,400	350
360	34.2	218.6	20,600	20,600	35.9	210.8	17,100	17,100	360
370	31.4	200.9	19,600	20,100	33.0	192.3	16,800	16,800	370
380	28.2	180.7	17,500	19,600	29.7	171.1	16,600	16,600	380
390	24.7	157.2	15,500	19,200					390
400	20.5	128.5	13,600	18,900					400

MLC300 VPC-MAX S-3

ASME B30.5



	10°				20°				
	ft	°	ft	lb	ft	°	lb	ft	
70	84.6		435.1	46,200					70
75	83.9		434.3	45,700					75
80	83.3		433.5	45,200					80
85	82.6		432.6	44,700					85
90	81.9		431.6	44,100					90
95	81.2		430.6	43,600					95
100	80.6		429.5	43,100					100
105	79.9		428.3	42,500					105
110	79.2		427.1	42,000					110
115	78.5		425.8	41,400					115
120	77.8		424.5	40,700					120
125	77.2		423.1	40,200					125
130	76.5		421.6	39,600					130
140	75.1		418.4	38,600					140
150	73.7		415.0	37,500					150
160	72.3		411.3	36,400					160
170	70.8		407.3	35,400					170
180	69.4		403.1	34,300					180
190	67.9		398.5	33,300					190
200	66.5		393.6	32,400					200
210	65.0		388.4	31,500					210
220	63.5		382.8	30,600					220
230	61.9		376.9	29,800					230
240	60.4		370.7	28,900					240
250	58.8		364.0	28,200					250
260	57.2		356.9	27,400					260
270	55.5		349.4	26,700					270
280	53.8		341.4	26,000					280
290	52.1		333.0	25,300					290
300	50.3		323.9	24,700					300
310	48.4		314.3	24,100					310
320	46.6		304.1	23,500					320
330	44.6		293.1	23,000					330
340	42.5		281.3	22,500					340
350	40.4		268.6	21,800					350
360	38.2		254.8	19,500					360
370	35.8		239.9	17,400					370
380	33.2		223.4	15,400					380
390	30.4		205.0	13,400					390
400	27.4		184.2	11,600					400
410	23.9		160.0	9,800					410
420	19.8		130.2	8,000					420

MLC300 VPC-MAX S-3

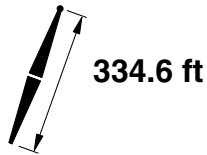
ASME B30.5



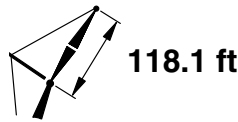
474,100 lb



360°



334.6 ft

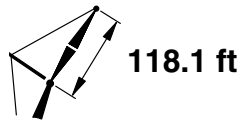
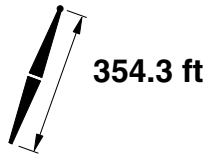


118.1 ft

	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	ft
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	95
100	81.0		449.6	42,300	42,300	83.3	445.4	36,900	100
105	80.3		448.5	41,900	41,900	82.7	444.3	36,400	105
110	79.7		447.3	41,400	41,400	82.0	443.1	36,000	110
115	79.0		446.1	40,900	40,900	81.4	441.9	35,500	115
120	78.4		444.8	40,400	40,400	80.7	440.6	35,100	120
125	77.7		443.5	39,900	39,900	80.0	439.2	34,700	125
130	77.1		442.1	39,400	39,400	79.4	437.8	34,200	130
140	75.7		439.1	38,300	38,300	78.0	434.8	33,500	140
150	74.4		435.8	37,300	37,300	76.7	431.5	32,600	150
160	73.1		432.3	36,400	36,400	75.3	427.9	31,600	160
170	71.7		428.5	35,400	35,400	74.0	424.1	30,500	170
180	70.4		424.5	34,500	34,500	72.6	420.0	29,400	180
190	69.0		420.1	33,500	33,500	71.2	415.6	28,400	190
200	67.6		415.5	32,700	32,700	69.8	411.0	27,500	200
210	66.2		410.6	31,800	31,800	68.3	406.0	26,600	210
220	64.7		405.3	30,900	30,900	66.9	400.7	25,800	220
230	63.3		399.8	30,200	30,200	65.4	395.0	25,000	230
240	61.8		393.9	29,300	29,300	63.9	389.1	24,300	240
250	60.3		387.6	28,600	28,600	62.4	382.7	23,600	250
260	58.8		381.0	27,900	27,900	60.9	376.0	23,000	260
270	57.3		374.0	27,100	27,100	59.3	368.9	22,300	270
280	55.7		366.5	26,200	26,200	57.7	361.4	21,700	280
290	54.1		358.6	25,300	25,300	56.1	353.4	21,200	290
300	52.4		350.3	24,500	24,500	54.4	344.9	20,700	300
310	50.7		341.4	23,700	23,700	52.7	335.9	20,200	310
320	49.0		332.0	23,000	23,000	50.9	326.3	19,700	320
330	47.2		322.0	22,400	22,400	49.1	316.1	19,300	330
340	45.3		311.4	21,800	21,800	47.2	305.3	18,900	340
350	43.4		300.0	20,700	21,200	45.3	293.6	18,500	350
360	41.4		287.8	18,500	20,700	43.2	281.1	18,100	360
370	39.3		274.6	16,400	20,200	41.1	267.7	17,500	370
380	37.1		260.4	14,400	19,800	38.8	253.0	15,400	380
390	34.8		245.0	12,400	19,500	36.4	237.1	13,300	390
400	32.3		228.0	10,600	19,100	33.8	219.4	11,400	400
410	29.6		209.0	8,800	18,900	31.0	199.7	9,500	410
420	26.6		187.6	7,100	18,800	27.8	177.1	7,600	420
430	23.2		162.6		18,800				430
440	19.1		131.9		18,800				440

MLC300 VPC-MAX S-3

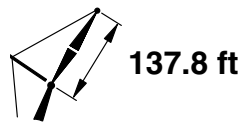
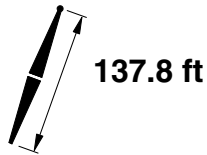
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	ft
75	84.5		474.1	44,000	44,000				75
80	83.8		473.3	43,600	43,600				80
85	83.2		472.5	43,200	43,200				85
90	82.6		471.6	42,800	42,800				90
95	82.0		470.7	42,400	42,400	84.9	467.4	37,400	95
100	81.4		469.7	41,900	41,900	84.2	466.4	37,100	100
105	80.7		468.6	41,400	41,400	83.6	465.4	36,600	105
110	80.1		467.5	41,000	41,000	83.0	464.4	36,200	110
115	79.5		466.3	40,600	40,600	82.4	463.2	35,800	115
120	78.9		465.1	40,200	40,200	81.7	462.1	35,400	120
125	78.3		463.8	39,700	39,700	81.1	460.8	35,100	125
130	77.6		462.5	39,200	39,200	80.5	459.5	34,600	130
140	76.4		459.6	38,300	38,300	79.8	458.2	34,300	140
150	75.1		456.5	37,400	37,400	78.6	455.3	33,500	150
160	73.8		453.2	36,500	36,500	77.3	452.1	32,700	160
170	72.5		449.6	35,600	35,600	76.0	448.8	32,000	170
180	71.2		445.7	34,700	34,700	74.7	445.1	30,900	180
190	69.9		441.6	33,800	33,800	73.4	441.2	29,900	190
200	68.6		437.2	33,000	33,000	72.0	437.1	28,900	200
210	67.2		432.5	32,100	32,100	70.7	432.6	28,000	210
220	65.9		427.5	31,300	31,300	69.3	427.9	27,100	220
230	64.5		422.3	30,600	30,600	68.0	422.9	26,300	230
240	63.1		416.7	29,400	29,400	66.6	417.5	25,500	240
250	61.7		410.8	28,200	28,200	65.2	411.9	24,800	250
260	60.3		404.6	27,100	27,100	63.8	405.9	24,100	260
270	58.8		398.0	26,000	26,000	62.3	399.6	23,400	270
280	57.4		391.0	25,100	25,100	60.8	392.9	22,800	280
290	55.8		383.6	24,100	24,100	59.3	385.9	22,200	290
300	54.3		375.8	23,300	23,300	57.8	378.4	21,700	300
310	52.7		367.6	22,500	22,500	56.2	370.5	21,200	310
320	51.1		358.9	21,700	21,700	54.6	362.2	20,600	320
330	49.5		349.7	21,000	21,000	53.0	353.3	20,200	330
340	47.8		339.9	20,400	20,400	51.3	343.9	19,800	340
350	46.0		329.5	19,800	19,800	49.6	334.0	19,300	350
360	44.2		318.5	18,500	19,300	47.8	323.4	18,800	360
370	42.4		306.7	14,200	18,800	46.0	312.2	17,700	370
380	40.4		294.1	12,200	18,400	44.1	300.1	15,500	380
390	38.4		280.5	10,300	18,000	42.1	287.2	13,400	390
400	36.2		265.9	8,500	17,700	40.0	273.3	11,400	400
410	33.9		249.9	6,700	17,500	37.8	258.2	9,500	410
420	31.5		232.4		17,300	35.4	241.7	7,600	420
430	28.8		212.9		17,300	32.9	223.5		430
440	25.9		190.8		17,300	30.1	203.2		440
450	22.5		165.0		17,300	27.0	179.9		450
460	18.5		133.4		17,300				460

MLC300 VPC-MAX S-3

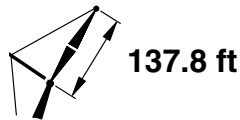
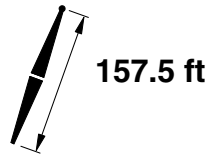
ASME B30.5



	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
65	82.2	276.8	40,500c	40,500c					65
70	81.2	275.6	39,200b	39,200b					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	30,800b	30,800b	85
90	76.8	270.0	34,400	34,400	81.4	267.1	29,800b	29,800b	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
140	65.5	248.2	24,900	24,900	69.9	245.0	22,000	22,000	140
150	63.1	242.3	23,400	23,400	67.5	239.1	20,800	20,800	150
160	60.6	235.8	22,000	22,000	65.0	232.5	19,600	19,600	160
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-3

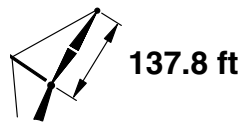
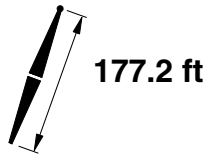
ASME B30.5



	10°				20°				
	ft	ft	ft	lb	ft	ft	lb	ft	
55	84.7	298.8	43,100c	43,100c					55
60	83.7	297.9	42,000c	42,000c					60
65	82.8	296.9	40,900b	40,900b					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	32,100b	32,100b	80
85	78.8	292.0	36,300	36,300	83.0	289.0	31,100b	31,100b	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
140	67.3	270.4	26,100	26,100	71.4	267.1	22,800	22,800	140
150	65.1	265.1	24,600	24,600	69.2	261.7	21,600	21,600	150
160	62.9	259.2	23,200	23,200	66.9	255.7	20,500	20,500	160
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-3

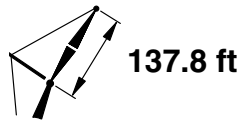
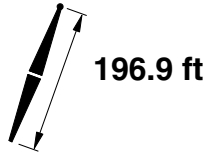
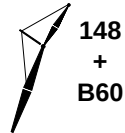
ASME B30.5

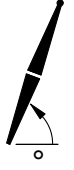
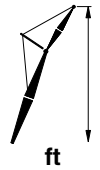
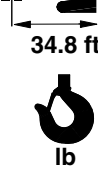
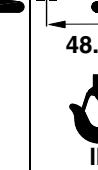
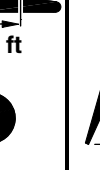
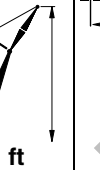
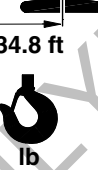
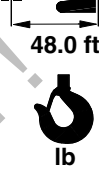


	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
60	84.1	317.8	42,100c	42,100c					60
65	83.2	316.9	41,000b	41,000b					65
70	82.3	315.9	40,000	40,000					70
75	81.4	314.8	38,900	38,900					75
80	80.4	313.6	37,900	37,900	84.4	310.4	32,300b	32,300b	80
85	79.5	312.3	36,900	36,900	83.5	309.1	31,400	31,400	85
90	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
140	68.8	292.3	27,100	27,100	72.7	288.9	23,500	23,500	140
150	66.8	287.4	25,600	25,600	70.7	283.9	22,300	22,300	150
160	64.8	282.0	24,300	24,300	68.6	278.4	21,200	21,200	160
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-3

ASME B30.5



	10°					20°				
										
	ft	°	ft	34.8 ft lb	48.0 ft lb		ft	lb	lb	ft
60	84.5	337.7	42,100b	42,100b						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
140	70.2	313.9	28,000	28,000	73.8	310.3	24,100	24,100		140
150	68.3	309.3	26,600	26,600	71.9	305.7	23,000	23,000		150
160	66.4	304.3	25,300	25,300	70.0	300.6	21,900	21,900		160
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

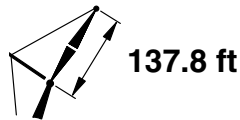
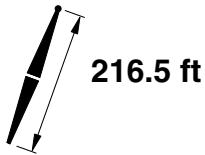
MLC300 VPC-MAX S-3

ASME B30.5

Manitowoc



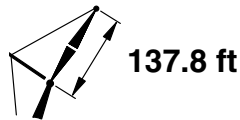
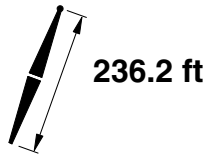
474,100 lb



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	ft
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
140	71.3	335.2	28,800	28,800	74.8	331.6	24,700	24,700	140
150	69.6	330.9	27,400	27,400	73.0	327.2	23,600	23,600	150
160	67.8	326.3	26,200	26,200	71.2	322.5	22,600	22,600	160
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-3

ASME B30.5



	10°				20°				
	ft	°	ft	lb	ft	°	lb	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
140	72.4	356.4	29,600	29,600	75.7	352.6	25,100	25,100	140
150	70.7	352.4	28,200	28,200	74.0	348.6	24,100	24,100	150
160	69.1	348.0	27,000	27,000	72.3	344.1	23,100	23,100	160
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	13,000	13,000	32.4	166.4	12,500	12,500	340
350	26.4	152.7	12,600	12,600	28.6	143.4	12,300	12,300	350
360	22.1	126.2	12,200	12,200					360
370	16.4	90.7	12,000	12,000					370

MLC300 VPC-MAX S-3

ASME B30.5

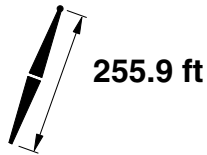
Manitowoc



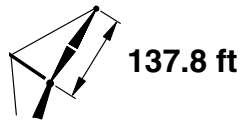
474,100 lb



360°



255.9 ft

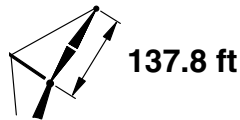
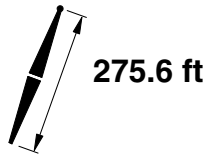


137.8 ft

	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	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
140	73.3	377.4	30,100	30,100	76.4	373.5	25,500	25,500	140
150	71.8	373.6	28,800	28,800	74.9	369.7	24,500	24,500	150
160	70.2	369.5	27,600	27,600	73.3	365.5	23,600	23,600	160
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	14,600	14,600	42.9	237.9	13,600	13,600	320
330	37.8	230.0	14,100	14,100	40.3	223.6	13,200	13,200	330
340	35.1	214.7	13,600	13,600	37.6	207.8	12,900	12,900	340
350	32.2	197.6	13,200	13,200	34.6	190.0	12,600	12,600	350
360	29.1	178.2	12,900	12,900	31.3	169.8	12,400	12,400	360
370	25.5	155.7	12,500	12,500	27.5	145.9	12,200	12,200	370
380	21.2	128.3	12,200	12,200					380
390	15.7	91.3	12,000	12,000					390

MLC300 VPC-MAX S-3

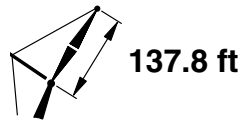
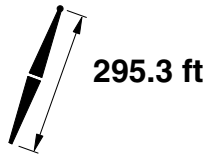
ASME B30.5



	10°				20°				
	ft	°	ft	lb	ft	°	lb	ft	
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
140	74.1	398.2	30,500	30,500	77.1	394.3	25,900	25,900	140
150	72.7	394.6	29,400	29,400	75.6	390.7	24,900	24,900	150
160	71.2	390.8	28,200	28,200	74.1	386.8	24,000	24,000	160
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	16,500	16,500	50.3	291.9	14,900	14,900	300
310	45.7	286.7	15,900	15,900	48.3	281.2	14,500	14,500	310
320	43.6	275.4	15,400	15,400	46.1	269.7	14,100	14,100	320
330	41.4	263.2	14,800	14,800	43.9	257.2	13,800	13,800	330
340	39.1	249.9	14,300	14,300	41.5	243.6	13,400	13,400	340
350	36.7	235.5	13,900	13,900	39.0	228.8	13,100	13,100	350
360	34.1	219.6	13,500	13,500	36.4	212.4	12,800	12,800	360
370	31.3	202.0	13,100	13,100	33.4	194.0	12,600	12,600	370
380	28.2	181.9	12,700	12,700	30.2	173.0	12,400	12,400	380
390	24.7	158.6	12,400	12,400	26.5	148.2	12,200	12,200	390
400	20.5	130.2	12,100	12,100					400

MLC300 VPC-MAX S-3

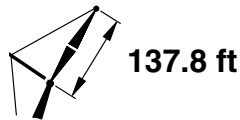
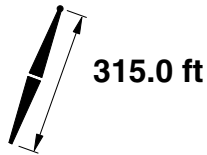
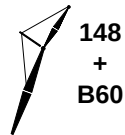
ASME B30.5



	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	ft
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
140	74.9	419.0	30,800	30,800	77.7	415.0	26,100	26,100	140
150	73.5	415.6	29,700	29,700	76.3	411.5	25,200	25,200	150
160	72.1	411.9	28,600	28,600	74.9	407.8	24,300	24,300	160
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	17,700	17,700	54.5	328.6	15,900	15,900	290
300	50.1	324.6	17,200	17,200	52.7	319.5	15,400	15,400	300
310	48.3	315.0	16,600	16,600	50.8	309.7	15,000	15,000	310
320	46.4	304.8	16,000	16,000	48.9	299.3	14,600	14,600	320
330	44.5	293.9	15,600	15,600	46.9	288.1	14,200	14,200	330
340	42.4	282.1	15,000	15,000	44.8	276.1	13,900	13,900	340
350	40.3	269.5	14,500	14,500	42.6	263.2	13,600	13,600	350
360	38.0	255.8	14,100	14,100	40.3	249.1	13,300	13,300	360
370	35.7	240.8	13,800	13,800	37.9	233.7	12,900	12,900	370
380	33.1	224.4	13,300	13,300	35.2	216.8	12,700	12,700	380
390	30.4	206.2	13,000	13,000	32.4	197.8	12,500	12,500	390
400	27.3	185.5	12,700	12,700	29.2	176.1	12,300	12,300	400
410	23.9	161.4	12,400	12,400	25.5	150.5	12,300	12,300	410
420	19.8	132.1	11,300	12,200					420

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	10°				20°				
	ft	ft	lb	lb	ft	lb	lb	ft	
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
140	75.6	439.6	31,200	31,200	78.3	435.6	26,300	26,300	140
150	74.2	436.4	30,100	30,100	76.9	432.3	25,500	25,500	150
160	72.9	432.9	29,100	29,100	75.6	428.7	24,600	24,600	160
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	19,100	19,100	58.0	362.3	16,900	16,900	280
290	53.9	359.3	18,500	18,500	56.4	354.3	16,400	16,400	290
300	52.3	351.0	17,900	17,900	54.7	345.9	15,900	15,900	300
310	50.6	342.2	17,300	17,300	53.0	336.9	15,500	15,500	310
320	48.9	332.8	16,800	16,800	51.3	327.4	15,100	15,100	320
330	47.1	322.8	16,200	16,200	49.4	317.2	14,700	14,700	330
340	45.2	312.2	15,700	15,700	47.6	306.4	14,300	14,300	340
350	43.3	300.8	15,300	15,300	45.6	294.8	14,000	14,000	350
360	41.3	288.6	14,800	14,800	43.6	282.4	13,700	13,700	360
370	39.2	275.5	14,300	14,300	41.4	269.0	13,400	13,400	370
380	37.0	261.4	14,000	14,000	39.2	254.4	13,100	13,100	380
390	34.7	246.0	13,600	13,600	36.8	238.6	12,800	12,800	390
400	32.2	229.0	12,700	13,200	34.2	221.0	12,600	12,600	400
410	29.5	210.2	10,900	12,900	31.4	201.4	11,800	12,400	410
420	26.6	188.9	9,200	12,600	28.3	179.0	9,900	12,300	420
430	23.2	164.1	7,600	12,300	24.7	152.6	8,100	12,200	430
440	19.1	133.8		12,100					440

MLC300 VPC-MAX S-3

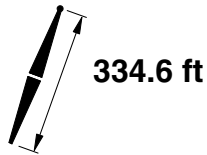
ASME B30.5



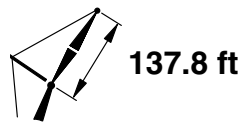
474,100 lb



360°



334.6 ft

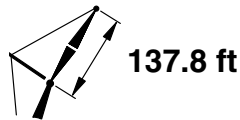
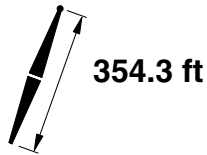
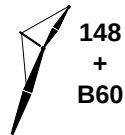


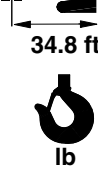
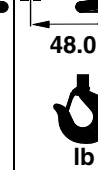
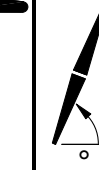
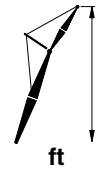
137.8 ft

	10°				20°				
	ft	°	ft	lb	lb	ft	lb	lb	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
140	76.2	460.2	31,100	31,100	78.8	456.1	26,300	26,300	140
150	74.9	457.1	30,100	30,100	77.5	452.9	25,500	25,500	150
160	73.6	453.7	29,100	29,100	76.2	449.6	24,700	24,700	160
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	20,200	20,200	61.1	393.8	17,700	17,700	270
280	57.2	391.6	19,600	19,600	59.6	386.8	17,200	17,200	280
290	55.7	384.3	19,000	19,000	58.1	379.3	16,800	16,800	290
300	54.2	376.5	18,400	18,400	56.5	371.5	16,400	16,400	300
310	52.6	368.3	17,800	17,800	54.9	363.1	15,900	15,900	310
320	51.0	359.6	17,300	17,300	53.3	354.3	15,500	15,500	320
330	49.4	350.4	16,800	16,800	51.6	345.0	15,100	15,100	330
340	47.7	340.7	16,300	16,300	49.9	335.1	14,800	14,800	340
350	45.9	330.3	15,800	15,800	48.1	324.5	14,400	14,400	350
360	44.1	319.3	15,400	15,400	46.3	313.3	14,100	14,100	360
370	42.2	307.5	14,900	14,900	44.4	301.3	13,800	13,800	370
380	40.3	295.0	14,500	14,500	42.4	288.5	13,500	13,500	380
390	38.3	281.4	13,400	14,100	40.3	274.6	13,300	13,300	390
400	36.1	266.8	11,600	13,800	38.1	259.6	12,700	13,000	400
410	33.8	250.9	9,800	13,400	35.8	243.2	10,900	12,800	410
420	31.4	233.5	8,200	13,100	33.3	225.2	9,100	12,600	420
430	28.8	214.1	6,600	12,800	30.5	205.0	7,400	12,400	430
440	25.8	192.2		12,500	27.4	181.9		12,300	440
450	22.5	166.6		12,300					450
460	18.5	135.3		12,100					460

MLC300 VPC-MAX S-3

ASME B30.5



	10°					20°				
	 ft	 °	 ft	 lb	 lb	 ft	 lb	 lb	 lb	 ft
75	84.6		494.7	34,000	34,000					75
80	84.1		494.0	33,700	33,700					80
85	83.5		493.2	33,300	33,300					85
90	82.9		492.3	33,000	33,000					90
95	82.3		491.4	32,700	32,700	84.8	487.4	28,800	28,800	95
100	81.7		490.5	32,400	32,400	84.2	486.4	28,400	28,400	100
105	81.1		489.5	32,100	32,100	83.6	485.4	28,000	28,000	105
110	80.5		488.4	31,800	31,800	83.0	484.4	27,600	27,600	110
115	79.9		487.3	31,500	31,500	82.4	483.2	27,200	27,200	115
120	79.3		486.2	31,200	31,200	81.8	482.1	26,800	26,800	120
125	78.7		485.0	30,900	30,900	81.2	480.8	26,400	26,400	125
130	78.1		483.7	30,500	30,500	80.6	479.6	26,100	26,100	130
140	76.9		481.0	29,900	29,900	79.4	476.8	25,300	25,300	140
150	75.7		478.0	29,000	29,000	78.2	473.9	24,600	24,600	150
160	74.5		474.9	28,100	28,100	77.0	470.7	23,900	23,900	160
170	73.2		471.5	27,300	27,300	75.7	467.2	23,200	23,200	170
180	72.0		467.8	26,400	26,400	74.5	463.5	22,500	22,500	180
190	70.8		463.9	25,600	25,600	73.2	459.6	21,900	21,900	190
200	69.5		459.8	24,800	24,800	71.9	455.4	21,300	21,300	200
210	68.2		455.3	24,000	24,000	70.6	451.0	20,600	20,600	210
220	66.9		450.7	23,300	23,300	69.3	446.2	20,000	20,000	220
230	65.6		445.7	22,600	22,600	68.0	441.2	19,500	19,500	230
240	64.3		440.5	21,900	21,900	66.7	435.9	18,900	18,900	240
250	63.0		434.9	21,300	21,300	65.4	430.3	18,400	18,400	250
260	61.6		429.1	20,600	20,600	64.0	424.4	18,000	18,000	260
270	60.3		422.9	20,000	20,000	62.6	418.1	17,500	17,500	270
280	58.9		416.4	19,400	19,400	61.2	411.5	17,000	17,000	280
290	57.5		409.5	18,800	18,800	59.8	404.6	16,500	16,500	290
300	56.0		402.2	18,200	18,200	58.3	397.2	16,100	16,100	300
310	54.6		394.6	17,700	17,700	56.8	389.5	15,700	15,700	310
320	53.1		386.5	17,200	17,200	55.3	381.3	15,300	15,300	320
330	51.6		378.0	16,700	16,700	53.8	372.7	14,900	14,900	330
340	50.0		369.1	16,200	16,200	52.2	363.6	14,600	14,600	340
350	48.4		359.6	15,800	15,800	50.6	354.0	14,300	14,300	350
360	46.7		349.5	15,400	15,400	48.9	343.8	14,000	14,000	360
370	45.0		338.9	15,000	15,000	47.2	332.9	13,600	13,600	370
380	43.3		327.6	13,200	14,600	45.4	321.4	13,300	13,300	380
390	41.5		315.5	11,400	14,200	43.5	309.1	12,900	13,100	390
400	39.6		302.7	9,600	13,800	41.6	296.0	10,900	12,900	400
410	37.6		288.8	7,900	13,400	39.5	281.8	9,100	12,600	410
420	35.5		273.9		13,100	37.4	266.5	7,400	12,400	420
430	33.3		257.7		12,800	35.1	249.8		12,200	430
440	30.9		240.0		12,500	32.7	231.4		12,100	440
450	28.3		220.3		12,300	30.0	210.9		11,900	450
460	25.5		198.1		12,000	27.0	187.6		11,900	460
470	22.3		172.4		11,900					470
480	18.5		141.0		11,700					480