


Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. B60:500
Luffing Jib No. LJ10:501
 with **Mast No. M10:503 or Mast No. M11:503**
297,800 lb VPC (Variable Position Counterweight)
360 Degree Rating


MLC300 VPC-MAX SERIES 1


 **LIFTING CAPACITIES:** Lifting capacities for various boom lengths, luffing jib lengths, boom-to-luffing jib angles, and boom 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 point sheaves, is considered part of main boom load. Weight of luffing jib and 11,000 lb suspended beneath luffing jib point sheaves have been included in capacity determination. Boom is 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.

OPERATING CONDITIONS: Machine to operate on a firm, level, and uniformly supporting surface. Supporting surface and bearing turntable are to be level within a tolerance of 1/2 in. in 10 ft. During operation, luffing jib must be maintained at proper boom-to-luffing jib angle shown in table. Refer to Luffing Jib Rigging **No. 81023384**, Mast Rigging **No. 81025690** or **No. 84045340**, Wire Rope Specification chart **No. 9568-A**, Counterweight Arrangement chart **No. 9345-A**, Luffing Jib Raising Procedure chart **No. 9502-A**, and Wind Conditions chart **No. 9501-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to the Operator Manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level, and uniformly supporting surface. Boom and luffing jib must be within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 9500-A**.

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


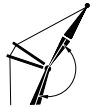
 **BOOM ANGLE:** Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

 **BOOM POINT ELEVATION:** Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

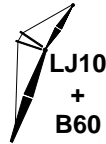
MACHINE EQUIPMENT: Machine equipped with VPC-MAX, 31 ft 10 in. crawlers, 48 in. or 60 in. treads, 30 ft live mast, 98.4 ft mast, 10 part boom hoist reeving, boom support straps, 14 part luffing jib hoist reeving, luffing jib and backstay support straps, and 297,800 lb VPC.

Select counterweight position from Luffing Jib Raising Procedure chart **No. 9502-A** that will allow raising and lowering of boom and luffing jib length. Counterweight position selection may be changed with luffing jib on ground or while luffing jib is within operating range of capacity chart.

Consult Chart **No. 9499-A** for luffing jib capacities.

Luffing Jib Position During Operation	
 Luffing Jib Length Feet	 Boom-to-Luffing Jib Angle Degrees
78.7 - 98.4	140
118.1 - 157.5	155
177.2 - 315.0	169

Explanation of Symbols



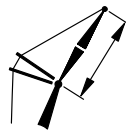
Luffing Jib No. LJ10:501
+
Boom No. B60:500



VPC (Variable Position Counterweight)



360 Degree Rating



Luffing Jib Length



Boom-to-Luffing Jib Angle



Boom Length

REFERENCE ONLY!

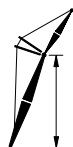
Explanation of Symbols
(continued)



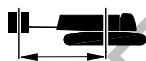
Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



Counterweight Position
from Axis of Rotation

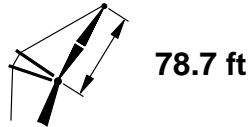
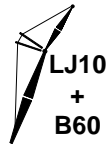


Lifting Capacities
(see page 1)

REFERENCE ONLY!

MLC300 VPC-MAX S-1

ASME B30.5

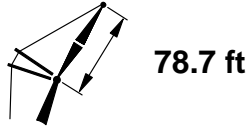
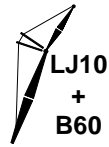


137.8 ft				
ft	°	ft	lb	lb
22	84.4	143.9	588,100	588,100
24	83.6	143.7	588,100	588,100
26	82.7	143.4	588,100	588,100
28	81.9	143.1	588,100	588,100
30	81.0	142.7	575,100	588,100
32	80.2	142.3	524,500	588,100
34	79.3	141.9	480,900	577,900
36	78.5	141.5	442,900	570,100
38	77.6	141.0	409,600	562,000
40	76.8	140.5	380,000	537,100
45	74.6	139.1	319,000	450,900
50	72.4	137.4	271,600	381,900
55	70.2	135.6	233,700	328,800
60	68.0	133.5	202,600	286,600
65	65.7	131.3	176,800	252,300
70	63.3	128.7	154,900	223,900
75	61.0	125.9	136,100	199,900
80	58.5	122.8	119,900	179,500
85	56.0	119.4	105,700	161,800
90	53.4	115.7	93,200	146,400
95	50.7	111.6	82,000	132,800
100	47.9	107.0	72,100	120,800
105	45.0	102.0	63,100	110,100
110	41.9	96.5	55,100	100,400

157.5 ft				
ft	°	ft	lb	lb
24	84.4	163.5	544,200	544,200
26	83.6	163.3	544,200	544,200
28	82.9	163.0	544,200	544,200
30	82.2	162.7	544,200	544,200
32	81.4	162.3	526,200	544,200
34	80.7	162.0	482,500	544,200
36	79.9	161.6	444,300	535,800
38	79.2	161.2	410,800	528,500
40	78.5	160.7	381,200	522,900
45	76.6	159.5	320,000	452,400
50	74.7	158.1	272,400	383,200
55	72.8	156.5	234,300	329,800
60	70.9	154.8	203,100	287,500
65	68.9	152.8	177,100	253,100
70	66.9	150.6	155,200	224,500
75	64.9	148.3	136,300	200,400
80	62.9	145.7	120,000	179,900
85	60.8	142.8	105,700	162,100
90	58.6	139.8	93,100	146,600
95	56.5	136.4	81,900	133,000
100	54.2	132.8	71,900	120,900
105	51.9	128.9	62,900	110,100
110	49.5	124.6	54,700	100,400
115	47.0	119.9	47,300	91,600
120	44.4	114.8	40,600	83,700
125	41.7	109.2	34,400	76,400

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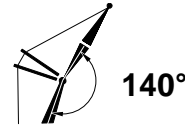
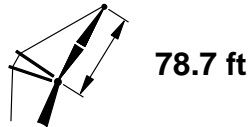
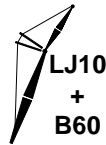


177.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
24	85.0	183.3	494,200	494,200
26	84.3	183.1	494,200	494,200
28	83.7	182.9	494,200	494,200
30	83.0	182.6	494,200	494,200
32	82.4	182.3	494,200	494,200
34	81.7	182.0	484,300	494,200
36	81.1	181.6	446,100	494,200
38	80.4	181.3	412,500	494,200
40	79.8	180.9	382,800	488,400
45	78.1	179.8	321,400	454,100
50	76.4	178.5	273,700	384,700
55	74.8	177.2	235,600	331,200
60	73.1	175.6	204,300	288,800
65	71.4	173.9	178,300	254,300
70	69.6	172.0	156,200	225,600
75	67.9	169.9	137,400	201,500
80	66.1	167.7	121,000	180,900
85	64.3	165.3	106,700	163,100
90	62.5	162.6	94,000	147,500
95	60.6	159.8	82,800	133,900
100	58.7	156.7	72,700	121,700
105	56.8	153.4	63,700	110,900
110	54.8	149.9	55,500	101,100
115	52.8	146.1	48,000	92,300
120	50.7	142.0	41,200	84,300
125	48.5	137.5	35,000	77,100
130	46.3	132.8	29,300	70,400
135	44.0	127.6	24,000	64,300
140	41.5	121.9	19,100	58,600

196.9 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
26	84.9	202.9	445,200	445,200
28	84.3	202.7	445,200	445,200
30	83.7	202.4	445,200	445,200
32	83.2	202.2	445,200	445,200
34	82.6	201.9	445,200	445,200
36	82.0	201.6	445,200	445,200
38	81.4	201.3	412,300	445,200
40	80.8	200.9	382,500	445,200
45	79.3	199.9	321,000	445,200
50	77.8	198.8	273,200	384,800
55	76.3	197.6	234,900	331,200
60	74.8	196.2	203,500	288,600
65	73.3	194.7	177,400	254,000
70	71.8	193.0	155,300	225,300
75	70.2	191.2	136,400	201,100
80	68.6	189.2	120,000	180,400
85	67.1	187.1	105,600	162,600
90	65.5	184.7	92,900	147,000
95	63.8	182.3	81,600	133,200
100	62.2	179.6	71,600	121,100
105	60.5	176.7	62,500	110,200
110	58.8	173.7	54,200	100,400
115	57.1	170.4	46,800	91,600
120	55.3	167.0	39,900	83,500
125	53.5	163.2	33,700	76,200
130	51.6	159.3	27,900	69,500
135	49.7	155.0	22,600	63,400
140	47.7	150.5	17,700	57,700
145	45.7	145.6	13,100	52,400
150	43.6	140.3		47,600
155	41.4	134.7		43,000

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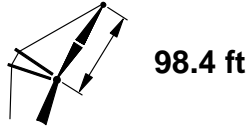
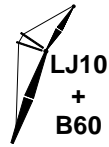


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	399,200	399,200
30	84.3	222.3	399,200	399,200
32	83.8	222.0	399,200	399,200
34	83.2	221.8	399,200	399,200
36	82.7	221.5	399,200	399,200
38	82.2	221.2	399,200	399,200
40	81.6	220.9	383,200	399,200
45	80.3	220.0	321,500	397,400
50	79.0	219.0	273,600	385,600
55	77.6	217.9	235,300	331,900
60	76.2	216.6	203,900	289,200
65	74.9	215.2	177,700	254,500
70	73.5	213.7	155,600	225,800
75	72.1	212.1	136,600	201,500
80	70.7	210.3	120,200	180,800
85	69.3	208.4	105,800	162,900
90	67.8	206.3	93,100	147,300
95	66.4	204.1	81,800	133,500
100	64.9	201.8	71,600	121,300
105	63.4	199.2	62,500	110,400
110	61.9	196.6	54,300	100,600
115	60.4	193.7	46,800	91,800
120	58.9	190.7	40,000	83,700
125	57.3	187.4	33,700	76,400
130	55.7	184.0	27,900	69,700
135	54.1	180.4	22,600	63,500
140	52.4	176.5	17,600	57,800
145	50.7	172.4	13,100	52,500
150	48.9	168.0		47,600
155	47.1	163.4		43,100
160	45.2	158.4		38,800
165	43.3	153.1		34,900
170	41.3	147.4		31,100

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	353,600	353,700
32	84.3	241.9	353,600	353,700
34	83.8	241.6	353,600	353,700
36	83.3	241.4	353,600	353,700
38	82.8	241.1	353,600	353,700
40	82.3	240.8	350,700	350,700
45	81.1	240.0	320,400	342,100
50	79.9	239.1	272,300	332,900
55	78.6	238.0	233,900	324,100
60	77.4	236.9	202,400	288,500
65	76.2	235.7	176,200	253,700
70	74.9	234.3	154,000	224,900
75	73.6	232.8	135,000	200,600
80	72.4	231.2	118,500	179,800
85	71.1	229.4	104,100	161,900
90	69.8	227.6	91,300	146,200
95	68.5	225.6	80,000	132,400
100	67.2	223.5	69,900	120,200
105	65.8	221.2	60,700	109,200
110	64.5	218.8	52,500	99,400
115	63.1	216.2	45,000	90,500
120	61.7	213.5	38,100	82,500
125	60.3	210.7	31,800	75,100
130	58.9	207.6	26,000	68,400
135	57.5	204.4	20,700	62,200
140	56.0	201.0	15,700	56,500
145	54.5	197.5	11,100	51,200
150	53.0	193.7		46,300
155	51.5	189.7		41,700
160	49.9	185.4		37,400
165	48.2	181.0		33,500
170	46.6	176.2		29,700
175	44.8	171.2		26,200
180	43.1	165.9		22,900
185	41.2	160.2		19,400

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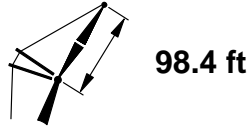
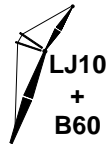


137.8 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
22	84.4	143.9	581,300	581,300
24	83.6	143.7	581,100	581,100
26	82.7	143.4	581,000	581,000
28	81.9	143.1	581,000	581,000
30	81.0	142.7	553,300	581,000
32	80.2	142.3	503,900	581,000
34	79.3	141.9	461,300	569,600
36	78.5	141.5	424,200	569,600
38	77.6	141.0	391,600	551,500
40	76.8	140.5	362,700	524,500
45	74.6	139.1	303,100	437,100
50	72.4	137.4	256,800	369,300
55	70.2	135.6	219,800	317,200
60	68.0	133.5	189,500	275,700
65	65.7	131.3	164,300	242,100
70	63.3	128.7	142,900	214,200
75	61.0	125.9	124,700	190,700
80	58.5	122.8	108,900	170,600
85	56.0	119.4	95,000	153,300
90	53.4	115.7	82,900	138,200
95	50.7	111.6	72,000	124,900
100	47.9	107.0	62,400	113,200
105	45.0	102.0	53,700	102,700
110	41.9	96.5	45,900	93,300

157.5 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
24	84.4	163.5	533,900	533,900
26	83.6	163.3	533,900	533,900
28	82.9	163.0	533,900	533,900
30	82.2	162.7	533,900	533,900
32	81.4	162.3	506,000	533,900
34	80.7	162.0	463,200	533,900
36	79.9	161.6	425,900	528,400
38	79.2	161.2	393,200	528,400
40	78.5	160.7	364,200	514,200
45	76.6	159.5	304,400	438,900
50	74.7	158.1	257,900	370,900
55	72.8	156.5	220,700	318,500
60	70.9	154.8	190,300	276,900
65	68.9	152.8	164,900	243,100
70	66.9	150.6	143,500	215,000
75	64.9	148.3	125,100	191,400
80	62.9	145.7	109,200	171,200
85	60.8	142.8	95,300	153,800
90	58.6	139.8	83,000	138,600
95	56.5	136.4	72,100	125,300
100	54.2	132.8	62,400	113,400
105	51.9	128.9	53,600	102,800
110	49.5	124.6	45,700	93,300
115	47.0	119.9	38,500	84,800
120	44.4	114.8	32,000	77,000
125	41.7	109.2	26,000	69,900

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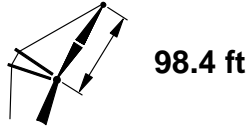
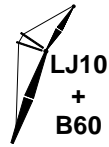


ft	°	ft	lb	lb
24	85.0	183.3	484,800	484,800
26	84.3	183.1	484,800	484,800
28	83.7	182.9	484,800	484,800
30	83.0	182.6	484,800	484,800
32	82.4	182.3	484,800	484,800
34	81.7	182.0	465,300	484,800
36	81.1	181.6	428,000	484,800
38	80.4	181.3	395,100	484,800
40	79.8	180.9	366,100	484,800
45	78.1	179.8	306,100	440,900
50	76.4	178.5	259,500	372,700
55	74.8	177.2	222,200	320,100
60	73.1	175.6	191,700	278,400
65	71.4	173.9	166,300	244,500
70	69.6	172.0	144,800	216,400
75	67.9	169.9	126,400	192,700
80	66.1	167.7	110,400	172,400
85	64.3	165.3	96,400	154,900
90	62.5	162.6	84,100	139,700
95	60.6	159.8	73,100	126,300
100	58.7	156.7	63,400	114,300
105	56.8	153.4	54,500	103,700
110	54.8	149.9	46,600	94,200
115	52.8	146.1	39,300	85,600
120	50.7	142.0	32,700	77,700
125	48.5	137.5	26,700	70,600
130	46.3	132.8	21,100	64,100
135	44.0	127.6	16,000	58,100
140	41.5	121.9	11,300	52,600

ft	°	ft	lb	lb
26	84.9	202.9	436,900	436,900
28	84.3	202.7	436,900	436,900
30	83.7	202.4	436,900	436,900
32	83.2	202.2	436,900	436,900
34	82.6	201.9	436,900	436,900
36	82.0	201.6	428,100	436,900
38	81.4	201.3	395,200	436,900
40	80.8	200.9	366,000	436,900
45	79.3	199.9	305,900	436,900
50	77.8	198.8	259,200	373,000
55	76.3	197.6	221,800	320,300
60	74.8	196.2	191,200	278,400
65	73.3	194.7	165,700	244,400
70	71.8	193.0	144,100	216,200
75	70.2	191.2	125,600	192,400
80	68.6	189.2	109,600	172,100
85	67.1	187.1	95,500	154,600
90	65.5	184.7	83,200	139,300
95	63.8	182.3	72,200	125,800
100	62.2	179.6	62,300	113,800
105	60.5	176.7	53,500	103,100
110	58.8	173.7	45,500	93,600
115	57.1	170.4	38,200	84,900
120	55.3	167.0	31,600	77,000
125	53.5	163.2	25,500	69,900
130	51.6	159.3	19,900	63,300
135	49.7	155.0	14,700	57,300
140	47.7	150.5		51,700
145	45.7	145.6		46,600
150	43.6	140.3		41,800
155	41.4	134.7		37,400

MLC300 VPC-MAX S-1

ASME B30.5

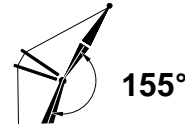
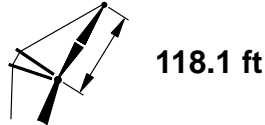
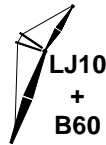


216.5 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
28	84.8	222.5	391,500	391,500
30	84.3	222.3	391,500	391,500
32	83.8	222.0	391,500	391,500
34	83.2	221.8	391,500	391,500
36	82.7	221.5	391,500	391,500
38	82.2	221.2	391,500	391,500
40	81.6	220.9	366,900	391,500
45	80.3	220.0	306,600	388,000
50	79.0	219.0	259,800	373,900
55	77.6	217.9	222,300	321,100
60	76.2	216.6	191,700	279,200
65	74.9	215.2	166,100	245,100
70	73.5	213.7	144,500	216,800
75	72.1	212.1	126,000	193,000
80	70.7	210.3	109,900	172,600
85	69.3	208.4	95,900	155,000
90	67.8	206.3	83,500	139,700
95	66.4	204.1	72,400	126,200
100	64.9	201.8	62,600	114,200
105	63.4	199.2	53,700	103,500
110	61.9	196.6	45,700	93,900
115	60.4	193.7	38,400	85,200
120	58.9	190.7	31,700	77,300
125	57.3	187.4	25,600	70,100
130	55.7	184.0	20,000	63,500
135	54.1	180.4	14,800	57,400
140	52.4	176.5	10,000	51,900
145	50.7	172.4		46,700
150	48.9	168.0		41,900
155	47.1	163.4		37,500
160	45.2	158.4		33,300
165	43.3	153.1		29,400
170	41.3	147.4		25,800

236.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
30	84.8	242.1	348,400	348,400
32	84.3	241.9	348,400	348,400
34	83.8	241.6	348,400	348,400
36	83.3	241.4	348,400	348,400
38	82.8	241.1	345,300	345,300
40	82.3	240.8	341,800	341,800
45	81.1	240.0	305,600	333,100
50	79.9	239.1	258,700	323,900
55	78.6	238.0	221,100	315,000
60	77.4	236.9	190,400	278,600
65	76.2	235.7	164,700	244,400
70	74.9	234.3	143,100	216,000
75	73.6	232.8	124,500	192,100
80	72.4	231.2	108,400	171,700
85	71.1	229.4	94,300	154,100
90	69.8	227.6	81,900	138,700
95	68.5	225.6	70,800	125,200
100	67.2	223.5	60,900	113,100
105	65.8	221.2	52,000	102,400
110	64.5	218.8	43,900	92,700
115	63.1	216.2	36,600	84,000
120	61.7	213.5	29,900	76,100
125	60.3	210.7	23,800	68,900
130	58.9	207.6	18,200	62,300
135	57.5	204.4	13,000	56,200
140	56.0	201.0		50,600
145	54.5	197.5		45,400
150	53.0	193.7		40,600
155	51.5	189.7		36,100
160	49.9	185.4		32,000
165	48.2	181.0		28,100
170	46.6	176.2		24,400
175	44.8	171.2		20,400
180	43.1	165.9		16,500
185	41.2	160.2		12,800

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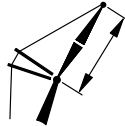
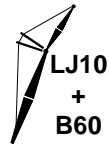


137.8 ft				
ft	°	ft	lb	lb
22	84.4	143.9	582,100	582,100
24	83.6	143.7	581,600	581,600
26	82.7	143.4	581,200	581,200
28	81.9	143.1	580,900	580,900
30	81.0	142.7	559,700	580,800
32	80.2	142.3	509,100	580,600
34	79.3	141.9	465,500	571,200
36	78.5	141.5	427,500	571,200
38	77.6	141.0	394,100	553,200
40	76.8	140.5	364,600	525,700
45	74.6	139.1	303,600	437,900
50	72.4	137.4	256,200	369,100
55	70.2	135.6	218,200	316,100
60	68.0	133.5	187,200	274,100
65	65.7	131.3	161,400	239,800
70	63.3	128.7	139,500	211,500
75	61.0	125.9	120,700	187,600
80	58.5	122.8	104,500	167,200
85	56.0	119.4	90,300	149,600
90	53.4	115.7	77,800	134,200
95	50.7	111.6	66,600	120,700
100	47.9	107.0	56,700	108,700
105	45.0	102.0	47,700	98,000
110	41.9	96.5	39,700	88,400
115	38.5	90.2	32,300	79,700
120	34.9	83.1	25,600	71,900
125	31.0	75.0	19,500	64,700
130	26.4	65.2	13,900	58,200

157.5 ft				
ft	°	ft	lb	lb
24	84.4	163.5	534,000	534,000
26	83.6	163.3	533,700	533,700
28	82.9	163.0	533,500	533,600
30	82.2	162.7	533,400	533,400
32	81.4	162.3	511,900	533,300
34	80.7	162.0	468,200	533,300
36	79.9	161.6	430,100	530,200
38	79.2	161.2	396,600	530,200
40	78.5	160.7	366,900	516,200
45	76.6	159.5	305,700	440,500
50	74.7	158.1	258,100	371,400
55	72.8	156.5	220,100	318,200
60	70.9	154.8	188,900	276,000
65	68.9	152.8	163,000	241,600
70	66.9	150.6	141,000	213,200
75	64.9	148.3	122,200	189,200
80	62.9	145.7	105,800	168,700
85	60.8	142.8	91,600	150,900
90	58.6	139.8	79,000	135,500
95	56.5	136.4	67,800	121,900
100	54.2	132.8	57,800	109,800
105	51.9	128.9	48,800	99,100
110	49.5	124.6	40,600	89,400
115	47.0	119.9	33,200	80,600
120	44.4	114.8	26,400	72,700
125	41.7	109.2	20,200	65,500
130	38.8	103.0	14,600	58,900
135	35.7	96.1		52,800
140	32.3	88.3		47,200
145	28.6	79.4		42,000

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118.1 ft



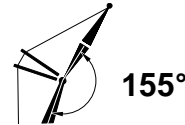
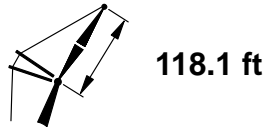
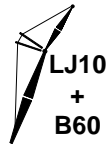
155°

177.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
24	85.0	183.3	484,300	484,300
26	84.3	183.1	484,200	484,200
28	83.7	182.9	484,200	484,200
30	83.0	182.6	484,100	484,100
32	82.4	182.3	484,100	484,100
34	81.7	182.0	470,900	484,100
36	81.1	181.6	432,700	484,100
38	80.4	181.3	399,200	484,100
40	79.8	180.9	369,400	484,100
45	78.1	179.8	308,100	443,000
50	76.4	178.5	260,400	373,800
55	74.8	177.2	222,300	320,400
60	73.1	175.6	191,100	278,100
65	71.4	173.9	165,000	243,600
70	69.6	172.0	143,000	215,100
75	67.9	169.9	124,100	191,000
80	66.1	167.7	107,800	170,400
85	64.3	165.3	93,500	152,700
90	62.5	162.6	80,800	137,200
95	60.6	159.8	69,600	123,500
100	58.7	156.7	59,500	111,400
105	56.8	153.4	50,500	100,600
110	54.8	149.9	42,300	90,900
115	52.8	146.1	34,900	82,100
120	50.7	142.0	28,100	74,100
125	48.5	137.5	21,800	66,900
130	46.3	132.8	16,100	60,200
135	44.0	127.6	10,800	54,100
140	41.5	121.9		48,500
145	39.0	115.8		43,300
150	36.2	109.0		38,400
155	33.3	101.5		33,900
160	30.1	93.0		29,700
165	26.6	83.3		25,800

196.9 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
26	84.9	202.9	435,800	435,800
28	84.3	202.7	435,800	435,800
30	83.7	202.4	435,800	435,800
32	83.2	202.2	435,800	435,800
34	82.6	201.9	435,800	435,800
36	82.0	201.6	433,300	435,800
38	81.4	201.3	399,700	435,800
40	80.8	200.9	369,900	435,800
45	79.3	199.9	308,400	435,800
50	77.8	198.8	260,600	374,500
55	76.3	197.6	222,400	321,100
60	74.8	196.2	191,100	278,600
65	73.3	194.7	165,000	244,000
70	71.8	193.0	142,900	215,400
75	70.2	191.2	124,000	191,200
80	68.6	189.2	107,500	170,600
85	67.1	187.1	93,200	152,800
90	65.5	184.7	80,500	137,200
95	63.8	182.3	69,200	123,500
100	62.2	179.6	59,200	111,400
105	60.5	176.7	50,100	100,500
110	58.8	173.7	41,900	90,800
115	57.1	170.4	34,400	82,000
120	55.3	167.0	27,600	74,000
125	53.5	163.2	21,300	66,700
130	51.6	159.3	15,600	60,000
135	49.7	155.0	10,200	53,800
140	47.7	150.5		48,200
145	45.7	145.6		42,900
150	43.6	140.3		38,100
155	41.4	134.7		33,500
160	39.1	128.6		29,300
165	36.7	121.9		25,400
170	34.1	114.6		21,700
175	31.3	106.5		17,400
180	28.3	97.4		13,500

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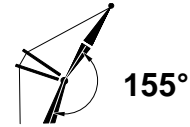
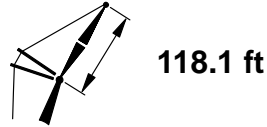
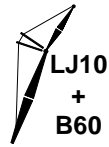


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	389,700	389,700
30	84.3	222.3	389,700	389,700
32	83.8	222.0	389,700	389,700
34	83.2	221.8	389,700	389,700
36	82.7	221.5	389,700	389,700
38	82.2	221.2	389,700	389,700
40	81.6	220.9	371,100	389,700
45	80.3	220.0	309,600	388,700
50	79.0	219.0	261,700	375,900
55	77.6	217.9	223,400	322,300
60	76.2	216.6	192,000	279,700
65	74.9	215.2	165,900	245,100
70	73.5	213.7	143,800	216,400
75	72.1	212.1	124,800	192,200
80	70.7	210.3	108,400	171,500
85	69.3	208.4	94,000	153,600
90	67.8	206.3	81,300	138,000
95	66.4	204.1	70,000	124,300
100	64.9	201.8	59,900	112,100
105	63.4	199.2	50,800	101,300
110	61.9	196.6	42,600	91,500
115	60.4	193.7	35,100	82,700
120	58.9	190.7	28,200	74,600
125	57.3	187.4	22,000	67,300
130	55.7	184.0	16,200	60,600
135	54.1	180.4	10,900	54,400
140	52.4	176.5		48,800
145	50.7	172.4		43,500
150	48.9	168.0		38,600
155	47.1	163.4		34,100
160	45.2	158.4		29,900
165	43.3	153.1		25,900
170	41.3	147.4		21,900
175	39.2	141.3		17,700
180	37.0	134.7		13,700

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	344,500	344,500
32	84.3	241.9	344,500	344,500
34	83.8	241.6	344,500	344,500
36	83.3	241.4	344,500	344,500
38	82.8	241.1	344,500	344,500
40	82.3	240.8	342,300	342,300
45	81.1	240.0	308,900	333,600
50	79.9	239.1	260,900	324,300
55	78.6	238.0	222,500	315,500
60	77.4	236.9	191,100	279,400
65	76.2	235.7	164,900	244,700
70	74.9	234.3	142,700	215,900
75	73.6	232.8	123,700	191,700
80	72.4	231.2	107,200	170,900
85	71.1	229.4	92,800	153,000
90	69.8	227.6	80,100	137,400
95	68.5	225.6	68,800	123,600
100	67.2	223.5	58,600	111,400
105	65.8	221.2	49,500	100,500
110	64.5	218.8	41,300	90,700
115	63.1	216.2	33,800	81,900
120	61.7	213.5	26,900	73,800
125	60.3	210.7	20,600	66,500
130	58.9	207.6	14,800	59,700
135	57.5	204.4		53,600
140	56.0	201.0		47,900
145	54.5	197.5		42,600
150	53.0	193.7		37,700
155	51.5	189.7		33,100
160	49.9	185.4		28,900
165	48.2	181.0		24,800
170	46.6	176.2		20,200
175	44.8	171.2		16,000
180	43.1	165.9		11,900

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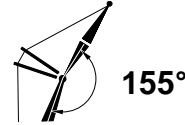
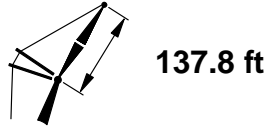
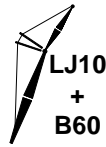
ASME B30.5



ft	°	ft	lb	lb
32	84.7	261.7	279,000	279,000
34	84.3	261.4	279,000	279,000
36	83.8	261.2	279,000	279,000
38	83.4	260.9	279,000	279,000
40	82.9	260.7	279,000	279,000
45	81.8	259.9	279,000	279,000
50	80.7	259.1	261,400	277,000
55	79.5	258.2	222,800	272,700
60	78.4	257.1	191,300	270,300
65	77.2	256.0	165,000	245,200
70	76.1	254.7	142,800	216,300
75	74.9	253.3	123,700	192,000
80	73.8	251.8	107,200	171,200
85	72.6	250.3	92,700	153,200
90	71.4	248.6	80,000	137,600
95	70.2	246.7	68,600	123,800
100	69.0	244.8	58,500	111,500
105	67.8	242.7	49,300	100,600
110	66.6	240.6	41,100	90,800
115	65.3	238.2	33,500	81,900
120	64.1	235.8	26,700	73,800
125	62.8	233.2	20,400	66,400
130	61.6	230.5	14,600	59,700
135	60.3	227.6		53,500
140	59.0	224.6		47,800
145	57.6	221.4		42,500
150	56.3	218.0		37,600
155	54.9	214.5		33,000
160	53.5	210.8		28,800
165	52.1	206.9		24,200
170	50.7	202.8		19,700
175	49.2	198.5		15,400
180	47.7	193.9		11,400

MLC300 VPC-MAX S-1

ASME B30.5

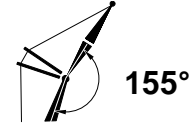
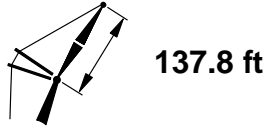
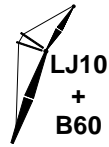


137.8 ft				
ft	°	ft	lb	lb
22	84.4	143.9	571,200	571,200
24	83.6	143.7	570,600	570,600
26	82.7	143.4	570,100	570,100
28	81.9	143.1	569,600	569,600
30	81.0	142.7	540,400	569,200
32	80.2	142.3	490,700	568,900
34	79.3	141.9	447,800	563,300
36	78.5	141.5	410,500	563,300
38	77.6	141.0	377,700	541,200
40	76.8	140.5	348,600	513,900
45	74.6	139.1	288,700	425,000
50	72.4	137.4	242,100	357,100
55	70.2	135.6	204,800	304,900
60	68.0	133.5	174,300	263,400
65	65.7	131.3	149,000	229,700
70	63.3	128.7	127,500	201,800
75	61.0	125.9	109,100	178,200
80	58.5	122.8	93,200	158,100
85	56.0	119.4	79,300	140,800
90	53.4	115.7	67,000	125,700
95	50.7	111.6	56,100	112,300
100	47.9	107.0	46,400	100,600
105	45.0	102.0	37,600	90,100
110	41.9	96.5	29,800	80,600
115	38.5	90.2	22,600	72,100
120	34.9	83.1	16,100	64,400
125	31.0	75.0	10,200	57,500
130	26.4	65.2		51,100

157.5 ft				
ft	°	ft	lb	lb
24	84.4	163.5	524,100	524,100
26	83.6	163.3	523,800	523,800
28	82.9	163.0	523,500	523,500
30	82.2	162.7	523,200	523,200
32	81.4	162.3	494,000	523,100
34	80.7	162.0	451,000	522,900
36	79.9	161.6	413,500	522,900
38	79.2	161.2	380,600	522,900
40	78.5	160.7	351,500	505,100
45	76.6	159.5	291,300	428,000
50	74.7	158.1	244,600	359,900
55	72.8	156.5	207,100	307,400
60	70.9	154.8	176,500	265,800
65	68.9	152.8	151,000	231,900
70	66.9	150.6	129,500	203,800
75	64.9	148.3	111,000	180,200
80	62.9	145.7	95,000	160,000
85	60.8	142.8	81,000	142,500
90	58.6	139.8	68,600	127,300
95	56.5	136.4	57,700	113,900
100	54.2	132.8	47,800	102,000
105	51.9	128.9	39,000	91,400
110	49.5	124.6	31,100	81,900
115	47.0	119.9	23,800	73,300
120	44.4	114.8	17,200	65,500
125	41.7	109.2	11,200	58,400
130	38.8	103.0		51,900
135	35.7	96.1		46,000
140	32.3	88.3		40,500
145	28.6	79.4		35,500

MLC300 VPC-MAX S-1

ASME B30.5

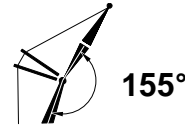
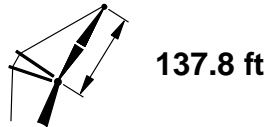
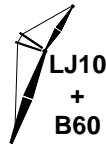


177.2 ft				
ft	°	ft	lb	lb
24	85.0	183.3	475,400	475,400
26	84.3	183.1	475,200	475,200
28	83.7	182.9	475,200	475,200
30	83.0	182.6	475,100	475,100
32	82.4	182.3	474,900	474,900
34	81.7	182.0	454,100	474,900
36	81.1	181.6	416,600	474,900
38	80.4	181.3	383,600	474,900
40	79.8	180.9	354,400	474,900
45	78.1	179.8	294,100	430,900
50	76.4	178.5	247,300	362,600
55	74.8	177.2	209,800	310,000
60	73.1	175.6	179,100	268,200
65	71.4	173.9	153,500	234,200
70	69.6	172.0	131,900	206,100
75	67.9	169.9	113,400	182,300
80	66.1	167.7	97,300	162,100
85	64.3	165.3	83,200	144,500
90	62.5	162.6	70,800	129,300
95	60.6	159.8	59,800	115,800
100	58.7	156.7	50,000	103,900
105	56.8	153.4	41,100	93,200
110	54.8	149.9	33,100	83,700
115	52.8	146.1	25,800	75,000
120	50.7	142.0	19,100	67,200
125	48.5	137.5	13,100	60,000
130	46.3	132.8		53,500
135	44.0	127.6		47,500
140	41.5	121.9		42,000
145	39.0	115.8		36,900
150	36.2	109.0		32,100
155	33.3	101.5		27,700
160	30.1	93.0		23,600
165	26.6	83.3		19,400

196.9 ft				
ft	°	ft	lb	lb
26	84.9	202.9	427,600	427,600
28	84.3	202.7	427,600	427,600
30	83.7	202.4	427,600	427,600
32	83.2	202.2	427,600	427,600
34	82.6	201.9	427,600	427,600
36	82.0	201.6	417,500	427,600
38	81.4	201.3	384,400	427,600
40	80.8	200.9	355,200	427,600
45	79.3	199.9	294,700	427,600
50	77.8	198.8	247,700	363,700
55	76.3	197.6	210,100	310,900
60	74.8	196.2	179,400	269,000
65	73.3	194.7	153,800	234,900
70	71.8	193.0	132,100	206,600
75	70.2	191.2	113,500	182,800
80	68.6	189.2	97,400	162,500
85	67.1	187.1	83,300	144,900
90	65.5	184.7	70,800	129,600
95	63.8	182.3	59,800	116,100
100	62.2	179.6	49,900	104,100
105	60.5	176.7	41,000	93,400
110	58.8	173.7	32,900	83,800
115	57.1	170.4	25,600	75,100
120	55.3	167.0	18,900	67,200
125	53.5	163.2	12,800	60,000
130	51.6	159.3		53,400
135	49.7	155.0		47,400
140	47.7	150.5		41,800
145	45.7	145.6		36,700
150	43.6	140.3		31,900
155	41.4	134.7		27,500
160	39.1	128.6		23,100
165	36.7	121.9		18,400
170	34.1	114.6		14,000

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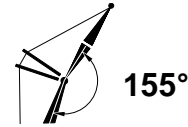
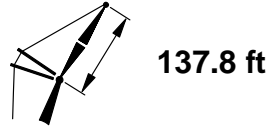
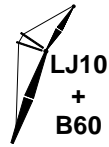


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	382,200	382,200
30	84.3	222.3	382,200	382,200
32	83.8	222.0	382,200	382,200
34	83.2	221.8	382,200	382,200
36	82.7	221.5	382,200	382,200
38	82.2	221.2	382,200	382,200
40	81.6	220.9	356,700	382,200
45	80.3	220.0	296,100	379,800
50	79.0	219.0	249,100	365,200
55	77.6	217.9	211,400	312,300
60	76.2	216.6	180,600	270,300
65	74.9	215.2	154,900	236,200
70	73.5	213.7	133,200	207,800
75	72.1	212.1	114,600	184,000
80	70.7	210.3	98,400	163,600
85	69.3	208.4	84,300	146,000
90	67.8	206.3	71,800	130,600
95	66.4	204.1	60,800	117,000
100	64.9	201.8	50,800	105,000
105	63.4	199.2	41,900	94,300
110	61.9	196.6	33,800	84,700
115	60.4	193.7	26,500	76,000
120	58.9	190.7	19,800	68,100
125	57.3	187.4	13,600	60,900
130	55.7	184.0		54,300
135	54.1	180.4		48,200
140	52.4	176.5		42,600
145	50.7	172.4		37,400
150	48.9	168.0		32,600
155	47.1	163.4		28,200
160	45.2	158.4		23,600
165	43.3	153.1		18,800
170	41.3	147.4		14,400
175	39.2	141.3		10,200

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	338,600	338,600
32	84.3	241.9	338,600	338,600
34	83.8	241.6	338,600	338,600
36	83.3	241.4	338,600	338,600
38	82.8	241.1	337,300	337,300
40	82.3	240.8	333,800	333,800
45	81.1	240.0	295,700	325,100
50	79.9	239.1	248,500	315,700
55	78.6	238.0	210,800	306,800
60	77.4	236.9	179,900	270,200
65	76.2	235.7	154,100	236,000
70	74.9	234.3	132,400	207,600
75	73.6	232.8	113,700	183,600
80	72.4	231.2	97,500	163,200
85	71.1	229.4	83,300	145,500
90	69.8	227.6	70,800	130,100
95	68.5	225.6	59,700	116,500
100	67.2	223.5	49,800	104,500
105	65.8	221.2	40,800	93,700
110	64.5	218.8	32,700	84,100
115	63.1	216.2	25,400	75,300
120	61.7	213.5	18,600	67,400
125	60.3	210.7	12,500	60,200
130	58.9	207.6		53,500
135	57.5	204.4		47,500
140	56.0	201.0		41,800
145	54.5	197.5		36,600
150	53.0	193.7		31,800
155	51.5	189.7		27,100
160	49.9	185.4		22,000
165	48.2	181.0		17,300
170	46.6	176.2		12,800

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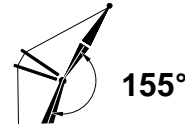
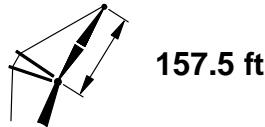
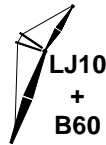
ASME B30.5



 255.9 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
32	84.7	261.7	273,100	273,100
34	84.3	261.4	273,100	273,100
36	83.8	261.2	273,100	273,100
38	83.4	260.9	273,100	273,100
40	82.9	260.7	273,100	273,100
45	81.8	259.9	273,100	273,100
50	80.7	259.1	249,200	268,600
55	79.5	258.2	211,300	264,500
60	78.4	257.1	180,300	262,000
65	77.2	256.0	154,500	236,600
70	76.1	254.7	132,600	208,100
75	74.9	253.3	113,900	184,100
80	73.8	251.8	97,700	163,600
85	72.6	250.3	83,500	145,900
90	71.4	248.6	70,900	130,400
95	70.2	246.7	59,800	116,800
100	69.0	244.8	49,800	104,700
105	67.8	242.7	40,800	93,900
110	66.6	240.6	32,700	84,200
115	65.3	238.2	25,300	75,500
120	64.1	235.8	18,600	67,500
125	62.8	233.2	12,400	60,300
130	61.6	230.5		53,600
135	60.3	227.6		47,500
140	59.0	224.6		41,900
145	57.6	221.4		36,700
150	56.3	218.0		31,900
155	54.9	214.5		26,700
160	53.5	210.8		21,600
165	52.1	206.9		16,900
170	50.7	202.8		12,400

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ASME B30.5

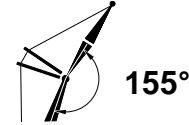
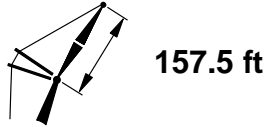
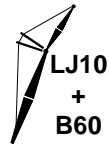


137.8 ft				
ft	°	ft	lb	lb
22	84.4	143.9	558,700	558,700
24	83.6	143.7	557,900	557,900
26	82.7	143.4	557,100	557,200
28	81.9	143.1	556,500	556,500
30	81.0	142.7	518,800	555,900
32	80.2	142.3	470,000	555,500
34	79.3	141.9	428,000	555,100
36	78.5	141.5	391,400	554,800
38	77.6	141.0	359,200	527,600
40	76.8	140.5	330,700	500,400
45	74.6	139.1	272,000	410,500
50	72.4	137.4	226,300	343,800
55	70.2	135.6	189,800	292,400
60	68.0	133.5	160,000	251,600
65	65.7	131.3	135,200	218,400
70	63.3	128.7	114,200	190,900
75	61.0	125.9	96,200	167,800
80	58.5	122.8	80,600	148,000
85	56.0	119.4	67,000	131,000
90	53.4	115.7	55,000	116,200
95	50.7	111.6	44,400	103,100
100	47.9	107.0	35,000	91,500
105	45.0	102.0	26,500	81,300
110	41.9	96.5	18,800	72,000
115	38.5	90.2	11,900	63,700
120	34.9	83.1		56,200
125	31.0	75.0		49,400
130	26.4	65.2		43,300

157.5 ft				
ft	°	ft	lb	lb
24	84.4	163.5	512,900	512,900
26	83.6	163.3	512,400	512,400
28	82.9	163.0	512,000	512,000
30	82.2	162.7	511,700	511,700
32	81.4	162.3	473,900	511,400
34	80.7	162.0	431,700	511,200
36	79.9	161.6	395,000	511,000
38	79.2	161.2	362,700	510,800
40	78.5	160.7	334,200	492,600
45	76.6	159.5	275,200	414,100
50	74.7	158.1	229,400	347,000
55	72.8	156.5	192,800	295,400
60	70.9	154.8	162,800	254,400
65	68.9	152.8	137,800	221,100
70	66.9	150.6	116,700	193,400
75	64.9	148.3	98,600	170,200
80	62.9	145.7	82,900	150,300
85	60.8	142.8	69,300	133,100
90	58.6	139.8	57,200	118,200
95	56.5	136.4	46,500	105,000
100	54.2	132.8	36,900	93,400
105	51.9	128.9	28,300	83,000
110	49.5	124.6	20,500	73,600
115	47.0	119.9	13,500	65,200
120	44.4	114.8		57,600
125	41.7	109.2		50,600
130	38.8	103.0		44,300
135	35.7	96.1		38,500
140	32.3	88.3		33,200
145	28.6	79.4		28,300

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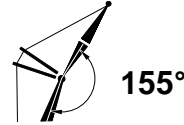
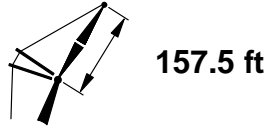
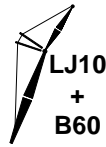


177.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
24	85.0	183.3	465,400	465,400
26	84.3	183.1	465,100	465,100
28	83.7	182.9	464,900	464,900
30	83.0	182.6	464,700	464,700
32	82.4	182.3	464,500	464,500
34	81.7	182.0	435,300	464,500
36	81.1	181.6	398,500	464,500
38	80.4	181.3	366,200	464,400
40	79.8	180.9	337,600	464,400
45	78.1	179.8	278,500	417,400
50	76.4	178.5	232,600	350,100
55	74.8	177.2	195,800	298,300
60	73.1	175.6	165,800	257,200
65	71.4	173.9	140,700	223,800
70	69.6	172.0	119,500	196,000
75	67.9	169.9	101,400	172,700
80	66.1	167.7	85,700	152,700
85	64.3	165.3	71,900	135,500
90	62.5	162.6	59,800	120,500
95	60.6	159.8	49,000	107,300
100	58.7	156.7	39,400	95,500
105	56.8	153.4	30,700	85,100
110	54.8	149.9	22,900	75,700
115	52.8	146.1	15,800	67,200
120	50.7	142.0		59,500
125	48.5	137.5		52,500
130	46.3	132.8		46,100
135	44.0	127.6		40,200
140	41.5	121.9		34,800
145	39.0	115.8		29,800
150	36.2	109.0		25,200
155	33.3	101.5		20,000
160	30.1	93.0		15,200
165	26.6	83.3		10,700

196.9 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
26	84.9	202.9	418,200	418,200
28	84.3	202.7	418,200	418,200
30	83.7	202.4	418,200	418,200
32	83.2	202.2	418,200	418,200
34	82.6	201.9	418,200	418,200
36	82.0	201.6	399,800	418,200
38	81.4	201.3	367,400	418,200
40	80.8	200.9	338,700	418,200
45	79.3	199.9	279,500	418,200
50	77.8	198.8	233,400	351,500
55	76.3	197.6	196,600	299,600
60	74.8	196.2	166,400	258,300
65	73.3	194.7	141,300	224,700
70	71.8	193.0	120,100	196,900
75	70.2	191.2	101,900	173,500
80	68.6	189.2	86,100	153,500
85	67.1	187.1	72,300	136,200
90	65.5	184.7	60,100	121,100
95	63.8	182.3	49,300	107,800
100	62.2	179.6	39,600	96,000
105	60.5	176.7	30,900	85,500
110	58.8	173.7	23,000	76,100
115	57.1	170.4	15,900	67,500
120	55.3	167.0		59,800
125	53.5	163.2		52,700
130	51.6	159.3		46,300
135	49.7	155.0		40,300
140	47.7	150.5		34,900
145	45.7	145.6		29,800
150	43.6	140.3		24,700
155	41.4	134.7		19,400
160	39.1	128.6		14,500

MLC300 VPC-MAX S-1

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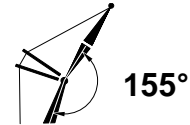
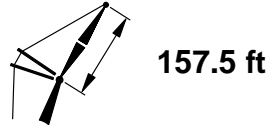
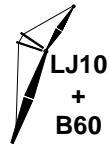


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	373,400	373,400
30	84.3	222.3	373,400	373,400
32	83.8	222.0	373,400	373,400
34	83.2	221.8	373,400	373,400
36	82.7	221.5	373,400	373,400
38	82.2	221.2	369,300	373,400
40	81.6	220.9	340,500	373,400
45	80.3	220.0	281,200	369,400
50	79.0	219.0	235,100	353,300
55	77.6	217.9	198,200	301,200
60	76.2	216.6	168,000	259,900
65	74.9	215.2	142,800	226,300
70	73.5	213.7	121,500	198,400
75	72.1	212.1	103,300	174,900
80	70.7	210.3	87,500	154,800
85	69.3	208.4	73,600	137,500
90	67.8	206.3	61,400	122,300
95	66.4	204.1	50,600	109,000
100	64.9	201.8	40,900	97,200
105	63.4	199.2	32,100	86,600
110	61.9	196.6	24,300	77,200
115	60.4	193.7	17,100	68,600
120	58.9	190.7	10,500	60,800
125	57.3	187.4		53,800
130	55.7	184.0		47,300
135	54.1	180.4		41,300
140	52.4	176.5		35,800
145	50.7	172.4		30,700
150	48.9	168.0		25,400
155	47.1	163.4		20,100
160	45.2	158.4		15,100
165	43.3	153.1		10,500

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	331,300	331,300
32	84.3	241.9	331,300	331,300
34	83.8	241.6	331,300	331,300
36	83.3	241.4	330,900	330,900
38	82.8	241.1	327,400	327,400
40	82.3	240.8	323,900	324,000
45	81.1	240.0	281,000	315,100
50	79.9	239.1	234,800	305,700
55	78.6	238.0	197,800	296,700
60	77.4	236.9	167,500	260,000
65	76.2	235.7	142,300	226,300
70	74.9	234.3	120,900	198,300
75	73.6	232.8	102,600	174,800
80	72.4	231.2	86,800	154,600
85	71.1	229.4	72,900	137,200
90	69.8	227.6	60,700	122,000
95	68.5	225.6	49,800	108,700
100	67.2	223.5	40,100	96,800
105	65.8	221.2	31,300	86,300
110	64.5	218.8	23,400	76,700
115	63.1	216.2	16,200	68,200
120	61.7	213.5		60,400
125	60.3	210.7		53,200
130	58.9	207.6		46,700
135	57.5	204.4		40,700
140	56.0	201.0		35,200
145	54.5	197.5		29,800
150	53.0	193.7		24,100
155	51.5	189.7		18,700
160	49.9	185.4		13,800

MLC300 VPC-MAX S-1

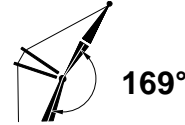
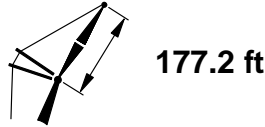
ASME B30.5



ft	°	ft	lb	lb
32	84.7	261.7	266,400	266,400
34	84.3	261.4	266,400	266,400
36	83.8	261.2	266,400	266,400
38	83.4	260.9	266,400	266,400
40	82.9	260.7	266,400	266,400
45	81.8	259.9	266,400	266,400
50	80.7	259.1	235,600	259,000
55	79.5	258.2	198,500	255,000
60	78.4	257.1	168,100	252,600
65	77.2	256.0	142,800	227,100
70	76.1	254.7	121,400	199,000
75	74.9	253.3	103,100	175,400
80	73.8	251.8	87,200	155,200
85	72.6	250.3	73,200	137,800
90	71.4	248.6	61,000	122,500
95	70.2	246.7	50,100	109,100
100	69.0	244.8	40,300	97,200
105	67.8	242.7	31,500	86,600
110	66.6	240.6	23,600	77,100
115	65.3	238.2	16,300	68,500
120	64.1	235.8		60,600
125	62.8	233.2		53,500
130	61.6	230.5		47,000
135	60.3	227.6		41,000
140	59.0	224.6		35,400
145	57.6	221.4		29,500
150	56.3	218.0		23,800
155	54.9	214.5		18,500
160	53.5	210.8		13,600

MLC300 VPC-MAX S-1

ASME B30.5

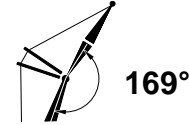
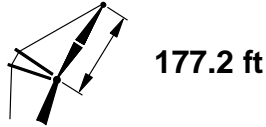
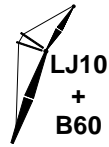


137.8 ft				
ft	°	ft	lb	lb
22	84.4	143.9	571,700	571,700
24	83.6	143.7	570,500	570,500
26	82.7	143.4	569,300	569,300
28	81.9	143.1	568,300	568,300
30	81.0	142.7	548,500	567,400
32	80.2	142.3	496,600	566,400
34	79.3	141.9	451,800	563,400
36	78.5	141.5	412,800	563,400
38	77.6	141.0	378,600	541,100
40	76.8	140.5	348,300	512,900
45	74.6	139.1	285,700	423,200
50	72.4	137.4	237,000	353,500
55	70.2	135.6	198,000	299,800
60	68.0	133.5	166,200	257,100
65	65.7	131.3	139,600	222,400
70	63.3	128.7	117,100	193,600
75	61.0	125.9	97,800	169,400
80	58.5	122.8	81,100	148,600
85	56.0	119.4	66,400	130,700
90	53.4	115.7	53,500	115,100
95	50.7	111.6	42,000	101,300
100	47.9	107.0	31,700	89,100
105	45.0	102.0	22,400	78,200
110	41.9	96.5	14,100	68,400
115	38.5	90.2		59,500
120	34.9	83.1		51,500
125	31.0	75.0		44,100
130	26.4	65.2		37,400
135	20.9	53.0		31,200

157.5 ft				
ft	°	ft	lb	lb
24	84.4	163.5	522,900	522,900
26	83.6	163.3	522,100	522,100
28	82.9	163.0	521,400	521,400
30	82.2	162.7	520,700	520,700
32	81.4	162.3	501,500	520,200
34	80.7	162.0	456,700	519,600
36	79.9	161.6	417,600	519,100
38	79.2	161.2	383,300	518,700
40	78.5	160.7	352,900	505,400
45	76.6	159.5	290,100	427,900
50	74.7	158.1	241,300	357,900
55	72.8	156.5	202,200	303,900
60	70.9	154.8	170,300	261,100
65	68.9	152.8	143,600	226,200
70	66.9	150.6	121,100	197,300
75	64.9	148.3	101,700	173,000
80	62.9	145.7	84,900	152,200
85	60.8	142.8	70,300	134,200
90	58.6	139.8	57,300	118,500
95	56.5	136.4	45,800	104,700
100	54.2	132.8	35,400	92,400
105	51.9	128.9	26,200	81,400
110	49.5	124.6	17,700	71,600
115	47.0	119.9	10,100	62,700
120	44.4	114.8		54,600
125	41.7	109.2		47,200
130	38.8	103.0		40,400
135	35.7	96.1		34,200
140	32.3	88.3		28,400
145	28.6	79.4		22,500
150	24.3	68.7		16,500
155	19.1	55.2		10,800

MLC300 VPC-MAX S-1

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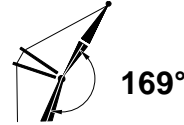
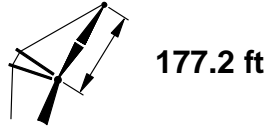
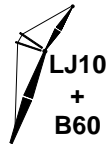


177.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
24	85.0	183.3	473,100	473,100
26	84.3	183.1	472,600	472,600
28	83.7	182.9	472,200	472,200
30	83.0	182.6	471,800	471,800
32	82.4	182.3	471,500	471,500
34	81.7	182.0	461,100	471,200
36	81.1	181.6	422,000	471,000
38	80.4	181.3	387,600	470,700
40	79.8	180.9	357,100	470,600
45	78.1	179.8	294,300	432,000
50	76.4	178.5	245,400	361,800
55	74.8	177.2	206,300	307,700
60	73.1	175.6	174,300	264,700
65	71.4	173.9	147,600	229,800
70	69.6	172.0	125,000	200,800
75	67.9	169.9	105,600	176,400
80	66.1	167.7	88,800	155,500
85	64.3	165.3	74,100	137,500
90	62.5	162.6	61,100	121,800
95	60.6	159.8	49,600	107,900
100	58.7	156.7	39,200	95,600
105	56.8	153.4	29,900	84,600
110	54.8	149.9	21,500	74,700
115	52.8	146.1	13,800	65,800
120	50.7	142.0		57,700
125	48.5	137.5		50,300
130	46.3	132.8		43,500
135	44.0	127.6		37,200
140	41.5	121.9		31,500
145	39.0	115.8		25,900
150	36.2	109.0		19,800
155	33.3	101.5		14,200

196.9 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
26	84.9	202.9	423,500	423,500
28	84.3	202.7	423,400	423,400
30	83.7	202.4	423,400	423,400
32	83.2	202.2	423,300	423,300
34	82.6	201.9	423,300	423,300
36	82.0	201.6	423,300	423,300
38	81.4	201.3	389,500	423,300
40	80.8	200.9	358,900	423,300
45	79.3	199.9	296,000	423,300
50	77.8	198.8	247,000	363,800
55	76.3	197.6	207,800	309,600
60	74.8	196.2	175,700	266,500
65	73.3	194.7	149,000	231,500
70	71.8	193.0	126,300	202,400
75	70.2	191.2	106,900	177,900
80	68.6	189.2	90,100	157,000
85	67.1	187.1	75,400	138,900
90	65.5	184.7	62,400	123,100
95	63.8	182.3	50,800	109,200
100	62.2	179.6	40,400	96,800
105	60.5	176.7	31,100	85,800
110	58.8	173.7	22,700	75,900
115	57.1	170.4	15,000	66,900
120	55.3	167.0		58,800
125	53.5	163.2		51,400
130	51.6	159.3		44,600
135	49.7	155.0		38,300
140	47.7	150.5		32,500
145	45.7	145.6		26,600
150	43.6	140.3		20,600
155	41.4	134.7		15,000

MLC300 VPC-MAX S-1

ASME B30.5

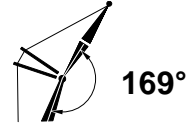
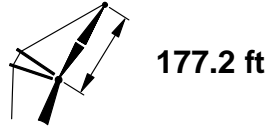
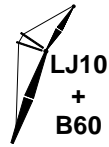


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	376,700	376,700
30	84.3	222.3	376,700	376,700
32	83.8	222.0	376,700	376,700
34	83.2	221.8	376,700	376,700
36	82.7	221.5	376,700	376,700
38	82.2	221.2	376,700	376,700
40	81.6	220.9	361,300	376,700
45	80.3	220.0	298,300	375,200
50	79.0	219.0	249,200	364,200
55	77.6	217.9	210,000	311,800
60	76.2	216.6	177,900	268,600
65	74.9	215.2	151,100	233,500
70	73.5	213.7	128,400	204,400
75	72.1	212.1	109,000	179,800
80	70.7	210.3	92,200	158,900
85	69.3	208.4	77,400	140,700
90	67.8	206.3	64,400	124,900
95	66.4	204.1	52,800	111,000
100	64.9	201.8	42,400	98,600
105	63.4	199.2	33,100	87,600
110	61.9	196.6	24,600	77,600
115	60.4	193.7	17,000	68,700
120	58.9	190.7		60,500
125	57.3	187.4		53,100
130	55.7	184.0		46,300
135	54.1	180.4		40,000
140	52.4	176.5		34,200
145	50.7	172.4		28,300
150	48.9	168.0		22,300
155	47.1	163.4		16,700
160	45.2	158.4		11,400

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	327,900	327,900
32	84.3	241.9	327,900	327,900
34	83.8	241.6	327,900	327,900
36	83.3	241.4	327,900	327,900
38	82.8	241.1	327,900	327,900
40	82.3	240.8	327,900	327,900
45	81.1	240.0	298,600	320,400
50	79.9	239.1	249,400	311,000
55	78.6	238.0	210,100	302,100
60	77.4	236.9	177,900	269,200
65	76.2	235.7	151,100	234,000
70	74.9	234.3	128,400	204,800
75	73.6	232.8	108,900	180,200
80	72.4	231.2	92,000	159,200
85	71.1	229.4	77,300	141,000
90	69.8	227.6	64,200	125,100
95	68.5	225.6	52,600	111,200
100	67.2	223.5	42,200	98,800
105	65.8	221.2	32,900	87,700
110	64.5	218.8	24,400	77,700
115	63.1	216.2	16,700	68,700
120	61.7	213.5		60,600
125	60.3	210.7		53,100
130	58.9	207.6		46,300
135	57.5	204.4		40,000
140	56.0	201.0		34,200
145	54.5	197.5		27,700
150	53.0	193.7		21,700
155	51.5	189.7		16,100
160	49.9	185.4		10,900

MLC300 VPC-MAX S-1

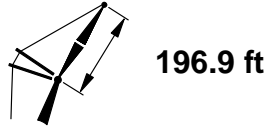
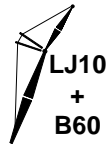
ASME B30.5



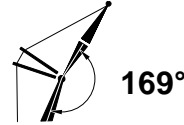
ft	°	ft	lb	lb
32	84.7	261.7	262,900	262,900
34	84.3	261.4	262,900	262,900
36	83.8	261.2	262,900	262,900
38	83.4	260.9	262,900	262,900
40	82.9	260.7	262,900	262,900
45	81.8	259.9	262,900	262,900
50	80.7	259.1	250,700	262,900
55	79.5	258.2	211,300	259,300
60	78.4	257.1	179,000	256,600
65	77.2	256.0	152,100	235,200
70	76.1	254.7	129,300	205,900
75	74.9	253.3	109,800	181,200
80	73.8	251.8	92,900	160,100
85	72.6	250.3	78,100	141,900
90	71.4	248.6	65,000	126,000
95	70.2	246.7	53,400	112,000
100	69.0	244.8	43,000	99,600
105	67.8	242.7	33,600	88,500
110	66.6	240.6	25,100	78,500
115	65.3	238.2	17,400	69,500
120	64.1	235.8	10,300	61,300
125	62.8	233.2		53,800
130	61.6	230.5		46,900
135	60.3	227.6		40,700
140	59.0	224.6		34,500
145	57.6	221.4		28,100
150	56.3	218.0		22,100
155	54.9	214.5		16,500
160	53.5	210.8		11,200

MLC300 VPC-MAX S-1

ASME B30.5



196.9 ft



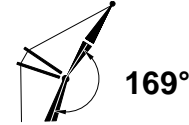
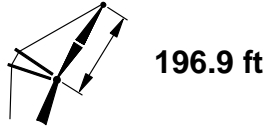
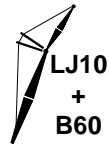
169°

 137.8 ft				
ft	°	ft	lb	lb
22	84.4	143.9	563,800	563,800
24	83.6	143.7	562,400	562,500
26	82.7	143.4	561,100	561,100
28	81.9	143.1	559,800	559,800
30	81.0	142.7	534,800	558,600
32	80.2	142.3	483,300	557,600
34	79.3	141.9	438,900	556,500
36	78.5	141.5	400,200	555,500
38	77.6	141.0	366,300	532,100
40	76.8	140.5	336,200	503,900
45	74.6	139.1	274,100	413,200
50	72.4	137.4	225,800	344,000
55	70.2	135.6	187,100	290,600
60	68.0	133.5	155,500	248,300
65	65.7	131.3	129,100	213,800
70	63.3	128.7	106,800	185,300
75	61.0	125.9	87,700	161,200
80	58.5	122.8	71,100	140,700
85	56.0	119.4	56,600	122,900
90	53.4	115.7	43,800	107,400
95	50.7	111.6	32,500	93,700
100	47.9	107.0	22,300	81,600
105	45.0	102.0	13,100	70,800
110	41.9	96.5		61,100
115	38.5	90.2		52,300
120	34.9	83.1		44,400
125	31.0	75.0		37,100
130	26.4	65.2		30,400
135	20.9	53.0		23,900

 157.5 ft				
ft	°	ft	lb	lb
24	84.4	163.5	515,600	515,600
26	83.6	163.3	514,600	514,600
28	82.9	163.0	513,800	513,800
30	82.2	162.7	512,900	512,900
32	81.4	162.3	488,900	512,200
34	80.7	162.0	444,400	511,500
36	79.9	161.6	405,700	510,900
38	79.2	161.2	371,600	510,300
40	78.5	160.7	341,400	497,100
45	76.6	159.5	279,200	418,400
50	74.7	158.1	230,800	348,900
55	72.8	156.5	192,000	295,400
60	70.9	154.8	160,300	252,800
65	68.9	152.8	133,900	218,200
70	66.9	150.6	111,500	189,600
75	64.9	148.3	92,300	165,400
80	62.9	145.7	75,700	144,700
85	60.8	142.8	61,100	126,900
90	58.6	139.8	48,300	111,300
95	56.5	136.4	36,900	97,600
100	54.2	132.8	26,600	85,400
105	51.9	128.9	17,400	74,500
110	49.5	124.6		64,800
115	47.0	119.9		55,900
120	44.4	114.8		47,900
125	41.7	109.2		40,600
130	38.8	103.0		33,900
135	35.7	96.1		27,500
140	32.3	88.3		20,600
145	28.6	79.4		14,200

MLC300 VPC-MAX S-1

ASME B30.5

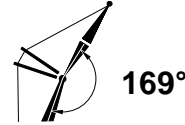
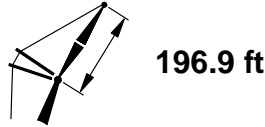
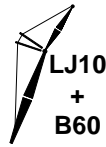


177.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
24	85.0	183.3	466,300	466,300
26	84.3	183.1	465,700	465,700
28	83.7	182.9	465,200	465,300
30	83.0	182.6	464,800	464,800
32	82.4	182.3	464,300	464,300
34	81.7	182.0	449,400	463,900
36	81.1	181.6	410,500	463,500
38	80.4	181.3	376,400	463,300
40	79.8	180.9	346,200	463,000
45	78.1	179.8	283,900	423,000
50	76.4	178.5	235,400	353,300
55	74.8	177.2	196,600	299,600
60	73.1	175.6	164,800	257,000
65	71.4	173.9	138,300	222,300
70	69.6	172.0	115,900	193,500
75	67.9	169.9	96,700	169,300
80	66.1	167.7	80,100	148,500
85	64.3	165.3	65,500	130,600
90	62.5	162.6	52,600	115,000
95	60.6	159.8	41,200	101,300
100	58.7	156.7	30,900	89,000
105	56.8	153.4	21,700	78,100
110	54.8	149.9	13,400	68,300
115	52.8	146.1		59,500
120	50.7	142.0		51,400
125	48.5	137.5		44,100
130	46.3	132.8		37,400
135	44.0	127.6		31,200
140	41.5	121.9		24,400
145	39.0	115.8		18,000
150	36.2	109.0		12,000

196.9 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
26	84.9	202.9	417,100	417,100
28	84.3	202.7	416,900	416,900
30	83.7	202.4	416,700	416,700
32	83.2	202.2	416,700	416,700
34	82.6	201.9	416,500	416,500
36	82.0	201.6	412,900	416,500
38	81.4	201.3	378,700	416,400
40	80.8	200.9	348,400	416,400
45	79.3	199.9	286,000	416,400
50	77.8	198.8	237,400	355,700
55	76.3	197.6	198,500	301,800
60	74.8	196.2	166,700	259,100
65	73.3	194.7	140,200	224,300
70	71.8	193.0	117,700	195,400
75	70.2	191.2	98,500	171,100
80	68.6	189.2	81,800	150,300
85	67.1	187.1	67,200	132,400
90	65.5	184.7	54,300	116,700
95	63.8	182.3	42,800	102,900
100	62.2	179.6	32,500	90,600
105	60.5	176.7	23,300	79,700
110	58.8	173.7	14,900	69,800
115	57.1	170.4		61,000
120	55.3	167.0		52,900
125	53.5	163.2		45,500
130	51.6	159.3		38,800
135	49.7	155.0		32,500
140	47.7	150.5		25,600
145	45.7	145.6		19,200
150	43.6	140.3		13,200

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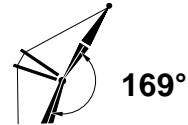
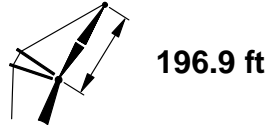
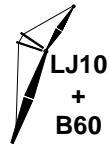


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	370,600	370,600
30	84.3	222.3	370,600	370,600
32	83.8	222.0	370,600	370,600
34	83.2	221.8	370,600	370,600
36	82.7	221.5	370,600	370,600
38	82.2	221.2	370,600	370,600
40	81.6	220.9	351,200	370,600
45	80.3	220.0	288,600	368,000
50	79.0	219.0	240,000	356,800
55	77.6	217.9	201,100	304,400
60	76.2	216.6	169,200	261,500
65	74.9	215.2	142,600	226,600
70	73.5	213.7	120,200	197,700
75	72.1	212.1	100,900	173,300
80	70.7	210.3	84,200	152,500
85	69.3	208.4	69,600	134,500
90	67.8	206.3	56,700	118,800
95	66.4	204.1	45,200	105,000
100	64.9	201.8	34,900	92,700
105	63.4	199.2	25,700	81,700
110	61.9	196.6	17,300	71,900
115	60.4	193.7		63,000
120	58.9	190.7		54,900
125	57.3	187.4		47,500
130	55.7	184.0		40,700
135	54.1	180.4		34,500
140	52.4	176.5		27,600
145	50.7	172.4		21,200
150	48.9	168.0		15,200

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	321,900	321,900
32	84.3	241.9	321,900	321,900
34	83.8	241.6	321,900	321,900
36	83.3	241.4	321,900	321,900
38	82.8	241.1	321,900	321,900
40	82.3	240.8	320,100	320,100
45	81.1	240.0	289,200	311,400
50	79.9	239.1	240,500	302,000
55	78.6	238.0	201,500	293,100
60	77.4	236.9	169,500	262,300
65	76.2	235.7	142,900	227,300
70	74.9	234.3	120,400	198,300
75	73.6	232.8	101,100	173,900
80	72.4	231.2	84,400	153,000
85	71.1	229.4	69,700	135,000
90	69.8	227.6	56,800	119,200
95	68.5	225.6	45,300	105,400
100	67.2	223.5	35,000	93,100
105	65.8	221.2	25,700	82,100
110	64.5	218.8	17,300	72,200
115	63.1	216.2		63,200
120	61.7	213.5		55,100
125	60.3	210.7		47,700
130	58.9	207.6		40,900
135	57.5	204.4		34,200
140	56.0	201.0		27,300
145	54.5	197.5		20,900
150	53.0	193.7		14,900

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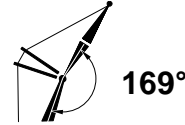
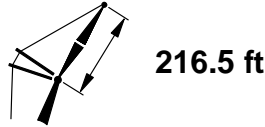
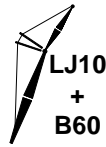
ASME B30.5



ft	°	ft	lb	lb
32	84.7	261.7	257,200	257,200
34	84.3	261.4	257,200	257,200
36	83.8	261.2	257,200	257,200
38	83.4	260.9	257,200	257,200
40	82.9	260.7	257,200	257,200
45	81.8	259.9	257,200	257,200
50	80.7	259.1	242,000	256,900
55	79.5	258.2	202,900	252,500
60	78.4	257.1	170,900	249,700
65	77.2	256.0	144,200	228,700
70	76.1	254.7	121,600	199,600
75	74.9	253.3	102,200	175,100
80	73.8	251.8	85,500	154,200
85	72.6	250.3	70,800	136,100
90	71.4	248.6	57,800	120,300
95	70.2	246.7	46,300	106,400
100	69.0	244.8	36,000	94,100
105	67.8	242.7	26,700	83,000
110	66.6	240.6	18,300	73,100
115	65.3	238.2	10,600	64,200
120	64.1	235.8		56,000
125	62.8	233.2		48,600
130	61.6	230.5		41,800
135	60.3	227.6		34,700
140	59.0	224.6		27,800
145	57.6	221.4		21,500
150	56.3	218.0		15,500
155	54.9	214.5		10,000

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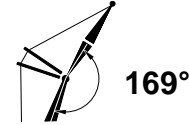
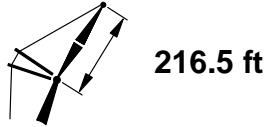
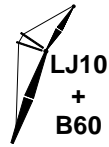


137.8 ft				
ft	°	ft	lb	lb
22	84.4	143.9	554,200	554,200
24	83.6	143.7	552,500	552,500
26	82.7	143.4	550,900	550,900
28	81.9	143.1	549,400	549,400
30	81.0	142.7	518,800	548,000
32	80.2	142.3	467,800	546,600
34	79.3	141.9	423,700	545,400
36	78.5	141.5	385,400	544,000
38	77.6	141.0	351,700	521,400
40	76.8	140.5	321,900	493,100
45	74.6	139.1	260,300	401,400
50	72.4	137.4	212,500	332,700
55	70.2	135.6	174,200	279,800
60	68.0	133.5	142,800	237,800
65	65.7	131.3	116,700	203,700
70	63.3	128.7	94,600	175,400
75	61.0	125.9	75,700	151,500
80	58.5	122.8	59,300	131,200
85	56.0	119.4	44,900	113,600
90	53.4	115.7	32,300	98,200
95	50.7	111.6	21,000	84,700
100	47.9	107.0	10,900	72,700
105	45.0	102.0		62,000
110	41.9	96.5		52,400
115	38.5	90.2		43,700
120	34.9	83.1		35,800
125	31.0	75.0		28,300
130	26.4	65.2		20,300
135	20.9	53.0		13,000

157.5 ft				
ft	°	ft	lb	lb
24	84.4	163.5	506,700	506,700
26	83.6	163.3	505,600	505,600
28	82.9	163.0	504,500	504,500
30	82.2	162.7	503,600	503,600
32	81.4	162.3	474,100	502,700
34	80.7	162.0	430,000	501,800
36	79.9	161.6	391,600	501,000
38	79.2	161.2	357,800	500,300
40	78.5	160.7	327,900	487,200
45	76.6	159.5	266,200	407,300
50	74.7	158.1	218,200	338,300
55	72.8	156.5	179,800	285,200
60	70.9	154.8	148,400	243,000
65	68.9	152.8	122,200	208,700
70	66.9	150.6	100,100	180,300
75	64.9	148.3	81,100	156,300
80	62.9	145.7	64,600	135,900
85	60.8	142.8	50,200	118,200
90	58.6	139.8	37,500	102,700
95	56.5	136.4	26,200	89,100
100	54.2	132.8	16,100	77,100
105	51.9	128.9		66,300
110	49.5	124.6		56,600
115	47.0	119.9		47,900
120	44.4	114.8		40,000
125	41.7	109.2		32,700
130	38.8	103.0		24,700
135	35.7	96.1		17,300
140	32.3	88.3		10,500

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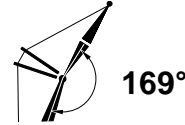
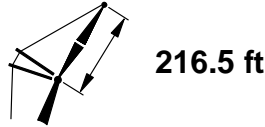
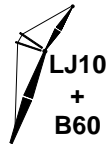


177.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
24	85.0	183.3	457,900	457,900
26	84.3	183.1	457,200	457,200
28	83.7	182.9	456,600	456,600
30	83.0	182.6	456,000	456,000
32	82.4	182.3	455,400	455,400
34	81.7	182.0	435,500	454,900
36	81.1	181.6	397,100	454,400
38	80.4	181.3	363,200	454,000
40	79.8	180.9	333,300	453,600
45	78.1	179.8	271,500	412,400
50	76.4	178.5	223,500	343,300
55	74.8	177.2	185,000	290,000
60	73.1	175.6	153,500	247,700
65	71.4	173.9	127,300	213,300
70	69.6	172.0	105,100	184,700
75	67.9	169.9	86,100	160,700
80	66.1	167.7	69,600	140,200
85	64.3	165.3	55,200	122,400
90	62.5	162.6	42,400	106,900
95	60.6	159.8	31,100	93,300
100	58.7	156.7	21,000	81,200
105	56.8	153.4	11,800	70,400
110	54.8	149.9		60,600
115	52.8	146.1		51,900
120	50.7	142.0		43,900
125	48.5	137.5		36,600
130	46.3	132.8		29,100
135	44.0	127.6		21,700
140	41.5	121.9		14,800

196.9 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
26	84.9	202.9	409,100	409,100
28	84.3	202.7	408,800	408,800
30	83.7	202.4	408,500	408,500
32	83.2	202.2	408,300	408,300
34	82.6	201.9	408,200	408,200
36	82.0	201.6	399,900	408,000
38	81.4	201.3	366,000	408,000
40	80.8	200.9	336,000	407,900
45	79.3	199.9	274,100	407,900
50	77.8	198.8	226,000	346,100
55	76.3	197.6	187,400	292,600
60	74.8	196.2	155,900	250,200
65	73.3	194.7	129,600	215,700
70	71.8	193.0	107,400	187,100
75	70.2	191.2	88,300	162,900
80	68.6	189.2	71,800	142,300
85	67.1	187.1	57,300	124,500
90	65.5	184.7	44,600	109,000
95	63.8	182.3	33,200	95,300
100	62.2	179.6	23,000	83,100
105	60.5	176.7	13,900	72,300
110	58.8	173.7		62,500
115	57.1	170.4		53,700
120	55.3	167.0		45,700
125	53.5	163.2		38,400
130	51.6	159.3		30,800
135	49.7	155.0		23,300
140	47.7	150.5		16,500
145	45.7	145.6		10,100

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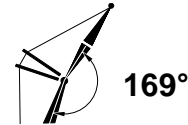
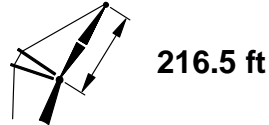
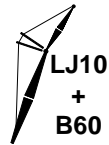


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	363,000	363,000
30	84.3	222.3	363,000	363,000
32	83.8	222.0	363,000	363,000
34	83.2	221.8	363,000	363,000
36	82.7	221.5	363,000	363,000
38	82.2	221.2	363,000	363,000
40	81.6	220.9	339,100	363,000
45	80.3	220.0	277,200	356,800
50	79.0	219.0	229,000	345,700
55	77.6	217.9	190,400	295,500
60	76.2	216.6	158,800	253,000
65	74.9	215.2	132,500	218,400
70	73.5	213.7	110,200	189,700
75	72.1	212.1	91,200	165,500
80	70.7	210.3	74,600	144,900
85	69.3	208.4	60,100	127,000
90	67.8	206.3	47,300	111,400
95	66.4	204.1	36,000	97,700
100	64.9	201.8	25,800	85,500
105	63.4	199.2	16,600	74,700
110	61.9	196.6		64,900
115	60.4	193.7		56,000
120	58.9	190.7		48,000
125	57.3	187.4		40,700
130	55.7	184.0		33,100
135	54.1	180.4		25,700
140	52.4	176.5		18,800
145	50.7	172.4		12,500

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	314,700	314,700
32	84.3	241.9	314,700	314,700
34	83.8	241.6	314,700	314,700
36	83.3	241.4	314,700	314,700
38	82.8	241.1	314,700	314,700
40	82.3	240.8	311,500	311,500
45	81.1	240.0	278,100	302,900
50	79.9	239.1	229,800	293,500
55	78.6	238.0	191,100	284,400
60	77.4	236.9	159,500	254,100
65	76.2	235.7	133,100	219,400
70	74.9	234.3	110,800	190,600
75	73.6	232.8	91,700	166,400
80	72.4	231.2	75,100	145,700
85	71.1	229.4	60,600	127,800
90	69.8	227.6	47,800	112,100
95	68.5	225.6	36,400	98,400
100	67.2	223.5	26,200	86,200
105	65.8	221.2	17,000	75,300
110	64.5	218.8		65,500
115	63.1	216.2		56,600
120	61.7	213.5		48,600
125	60.3	210.7		41,100
130	58.9	207.6		33,100
135	57.5	204.4		25,700
140	56.0	201.0		18,900
145	54.5	197.5		12,500

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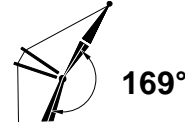
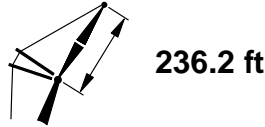
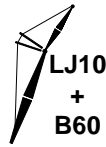
ASME B30.5



ft	°	ft	lb	lb
32	84.7	261.7	249,700	249,700
34	84.3	261.4	249,700	249,700
36	83.8	261.2	249,700	249,700
38	83.4	260.9	249,700	249,700
40	82.9	260.7	249,700	249,700
45	81.8	259.9	249,700	249,700
50	80.7	259.1	231,600	246,300
55	79.5	258.2	192,800	242,000
60	78.4	257.1	161,100	239,100
65	77.2	256.0	134,700	221,000
70	76.1	254.7	112,300	192,200
75	74.9	253.3	93,100	167,800
80	73.8	251.8	76,500	147,100
85	72.6	250.3	61,900	129,100
90	71.4	248.6	49,100	113,400
95	70.2	246.7	37,700	99,600
100	69.0	244.8	27,500	87,400
105	67.8	242.7	18,300	76,500
110	66.6	240.6	10,000	66,600
115	65.3	238.2		57,700
120	64.1	235.8		49,700
125	62.8	233.2		41,900
130	61.6	230.5		33,900
135	60.3	227.6		26,500
140	59.0	224.6		19,700
145	57.6	221.4		13,400

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ASME B30.5

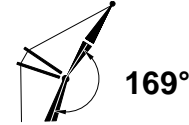
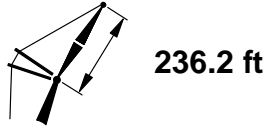
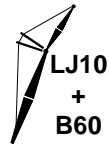


137.8 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
22	84.4	143.9	545,000	545,000
24	83.6	143.7	543,000	543,000
26	82.7	143.4	541,300	541,300
28	81.9	143.1	539,400	539,400
30	81.0	142.7	503,200	537,900
32	80.2	142.3	452,700	536,300
34	79.3	141.9	409,000	534,800
36	78.5	141.5	371,100	533,300
38	77.6	141.0	337,700	511,000
40	76.8	140.5	308,100	481,800
45	74.6	139.1	247,200	389,900
50	72.4	137.4	199,700	321,800
55	70.2	135.6	161,800	269,400
60	68.0	133.5	130,800	227,800
65	65.7	131.3	104,900	194,000
70	63.3	128.7	83,100	165,900
75	61.0	125.9	64,300	142,300
80	58.5	122.8	48,100	122,100
85	56.0	119.4	33,900	104,700
90	53.4	115.7	21,400	89,500
95	50.7	111.6	10,200	76,100
100	47.9	107.0		64,200
105	45.0	102.0		53,700
110	41.9	96.5		44,200
115	38.5	90.2		35,600
120	34.9	83.1		26,400
125	31.0	75.0		17,800
130	26.4	65.2		10,000

157.5 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
24	84.4	163.5	497,900	497,900
26	83.6	163.3	496,700	496,700
28	82.9	163.0	495,500	495,500
30	82.2	162.7	494,300	494,300
32	81.4	162.3	459,800	493,200
34	80.7	162.0	416,100	492,200
36	79.9	161.6	378,000	491,200
38	79.2	161.2	344,600	490,300
40	78.5	160.7	314,900	477,800
45	76.6	159.5	253,800	396,500
50	74.7	158.1	206,300	328,200
55	72.8	156.5	168,300	275,500
60	70.9	154.8	137,100	233,700
65	68.9	152.8	111,200	199,700
70	66.9	150.6	89,300	171,500
75	64.9	148.3	70,500	147,800
80	62.9	145.7	54,200	127,500
85	60.8	142.8	39,900	109,900
90	58.6	139.8	27,300	94,600
95	56.5	136.4	16,200	81,200
100	54.2	132.8		69,200
105	51.9	128.9		58,600
110	49.5	124.6		49,000
115	47.0	119.9		40,300
120	44.4	114.8		31,700
125	41.7	109.2		23,000
130	38.8	103.0		15,100

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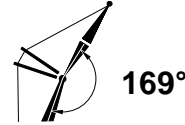
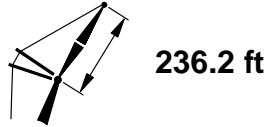
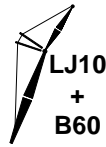


177.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
24	85.0	183.3	449,800	449,800
26	84.3	183.1	449,000	449,000
28	83.7	182.9	448,200	448,200
30	83.0	182.6	447,500	447,500
32	82.4	182.3	446,900	446,900
34	81.7	182.0	422,200	446,200
36	81.1	181.6	384,100	445,600
38	80.4	181.3	350,600	445,100
40	79.8	180.9	320,900	444,600
45	78.1	179.8	259,700	402,200
50	76.4	178.5	212,100	333,600
55	74.8	177.2	174,100	280,800
60	73.1	175.6	142,900	238,900
65	71.4	173.9	116,900	204,800
70	69.6	172.0	95,000	176,500
75	67.9	169.9	76,100	152,600
80	66.1	167.7	59,800	132,300
85	64.3	165.3	45,500	114,700
90	62.5	162.6	32,900	99,300
95	60.6	159.8	21,700	85,800
100	58.7	156.7	11,700	73,800
105	56.8	153.4		63,100
110	54.8	149.9		53,500
115	52.8	146.1		44,800
120	50.7	142.0		36,700
125	48.5	137.5		28,000
130	46.3	132.8		20,100
135	44.0	127.6		12,800

196.9 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
26	84.9	202.9	401,500	401,500
28	84.3	202.7	401,100	401,200
30	83.7	202.4	400,900	400,900
32	83.2	202.2	400,600	400,600
34	82.6	201.9	400,400	400,400
36	82.0	201.6	387,400	400,100
38	81.4	201.3	353,800	400,000
40	80.8	200.9	324,100	399,800
45	79.3	199.9	262,800	399,600
50	77.8	198.8	215,100	336,900
55	76.3	197.6	177,000	283,900
60	74.8	196.2	145,800	241,800
65	73.3	194.7	119,700	207,600
70	71.8	193.0	97,700	179,200
75	70.2	191.2	78,800	155,300
80	68.6	189.2	62,500	134,800
85	67.1	187.1	48,200	117,200
90	65.5	184.7	35,500	101,800
95	63.8	182.3	24,300	88,200
100	62.2	179.6	14,200	76,200
105	60.5	176.7		65,400
110	58.8	173.7		55,800
115	57.1	170.4		47,000
120	55.3	167.0		38,800
125	53.5	163.2		30,200
130	51.6	159.3		22,200
135	49.7	155.0		14,900

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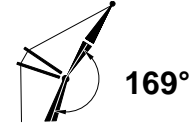
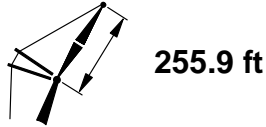
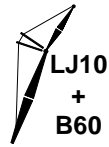


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	355,600	355,600
30	84.3	222.3	355,600	355,600
32	83.8	222.0	355,600	355,600
34	83.2	221.8	355,600	355,600
36	82.7	221.5	355,600	355,600
38	82.2	221.2	355,600	355,600
40	81.6	220.9	327,600	355,600
45	80.3	220.0	266,300	348,200
50	79.0	219.0	218,500	337,000
55	77.6	217.9	180,300	287,100
60	76.2	216.6	149,100	244,900
65	74.9	215.2	123,000	210,600
70	73.5	213.7	101,000	182,200
75	72.1	212.1	82,100	158,200
80	70.7	210.3	65,700	137,700
85	69.3	208.4	51,400	120,000
90	67.8	206.3	38,700	104,600
95	66.4	204.1	27,500	91,000
100	64.9	201.8	17,400	78,900
105	63.4	199.2		68,100
110	61.9	196.6		58,400
115	60.4	193.7		49,700
120	58.9	190.7		41,500
125	57.3	187.4		32,900
130	55.7	184.0		24,900
135	54.1	180.4		17,600
140	52.4	176.5		10,800

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	307,600	307,600
32	84.3	241.9	307,600	307,600
34	83.8	241.6	307,600	307,600
36	83.3	241.4	307,600	307,600
38	82.8	241.1	306,800	306,800
40	82.3	240.8	303,400	303,400
45	81.1	240.0	267,500	294,600
50	79.9	239.1	219,700	285,100
55	78.6	238.0	181,400	276,100
60	77.4	236.9	150,100	246,300
65	76.2	235.7	124,000	211,900
70	74.9	234.3	101,900	183,400
75	73.6	232.8	83,000	159,300
80	72.4	231.2	66,600	138,800
85	71.1	229.4	52,200	121,000
90	69.8	227.6	39,500	105,500
95	68.5	225.6	28,200	91,900
100	67.2	223.5	18,100	79,800
105	65.8	221.2		69,000
110	64.5	218.8		59,300
115	63.1	216.2		50,500
120	61.7	213.5		41,800
125	60.3	210.7		33,200
130	58.9	207.6		25,300
135	57.5	204.4		18,000
140	56.0	201.0		11,200

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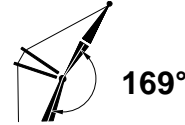
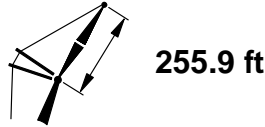


137.8 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
22	84.4	143.9	534,300	534,300
24	83.6	143.7	532,100	532,100
26	82.7	143.4	530,100	530,100
28	81.9	143.1	528,000	528,000
30	81.0	142.7	485,700	526,100
32	80.2	142.3	435,600	524,200
34	79.3	141.9	392,400	522,400
36	78.5	141.5	354,800	520,600
38	77.6	141.0	321,800	499,200
40	76.8	140.5	292,500	468,000
45	74.6	139.1	232,200	377,000
50	72.4	137.4	185,300	309,600
55	70.2	135.6	147,700	257,600
60	68.0	133.5	117,000	216,400
65	65.7	131.3	91,500	182,900
70	63.3	128.7	69,800	155,200
75	61.0	125.9	51,300	131,800
80	58.5	122.8	35,200	111,800
85	56.0	119.4	21,200	94,600
90	53.4	115.7		79,500
95	50.7	111.6		66,300
100	47.9	107.0		54,600
105	45.0	102.0		44,100
110	41.9	96.5		33,800
115	38.5	90.2		23,600
120	34.9	83.1		14,300

157.5 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
24	84.4	163.5	487,800	487,800
26	83.6	163.3	486,400	486,400
28	82.9	163.0	485,000	485,000
30	82.2	162.7	483,700	483,700
32	81.4	162.3	443,600	482,400
34	80.7	162.0	400,300	481,200
36	79.9	161.6	362,600	480,000
38	79.2	161.2	329,500	478,900
40	78.5	160.7	300,200	466,900
45	76.6	159.5	239,700	384,400
50	74.7	158.1	192,700	316,600
55	72.8	156.5	155,000	264,500
60	70.9	154.8	124,300	223,100
65	68.9	152.8	98,600	189,400
70	66.9	150.6	76,900	161,500
75	64.9	148.3	58,300	137,900
80	62.9	145.7	42,200	117,800
85	60.8	142.8	28,100	100,500
90	58.6	139.8	15,700	85,400
95	56.5	136.4		72,000
100	54.2	132.8		60,200
105	51.9	128.9		49,700
110	49.5	124.6		40,000
115	47.0	119.9		29,700
120	44.4	114.8		20,400
125	41.7	109.2		11,800

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ASME B30.5

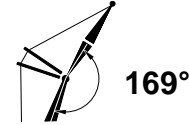
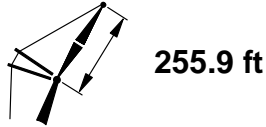
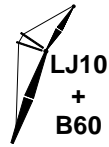


<p>177.2 ft</p>				
ft	°	ft	34.8 ft lb	48.0 ft lb
24	85.0	183.3	440,500	440,500
26	84.3	183.1	439,700	439,700
28	83.7	182.9	438,700	438,700
30	83.0	182.6	438,000	438,000
32	82.4	182.3	437,200	437,200
34	81.7	182.0	407,100	436,400
36	81.1	181.6	369,400	435,700
38	80.4	181.3	336,200	435,000
40	79.8	180.9	306,800	434,400
45	78.1	179.8	246,300	390,600
50	76.4	178.5	199,200	322,700
55	74.8	177.2	161,500	270,300
60	73.1	175.6	130,700	228,800
65	71.4	173.9	105,000	195,000
70	69.6	172.0	83,200	167,000
75	67.9	169.9	64,600	143,400
80	66.1	167.7	48,500	123,200
85	64.3	165.3	34,300	105,800
90	62.5	162.6	21,900	90,600
95	60.6	159.8	10,800	77,200
100	58.7	156.7		65,300
105	56.8	153.4		54,700
110	54.8	149.9		45,200
115	52.8	146.1		35,400
120	50.7	142.0		26,000
125	48.5	137.5		17,500

<p>196.9 ft</p>				
ft	°	ft	34.8 ft lb	48.0 ft lb
26	84.9	202.9	392,400	392,400
28	84.3	202.7	392,000	392,000
30	83.7	202.4	391,700	391,700
32	83.2	202.2	391,300	391,300
34	82.6	201.9	391,000	391,000
36	82.0	201.6	373,200	390,700
38	81.4	201.3	340,000	390,400
40	80.8	200.9	310,600	390,200
45	79.3	199.9	249,900	389,800
50	77.8	198.8	202,700	326,400
55	76.3	197.6	165,000	273,900
60	74.8	196.2	134,100	232,200
65	73.3	194.7	108,300	198,300
70	71.8	193.0	86,600	170,200
75	70.2	191.2	67,900	146,500
80	68.6	189.2	51,700	126,200
85	67.1	187.1	37,500	108,700
90	65.5	184.7	25,000	93,500
95	63.8	182.3	13,900	80,000
100	62.2	179.6		68,100
105	60.5	176.7		57,500
110	58.8	173.7		47,900
115	57.1	170.4		38,100
120	55.3	167.0		28,700
125	53.5	163.2		20,100
130	51.6	159.3		12,200

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ASME B30.5

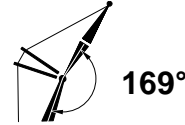
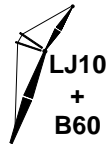


216.5 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
28	84.8	222.5	346,800	346,800
30	84.3	222.3	346,800	346,800
32	83.8	222.0	346,800	346,800
34	83.2	221.8	346,700	346,700
36	82.7	221.5	346,700	346,700
38	82.2	221.2	344,000	346,700
40	81.6	220.9	314,500	346,700
45	80.3	220.0	253,800	338,200
50	79.0	219.0	206,600	326,900
55	77.6	217.9	168,800	277,500
60	76.2	216.6	137,800	235,700
65	74.9	215.2	112,100	201,700
70	73.5	213.7	90,300	173,500
75	72.1	212.1	71,600	149,700
80	70.7	210.3	55,400	129,400
85	69.3	208.4	41,200	111,900
90	67.8	206.3	28,700	96,600
95	66.4	204.1	17,500	83,100
100	64.9	201.8		71,200
105	63.4	199.2		60,500
110	61.9	196.6		50,900
115	60.4	193.7		41,200
120	58.9	190.7		31,800
125	57.3	187.4		23,300
130	55.7	184.0		15,400

236.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
30	84.8	242.1	299,200	299,200
32	84.3	241.9	299,200	299,200
34	83.8	241.6	299,200	299,200
36	83.3	241.4	299,200	299,200
38	82.8	241.1	297,100	297,100
40	82.3	240.8	293,700	293,700
45	81.1	240.0	255,400	285,000
50	79.9	239.1	208,100	275,500
55	78.6	238.0	170,200	266,400
60	77.4	236.9	139,200	237,400
65	76.2	235.7	113,400	203,300
70	74.9	234.3	91,600	175,000
75	73.6	232.8	72,800	151,200
80	72.4	231.2	56,600	130,800
85	71.1	229.4	42,400	113,200
90	69.8	227.6	29,800	97,900
95	68.5	225.6	18,700	84,400
100	67.2	223.5		72,400
105	65.8	221.2		61,700
110	64.5	218.8		52,000
115	63.1	216.2		41,800
120	61.7	213.5		32,500
125	60.3	210.7		24,000
130	58.9	207.6		16,100

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ASME B30.5

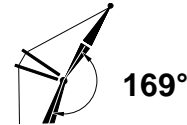
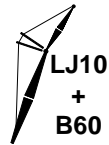


137.8 ft				
ft	°	ft	lb	lb
22	84.4	143.9	524,400	524,400
24	83.6	143.7	522,000	522,000
26	82.7	143.4	519,600	519,600
28	81.9	143.1	517,300	517,300
30	81.0	142.7	469,000	515,100
32	80.2	142.3	419,500	513,000
34	79.3	141.9	376,700	510,900
36	78.5	141.5	339,500	509,000
38	77.6	141.0	306,800	488,100
40	76.8	140.5	277,900	454,900
45	74.6	139.1	218,100	364,700
50	72.4	137.4	171,700	298,000
55	70.2	135.6	134,600	246,600
60	68.0	133.5	104,200	205,800
65	65.7	131.3	78,900	172,600
70	63.3	128.7	57,500	145,100
75	61.0	125.9	39,200	122,000
80	58.5	122.8	23,300	102,200
85	56.0	119.4		85,100
90	53.4	115.7		70,300
95	50.7	111.6		57,200
100	47.9	107.0		45,600
105	45.0	102.0		33,500
110	41.9	96.5		22,300
115	38.5	90.2		12,200

157.5 ft				
ft	°	ft	lb	lb
24	84.4	163.5	478,500	478,500
26	83.6	163.3	476,900	476,900
28	82.9	163.0	475,300	475,300
30	82.2	162.7	473,800	473,800
32	81.4	162.3	428,200	472,400
34	80.7	162.0	385,400	471,000
36	79.9	161.6	348,100	469,600
38	79.2	161.2	315,400	468,400
40	78.5	160.7	286,300	456,700
45	76.6	159.5	226,500	372,900
50	74.7	158.1	180,000	305,800
55	72.8	156.5	142,700	254,100
60	70.9	154.8	112,300	213,100
65	68.9	152.8	86,900	179,800
70	66.9	150.6	65,400	152,100
75	64.9	148.3	47,100	128,800
80	62.9	145.7	31,100	108,900
85	60.8	142.8	17,200	91,800
90	58.6	139.8		76,800
95	56.5	136.4		63,600
100	54.2	132.8		51,900
105	51.9	128.9		40,600
110	49.5	124.6		29,400
115	47.0	119.9		19,200
120	44.4	114.8		10,000

MLC300 VPC-MAX S-1

ASME B30.5

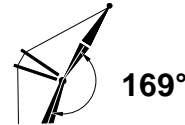
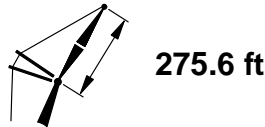
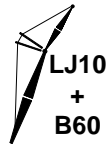


177.2 ft				
ft	°	ft	lb	lb
24	85.0	183.3	431,800	431,800
26	84.3	183.1	430,700	430,700
28	83.7	182.9	429,800	429,800
30	83.0	182.6	428,800	428,800
32	82.4	182.3	427,900	427,900
34	81.7	182.0	392,800	427,100
36	81.1	181.6	355,500	426,200
38	80.4	181.3	322,700	425,500
40	79.8	180.9	293,600	424,700
45	78.1	179.8	233,700	379,700
50	76.4	178.5	187,100	312,400
55	74.8	177.2	149,900	260,600
60	73.1	175.6	119,400	219,400
65	71.4	173.9	93,900	185,900
70	69.6	172.0	72,400	158,200
75	67.9	169.9	54,000	134,800
80	66.1	167.7	38,100	114,800
85	64.3	165.3	24,100	97,600
90	62.5	162.6	11,800	82,500
95	60.6	159.8		69,300
100	58.7	156.7		57,500
105	56.8	153.4		46,900
110	54.8	149.9		35,700
115	52.8	146.1		25,500
120	50.7	142.0		16,300

196.9 ft				
ft	°	ft	lb	lb
26	84.9	202.9	384,000	384,000
28	84.3	202.7	383,600	383,600
30	83.7	202.4	383,100	383,100
32	83.2	202.2	382,700	382,700
34	82.6	201.9	382,300	382,300
36	82.0	201.6	359,900	381,900
38	81.4	201.3	327,000	381,600
40	80.8	200.9	297,900	381,300
45	79.3	199.9	237,900	380,700
50	77.8	198.8	191,200	316,600
55	76.3	197.6	153,900	264,600
60	74.8	196.2	123,300	223,300
65	73.3	194.7	97,800	189,700
70	71.8	193.0	76,300	161,800
75	70.2	191.2	57,800	138,300
80	68.6	189.2	41,800	118,300
85	67.1	187.1	27,800	101,000
90	65.5	184.7	15,500	85,800
95	63.8	182.3		72,500
100	62.2	179.6		60,700
105	60.5	176.7		50,100
110	58.8	173.7		38,900
115	57.1	170.4		28,700
120	55.3	167.0		19,400
125	53.5	163.2		11,000

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ASME B30.5

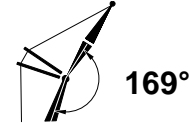
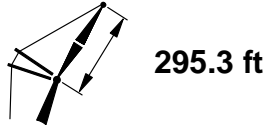
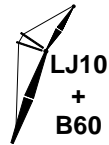


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	338,700	338,700
30	84.3	222.3	338,600	338,600
32	83.8	222.0	338,500	338,600
34	83.2	221.8	338,400	338,400
36	82.7	221.5	338,400	338,400
38	82.2	221.2	331,400	338,400
40	81.6	220.9	302,300	338,400
45	80.3	220.0	242,200	328,700
50	79.0	219.0	195,500	317,500
55	77.6	217.9	158,100	268,500
60	76.2	216.6	127,500	227,100
65	74.9	215.2	102,000	193,400
70	73.5	213.7	80,400	165,500
75	72.1	212.1	61,900	142,000
80	70.7	210.3	45,900	121,900
85	69.3	208.4	31,900	104,500
90	67.8	206.3	19,500	89,300
95	66.4	204.1		76,000
100	64.9	201.8		64,100
105	63.4	199.2		53,600
110	61.9	196.6		42,400
115	60.4	193.7		32,300
120	58.9	190.7		23,000
125	57.3	187.4		14,600

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	291,100	291,100
32	84.3	241.9	291,100	291,100
34	83.8	241.6	291,100	291,100
36	83.3	241.4	291,100	291,100
38	82.8	241.1	288,100	288,100
40	82.3	240.8	284,700	284,700
45	81.1	240.0	244,200	275,900
50	79.9	239.1	197,300	266,500
55	78.6	238.0	159,900	257,300
60	77.4	236.9	129,200	229,100
65	76.2	235.7	103,700	195,400
70	74.9	234.3	82,100	167,300
75	73.6	232.8	63,600	143,700
80	72.4	231.2	47,500	123,500
85	71.1	229.4	33,500	106,100
90	69.8	227.6	21,100	90,900
95	68.5	225.6	10,000	77,500
100	67.2	223.5		65,600
105	65.8	221.2		54,600
110	64.5	218.8		43,400
115	63.1	216.2		33,300
120	61.7	213.5		24,100
125	60.3	210.7		15,600

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ASME B30.5

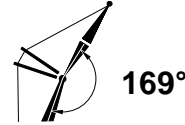
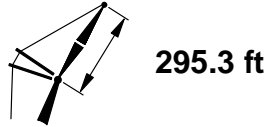
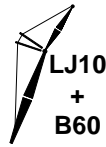


137.8 ft				
ft	°	ft	lb	lb
22	84.4	143.9	512,400	512,600
24	83.6	143.7	509,800	509,900
26	82.7	143.4	507,100	507,300
28	81.9	143.1	504,500	504,700
30	81.0	142.7	450,000	502,200
32	80.2	142.3	401,000	499,800
34	79.3	141.9	358,700	497,500
36	78.5	141.5	322,000	495,200
38	77.6	141.0	289,600	475,300
40	76.8	140.5	261,000	439,900
45	74.6	139.1	202,000	350,700
50	72.4	137.4	156,100	284,700
55	70.2	135.6	119,400	233,800
60	68.0	133.5	89,400	193,500
65	65.7	131.3	64,400	160,700
70	63.3	128.7	43,300	133,500
75	61.0	125.9	25,200	110,600
80	58.5	122.8		91,100
85	56.0	119.4		74,200
90	53.4	115.7		59,500
95	50.7	111.6		45,900
100	47.9	107.0		32,200
105	45.0	102.0		20,000

157.5 ft				
ft	°	ft	lb	lb
24	84.4	163.5	467,400	467,400
26	83.6	163.3	465,600	465,600
28	82.9	163.0	463,800	463,800
30	82.2	162.7	459,800	462,100
32	81.4	162.3	410,700	460,500
34	80.7	162.0	368,300	458,900
36	79.9	161.6	331,500	457,400
38	79.2	161.2	299,100	455,900
40	78.5	160.7	270,400	444,900
45	76.6	159.5	211,300	359,700
50	74.7	158.1	165,300	293,300
55	72.8	156.5	128,500	242,200
60	70.9	154.8	98,400	201,600
65	68.9	152.8	73,300	168,600
70	66.9	150.6	52,100	141,300
75	64.9	148.3	34,000	118,200
80	62.9	145.7	18,200	98,600
85	60.8	142.8		81,600
90	58.6	139.8		66,800
95	56.5	136.4		53,800
100	54.2	132.8		40,300
105	51.9	128.9		28,000
110	49.5	124.6		16,900

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ASME B30.5

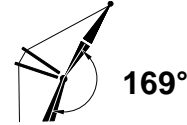
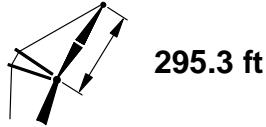
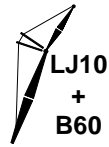


177.2 ft				
ft	°	ft	lb	lb
24	85.0	183.3	421,100	421,100
26	84.3	183.1	420,000	420,000
28	83.7	182.9	418,900	418,900
30	83.0	182.6	417,800	417,900
32	82.4	182.3	416,800	416,800
34	81.7	182.0	376,500	415,800
36	81.1	181.6	339,600	414,800
38	80.4	181.3	307,200	414,000
40	79.8	180.9	278,400	413,000
45	78.1	179.8	219,200	367,200
50	76.4	178.5	173,200	300,600
55	74.8	177.2	136,300	249,300
60	73.1	175.6	106,200	208,500
65	71.4	173.9	81,100	175,400
70	69.6	172.0	59,900	148,000
75	67.9	169.9	41,700	124,800
80	66.1	167.7	25,900	105,100
85	64.3	165.3	12,100	88,000
90	62.5	162.6		73,100
95	60.6	159.8		60,000
100	58.7	156.7		47,400
105	56.8	153.4		35,100
110	54.8	149.9		24,000
115	52.8	146.1		14,000

196.9 ft				
ft	°	ft	lb	lb
26	84.9	202.9	373,800	373,800
28	84.3	202.7	373,200	373,200
30	83.7	202.4	372,700	372,700
32	83.2	202.2	372,200	372,200
34	82.6	201.9	371,700	371,700
36	82.0	201.6	344,500	371,300
38	81.4	201.3	312,000	370,900
40	80.8	200.9	283,300	370,500
45	79.3	199.9	224,000	369,600
50	77.8	198.8	177,800	305,300
55	76.3	197.6	140,900	253,800
60	74.8	196.2	110,700	212,900
65	73.3	194.7	85,600	179,700
70	71.8	193.0	64,300	152,100
75	70.2	191.2	46,100	128,900
80	68.6	189.2	30,300	109,000
85	67.1	187.1	16,400	91,900
90	65.5	184.7		76,900
95	63.8	182.3		63,800
100	62.2	179.6		51,200
105	60.5	176.7		38,900
110	58.8	173.7		27,800
115	57.1	170.4		17,700

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ASME B30.5

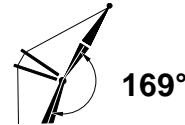
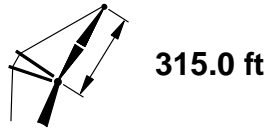
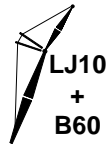


216.5 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
28	84.8	222.5	328,800	328,800
30	84.3	222.3	328,700	328,700
32	83.8	222.0	328,600	328,600
34	83.2	221.8	328,500	328,500
36	82.7	221.5	328,400	328,500
38	82.2	221.2	316,900	328,400
40	81.6	220.9	288,100	325,800
45	80.3	220.0	228,800	315,100
50	79.0	219.0	182,600	303,900
55	77.6	217.9	145,600	258,200
60	76.2	216.6	115,400	217,200
65	74.9	215.2	90,200	183,800
70	73.5	213.7	68,900	156,200
75	72.1	212.1	50,700	132,900
80	70.7	210.3	34,900	113,000
85	69.3	208.4	21,000	95,800
90	67.8	206.3		80,800
95	66.4	204.1		67,600
100	64.9	201.8		55,200
105	63.4	199.2		42,900
110	61.9	196.6		31,800
115	60.4	193.7		21,800
120	58.9	190.7		12,700

236.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
30	84.8	242.1	280,900	280,900
32	84.3	241.9	280,900	280,900
34	83.8	241.6	280,900	280,900
36	83.3	241.4	278,500	278,500
38	82.8	241.1	275,100	275,100
40	82.3	240.8	271,700	271,700
45	81.1	240.0	231,100	263,000
50	79.9	239.1	184,900	253,500
55	78.6	238.0	147,900	244,400
60	77.4	236.9	117,600	219,600
65	76.2	235.7	92,400	186,100
70	74.9	234.3	71,000	158,400
75	73.6	232.8	52,700	135,000
80	72.4	231.2	36,900	115,000
85	71.1	229.4	23,000	97,800
90	69.8	227.6	10,700	82,700
95	68.5	225.6		69,500
100	67.2	223.5		56,500
105	65.8	221.2		44,300
110	64.5	218.8		33,300
115	63.1	216.2		23,300
120	61.7	213.5		14,100

MLC300 VPC-MAX S-1

ASME B30.5

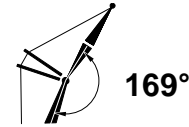
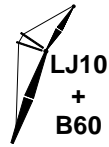


<p>137.8 ft</p>				
ft	°	ft	lb	lb
22	84.4	143.9	500,900	500,900
24	83.6	143.7	497,900	497,900
26	82.7	143.4	495,000	495,000
28	81.9	143.1	488,300	492,000
30	81.0	142.7	431,400	489,200
32	80.2	142.3	383,000	486,500
34	79.3	141.9	341,200	483,900
36	78.5	141.5	304,900	481,300
38	77.6	141.0	272,900	463,000
40	76.8	140.5	244,600	425,200
45	74.6	139.1	186,300	337,000
50	72.4	137.4	141,000	271,800
55	70.2	135.6	104,800	221,500
60	68.0	133.5	75,100	181,600
65	65.7	131.3	50,500	149,200
70	63.3	128.7	29,600	122,300
75	61.0	125.9	11,800	99,700
80	58.5	122.8		80,400
85	56.0	119.4		63,800
90	53.4	115.7		47,900
95	50.7	111.6		32,700
100	47.9	107.0		19,200

<p>157.5 ft</p>				
ft	°	ft	lb	lb
24	84.4	163.5	456,200	456,200
26	83.6	163.3	454,200	454,200
28	82.9	163.0	452,300	452,300
30	82.2	162.7	442,100	450,400
32	81.4	162.3	393,600	448,600
34	80.7	162.0	351,700	446,800
36	79.9	161.6	315,300	445,100
38	79.2	161.2	283,300	443,400
40	78.5	160.7	255,000	433,500
45	76.6	159.5	196,600	346,900
50	74.7	158.1	151,100	281,200
55	72.8	156.5	114,800	230,700
60	70.9	154.8	85,100	190,600
65	68.9	152.8	60,400	157,900
70	66.9	150.6	39,400	130,900
75	64.9	148.3	21,500	108,100
80	62.9	145.7		88,700
85	60.8	142.8		71,900
90	58.6	139.8		57,000
95	56.5	136.4		41,800
100	54.2	132.8		28,200
105	51.9	128.9		16,100

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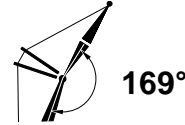
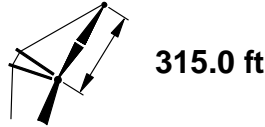
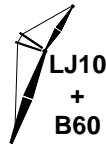


177.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
24	85.0	183.3	410,600	410,600
26	84.3	183.1	409,300	409,300
28	83.7	182.9	408,100	408,100
30	83.0	182.6	406,900	406,900
32	82.4	182.3	402,400	405,700
34	81.7	182.0	360,600	404,600
36	81.1	181.6	324,100	403,600
38	80.4	181.3	292,100	402,500
40	79.8	180.9	263,800	401,500
45	78.1	179.8	205,300	355,100
50	76.4	178.5	159,800	289,200
55	74.8	177.2	123,400	238,400
60	73.1	175.6	93,700	198,100
65	71.4	173.9	68,900	165,400
70	69.6	172.0	47,900	138,200
75	67.9	169.9	30,000	115,300
80	66.1	167.7	14,400	95,800
85	64.3	165.3		78,900
90	62.5	162.6		64,200
95	60.6	159.8		49,600
100	58.7	156.7		36,100
105	56.8	153.4		23,900
110	54.8	149.9		13,000

196.9 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
26	84.9	202.9	363,800	363,800
28	84.3	202.7	363,200	363,200
30	83.7	202.4	362,500	362,500
32	83.2	202.2	362,000	362,000
34	82.6	201.9	361,400	361,400
36	82.0	201.6	329,700	360,900
38	81.4	201.3	297,600	360,400
40	80.8	200.9	269,200	360,000
45	79.3	199.9	210,600	358,900
50	77.8	198.8	165,100	294,400
55	76.3	197.6	128,600	243,500
60	74.8	196.2	98,800	203,000
65	73.3	194.7	74,000	170,100
70	71.8	193.0	53,000	142,800
75	70.2	191.2	35,000	119,900
80	68.6	189.2	19,400	100,200
85	67.1	187.1		83,300
90	65.5	184.7		68,500
95	63.8	182.3		54,000
100	62.2	179.6		40,500
105	60.5	176.7		28,300
110	58.8	173.7		17,400

MLC300 VPC-MAX S-1

ASME B30.5



216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	318,900	318,900
30	84.3	222.3	318,700	318,700
32	83.8	222.0	318,600	318,600
34	83.2	221.8	318,300	318,300
36	82.7	221.5	318,300	318,300
38	82.2	221.2	303,000	318,200
40	81.6	220.9	274,500	314,400
45	80.3	220.0	215,900	303,900
50	79.0	219.0	170,300	292,600
55	77.6	217.9	133,800	248,300
60	76.2	216.6	104,000	207,700
65	74.9	215.2	79,100	174,700
70	73.5	213.7	58,100	147,400
75	72.1	212.1	40,100	124,300
80	70.7	210.3	24,500	104,600
85	69.3	208.4	10,800	87,600
90	67.8	206.3		72,800
95	66.4	204.1		58,500
100	64.9	201.8		45,000
105	63.4	199.2		32,800
110	61.9	196.6		21,900
115	60.4	193.7		12,000

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	270,700	270,700
32	84.3	241.9	270,700	270,700
34	83.8	241.6	270,700	270,700
36	83.3	241.4	267,500	267,500
38	82.8	241.1	264,200	264,200
40	82.3	240.8	260,800	260,800
45	81.1	240.0	218,700	252,100
50	79.9	239.1	173,000	242,600
55	78.6	238.0	136,500	233,600
60	77.4	236.9	106,600	210,400
65	76.2	235.7	81,700	177,300
70	74.9	234.3	60,600	149,900
75	73.6	232.8	42,500	126,700
80	72.4	231.2	26,900	107,000
85	71.1	229.4	13,200	89,900
90	69.8	227.6		75,000
95	68.5	225.6		60,200
100	67.2	223.5		46,800
105	65.8	221.2		34,700
110	64.5	218.8		23,800
115	63.1	216.2		13,900