

Liftcrane Luffing Jib Capacities

Luffing Jib No. LJ10:681-682 on
 Boom No. B60:680
 with Mast No. M10:684 or Mast No. M11:684
 881,800 lb VPC (Variable Position Counterweight)
 360 Degree Rating

**MLC650
 VPC-MAX
 SERIES 3**



LIFTING CAPACITIES: Lifting capacities for various boom lengths, boom angles, luffing jib lengths, and luffing jib operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components. Capacities must be reduced by applicable deducts.

Upper luffing jib point capacity for liftcrane service with single part whip line from Drum 3 is 30,000 lb or 60,000 lb with two part whip line. When Drum 1 or Drum 2 is used, capacity with single part whip line is 48,800 lb, or 73,500 lb with two part whip line. In all cases, upper luffing jib point capacities cannot exceed those listed for main luffing jib capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and luffing jib point sheaves is considered part of load. Boom and luffing jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Operation is only approved for boom and luffing jib angle range shown in capacity chart.

LUFFING JIB BACKWARD STABILITY: Capacities indicated by (b) require 14,000 lb minimum weight suspended beneath luffing jib point, (c) require 28,000 lb minimum weight, and (d) require 40,000 lb minimum weight. **Caution: Do not luff into areas indicated by (b), (c), or (d) without required minimum weight.** *Luffing jib may not luff down and luffing jib hoist wire rope may go slack. Luffing jib hoist wire rope may overhaul luffing jib and cause wire rope damage or failure.*

OPERATING CONDITIONS: Machine to operate on a firm, level, and uniformly supporting surface. Supporting surface and bearing turntable are to be level within a tolerance of 1/2 in. in 10 ft. Refer to Luffing Jib Rigging **No. 81022910**, Mast Rigging **No. 81025005** or **No. 84050187**, Wire Rope Specifications chart **No. 9548-A**, Counterweight Arrangements chart **No. 9349-A**, Luffing Jib Raising Procedure chart **No. 9421-A**, and Wind Conditions chart **No. 9423-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to the Operator Manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level, and uniformly supporting surface. Boom and luffing jib must be within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specifications chart **No. 9422-A**.



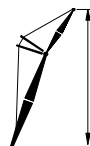
OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle and luffing jib angle are an indication of operating radius. In all cases, operating radius shall govern capacity.



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



LUFFING JIB ANGLE: Luffing jib angle in degrees (°) is angle between horizontal and centerline of luffing jib butt and inserts.



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

MACHINE EQUIPMENT: Machine equipped with VPC-MAX, 36 ft 6 in. crawlers, 60 in. or 80 in. treads, 36 ft 1 in. live mast, 118.1 ft mast, 16 part boom hoist reeving, boom support straps, 20 part luffing jib hoist reeving, luffing jib and backstay support straps, and 881,800 lb VPC.

Select counterweight position from Luffing Jib Raising Procedure chart **No. 9421-A** that will allow raising and lowering of boom and luffing jib length. Counterweight position selection may be changed with luffing jib on ground or while luffing jib is within operating range of capacity chart.

Explanation of Symbols



Luffing Jib No. LJ10:681-682
+
Boom No. B60:680



VPC (Variable Position Counterweight)



360 Degree Rating



Boom Length



Luffing Jib Length



Boom Angle
(see page 1)

Explanation of Symbols
(continued)



Operating Radius
(see page 1)



Luffing Jib Angle
(see page 1)



Luffing Jib Elevation
(see page 1)



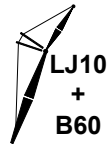
Counterweight Position
from Axis of Rotation



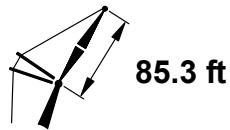
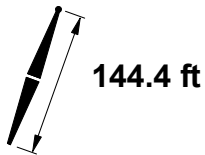
Lifting Capacities
(see page 1)

MLC650 VPC-MAX S-3

ASME B30.5



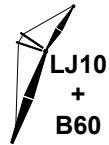
881,800 lb



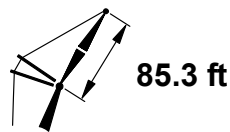
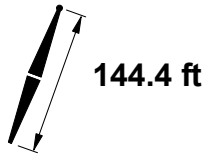
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
50	73.0	234.6	771,600 c	771,600 c									50
55	69.4	232.6	771,600 c	771,600 c									55
60	65.7	230.2	740,700 b	771,600 b	69.4	232.0	727,600 b	771,600 b					60
65	61.8	227.4	675,300 b	771,600 b	65.7	229.6	663,300 b	771,600 b					65
70	57.8	224.1	619,800 b	752,400 b	61.8	226.8	608,900 b	771,600 b	67.5	229.5	592,500 b	771,600 b	70
75	53.6	220.3	572,200	720,300	57.8	223.5	562,200 b	766,800 b	63.8	226.9	547,000 b	771,600 b	75
80	49.1	215.9	530,900	683,200	53.6	219.7	521,600	734,200	59.8	223.9	507,500 b	771,600 b	80
85	44.3	210.7	494,600	625,500	49.1	215.3	486,000	683,800	55.7	220.4	472,900	764,700	85
90	38.9	204.4	462,400	565,600	44.3	210.0	454,400	626,100	51.4	216.3	442,300	716,600	90
95	32.7	196.7	433,700	480,700	38.9	203.8	426,300	576,500	46.7	211.5	415,000	654,000	95
100	25.0	186.3	400,100	400,100	32.7	196.0	400,900	496,700	41.7	205.8	390,400	600,700	100
105	12.7	168.8	312,000	312,000	25.0	185.7	377,800	413,500	35.9	198.8	368,200	554,600	105
110					12.8	168.3	323,400	323,400	29.1	190.0	347,900	476,900	110
115									20.0	177.4	329,000	389,400	115
120													120
125													125
130													130
135													135
140													140
145													145
150													150

MLC650 VPC-MAX S-3

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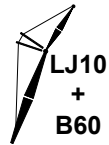
881,800 lb



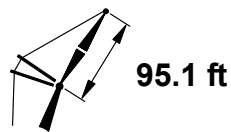
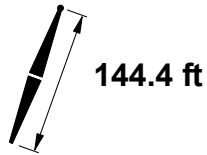
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
50													50
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90	61.7	222.3	421,900	701,000									90
95	57.6	219.0	395,900	657,700									95
100	53.4	215.2	372,600	619,200									100
105	48.9	210.7	351,500	584,800	59.2	216.3	334,700	571,400					105
110	44.0	205.5	332,400	553,700	55.1	212.7	316,500	541,100					110
115	38.6	199.2	314,800	525,600	50.7	208.5	299,900	513,600					115
120	32.4	191.3	298,700	500,000	46.0	203.6	284,700	488,600					120
125	24.6	180.9	283,600	461,700	40.8	197.7	270,600	465,800	52.1	204.8	257,300	455,300	125
130	11.8	162.5	269,100	361,300	35.0	190.6	257,600	444,800	47.5	200.1	245,000	434,800	130
135					28.0	181.4	245,400	425,500	42.5	194.6	233,600	416,000	135
140					18.2	167.7	233,700	407,500	36.9	187.9	222,900	398,500	140
145									30.3	179.5	212,800	382,300	145
150									21.8	167.7	203,200	367,100	150

MLC650 VPC-MAX S-3

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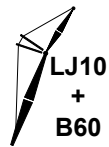
881,800 lb



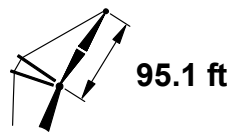
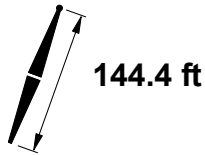
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
50	74.8	245.0	771,600 c	771,600 c									50
55	71.6	243.2	771,600 b	771,600 b									55
60	68.4	241.1	738,500 b	771,600 b	71.7	242.6	725,000 b	771,600 b					60
65	65.0	238.7	673,100 b	763,900 b	68.4	240.5	660,900 b	771,600 b					65
70	61.6	235.9	617,800 b	731,500 b	65.0	238.1	606,500 b	771,600 b					70
75	58.0	232.6	570,300	701,000	61.6	235.2	559,900 b	746,400 b	66.7	238.0	544,300 b	771,600 b	75
80	54.3	228.9	529,000	672,500	58.0	232.0	519,400	715,600	63.3	235.4	505,000	771,600	80
85	50.3	224.7	492,900	633,300	54.3	228.3	483,900	686,700	59.8	232.4	470,500	749,400	85
90	46.1	219.8	460,900	583,400	50.3	224.1	452,500	633,900	56.2	228.9	440,000	714,400	90
95	41.5	214.0	432,400	540,100	46.1	219.2	424,600	583,900	52.3	225.0	412,800	662,000	95
100	36.4	207.2	406,700	502,100	41.5	213.4	399,500	540,600	48.2	220.4	388,400	608,200	100
105	30.6	198.9	383,500	431,700	36.5	206.6	376,700	502,600	43.9	215.1	366,400	561,900	105
110	23.2	187.8	362,200	362,700	30.6	198.3	356,000	446,400	39.1	208.9	346,400	521,400	110
115	11.3	168.5	284,600	284,600	23.3	187.2	336,900	375,200	33.6	201.4	328,100	485,700	115
120					11.3	168.0	295,300	295,300	27.2	191.9	311,200	430,800	120
125									18.4	178.2	295,300	355,300	125
130													130
135													135
140													140
145													145
150													150
155													155
160													160

MLC650 VPC-MAX S-3

ASME B30.5



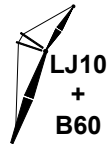
881,800 lb



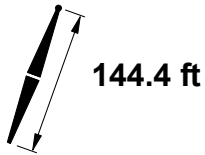
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
50													50
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90	64.9	233.6	419,000	697,700									90
95	61.4	230.8	393,100	654,600									95
100	57.8	227.6	369,900	616,200									100
105	54.1	223.8	349,000	581,900									105
110	50.1	219.5	330,000	551,000	59.3	224.8	313,500	538,100					110
115	45.9	214.6	312,600	523,100	55.6	221.3	297,100	510,800					115
120	41.3	208.8	296,700	497,600	51.7	217.2	282,000	485,900					120
125	36.2	202.0	282,000	474,400	47.6	212.6	268,100	463,200					125
130	30.3	193.5	268,400	453,000	43.2	207.2	255,300	442,400	53.0	213.5	242,100	432,100	130
135	22.9	182.2	255,600	419,900	38.3	200.8	243,300	423,200	48.9	209.0	230,800	413,300	135
140	10.3	162.0	243,000	329,000	32.7	193.0	232,200	405,400	44.6	203.9	220,300	396,000	140
145					26.1	183.1	221,600	388,900	39.9	197.8	210,500	379,900	145
150					16.6	168.3	211,500	373,400	34.6	190.5	201,200	365,000	150
155									28.3	181.4	192,500	351,000	155
160									20.1	168.8	184,000	337,800	160

MLC650 VPC-MAX S-3

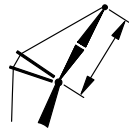
ASME B30.5



881,800 lb



144.4 ft

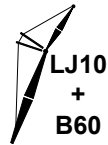


105.0 ft

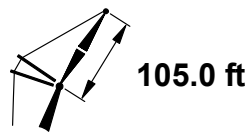
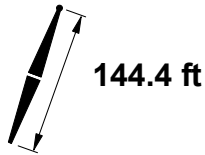
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55	73.4	253.7	766,600 b	771,600 b									55
60	70.5	251.8	737,300 b	760,400 b									60
65	67.6	249.6	672,000 b	741,000 b	70.5	251.2	659,600 b	766,500 b					65
70	64.5	247.2	616,800 b	711,200 b	67.6	249.0	605,300 b	750,700 b					70
75	61.4	244.3	569,300	682,600	64.5	246.5	558,700	726,200	69.1	248.8	542,900	761,900	75
80	58.1	241.1	528,200	655,700	61.4	243.7	518,300	697,700	66.0	246.5	503,600	746,000	80
85	54.8	237.5	492,100	630,400	58.2	240.5	482,900	670,500	63.0	243.9	469,200	730,300	85
90	51.2	233.4	460,300	589,300	54.8	236.9	451,700	640,000	59.8	240.9	438,800	702,700	90
95	47.5	228.7	431,900	545,800	51.3	232.8	423,800	589,800	56.5	237.4	411,700	668,200	95
100	43.5	223.4	406,400	507,700	47.5	228.1	398,800	546,300	53.0	233.6	387,400	614,100	100
105	39.2	217.2	383,400	474,100	43.5	222.8	376,300	508,200	49.4	229.2	365,500	567,500	105
110	34.4	209.9	362,500	441,500	39.2	216.6	355,800	474,500	45.6	224.2	345,600	526,900	110
115	28.7	200.9	343,300	391,100	34.4	209.3	337,100	444,400	41.4	218.5	327,500	491,100	115
120	21.7	189.0	325,600	331,000	28.8	200.3	319,800	403,900	36.8	211.8	310,900	459,400	120
125	9.9	168.0	259,500	259,500	21.7	188.4	303,800	342,800	31.7	203.7	295,500	431,000	125
130					10.0	167.5	268,500	268,500	25.5	193.5	281,200	390,700	130
135									17.0	178.9	267,700	324,800	135
140													140
145													145
150													150
155													155
160													160
165													165
170													170

MLC650 VPC-MAX S-3

ASME B30.5



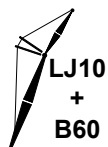
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95	64.4	242.1	391,600	652,400									95
100	61.2	239.3	368,500	614,200									100
105	58.0	236.0	347,600	580,000									105
110	54.6	232.4	328,700	549,200									110
115	51.1	228.3	311,500	521,400	59.3	233.3	295,500	508,900					115
120	47.3	223.6	295,700	496,100	56.0	229.8	280,500	484,200					120
125	43.3	218.2	281,200	472,900	52.5	225.9	266,700	461,600					125
130	39.0	212.0	267,700	451,700	48.8	221.4	254,000	440,800					130
135	34.1	204.6	255,300	432,100	45.0	216.3	242,200	421,700	53.6	222.1	229,300	411,700	135
140	28.5	195.5	243,600	414,000	40.8	210.5	231,300	404,100	50.0	217.8	218,900	394,400	140
145	21.3	183.4	232,500	380,700	36.1	203.6	221,000	387,700	46.2	212.9	209,200	378,500	145
150	8.9	161.3	221,500	298,300	30.8	195.3	211,300	372,500	42.1	207.3	200,100	363,600	150
155					24.4	184.7	202,200	358,200	37.6	200.8	191,600	349,700	155
160					15.3	168.8	193,200	344,800	32.6	193.0	183,500	336,800	160
165									26.6	183.3	175,800	324,600	165
170									18.7	169.7	168,400	313,100	170

MLC650 VPC-MAX S-3

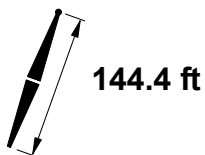
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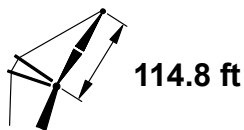
881,800 lb



360°



144.4 ft

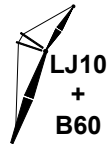


114.8 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55	74.9	264.0	724,500 b	724,500 b									55
60	72.3	262.3	710,200 b	710,200 b									60
65	69.6	260.4	669,700 b	695,400 b	72.3	261.7	657,000 b	714,400 b					65
70	66.9	258.2	614,500	680,600	69.6	259.8	602,800	701,700					70
75	64.1	255.6	567,100	663,300	66.9	257.5	556,300	688,600					75
80	61.2	252.8	526,000	638,100	64.1	255.0	515,900	675,200	68.2	257.4	500,900	698,500	80
85	58.3	249.6	490,000	614,300	61.2	252.2	480,600	653,200	65.5	255.0	466,500	688,300	85
90	55.2	246.1	458,200	591,800	58.3	249.0	449,400	629,100	62.7	252.3	436,200	677,300	90
95	52.0	242.1	429,900	548,600	55.2	245.4	421,600	592,700	59.8	249.3	409,200	659,700	95
100	48.7	237.6	404,500	510,400	52.0	241.4	396,700	549,000	56.7	246.0	385,000	617,000	100
105	45.1	232.5	381,600	476,600	48.7	237.0	374,200	510,700	53.6	242.2	363,100	570,100	105
110	41.3	226.8	360,800	446,600	45.1	231.9	353,800	477,000	50.4	238.0	343,400	529,400	110
115	37.2	220.1	341,800	419,600	41.3	226.2	335,300	447,000	46.9	233.2	325,300	493,600	115
120	32.6	212.3	324,400	388,400	37.2	219.5	318,200	420,000	43.2	227.8	308,800	461,800	120
125	27.2	202.8	308,300	348,800	32.6	211.7	302,500	394,200	39.3	221.7	293,600	433,400	125
130	20.4	190.2	293,300	296,400	27.2	202.2	288,000	357,500	34.9	214.5	279,600	407,900	130
135	8.7	167.3	230,400	230,400	20.4	189.6	274,300	305,900	30.0	205.9	266,500	384,000	135
140					8.8	166.8	238,600	238,600	24.0	195.1	254,300	347,000	140
145									15.8	179.4	242,600	289,500	145
150													150
155													155
160													160
165													165
170													170
175													175
180													180

MLC650 VPC-MAX S-3

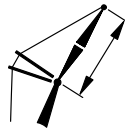
ASME B30.5



881,800 lb



144.4 ft

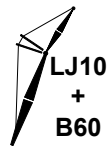


114.8 ft

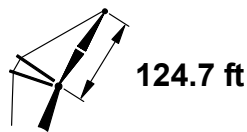
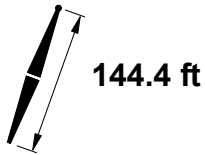
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100	64.0	250.6	365,500	611,100									100
105	61.1	247.7	344,800	577,100									105
110	58.1	244.5	325,900	546,400									110
115	55.1	241.0	308,800	518,700									115
120	51.9	236.9	293,100	493,400	59.3	241.8	277,500	481,300					120
125	48.5	232.4	278,700	470,400	56.3	238.4	263,800	458,800					125
130	45.0	227.4	265,400	449,200	53.1	234.5	251,200	438,200					130
135	41.1	221.6	253,000	429,800	49.9	230.2	239,500	419,200					135
140	37.0	214.9	241,600	411,800	46.4	225.4	228,600	401,600	54.1	230.7	215,900	391,700	140
145	32.3	207.0	230,800	395,100	42.7	219.9	218,500	385,300	50.9	226.5	206,300	375,800	145
150	26.9	197.4	220,700	373,600	38.7	213.6	209,000	370,200	47.5	221.9	197,300	361,100	150
155	20.0	184.5	211,000	339,200	34.2	206.2	200,100	356,000	43.9	216.6	188,900	347,300	155
160	7.6	160.2	201,300	265,500	29.2	197.4	191,600	342,800	40.0	210.6	181,000	334,400	160
165					23.0	186.1	183,600	330,400	35.7	203.6	173,500	322,300	165
170					14.2	169.1	175,700	318,600	30.9	195.3	166,400	311,000	170
175									25.1	184.9	159,600	300,300	175
180									17.5	170.5	152,900	290,100	180

MLC650 VPC-MAX S-3

ASME B30.5



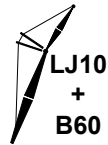
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	73.7	272.7	664,400 b	664,400 b									60
65	71.3	271.0	651,900	651,900									65
70	68.8	269.0	639,000	639,000	71.3	270.3	631,700	656,400					70
75	66.3	266.7	594,100	626,100	68.8	268.3	583,100	645,300					75
80	63.7	264.1	551,300	613,300	66.3	266.0	541,100	633,800					80
85	61.1	261.3	513,800	599,600	63.7	263.5	504,200	622,200	67.6	265.9	490,000	643,000	85
90	58.4	258.1	480,600	578,500	61.1	260.6	471,700	610,600	65.0	263.5	458,300	634,000	90
95	55.6	254.6	451,100	553,200	58.4	257.5	442,700	593,100	62.4	260.8	430,100	624,500	95
100	52.6	250.7	424,700	514,800	55.6	254.0	416,800	553,600	59.7	257.8	404,900	614,500	100
105	49.6	246.4	400,900	480,900	52.7	250.1	393,400	515,100	57.0	254.5	382,200	574,800	105
110	46.4	241.5	379,300	450,800	49.6	245.7	372,200	481,300	54.1	250.8	361,600	533,800	110
115	43.0	236.1	359,700	423,800	46.4	240.9	352,900	451,100	51.1	246.7	342,800	497,800	115
120	39.4	230.0	341,700	399,500	43.0	235.5	335,300	424,200	48.0	242.1	325,600	466,000	120
125	35.4	222.9	325,100	376,500	39.4	229.4	319,000	399,800	44.7	237.0	309,800	437,500	125
130	31.0	214.7	309,800	347,500	35.4	222.3	304,000	377,200	41.2	231.2	295,300	412,000	130
135	25.8	204.6	295,500	312,700	31.0	214.1	290,100	352,800	37.4	224.6	281,800	388,800	135
140	19.2	191.2	267,300	267,300	25.8	204.0	277,100	321,500	33.3	217.0	269,200	367,100	140
145	7.5	166.2	207,700	207,700	19.3	190.6	264,800	275,900	28.5	208.0	257,500	344,600	145
150					7.6	165.8	215,300	215,300	22.8	196.5	246,400	312,900	150
155									14.8	179.9	235,800	261,900	155
160													160
165													165
170													170
175													175
180													180
185													185
190													190

MLC650 VPC-MAX S-3

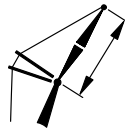
ASME B30.5



881,800 lb



144.4 ft

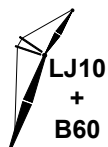


124.7 ft

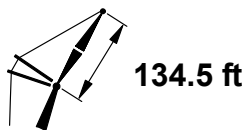
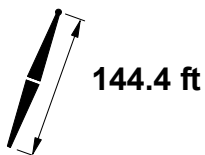
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105	63.6	259.1	363,500	576,300									105
110	61.0	256.2	343,900	545,800									110
115	58.2	253.0	326,000	518,100									115
120	55.4	249.5	309,600	493,000									120
125	52.5	245.6	294,600	470,000	59.3	250.3	279,500	458,300					125
130	49.5	241.2	280,700	448,900	56.5	246.9	266,300	437,800					130
135	46.3	236.4	267,900	429,500	53.7	243.1	254,100	418,800					135
140	42.9	230.9	256,000	411,600	50.7	238.9	242,800	401,300					140
145	39.2	224.7	244,900	395,000	47.5	234.3	232,200	385,100	54.6	239.2	219,700	375,500	145
150	35.2	217.7	234,500	377,700	44.2	229.1	222,300	370,000	51.6	235.2	210,400	360,800	150
155	30.8	209.3	224,700	357,100	40.7	223.2	213,100	356,000	48.6	230.7	201,600	347,100	155
160	25.5	199.1	215,400	337,100	36.8	216.5	204,400	342,800	45.3	225.7	193,400	334,300	160
165	18.9	185.5	206,600	306,900	32.6	208.7	196,200	330,500	41.8	220.0	185,600	322,300	165
170	6.3	158.7	197,500	239,500	27.7	199.4	188,400	319,000	38.1	213.6	178,300	311,000	170
175					21.8	187.4	180,900	308,000	34.0	206.2	171,300	300,400	175
180					13.1	169.3	173,600	295,500	29.3	197.4	164,700	290,400	180
185									23.8	186.5	158,300	280,900	185
190									16.4	171.1	152,100	271,800	190

MLC650 VPC-MAX S-3

ASME B30.5



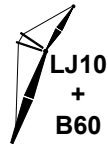
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	75.0	283.1	623,300 b	623,300 b									60
65	72.7	281.4	612,600	612,600									65
70	70.5	279.6	601,400	601,400	72.7	280.8	615,400	615,400					70
75	68.2	277.5	590,100	590,100	70.5	279.0	580,600	606,100					75
80	65.8	275.2	549,000	578,700	68.2	276.9	538,600	596,300					80
85	63.4	272.6	511,500	567,400	65.8	274.6	501,800	586,100	69.3	276.6	487,300	602,100	85
90	61.0	269.7	478,400	556,300	63.4	272.0	469,300	575,900	67.0	274.4	455,700	594,700	90
95	58.4	266.6	449,000	544,300	61.0	269.1	440,400	565,600	64.6	272.0	427,500	586,800	95
100	55.9	263.1	422,600	515,500	58.5	266.0	414,500	554,300	62.2	269.3	402,400	578,300	100
105	53.2	259.3	398,900	481,500	55.9	262.5	391,200	515,800	59.7	266.3	379,700	569,500	105
110	50.4	255.1	377,300	451,400	53.2	258.7	370,000	481,800	57.2	263.0	359,100	534,400	110
115	47.5	250.4	357,700	424,300	50.4	254.5	350,800	451,700	54.5	259.3	340,400	498,300	115
120	44.4	245.3	339,800	400,000	47.5	249.8	333,200	424,700	51.8	255.3	323,300	466,400	120
125	41.2	239.5	323,300	377,500	44.4	244.7	317,000	400,300	49.0	250.9	307,600	437,900	125
130	37.7	233.0	308,100	356,400	41.2	238.9	302,100	378,100	46.0	246.0	293,100	412,400	130
135	33.9	225.6	294,000	336,900	37.7	232.4	288,300	357,000	42.8	240.5	279,700	389,300	135
140	29.6	216.8	280,800	310,900	33.9	224.9	275,400	337,600	39.5	234.4	267,200	368,100	140
145	24.6	206.2	268,500	279,900	29.6	216.2	263,400	315,700	35.8	227.5	255,600	347,900	145
150	18.2	192.1	240,000	240,000	24.6	205.6	252,100	288,700	31.8	219.5	244,700	329,200	150
155	6.4	164.8	185,400	185,400	18.2	191.5	241,400	248,000	27.2	209.9	234,500	309,200	155
160					6.5	164.4	192,400	192,400	21.6	197.8	224,800	281,500	160
165									13.8	180.2	215,400	235,800	165
170													170
175													175
180													180
185													185
190													190
195													195
200													200

MLC650 VPC-MAX S-3

ASME B30.5



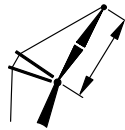
881,800 lb



360°



144.4 ft

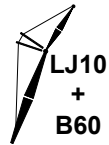


134.5 ft

	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110	63.3	267.5	341,000	542,900									110
115	60.8	264.7	323,200	515,400									115
120	58.3	261.5	306,900	490,300									120
125	55.7	258.0	291,900	467,400									125
130	53.1	254.2	278,100	446,400	59.3	258.7	263,400	435,100					130
135	50.3	250.0	265,400	427,100	56.8	255.4	251,200	416,200					135
140	47.4	245.3	253,500	409,200	54.1	251.7	239,900	398,800					140
145	44.3	240.1	242,500	392,700	51.4	247.6	229,400	382,600					145
150	41.0	234.3	232,200	377,300	48.5	243.1	219,700	367,600	55.0	247.8	207,400	358,200	150
155	37.5	227.8	222,500	358,200	45.5	238.2	210,500	353,600	52.3	243.9	198,700	344,600	155
160	33.7	220.3	213,400	338,800	42.3	232.6	201,900	340,500	49.4	239.5	190,500	331,800	160
165	29.4	211.5	204,800	320,900	38.9	226.4	193,800	328,300	46.5	234.7	182,800	319,900	165
170	24.3	200.7	196,700	303,900	35.2	219.3	186,100	316,800	43.4	229.3	175,600	308,600	170
175	17.8	186.4	188,800	277,000	31.1	211.1	178,900	306,000	40.0	223.3	168,700	298,100	175
180	4.9	156.5	180,700	213,700	26.4	201.2	171,900	295,800	36.4	216.5	162,200	288,200	180
185					20.7	188.6	165,300	286,100	32.5	208.7	156,100	278,800	185
190					12.2	169.3	158,700	267,100	28.0	199.4	150,100	269,900	190
195									22.6	187.9	144,400	261,400	195
200									15.4	171.7	138,800	253,300	200

MLC650 VPC-MAX S-3

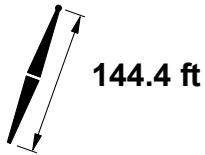
ASME B30.5



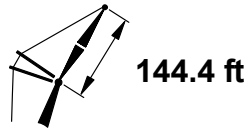
881,800 lb



360°



144.4 ft

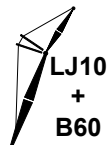


144.4 ft

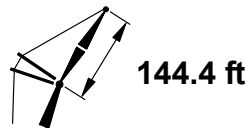
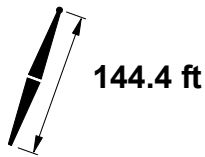
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	73.9	291.8	573,800	573,800									65
70	71.9	290.1	564,300	564,300									70
75	69.7	288.2	554,500	554,500	71.9	289.5	567,500	567,500					75
80	67.6	286.0	544,600	544,600	69.7	287.5	536,800	559,200					80
85	65.4	283.7	509,900	534,600	67.6	285.4	500,100	550,500					85
90	63.1	281.1	476,800	524,700	65.4	283.1	467,600	541,600	68.7	285.2	453,800	556,000	90
95	60.9	278.2	447,400	514,900	63.2	280.5	438,700	532,500	66.5	283.0	425,700	549,500	95
100	58.5	275.1	421,100	505,300	60.9	277.6	412,800	523,500	64.3	280.5	400,600	542,400	100
105	56.1	271.7	397,300	481,500	58.5	274.5	389,500	514,500	62.0	277.8	377,900	535,000	105
110	53.6	267.9	375,900	452,400	56.1	271.0	368,400	482,900	59.7	274.8	357,400	527,200	110
115	51.1	263.8	356,300	425,300	53.6	267.3	349,200	452,700	57.3	271.5	338,700	499,500	115
120	48.4	259.3	338,400	400,900	51.1	263.2	331,700	425,600	54.9	267.9	321,600	467,400	120
125	45.6	254.3	322,000	378,400	48.4	258.7	315,600	401,200	52.4	264.0	306,000	438,800	125
130	42.7	248.8	306,800	357,500	45.6	253.7	300,700	379,000	49.7	259.7	291,500	413,200	130
135	39.5	242.7	292,800	338,300	42.7	248.2	286,900	358,100	47.0	254.9	278,200	390,000	135
140	36.2	235.9	279,800	320,600	39.5	242.1	274,200	338,900	44.1	249.7	265,800	369,000	140
145	32.5	228.0	267,600	303,600	36.2	235.3	262,300	321,200	41.1	243.9	254,200	349,000	145
150	28.3	218.9	256,200	280,300	32.5	227.4	251,100	304,800	37.9	237.5	243,400	330,600	150
155	23.5	207.7	245,500	252,300	28.3	218.3	240,700	284,800	34.4	230.2	233,300	313,600	155
160	17.3	192.9	216,900	216,900	23.5	207.1	230,800	260,600	30.5	221.7	223,800	297,600	160
165	5.1	162.7	166,000	166,000	17.3	192.3	221,400	224,300	26.0	211.7	214,800	279,500	165
170					5.2	162.4	172,500	172,500	20.6	199.0	206,200	254,600	170
175									12.9	180.4	197,900	213,700	175
180													180
185													185
190													190
195													195
200													200
205													205
210													210

MLC650 VPC-MAX S-3

ASME B30.5



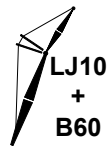
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	63.0	276.0	321,300	513,300									115
120	60.8	273.2	305,000	488,300									120
125	58.4	270.0	290,100	465,500									125
130	56.0	266.6	276,300	444,500									130
135	53.5	262.8	263,600	425,200	59.3	267.2	249,200	414,200					135
140	50.9	258.7	251,800	407,400	57.0	263.9	238,000	396,900					140
145	48.3	254.1	240,800	391,000	54.5	260.3	227,600	380,800					145
150	45.5	249.2	230,600	375,600	52.0	256.3	217,800	365,800					150
155	42.5	243.7	221,000	358,800	49.3	251.9	208,700	351,900					155
160	39.4	237.5	212,000	340,000	46.6	247.1	200,200	338,800	52.8	252.5	188,600	330,000	160
165	36.0	230.6	203,500	322,400	43.7	241.8	192,100	326,600	50.2	248.2	180,900	318,100	165
170	32.3	222.7	195,500	306,000	40.6	236.0	184,500	315,200	47.5	243.6	173,800	306,900	170
175	28.1	213.5	187,900	290,600	37.4	229.4	177,400	304,400	44.6	238.5	167,000	296,400	175
180	23.2	202.2	180,600	276,000	33.8	221.9	170,600	294,300	41.6	232.8	160,500	286,500	180
185	16.9	187.1	173,600	251,700	29.8	213.3	164,100	284,700	38.4	226.4	154,400	277,200	185
190	2.8	152.0	166,100	189,500	25.3	202.9	157,900	275,600	35.0	219.3	148,600	268,400	190
195					19.7	189.7	151,900	267,000	31.1	211.1	143,100	260,000	195
200					11.3	169.2	145,900	242,800	26.8	201.3	137,800	252,000	200
205									21.6	189.2	132,600	244,400	205
210									14.5	172.1	127,500	237,100	210

MLC650 VPC-MAX S-3

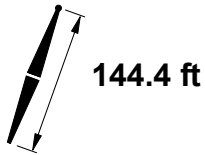
ASME B30.5



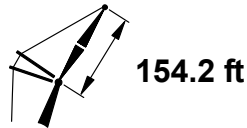
881,800 lb



360°



144.4 ft

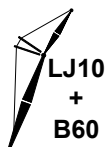


154.2 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.1	300.5	532,100	532,100									70
75	71.1	298.7	523,600	523,600									75
80	69.1	296.8	514,900	514,900	71.1	298.1	526,900	526,900					80
85	67.1	294.6	506,100	506,100	69.1	296.1	519,500	519,500					85
90	65.0	292.2	496,600	497,200	67.1	294.0	487,100	511,800					90
95	62.9	289.6	465,900	488,400	65.0	291.6	457,100	503,900	68.1	293.8	443,800	516,900	95
100	60.8	286.7	438,500	479,700	62.9	288.9	430,100	495,900	66.0	291.5	417,600	511,100	100
105	58.6	283.6	413,900	467,500	60.8	286.1	405,900	487,800	64.0	289.0	394,000	504,900	105
110	56.3	280.2	391,500	443,800	58.6	282.9	383,900	479,700	61.8	286.2	372,600	498,200	110
115	54.0	276.5	371,200	420,600	56.3	279.5	363,900	452,200	59.7	283.2	353,200	491,400	115
120	51.6	272.5	352,600	398,400	54.0	275.9	345,700	425,000	57.5	280.0	335,400	466,900	120
125	49.2	268.1	335,500	377,200	51.6	271.8	328,900	400,600	55.2	276.4	319,100	438,300	125
130	46.6	263.3	319,800	357,300	49.2	267.5	313,500	378,600	52.8	272.6	304,100	412,600	130
135	43.9	258.0	305,200	338,300	46.6	262.7	299,200	357,900	50.4	268.4	290,200	389,400	135
140	41.1	252.2	291,700	320,800	43.9	257.4	285,900	338,800	47.9	263.8	277,300	368,400	140
145	38.0	245.8	279,100	304,500	41.1	251.6	273,600	321,300	45.3	258.8	265,300	348,800	145
150	34.8	238.6	267,400	289,500	38.1	245.2	262,100	305,100	42.5	253.3	254,100	330,500	150
155	31.2	230.4	256,400	273,700	34.8	238.0	251,300	290,000	39.6	247.2	243,700	313,700	155
160	27.2	220.8	246,000	253,300	31.2	229.8	241,200	275,900	36.4	240.4	233,800	298,100	160
165	22.5	209.2	227,800	227,800	27.2	220.2	231,600	257,500	33.0	232.7	224,600	283,500	165
170	16.4	193.6	196,000	196,000	22.5	208.6	222,500	235,400	29.3	223.9	215,800	269,800	170
175	3.5	159.4	146,800	146,800	16.4	193.0	202,900	202,900	25.0	213.4	207,500	253,200	175
180					3.7	159.3	153,100	153,100	19.7	200.1	199,600	230,500	180
185									12.1	180.5	191,800	193,500	185
190													190
195													195
200													200
205													205
210													210
215													215
220													220

MLC650 VPC-MAX S-3

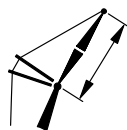
ASME B30.5



881,800 lb



144.4 ft

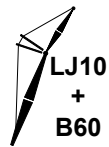


154.2 ft

	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	64.9	287.1	335,400	486,300									115
120	62.8	284.5	318,400	485,600									120
125	60.7	281.6	302,800	462,900									125
130	58.5	278.5	288,500	442,000									130
135	56.2	275.1	275,300	422,800									135
140	53.9	271.4	263,000	405,000	59.4	275.7	248,900	394,300					140
145	51.5	267.3	251,500	388,600	57.1	272.4	238,000	378,200					145
150	49.1	262.9	240,900	373,300	54.8	268.8	227,800	363,300					150
155	46.5	258.1	230,900	358,100	52.5	264.9	218,300	349,400					155
160	43.8	252.9	221,600	339,700	50.0	260.7	209,400	336,500					160
165	40.9	247.0	212,800	322,300	47.5	256.0	201,100	324,300	53.2	261.1	189,600	315,600	165
170	37.9	240.6	204,500	306,100	44.9	250.9	193,200	312,900	50.8	256.9	182,100	304,500	170
175	34.6	233.3	196,700	291,100	42.1	245.3	185,800	302,200	48.3	252.4	175,100	294,000	175
180	31.0	225.1	189,200	277,000	39.1	239.2	178,700	292,100	45.7	247.5	168,400	284,200	180
185	27.0	215.4	182,200	263,800	36.0	232.2	172,100	282,600	43.0	242.1	162,100	274,900	185
190	22.2	203.6	175,400	251,100	32.5	224.4	165,700	273,500	40.1	236.1	156,000	266,100	190
195	16.1	187.8	168,800	228,800	28.7	215.4	159,600	265,000	37.0	229.4	150,300	257,800	195
200					24.2	204.6	153,800	256,800	33.6	221.9	144,900	249,900	200
205					18.8	190.7	148,200	244,700	29.9	213.3	139,600	242,300	205
210					10.5	169.0	142,500	220,700	25.7	203.1	134,600	235,200	210
215									20.7	190.4	129,700	228,300	215
220									13.7	172.5	124,800	221,700	220

MLC650 VPC-MAX S-3

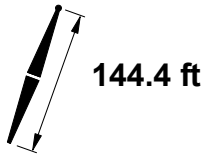
ASME B30.5



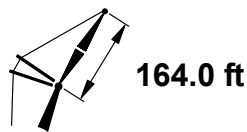
881,800 lb



360°



144.4 ft



164.0 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.1	310.9	495,400	495,400									70
75	72.3	309.2	495,400	495,400									75
80	70.4	307.4	487,800	487,800	72.3	308.6	490,500	490,500					80
85	68.5	305.3	480,000	480,000	70.4	306.7	490,500	490,500					85
90	66.6	303.1	472,200	472,200	68.5	304.7	484,600	484,600					90
95	64.7	300.7	464,300	464,300	66.6	302.5	456,500	477,700	69.5	304.4	443,100	475,800	95
100	62.7	298.0	438,100	456,400	64.7	300.1	429,600	470,600	67.6	302.3	416,900	475,800	100
105	60.7	295.2	413,400	448,600	62.7	297.4	405,400	463,400	65.7	300.0	393,300	475,800	105
110	58.6	292.1	391,100	429,900	60.7	294.5	383,400	456,200	63.7	297.5	372,000	471,600	110
115	56.5	288.7	370,800	409,200	58.6	291.4	363,500	449,000	61.7	294.7	352,600	465,800	115
120	54.4	285.0	352,200	388,900	56.5	288.1	345,200	425,900	59.7	291.7	334,800	459,700	120
125	52.1	281.1	335,200	369,300	54.4	284.4	328,500	401,400	57.6	288.5	318,500	439,100	125
130	49.8	276.8	319,500	350,600	52.2	280.5	313,100	379,300	55.5	285.0	303,500	413,400	130
135	47.5	272.2	304,900	332,800	49.9	276.2	298,800	358,800	53.3	281.2	289,700	390,200	135
140	45.0	267.1	291,500	316,100	47.5	271.5	285,600	339,900	51.0	277.1	276,800	369,200	140
145	42.4	261.6	279,000	300,500	45.0	266.5	273,300	322,500	48.7	272.6	264,900	349,700	145
150	39.6	255.5	267,300	286,200	42.4	261.0	261,900	306,400	46.2	267.8	253,700	331,600	150
155	36.7	248.8	256,300	273,100	39.6	254.9	251,100	291,500	43.7	262.5	243,300	314,900	155
160	33.5	241.2	246,100	261,200	36.7	248.2	241,100	277,600	41.0	256.7	233,500	299,400	160
165	30.1	232.7	236,400	249,400	33.6	240.6	231,600	264,600	38.2	250.3	224,300	285,100	165
170	26.2	222.7	227,300	231,300	30.1	232.1	222,600	252,400	35.2	243.2	215,700	271,600	170
175	21.6	210.5	207,800	207,800	26.2	222.1	214,200	235,300	31.9	235.2	207,500	259,000	175
180	15.6	194.2	179,200	179,200	21.6	209.9	206,100	214,900	28.2	226.0	199,700	247,100	180
185					15.6	193.6	185,600	185,600	24.0	215.0	192,300	231,700	185
190									18.8	201.2	185,200	210,900	190
195									11.4	180.5	177,100	177,100	195
200													200
205													205
210													210
215													215
220													220
230													230

MLC650 VPC-MAX S-3

ASME B30.5



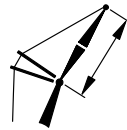
881,800 lb



360°



144.4 ft

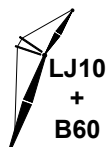


164.0 ft

	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	64.6	295.6	317,600	442,800									120
125	62.6	293.0	302,100	442,800									125
130	60.6	290.1	287,800	440,900									130
135	58.5	287.0	274,600	421,800									135
140	56.4	283.6	262,300	404,100									140
145	54.3	279.9	250,900	387,700	59.4	284.2	237,200	377,200					145
150	52.0	276.0	240,300	372,500	57.3	280.9	227,100	362,400					150
155	49.7	271.7	230,400	358,300	55.1	277.4	217,600	348,500					155
160	47.4	267.0	221,000	340,600	52.9	273.5	208,700	335,600					160
165	44.9	261.9	212,300	323,300	50.7	269.4	200,400	323,500					165
170	42.3	256.4	204,100	307,300	48.3	264.8	192,600	312,100	53.6	269.7	181,300	303,600	170
175	39.5	250.3	196,300	292,500	45.9	259.9	185,200	301,400	51.4	265.6	174,300	293,200	175
180	36.6	243.5	188,900	278,600	43.3	254.6	178,200	291,400	49.1	261.2	167,700	283,400	180
185	33.4	236.0	181,900	265,700	40.6	248.7	171,600	281,900	46.6	256.4	161,400	274,100	185
190	29.9	227.3	175,300	253,500	37.7	242.2	165,300	272,900	44.1	251.2	155,400	265,300	190
195	26.0	217.3	168,900	241,900	34.7	235.0	159,300	264,400	41.5	245.5	149,700	257,000	195
200	21.4	205.0	162,800	230,600	31.3	226.8	153,600	256,300	38.7	239.2	144,300	249,200	200
205	15.3	188.4	156,900	210,200	27.6	217.4	148,100	247,300	35.7	232.3	139,200	241,700	205
210					23.3	206.1	142,800	236,100	32.4	224.4	134,200	234,600	210
215					17.9	191.6	137,700	225,200	28.8	215.4	129,500	227,800	215
220					9.7	168.7	132,500	202,600	24.7	204.8	124,900	221,300	220
230									13.0	172.7	116,000	209,000	230

MLC650 VPC-MAX S-3

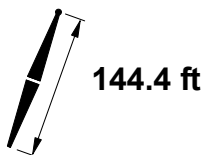
ASME B30.5



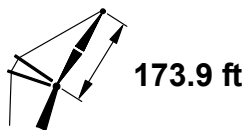
881,800 lb



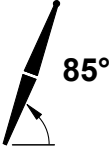
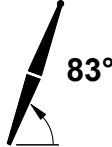
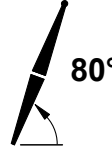
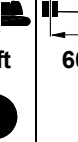
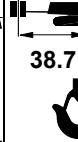
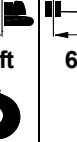
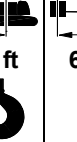
360°



144.4 ft



173.9 ft

	 85°					 83°					 80°					
	 ft	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 ft		
75	73.3		319.6	453,300	453,300										75	
80	71.6		317.9	453,200	453,200										80	
85	69.8		316.0	452,000	452,000	71.6	317.2	448,800	448,800						85	
90	68.0		313.9	445,100	445,100	69.8	315.3	448,800	448,800						90	
95	66.2		311.6	438,000	438,000	68.0	313.3	448,800	448,800						95	
100	64.4		309.2	431,000	431,000	66.2	311.0	427,200	443,100	68.9	313.0	414,300	434,900		100	
105	62.5		306.5	411,200	424,000	64.4	308.5	403,000	436,900	67.1	310.9	390,700	434,900		105	
110	60.6		303.6	388,900	416,300	62.5	305.9	381,100	430,500	65.3	308.5	369,400	434,900		110	
115	58.7		300.5	368,600	398,200	60.6	303.0	361,100	424,000	63.5	305.9	350,000	434,900		115	
120	56.7		297.2	350,000	380,200	58.7	299.9	342,900	417,500	61.6	303.2	332,300	432,600		120	
125	54.7		293.6	333,000	362,400	56.7	296.6	326,200	401,000	59.7	300.2	316,100	427,100		125	
130	52.6		289.7	317,300	345,100	54.7	293.0	310,800	378,800	57.7	297.0	301,100	412,900		130	
135	50.4		285.5	302,900	328,400	52.6	289.1	296,600	358,400	55.7	293.5	287,300	389,700		135	
140	48.2		281.0	289,400	312,600	50.4	284.9	283,400	339,500	53.6	289.8	274,400	368,600		140	
145	45.9		276.1	276,900	297,500	48.2	280.4	271,200	322,100	51.5	285.7	262,500	349,200		145	
150	43.5		270.8	265,300	283,400	45.9	275.5	259,700	306,100	49.3	281.4	251,400	331,100		150	
155	41.0		265.0	254,400	270,200	43.5	270.2	249,000	291,300	47.1	276.7	241,000	314,500		155	
160	38.3		258.6	244,200	258,000	41.0	264.4	239,000	277,500	44.7	271.6	231,300	299,100		160	
165	35.5		251.6	234,600	246,900	38.3	258.0	229,600	264,600	42.3	266.0	222,200	284,800		165	
170	32.4		243.8	225,500	237,000	35.5	251.0	220,700	252,500	39.7	260.0	213,500	271,500		170	
175	29.0		234.8	216,900	226,800	32.4	243.1	212,300	241,200	36.9	253.3	205,400	259,000		175	
180	25.2		224.4	208,800	210,600	29.1	234.2	204,400	230,400	34.0	245.9	197,700	247,400		180	
185	20.7		211.8	188,700	188,700	25.3	223.8	196,800	214,300	30.8	237.5	190,400	236,300		185	
190	14.9		194.7	162,600	162,600	20.8	211.2	189,600	195,300	27.2	227.9	183,400	225,800		190	
195						14.9	194.2	168,700	168,700	23.1	216.5	176,800	211,300		195	
200										18.1	202.1	170,400	192,000		200	
205										10.7	180.3	161,000	161,000		205	
210															210	
215															215	
220															220	
230															230	
240															240	

MLC650 VPC-MAX S-3

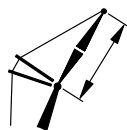
ASME B30.5



881,800 lb



144.4 ft

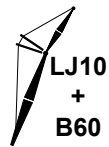


173.9 ft

	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	64.3	304.1	299,300	404,900									125
130	62.4	301.5	285,000	404,900									130
135	60.5	298.6	271,900	404,900									135
140	58.6	295.5	259,600	401,700									140
145	56.6	292.1	248,300	385,300									145
150	54.6	288.5	237,700	370,100	59.4	292.7	224,200	359,900					150
155	52.5	284.6	227,800	356,000	57.4	289.4	214,800	346,100					155
160	50.3	280.4	218,500	339,800	55.4	285.9	206,000	333,200					160
165	48.1	275.9	209,800	322,800	53.3	282.1	197,700	321,100					165
170	45.8	270.9	201,600	306,800	51.2	278.0	189,900	309,800					170
175	43.4	265.6	193,900	292,100	49.0	273.6	182,500	299,200	54.0	278.2	171,400	290,800	175
180	40.9	259.8	186,600	278,300	46.7	268.9	175,600	289,100	51.9	274.2	164,800	281,000	180
185	38.2	253.4	179,700	265,500	44.4	263.7	169,000	279,700	49.7	269.9	158,600	271,800	185
190	35.3	246.3	173,100	253,500	41.9	258.1	162,800	270,700	47.5	265.3	152,600	263,000	190
195	32.3	238.4	166,800	242,200	39.3	251.9	156,800	262,200	45.1	260.3	147,000	254,800	195
200	28.9	229.5	160,800	231,500	36.5	245.1	151,200	254,200	42.7	254.8	141,700	246,900	200
205	25.1	219.0	155,100	221,300	33.5	237.6	145,800	246,600	40.1	248.8	136,600	239,500	205
210	20.5	206.2	149,600	210,700	30.3	229.1	140,600	236,500	37.4	242.3	131,700	232,400	210
215	14.6	188.9	144,100	192,200	26.6	219.3	135,600	226,100	34.5	235.0	127,000	225,700	215
220					22.4	207.5	130,900	216,200	31.3	226.8	122,500	219,200	220
230					9.0	168.2	121,400	184,900	23.8	206.4	114,000	207,200	230
240									12.3	172.8	105,800	196,000	240

MLC650 VPC-MAX S-3

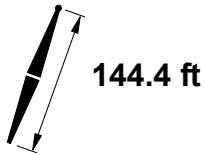
ASME B30.5



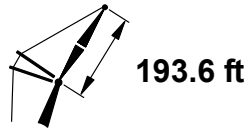
881,800 lb



360°



144.4 ft



193.6 ft

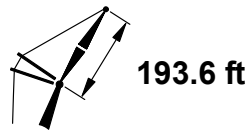
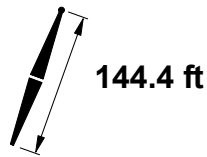
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	73.5	338.7	379,200	379,200									80
85	72.0	337.0	379,100	379,100									85
90	70.4	335.1	378,300	378,300	72.0	336.3	374,200	374,200					90
95	68.8	333.1	377,500	377,500	70.4	334.5	374,200	374,200					95
100	67.2	331.0	376,500	376,500	68.8	332.5	374,200	374,200					100
105	65.5	328.7	375,200	375,200	67.2	330.4	374,200	374,200	69.6	332.2	360,800	360,800	105
110	63.9	326.2	373,800	373,800	65.6	328.0	374,200	374,200	68.0	330.2	360,800	360,800	110
115	62.2	323.5	365,800	369,000	63.9	325.5	358,200	374,200	66.4	327.9	346,700	360,800	115
120	60.5	320.6	347,300	356,500	62.2	322.8	340,000	373,100	64.7	325.5	329,100	360,800	120
125	58.8	317.5	330,300	342,700	60.5	320.0	323,300	363,400	63.1	322.9	312,800	360,800	125
130	57.0	314.2	314,700	328,900	58.8	316.9	307,900	353,500	61.4	320.1	297,900	360,800	130
135	55.2	310.7	300,200	315,200	57.0	313.6	293,800	343,600	59.6	317.1	284,100	360,800	135
140	53.3	306.9	286,800	301,800	55.2	310.0	280,600	333,700	57.9	314.0	271,400	352,300	140
145	51.4	302.9	274,400	288,600	53.3	306.3	268,400	322,000	56.1	310.5	259,500	342,500	145
150	49.5	298.5	262,800	275,900	51.4	302.2	257,000	306,000	54.3	306.9	248,400	330,900	150
155	47.4	293.9	251,900	263,700	49.5	297.9	246,400	291,300	52.4	303.0	238,100	314,300	155
160	45.4	288.9	241,800	252,100	47.5	293.3	236,400	277,600	50.5	298.8	228,400	298,900	160
165	43.2	283.5	232,200	241,100	45.4	288.3	227,000	264,800	48.5	294.3	219,300	284,700	165
170	40.9	277.7	223,200	230,800	43.2	282.9	218,200	252,900	46.4	289.5	210,800	271,600	170
175	38.5	271.4	214,800	221,200	40.9	277.1	209,900	241,800	44.3	284.3	202,700	259,300	175
180	36.0	264.5	206,800	212,200	38.5	270.8	202,100	231,300	42.1	278.8	195,100	247,800	180
185	33.3	256.9	199,200	204,100	36.0	263.9	194,600	221,400	39.7	272.7	187,900	237,000	185
190	30.4	248.5	192,000	196,800	33.3	256.3	187,600	212,100	37.3	266.1	181,000	226,800	190
195	27.2	238.9	185,100	190,100	30.4	247.9	180,900	203,200	34.7	258.9	174,500	217,200	195
200	23.6	227.7	176,900	176,900	27.2	238.3	174,500	193,300	31.9	250.9	168,300	208,100	200
205	19.3	214.0	157,600	157,600	23.6	227.1	168,300	180,200	28.9	241.9	162,400	199,400	205
210	13.6	195.5	135,600	135,600	19.3	213.4	162,400	163,500	25.5	231.6	156,700	191,100	210
215					13.6	195.0	141,000	141,000	21.5	219.3	151,300	178,100	215
220									16.7	203.7	146,000	161,200	220
230													230
240													240
250													250
260													260

MLC650 VPC-MAX S-3

ASME B30.5



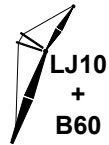
881,800 lb



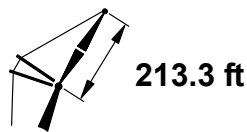
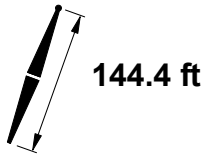
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	63.8	321.1	268,300	336,700									140
145	62.1	318.4	256,100	336,700									145
150	60.4	315.5	244,800	336,700									150
155	58.7	312.4	234,300	336,700									155
160	56.9	309.1	224,400	336,700	59.4	309.6	202,300	308,000					160
165	55.1	305.6	215,200	336,700	57.6	306.4	194,000	308,000					165
170	53.2	301.8	206,600	322,300	55.8	302.9	186,300	306,500					170
175	51.3	297.7	198,400	306,500	54.0	299.2	179,000	296,000					175
180	49.4	293.4	190,700	291,800									180
185	47.4	288.7	183,500	278,200	52.1	295.3	172,100	286,000	54.6	295.3	154,800	268,500	185
190	45.3	283.7	176,600	265,500	50.2	291.1	165,600	276,600	52.7	291.5	148,900	259,800	190
195	43.1	278.4	170,100	253,700	48.2	286.6	159,400	267,700	50.8	287.3	143,400	251,600	195
200	40.8	272.5	164,000	242,600	46.1	281.7	153,500	259,300	48.8	282.9	138,100	243,800	200
205	38.4	266.2	158,100	232,200	44.0	276.5	148,000	251,300	46.8	278.2	133,000	236,400	205
210	35.9	259.3	152,500	222,300	41.7	270.8	142,700	243,700	44.6	273.1	128,200	229,400	210
215	33.2	251.6	147,100	213,000	39.4	264.7	137,600	236,500	42.4	267.5	123,700	222,700	215
220	30.3	243.1	142,000	204,200	36.9	258.0	132,800	226,800	40.1	261.6	119,300	216,300	220
225	27.1	233.5	137,100	195,700	34.3	250.7	128,100	217,300	35.1	248.0	111,000	204,400	225
230	19.1	208.4	127,700	178,200	28.4	233.4	119,400	199,800	29.4	231.3	103,400	193,500	230
240					20.9	210.2	111,200	183,600	22.2	209.3	96,200	183,400	240
250					7.7	166.8	103,200	155,700	11.0	172.8	89,300	170,800	250
260													260

MLC650 VPC-MAX S-3

ASME B30.5



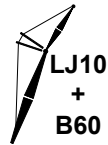
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	73.7	357.7	320,400	320,400									85
90	72.3	356.1	320,000	320,000									90
95	70.8	354.3	319,400	319,400	72.3	355.4	315,800	315,800					95
100	69.4	352.4	318,600	318,600	70.8	353.7	315,800	315,800					100
105	68.0	350.3	317,600	317,600	69.4	351.7	315,800	315,800					105
110	66.5	348.1	316,500	316,500	68.0	349.7	315,800	315,800					110
115	65.0	345.7	315,200	315,200	66.5	347.4	315,800	315,800	68.7	349.4	306,100	306,100	115
120	63.5	343.1	313,600	313,600	65.0	345.1	315,400	315,400	67.2	347.3	306,100	306,100	120
125	62.0	340.4	312,000	312,000	63.5	342.5	314,800	314,800	65.7	345.0	306,100	306,100	125
130	60.4	337.5	304,900	304,900	62.0	339.8	305,000	314,100	64.2	342.5	294,700	306,100	130
135	58.8	334.5	294,400	294,400	60.4	336.9	290,800	313,200	62.7	339.9	280,900	306,100	135
140	57.2	331.2	283,800	283,800	58.8	333.8	277,700	312,200	61.2	337.1	268,200	306,100	140
145	55.6	327.7	271,600	273,300	57.2	330.6	265,500	311,100	59.6	334.1	256,400	306,100	145
150	53.9	324.0	260,100	262,800	55.6	327.1	254,100	301,900	58.0	330.9	245,300	306,100	150
155	52.2	320.1	249,200	252,500	53.9	323.4	243,500	290,000	56.4	327.6	235,000	306,100	155
160	50.5	315.9	239,100	242,500	52.2	319.5	233,600	276,400	54.8	324.0	225,400	297,600	160
165	48.7	311.5	229,600	232,800	50.5	315.3	224,300	263,700	53.1	320.2	216,300	283,500	165
170	46.8	306.8	220,700	223,500	48.7	310.9	215,500	251,900	51.3	316.1	207,800	270,400	170
175	44.9	301.7	212,200	214,600	46.8	306.1	207,200	240,900	49.6	311.8	199,800	258,100	175
180	42.9	296.3	204,300	206,000	44.9	301.1	199,400	230,600	47.7	307.2	192,200	246,700	180
185	40.9	290.5	196,800	197,900	42.9	295.7	192,100	220,800	45.9	302.3	185,000	236,100	185
190	38.7	284.2	189,600	190,300	40.9	289.9	185,100	211,600	43.9	297.1	178,200	226,000	190
195	36.4	277.4	182,800	183,200	38.7	283.6	178,400	203,000	41.9	291.5	171,800	216,600	195
200	34.1	270.0	176,400	176,700	36.5	276.8	172,100	194,800	39.8	285.5	165,700	207,700	200
205	31.5	261.9	170,200	170,600	34.1	269.4	166,100	186,900	37.6	279.0	159,800	199,300	205
210	28.7	252.8	164,300	165,200	31.5	261.3	160,300	179,500	35.3	271.9	154,300	191,200	210
215	25.6	242.6	158,700	160,100	28.7	252.2	154,800	172,300	32.8	264.1	148,900	183,600	215
220	22.2	230.6	148,500	148,500	25.7	242.0	149,500	163,000	30.1	255.6	143,800	176,300	220
230	12.5	196.0	112,800	112,800	18.0	215.4	137,000	137,000	24.0	234.9	134,200	161,800	230
240									15.5	205.1	125,200	135,400	240
250													250
260													260
270													270
280													280

MLC650 VPC-MAX S-3

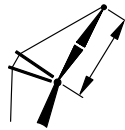
ASME B30.5



881,800 lb



144.4 ft

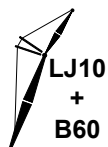


213.3 ft

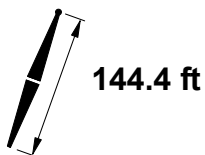
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	64.9	340.6	252,600	283,300									140
145	63.4	338.1	241,300	283,300									145
150	61.9	335.4	230,800	283,300									150
155	60.3	332.5	221,000	283,300									155
160	58.8	329.4	211,800	283,300									160
165	57.2	326.1	203,200	283,300									165
170	55.5	322.6	195,100	283,300	59.4	326.6	182,600	262,700					170
175	53.8	318.9	187,400	283,300	57.8	323.4	175,400	262,700					175
180	52.1	315.0	180,200	276,900	56.2	320.0	168,500	262,700					180
185	50.4	310.8	173,400	264,300	54.5	316.4	162,000	262,700					185
190	48.6	306.4	167,000	252,500	52.8	312.5	155,900	262,700					190
195	46.7	301.6	160,900	241,500	51.1	308.4	150,100	256,300					195
200	44.8	296.5	155,000	231,200	49.3	304.1	144,600	248,300	53.4	308.7	134,400	240,700	200
205	42.8	291.1	149,500	221,500	47.5	299.5	139,300	240,800	51.6	304.6	129,400	233,300	205
210	40.8	285.3	144,200	212,400	45.6	294.5	134,300	233,600	49.9	300.4	124,700	226,300	210
215	38.6	279.0	139,200	203,800	43.6	289.2	129,500	225,800	48.1	295.8	120,100	219,700	215
220	36.3	272.2	134,300	195,600	41.6	283.6	125,000	216,500	46.2	291.0	115,800	213,400	220
230	31.4	256.6	125,300	180,400	37.3	270.9	116,400	199,300	42.2	280.3	107,700	201,500	230
240	25.5	237.1	116,900	166,400	32.4	255.8	108,500	183,900	38.0	267.9	100,200	190,700	240
250	17.8	210.3	109,000	151,200	26.8	237.3	101,100	169,700	33.2	253.3	93,300	180,800	250
260					19.6	212.5	94,200	156,500	27.7	235.5	86,800	171,600	260
270					6.4	164.6	87,200	130,700	20.9	212.0	80,700	159,200	270
280									9.9	172.4	74,600	145,900	280

MLC650 VPC-MAX S-3

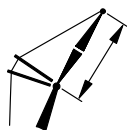
ASME B30.5



881,800 lb



144.4 ft

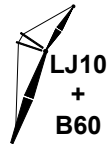


232.9 ft

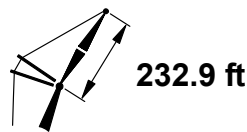
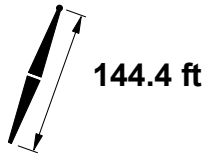
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	73.8	376.8	269,000	269,000									90
95	72.5	375.2	268,400	268,400									95
100	71.2	373.4	267,600	267,600	72.5	374.5	264,300	264,300					100
105	69.9	371.5	266,800	266,800	71.2	372.8	264,200	264,200					105
110	68.6	369.5	265,800	265,800	69.9	370.9	264,000	264,000					110
115	67.3	367.4	264,800	264,800	68.6	368.9	263,700	263,700					115
120	65.9	365.1	263,600	263,600	67.3	366.8	263,200	263,200	69.3	368.6	254,700	254,700	120
125	64.5	362.7	262,400	262,400	65.9	364.5	262,600	262,600	67.9	366.6	254,700	254,700	125
130	63.1	360.1	261,100	261,100	64.5	362.1	261,900	261,900	66.6	364.4	254,700	254,700	130
135	61.7	357.4	259,800	259,800	63.2	359.5	261,100	261,100	65.2	362.0	254,700	254,700	135
140	60.3	354.5	258,400	258,400	61.8	356.8	260,300	260,300	63.8	359.5	254,700	254,700	140
145	58.9	351.4	256,600	256,600	60.3	353.9	259,400	259,400	62.5	356.8	254,200	254,700	145
150	57.4	348.2	248,500	248,500	58.9	350.8	252,200	258,400	61.0	354.0	243,200	254,700	150
155	55.9	344.8	240,400	240,400	57.4	347.6	241,600	257,400	59.6	351.1	232,900	254,700	155
160	54.4	341.1	232,300	232,300	55.9	344.1	231,700	256,400	58.2	347.9	223,300	254,700	160
165	52.9	337.3	224,200	224,200	54.4	340.5	222,400	254,300	56.7	344.6	214,300	254,700	165
170	51.3	333.3	216,200	216,200	52.9	336.7	213,700	246,300	55.2	341.1	205,800	254,600	170
175	49.7	329.0	208,500	208,500	51.3	332.6	205,400	238,500	53.6	337.3	197,800	253,200	175
180	48.0	324.4	200,900	200,900	49.7	328.3	197,600	230,700	52.1	333.4	190,200	245,400	180
185	46.3	319.6	193,500	193,500	48.0	323.8	190,300	221,000	50.5	329.2	183,100	236,200	185
190	44.5	314.5	186,400	186,400	46.3	319.0	183,300	211,900	48.8	324.8	176,300	226,200	190
195	42.7	309.0	179,600	179,600	44.5	313.9	176,700	203,300	47.1	320.1	169,900	216,800	195
200	40.8	303.2	173,100	173,100	42.7	308.4	170,400	195,100	45.4	315.2	163,800	207,900	200
205	38.9	297.0	167,000	167,000	40.8	302.6	164,500	187,400	43.6	309.9	158,000	199,500	205
210	36.8	290.3	161,100	161,100	38.9	296.4	158,800	180,100	41.8	304.2	152,500	191,600	210
215	34.6	283.0	155,700	155,700	36.8	289.7	153,300	173,100	39.9	298.2	147,200	184,100	215
220	32.3	275.2	150,600	150,600	34.6	282.4	148,100	166,500	37.8	291.8	142,200	177,000	220
230	27.2	256.9	141,800	141,800	29.9	265.9	138,400	154,000	33.5	277.3	132,700	163,700	230
240	20.9	233.3	125,900	125,900	24.3	245.4	129,300	139,300	28.6	259.9	124,000	151,400	240
250	11.5	196.2	94,800	94,800	16.9	217.2	116,200	116,200	22.7	238.0	115,900	138,500	250
260									14.4	206.2	108,200	115,000	260
270													270
280													280
290													290
300													300

MLC650 VPC-MAX S-3

ASME B30.5



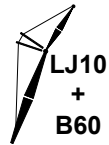
881,800 lb



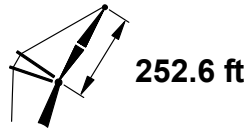
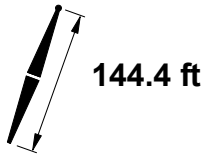
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	64.5	357.6	228,300	235,700									150
155	63.1	355.1	218,600	235,700									155
160	61.7	352.3	209,400	235,700									160
165	60.3	349.4	200,800	235,700									165
170	58.8	346.4	192,800	235,700									170
175	57.4	343.1	185,200	235,700									175
180	55.9	339.7	178,000	235,700	59.4	343.5	166,000	217,200					180
185	54.3	336.0	171,200	235,700	57.9	340.3	159,500	217,200					185
190	52.8	332.2	164,800	235,700	56.5	337.0	153,500	217,200					190
195	51.2	328.1	158,700	235,700	54.9	333.4	147,700	217,200					195
200	49.6	323.8	152,900	231,200	53.4	329.7	142,200	217,200					200
205	47.9	319.3	147,400	221,600	51.8	325.7	137,000	217,200					205
210	46.2	314.5	142,200	212,500	50.2	321.5	132,000	217,200	53.9	325.8	122,100	201,700	210
215	44.5	309.3	137,100	203,900	48.6	317.0	127,200	217,200	52.3	321.9	117,600	201,700	215
220	42.6	303.9	132,400	195,800	46.9	312.3	122,700	216,500	50.7	317.8	113,300	201,700	220
230	38.8	291.8	123,400	180,800	43.4	302.0	114,200	199,400	47.4	308.7	105,300	199,400	230
240	34.5	277.8	115,200	167,200	39.6	290.2	106,400	184,200	43.9	298.6	97,900	188,700	240
250	29.8	261.2	107,500	154,800	35.4	276.6	99,200	170,400	40.2	287.1	91,100	178,800	250
260	24.1	240.5	100,400	143,300	30.8	260.6	92,500	157,800	36.1	273.8	84,700	169,700	260
270	16.7	212.0	93,600	129,800	25.3	241.0	86,200	146,100	31.5	258.3	78,900	160,200	270
280					18.4	214.6	80,300	135,100	26.3	239.3	73,300	148,400	280
290					5.0	161.4	74,100	110,500	19.7	214.4	68,000	137,300	290
300									8.8	171.6	62,700	126,100	300

MLC650 VPC-MAX S-3

ASME B30.5



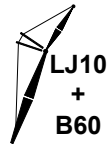
881,800 lb



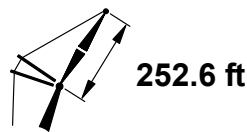
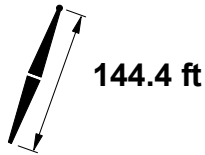
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95	73.9	395.8	228,400	228,400									95
100	72.7	394.2	227,700	227,700									100
105	71.5	392.5	226,900	226,900	72.8	393.6	224,200	224,200					105
110	70.3	390.7	226,000	226,000	71.6	391.9	223,900	223,900					110
115	69.1	388.8	225,000	225,000	70.3	390.1	223,500	223,500					115
120	67.9	386.7	224,000	224,000	69.1	388.1	223,000	223,000					120
125	66.7	384.5	222,900	222,900	67.9	386.1	222,400	222,400	69.7	387.8	215,500	215,500	125
130	65.4	382.2	221,800	221,800	66.7	383.9	221,700	221,700	68.5	385.8	215,500	215,500	130
135	64.1	379.7	220,600	220,600	65.4	381.5	221,000	221,000	67.3	383.7	215,500	215,500	135
140	62.9	377.1	219,400	219,400	64.1	379.1	220,300	220,300	66.0	381.4	215,500	215,500	140
145	61.6	374.3	218,200	218,200	62.9	376.5	219,400	219,400	64.8	379.0	215,500	215,500	145
150	60.3	371.4	216,900	216,900	61.6	373.7	218,500	218,500	63.5	376.5	215,400	215,400	150
155	58.9	368.4	215,700	215,700	60.3	370.8	217,600	217,600	62.2	373.8	215,100	215,100	155
160	57.6	365.2	214,400	214,400	58.9	367.8	216,700	216,700	60.9	371.0	214,800	214,800	160
165	56.2	361.8	209,200	209,200	57.6	364.5	215,700	215,700	59.6	368.0	210,800	214,500	165
170	54.8	358.2	202,900	202,900	56.2	361.2	210,400	214,800	58.3	364.9	202,300	214,100	170
175	53.4	354.5	196,500	196,500	54.8	357.6	202,200	213,800	56.9	361.6	194,400	213,600	175
180	52.0	350.5	190,300	190,300	53.4	353.8	194,400	212,800	55.5	358.1	186,800	213,100	180
185	50.5	346.4	184,100	184,100	52.0	349.9	187,100	210,500	54.1	354.4	179,700	212,600	185
190	49.0	342.0	178,000	178,000	50.5	345.7	180,200	204,100	52.7	350.6	173,000	212,100	190
195	47.4	337.3	172,100	172,100	49.0	341.3	173,600	197,800	51.2	346.5	166,600	211,600	195
200	45.8	332.4	166,300	166,300	47.4	336.7	167,300	191,500	49.7	342.3	160,500	205,900	200
205	44.2	327.3	160,700	160,700	45.8	331.8	161,400	185,300	48.2	337.8	154,800	197,600	205
210	42.5	321.8	155,300	155,300	44.2	326.6	155,700	178,400	46.6	333.0	149,300	189,700	210
215	40.8	316.0	150,200	150,200	42.5	321.2	150,300	171,500	45.0	328.0	144,000	182,300	215
220	39.0	309.8	145,200	145,200	40.8	315.3	145,200	164,900	43.4	322.6	139,000	175,200	220
230	35.1	296.0	136,000	136,000	37.1	302.5	135,500	152,700	39.9	311.0	129,700	162,100	230
240	30.8	280.0	128,000	128,000	33.1	287.7	126,600	141,500	36.1	297.7	121,100	150,200	240
250	25.9	260.7	121,300	121,300	28.5	270.2	118,400	131,200	32.0	282.3	113,100	139,200	250
260	19.8	235.7	105,200	105,200	23.1	248.6	110,700	117,800	27.2	264.0	105,700	129,100	260
270	10.5	196.1	77,900	77,900	15.9	218.7	97,000	97,000	21.5	240.8	98,800	117,400	270
280									13.5	207.0	92,100	96,200	280
290													290
300													300
310													310
320													320

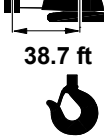
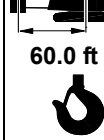
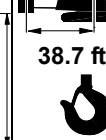
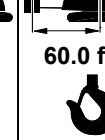
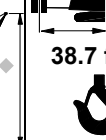
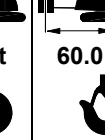
MLC650 VPC-MAX S-3

ASME B30.5



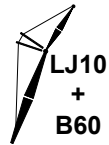
881,800 lb



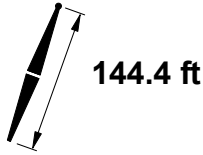
	 75°				 70°				 65°					
														
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95														95
100														100
105														105
110														110
115														115
120														120
125														125
130														130
135														135
140														140
145														145
150														150
155														155
160	64.1		374.6	199,400	199,400									160
165	62.8		372.0	197,000	199,400									165
170	61.5		369.3	189,000	199,400									170
175	60.2		366.4	181,400	199,400									175
180	58.9		363.3	174,300	199,400									180
185	57.5		360.1	167,500	199,400									185
190	56.2		356.7	161,100	199,400	59.4	360.5	149,600	183,300					190
195	54.8		353.1	155,100	199,400	58.1	357.3	143,800	183,300					195
200	53.3		349.4	149,300	199,400	56.7	354.0	138,400	183,300					200
205	51.9		345.4	143,900	199,400	55.3	350.5	133,200	183,300					205
210	50.4		341.2	138,600	199,400	53.9	346.8	128,200	183,300					210
215	48.9		336.8	133,700	199,400	52.5	342.9	123,500	183,300					215
220	47.4		332.2	128,900	193,800	51.0	338.8	119,000	183,300	54.4	342.9	109,400	169,200	220
230	44.1		322.1	120,000	179,000	48.0	330.0	110,600	183,300	51.5	335.0	101,400	169,200	230
240	40.7		310.8	111,900	165,600	44.8	320.1	102,900	182,200	48.5	326.3	94,100	169,200	240
250	37.0		297.9	104,400	153,400	41.4	309.0	95,800	168,600	45.3	316.6	87,400	169,200	250
260	33.0		283.1	97,400	142,300	37.8	296.5	89,200	156,200	42.0	305.8	81,100	166,700	260
270	28.4		265.5	90,900	131,900	33.8	282.1	83,000	144,900	38.4	293.5	75,300	158,300	270
280	22.9		243.7	84,700	122,200	29.3	265.2	77,300	134,400	34.4	279.4	69,900	147,000	280
290	15.7		213.5	78,900	110,100	24.1	244.4	71,900	124,700	30.1	262.9	64,800	136,500	290
300						17.4	216.5	66,700	115,300	25.0	242.9	60,000	126,700	300
310						3.5	156.2	61,200	90,900	18.6	216.5	55,400	117,300	310
320										7.9	170.4	50,700	107,200	320

MLC650 VPC-MAX S-3

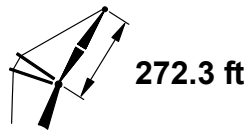
ASME B30.5



881,800 lb



144.4 ft

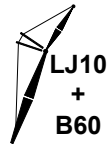


272.3 ft

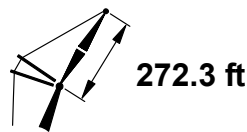
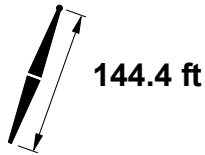
	85°				83°				80°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
100	74.0	414.9	195,600	195,600									100
105	72.9	413.3	194,900	194,900									105
110	71.8	411.6	194,100	194,100	72.9	412.7	192,300	192,300					110
115	70.7	409.8	193,300	193,300	71.8	411.0	191,900	191,900					115
120	69.6	407.9	192,300	192,300	70.7	409.2	191,400	191,400					120
125	68.4	405.9	191,400	191,400	69.6	407.3	190,800	190,800					125
130	67.3	403.8	190,300	190,300	68.5	405.3	190,200	190,200					130
135	66.1	401.6	189,300	189,300	67.3	403.2	189,500	189,500	69.0	405.0	184,800	184,800	135
140	65.0	399.2	188,200	188,200	66.2	400.9	188,700	188,700	67.9	403.0	184,700	184,700	140
145	63.8	396.7	187,100	187,100	65.0	398.6	187,900	187,900	66.7	400.8	184,500	184,500	145
150	62.6	394.1	186,000	186,000	63.8	396.1	187,100	187,100	65.6	398.5	184,300	184,300	150
155	61.4	391.3	184,800	184,800	62.6	393.4	186,300	186,300	64.4	396.0	184,000	184,000	155
160	60.2	388.4	183,700	183,700	61.4	390.7	185,400	185,400	63.2	393.5	183,600	183,600	160
165	59.0	385.4	182,500	182,500	60.2	387.8	184,500	184,500	62.0	390.8	183,200	183,200	165
170	57.7	382.2	181,300	181,300	59.0	384.7	183,600	183,600	60.8	387.9	182,700	182,700	170
175	56.5	378.8	180,200	180,200	57.7	381.5	182,600	182,600	59.6	385.0	182,200	182,200	175
180	55.2	375.3	177,100	177,100	56.5	378.2	181,700	181,700	58.3	381.8	181,700	181,700	180
185	53.9	371.6	172,200	172,200	55.2	374.7	180,700	180,700	57.1	378.6	177,600	181,100	185
190	52.5	367.7	167,200	167,200	53.9	371.0	178,200	179,800	55.8	375.1	170,900	180,600	190
195	51.2	363.7	162,300	162,300	52.5	367.1	171,700	178,900	54.5	371.5	164,500	180,000	195
200	49.8	359.4	157,400	157,400	51.2	363.0	165,400	178,000	53.2	367.8	158,500	179,400	200
205	48.4	354.9	152,600	152,600	49.8	358.8	159,500	174,300	51.9	363.8	152,700	178,800	205
210	46.9	350.2	147,900	147,900	48.4	354.3	153,900	169,300	50.5	359.6	147,300	178,200	210
215	45.5	345.3	143,400	143,400	46.9	349.6	148,500	164,400	49.1	355.3	142,100	177,600	215
220	43.9	340.0	139,000	139,000	45.5	344.6	143,400	159,500	47.7	350.7	137,100	174,400	220
230	40.8	328.7	130,500	130,500	42.4	333.9	133,800	150,100	44.7	340.8	127,800	161,400	230
240	37.3	316.0	122,800	122,800	39.1	321.9	125,000	141,100	41.6	329.7	119,300	149,600	240
250	33.6	301.4	115,800	115,800	35.5	308.3	116,800	131,000	38.2	317.4	111,400	138,800	250
260	29.5	284.6	109,700	109,700	31.6	292.7	109,300	121,600	34.6	303.3	104,100	128,900	260
270	24.7	264.2	104,500	104,500	27.2	274.3	102,300	112,800	30.6	287.1	97,300	119,700	270
280	18.8	238.0	88,400	88,400	22.0	251.5	95,700	100,300	26.0	267.8	91,000	111,100	280
290	9.7	195.7	64,100	64,100	15.0	219.9	81,300	81,300	20.5	243.4	85,000	100,200	290
300									12.6	207.6	79,200	80,800	300
310													310
320													320
330													330
340													340

MLC650 VPC-MAX S-3

ASME B30.5



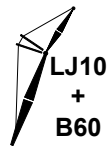
881,800 lb



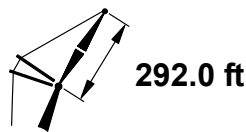
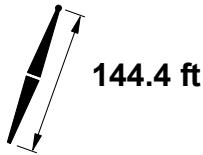
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165	64.9	394.1	170,900	170,900									165
170	63.8	391.6	170,900	170,900									170
175	62.6	389.0	170,900	170,900									175
180	61.4	386.2	170,900	170,900									180
185	60.1	383.3	165,100	170,900									185
190	58.9	380.3	158,800	170,900									190
195	57.7	377.1	152,700	170,900									195
200	56.4	373.7	147,000	170,900	59.4	377.4	135,800	157,800					200
205	55.1	370.2	141,600	170,900	58.2	374.3	130,600	157,800					205
210	53.8	366.5	136,400	170,900	56.9	371.0	125,700	157,800					210
215	52.5	362.6	131,400	170,900	55.6	367.5	121,000	157,800					215
220	51.1	358.5	126,700	170,900	54.3	363.9	116,600	157,800					220
230	48.3	349.8	117,900	170,900	51.7	356.1	108,200	157,800	54.7	360.0	98,800	145,400	230
240	45.4	340.1	109,800	164,700	48.9	347.5	100,600	157,800	52.1	352.3	91,600	145,400	240
250	42.3	329.3	102,400	152,700	46.0	338.0	93,500	157,800	49.3	343.8	84,900	145,400	250
260	39.0	317.3	95,500	141,700	42.9	327.5	87,000	155,400	46.4	334.5	78,700	145,400	260
270	35.5	303.7	89,100	131,600	39.7	315.7	80,900	144,200	43.4	324.1	73,000	145,400	270
280	31.5	288.0	83,100	122,300	36.2	302.5	75,300	134,000	40.2	312.6	67,700	145,400	280
290	27.1	269.5	77,500	113,600	32.4	287.3	70,000	124,600	36.7	299.6	62,700	135,900	290
300	21.9	246.6	72,200	105,300	28.0	269.4	65,000	115,800	33.0	284.7	58,000	126,400	300
310	14.8	214.7	67,000	94,000	23.0	247.5	60,300	107,500	28.8	267.3	53,600	117,500	310
320					16.4	218.1	55,800	99,400	23.9	246.2	49,400	109,200	320
330									17.6	218.5	45,400	101,200	330
340									6.9	168.7	41,200	91,700	340

MLC650 VPC-MAX S-3

ASME B30.5



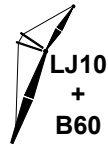
881,800 lb



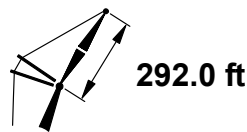
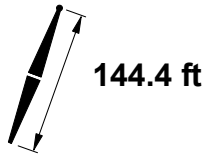
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105	74.1	433.9	163,900	163,900									105
110	73.1	432.4	163,100	163,100									110
115	72.1	430.7	162,300	162,300									115
120	71.0	429.0	161,400	161,400	72.1	430.1	160,300	160,300					120
125	70.0	427.1	160,500	160,500	71.0	428.3	159,700	159,700					125
130	68.9	425.2	159,500	159,500	70.0	426.5	159,000	159,000					130
135	67.9	423.1	158,500	158,500	68.9	424.5	158,300	158,300					135
140	66.8	420.9	157,500	157,500	67.9	422.5	157,500	157,500	69.4	424.2	153,900	153,900	140
145	65.7	418.6	156,500	156,500	66.8	420.3	156,700	156,700	68.4	422.2	153,600	153,600	145
150	64.6	416.2	155,500	155,500	65.7	418.0	155,900	155,900	67.3	420.1	153,200	153,200	150
155	63.5	413.7	154,400	154,400	64.6	415.6	155,100	155,100	66.2	417.8	152,800	152,800	155
160	62.4	411.0	153,400	153,400	63.5	413.0	154,200	154,200	65.2	415.5	152,300	152,300	160
165	61.3	408.3	152,300	152,300	62.4	410.4	153,400	153,400	64.1	413.0	151,800	151,800	165
170	60.2	405.4	151,300	151,300	61.3	407.6	152,500	152,500	63.0	410.4	151,300	151,300	170
175	59.0	402.3	150,200	150,200	60.2	404.7	151,600	151,600	61.9	407.7	150,700	150,700	175
180	57.8	399.1	149,200	149,200	59.0	401.7	150,700	150,700	60.7	404.9	150,100	150,100	180
185	56.7	395.8	148,100	148,100	57.8	398.5	149,800	149,800	59.6	401.9	149,500	149,500	185
190	55.5	392.3	147,100	147,100	56.7	395.2	148,900	148,900	58.4	398.8	148,900	148,900	190
195	54.3	388.7	146,100	146,100	55.5	391.7	148,100	148,100	57.3	395.6	148,300	148,300	195
200	53.0	384.9	145,100	145,100	54.3	388.1	147,200	147,200	56.1	392.2	147,600	147,600	200
205	51.8	380.9	143,500	143,500	53.0	384.3	146,300	146,300	54.9	388.6	147,000	147,000	205
210	50.5	376.8	139,700	139,700	51.8	380.3	145,500	145,500	53.6	384.9	143,600	146,400	210
215	49.2	372.4	136,000	136,000	50.5	376.1	144,600	144,600	52.4	381.0	138,400	145,700	215
220	47.9	367.9	132,200	132,200	49.2	371.8	139,900	143,800	51.1	376.9	133,400	145,100	220
230	45.1	358.1	125,000	125,000	46.5	362.5	130,300	142,300	48.5	368.2	124,200	143,900	230
240	42.2	347.3	118,100	118,100	43.7	352.2	121,500	134,900	45.8	358.7	115,700	142,700	240
250	39.2	335.3	111,600	111,600	40.7	340.8	113,400	127,700	43.0	348.2	107,800	136,800	250
260	35.9	321.9	105,500	105,500	37.6	328.2	106,000	119,700	40.0	336.5	100,600	126,900	260
270	32.3	306.6	100,100	100,100	34.1	313.9	99,000	111,200	36.7	323.4	93,900	117,900	270
280	28.3	288.9	95,200	95,200	30.4	297.5	92,600	103,200	33.2	308.7	87,600	109,400	280
290	23.7	267.5	87,700	87,700	26.1	278.2	86,500	95,600	29.4	291.6	81,800	101,600	290
300	17.9	240.0	72,500	72,500	21.0	254.2	80,800	83,900	24.9	271.4	76,300	94,100	300
310	8.9	195.0	50,500	50,500	14.2	221.0	66,200	66,200	19.5	245.8	71,000	83,900	310
320									11.9	208.0	65,900	65,900	320
330													330
340													340
350													350
360													360

MLC650 VPC-MAX S-3

ASME B30.5



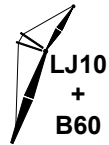
881,800 lb



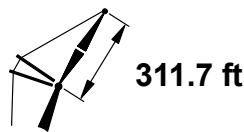
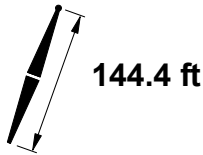
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175	64.6	411.2	141,800	141,800									175
180	63.5	408.6	141,800	141,800									180
185	62.4	406.0	141,800	141,800									185
190	61.2	403.2	141,800	141,800									190
195	60.1	400.3	141,800	141,800									195
200	59.0	397.2	141,800	141,800									200
205	57.8	394.1	137,600	141,800									205
210	56.6	390.7	132,500	141,800	59.4	394.4	121,600	130,300					210
215	55.4	387.2	127,500	141,700	58.3	391.3	116,900	130,300					215
220	54.2	383.6	122,900	141,600	57.1	388.0	112,500	130,300					220
230	51.7	375.8	114,100	141,200	54.7	381.0	104,200	130,300					230
240	49.1	367.3	106,000	140,800	52.2	373.3	96,600	130,300					240
250	46.5	357.9	98,600	140,400	49.7	365.0	89,600	130,300	52.6	369.5	80,800	120,500	250
260	43.6	347.6	91,800	139,600	47.0	355.8	83,100	130,300	50.1	361.2	74,700	120,500	260
270	40.7	336.3	85,400	129,600	44.2	345.7	77,100	130,300	47.4	352.2	69,000	120,500	270
280	37.5	323.5	79,500	120,400	41.3	334.5	71,500	130,300	44.7	342.2	63,700	120,500	280
290	34.1	309.2	74,000	111,800	38.1	322.1	66,300	122,500	41.7	331.3	58,800	120,500	290
300	30.3	292.8	68,800	103,800	34.8	308.1	61,400	113,900	38.6	319.1	54,200	120,500	300
310	26.0	273.4	63,900	96,300	31.1	292.1	56,800	105,800	35.3	305.3	49,800	115,500	310
320	20.9	249.3	59,200	89,200	26.9	273.4	52,400	98,200	31.7	289.7	45,800	107,400	320
330	14.0	215.7	54,700	78,600	22.0	250.5	48,300	91,100	27.6	271.5	41,900	99,800	330
340					15.6	219.6	44,200	84,000	22.8	249.4	38,200	92,600	340
350									16.8	220.2	34,500	85,600	350
360									6.0	166.4	30,800	76,500	360

MLC650 VPC-MAX S-3

ASME B30.5



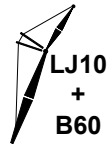
881,800 lb



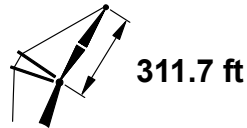
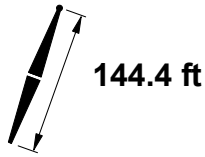
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
110	74.2	453.0	140,300	140,300									110
115	73.2	451.4	139,500	139,500									115
120	72.3	449.8	138,700	138,700									120
125	71.3	448.1	137,900	137,900	72.3	449.2	137,000	137,000					125
130	70.3	446.3	137,000	137,000	71.3	447.5	136,400	136,400					130
135	69.3	444.3	136,100	136,100	70.3	445.6	135,700	135,700					135
140	68.3	442.3	135,200	135,200	69.3	443.7	135,000	135,000					140
145	67.3	440.2	134,300	134,300	68.3	441.7	134,300	134,300	69.8	443.4	131,300	131,300	145
150	66.3	438.0	133,400	133,400	67.3	439.6	133,500	133,500	68.8	441.4	130,900	130,900	150
155	65.3	435.7	132,400	132,400	66.3	437.4	132,700	132,700	67.8	439.4	130,500	130,500	155
160	64.3	433.2	131,500	131,500	65.3	435.0	132,000	132,000	66.8	437.2	130,000	130,000	160
165	63.3	430.7	130,500	130,500	64.3	432.6	131,200	131,200	65.8	434.9	129,500	129,500	165
170	62.2	428.0	129,600	129,600	63.3	430.0	130,300	130,300	64.8	432.5	129,000	129,000	170
175	61.2	425.2	128,600	128,600	62.2	427.4	129,500	129,500	63.8	430.0	128,400	128,400	175
180	60.1	422.3	127,800	127,800	61.2	424.6	128,800	128,800	62.7	427.4	127,900	127,900	180
185	59.0	419.3	126,800	126,800	60.1	421.7	127,900	127,900	61.7	424.7	127,300	127,300	185
190	57.9	416.1	125,800	125,800	59.0	418.6	127,100	127,100	60.6	421.8	126,700	126,700	190
195	56.8	412.8	124,900	124,900	58.0	415.5	126,300	126,300	59.6	418.9	126,100	126,100	195
200	55.7	409.4	124,000	124,000	56.9	412.2	125,500	125,500	58.5	415.8	125,500	125,500	200
205	54.6	405.8	123,100	123,100	55.7	408.7	124,700	124,700	57.4	412.5	124,900	124,900	205
210	53.5	402.0	122,300	122,300	54.6	405.2	123,900	123,900	56.3	409.2	124,300	124,300	210
215	52.3	398.1	121,400	121,400	53.5	401.4	123,100	123,100	55.2	405.7	123,700	123,700	215
220	51.1	394.1	120,500	120,500	52.3	397.5	122,300	122,300	54.0	402.0	123,000	123,000	220
230	48.7	385.4	117,000	117,000	49.9	389.2	120,900	120,900	51.7	394.2	121,900	121,900	230
240	46.1	375.9	111,200	111,200	47.4	380.2	119,400	119,400	49.3	385.7	113,700	120,700	240
250	43.5	365.6	105,400	105,400	44.8	370.3	111,600	118,100	46.8	376.5	105,900	119,600	250
260	40.7	354.2	100,000	100,000	42.1	359.4	104,200	114,000	44.2	366.3	98,700	118,600	260
270	37.7	341.6	94,900	94,900	39.3	347.4	97,300	108,300	41.4	355.2	92,000	116,900	270
280	34.6	327.5	90,200	90,200	36.2	334.1	90,900	102,500	38.5	342.9	85,800	108,600	280
290	31.1	311.5	85,800	85,800	32.9	319.1	84,900	95,200	35.4	329.2	80,000	100,900	290
300	27.2	292.9	82,000	82,000	29.2	302.0	79,300	88,300	32.0	313.8	74,600	93,700	300
310	22.7	270.7	74,100	74,100	25.1	281.8	74,000	81,200	28.2	295.9	69,500	86,900	310
320	17.1	241.8	60,000	60,000	20.1	256.8	68,900	70,700	23.9	274.8	64,600	80,500	320
330	8.1	193.9	39,900	39,900	13.5	221.9	54,500	54,500	18.7	248.0	60,000	70,900	330
340									11.1	208.1	54,200	54,200	340
350													350
360													360
370													370
380													380

MLC650 VPC-MAX S-3

ASME B30.5



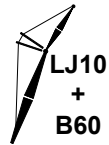
881,800 lb



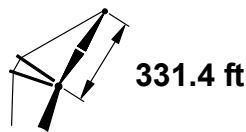
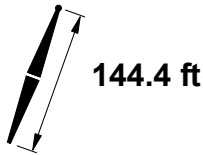
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185	64.3	428.2	120,400	120,400									185
190	63.2	425.6	120,300	120,300									190
195	62.2	422.9	120,300	120,300									195
200	61.1	420.2	120,200	120,200									200
205	60.1	417.2	120,000	120,000									205
210	59.0	414.2	119,900	119,900									210
215	57.9	411.0	119,700	119,700									215
220	56.8	407.7	119,500	119,500	59.4	411.3	110,000	110,200					220
230	54.6	400.7	111,800	119,000	57.2	405.0	101,700	110,200					230
240	52.2	393.0	103,800	118,500	55.0	398.1	94,200	110,200					240
250	49.8	384.7	96,400	118,000	52.7	390.5	87,200	110,200					250
260	47.4	375.6	89,600	117,500	50.3	382.3	80,800	110,200	53.1	386.7	72,200	101,300	260
270	44.8	365.7	83,300	117,000	47.9	373.4	74,800	110,200	50.7	378.6	66,500	101,300	270
280	42.1	354.8	77,500	116,600	45.3	363.7	69,300	110,200	48.3	369.8	61,300	101,300	280
290	39.2	342.8	72,000	110,900	42.6	353.0	64,100	110,200	45.7	360.2	56,400	101,300	290
300	36.1	329.5	66,900	103,100	39.8	341.2	59,300	110,200	43.0	349.7	51,900	101,300	300
310	32.8	314.5	62,000	95,800	36.7	328.2	54,700	105,000	40.2	338.1	47,600	101,300	310
320	29.1	297.2	57,500	88,900	33.5	313.5	50,400	97,600	37.2	325.2	43,600	101,300	320
330	25.0	277.0	53,200	82,400	29.9	296.8	46,400	90,700	34.0	310.8	39,800	99,000	330
340	20.0	251.8	49,000	76,200	25.9	277.2	42,500	84,100	30.5	294.5	36,200	92,100	340
350	13.3	216.5	45,000	66,400	21.1	253.2	38,900	77,800	26.5	275.4	32,700	85,500	350
360					14.8	220.8	35,200	71,700	21.9	252.3	29,400	79,200	360
370									16.0	221.8	26,200	73,100	370
380									5.1	163.3	22,800	64,400	380

MLC650 VPC-MAX S-3

ASME B30.5



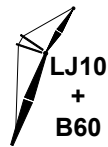
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.3	472.0	119,600	119,600									115
120	73.4	470.5	119,000	119,000									120
125	72.4	468.9	118,300	118,300									125
130	71.5	467.2	117,500	117,500	72.5	468.3	116,800	116,800					130
135	70.6	465.4	116,600	116,600	71.5	466.6	116,100	116,100					135
140	69.7	463.5	115,700	115,700	70.6	464.8	115,400	115,400					140
145	68.8	461.6	114,900	114,900	69.7	462.9	114,700	114,700					145
150	67.8	459.5	114,000	114,000	68.8	460.9	113,900	113,900					150
155	66.9	457.3	113,100	113,100	67.8	458.9	113,200	113,200	69.2	460.6	111,000	111,000	155
160	65.9	455.1	112,200	112,200	66.9	456.7	112,400	112,400	68.3	458.6	110,500	110,500	160
165	65.0	452.7	111,300	111,300	65.9	454.4	111,700	111,700	67.4	456.5	110,000	110,000	165
170	64.0	450.2	110,500	110,500	65.0	452.1	110,900	110,900	66.4	454.3	109,500	109,500	170
175	63.0	447.6	109,600	109,600	64.0	449.6	110,200	110,200	65.5	452.0	108,900	108,900	175
180	62.1	445.0	108,700	108,700	63.0	447.0	109,400	109,400	64.5	449.5	108,400	108,400	180
185	61.1	442.2	107,900	107,900	62.1	444.3	108,600	108,600	63.5	447.0	107,800	107,800	185
190	60.1	439.3	107,000	107,000	61.1	441.5	107,900	107,900	62.6	444.4	107,300	107,300	190
195	59.1	436.2	106,200	106,200	60.1	438.6	107,100	107,100	61.6	441.7	106,700	106,700	195
200	58.0	433.1	105,400	105,400	59.1	435.6	106,400	106,400	60.6	438.8	106,100	106,100	200
205	57.0	429.8	104,500	104,500	58.0	432.5	105,700	105,700	59.6	435.8	105,600	105,600	205
210	56.0	426.4	103,700	103,700	57.0	429.2	104,900	104,900	58.6	432.7	105,000	105,000	210
215	54.9	422.8	102,900	102,900	56.0	425.8	104,200	104,200	57.5	429.5	104,400	104,400	215
220	53.8	419.2	102,100	102,100	54.9	422.2	103,500	103,500	56.5	426.2	103,800	103,800	220
230	51.6	411.3	100,600	100,600	52.7	414.7	102,100	102,100	54.4	419.1	102,700	102,700	230
240	49.4	402.9	99,200	99,200	50.5	406.6	100,700	100,700	52.2	411.4	101,500	101,500	240
250	47.0	393.7	97,700	97,700	48.2	397.7	99,400	99,400	49.9	403.1	100,400	100,400	250
260	44.6	383.7	93,100	93,100	45.8	388.2	98,200	98,200	47.6	394.1	95,200	99,400	260
270	42.0	372.8	88,600	88,600	43.3	377.7	93,900	97,100	45.2	384.3	88,500	98,500	270
280	39.3	360.8	84,400	84,400	40.7	366.3	87,600	94,400	42.7	373.7	82,400	97,600	280
290	36.5	347.6	80,300	80,300	37.9	353.8	81,600	87,900	40.0	362.0	76,600	95,500	290
300	33.4	332.9	76,300	76,300	34.9	339.8	76,000	81,400	37.2	349.1	71,200	88,900	300
310	30.0	316.2	70,000	70,000	31.7	324.2	70,800	74,900	34.2	334.8	66,200	82,300	310
320	26.2	296.8	63,700	63,700	28.2	306.3	65,900	68,600	30.9	318.6	61,400	75,700	320
330	21.9	273.6	57,700	57,700	24.2	285.2	61,200	62,200	27.2	300.0	56,900	69,100	330
340	16.4	243.4	47,400	47,400	19.3	259.1	56,200	56,200	23.0	277.9	52,600	62,600	340
350	7.4	192.6	28,900	28,900	12.8	222.5	42,400	42,400	17.9	250.0	48,500	56,500	350
360									10.4	208.1	42,300	42,300	360
370													370
380													380
390													390
400													400

MLC650 VPC-MAX S-3

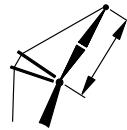
ASME B30.5



881,800 lb



144.4 ft

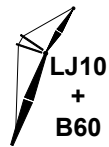


331.4 ft

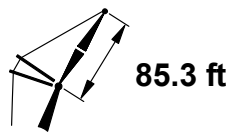
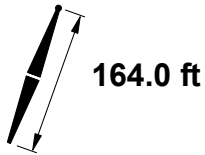
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190	64.9	447.6	101,400	101,400									190
195	64.0	445.2	101,200	101,200									195
200	63.0	442.6	101,100	101,100									200
205	62.0	439.9	100,900	100,900									205
210	61.0	437.1	100,800	100,800									210
215	60.0	434.2	100,500	100,500									215
220	59.0	431.2	100,300	100,300									220
230	57.0	424.7	99,800	99,800	59.4	428.3	92,200	92,200					230
240	54.9	417.8	99,200	99,200	57.4	422.0	90,200	92,200					240
250	52.7	410.2	92,700	98,700	55.3	415.1	83,300	92,200					250
260	50.5	402.1	86,000	98,100	53.1	407.7	76,900	92,200					260
270	48.2	393.2	79,700	97,500	50.9	399.7	71,000	92,200	53.5	403.8	62,500	84,200	270
280	45.8	383.6	73,800	97,000	48.6	391.0	65,500	92,200	51.3	395.9	57,300	84,200	280
290	43.3	373.2	68,400	96,500	46.2	381.5	60,300	92,200	49.0	387.3	52,500	84,200	290
300	40.6	361.7	63,300	96,100	43.8	371.2	55,500	92,200	46.6	378.0	48,000	84,200	300
310	37.8	349.2	58,500	93,300	41.2	360.0	51,000	92,200	44.2	367.8	43,700	84,200	310
320	34.9	335.2	54,000	86,600	38.4	347.7	46,800	92,200	41.6	356.8	39,800	84,200	320
330	31.7	319.5	49,800	80,200	35.5	334.0	42,800	88,200	38.9	344.6	36,000	84,200	330
340	28.1	301.5	45,800	73,500	32.3	318.7	39,000	81,800	36.0	331.2	32,500	84,200	340
350	24.1	280.4	42,000	66,900	28.8	301.2	35,500	75,800	32.8	316.1	29,100	83,100	350
360	19.2	254.1	38,300	60,500	24.9	280.8	32,000	70,100	29.4	299.0	25,900	77,100	360
370	12.6	217.1	34,600	53,900	20.2	255.8	28,700	63,800	25.6	279.2	22,800	71,300	370
380					14.1	221.9	25,500	57,900	21.0	255.1		65,800	380
390									15.3	223.1		60,400	390
400									4.0	159.1		51,900	400

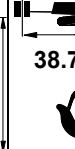
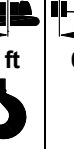
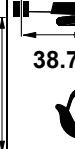
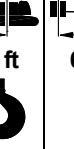
MLC650 VPC-MAX S-3

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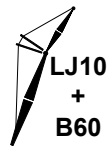
881,800 lb



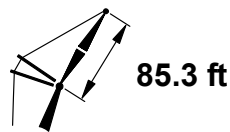
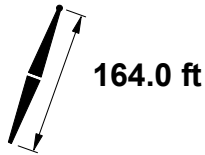
	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
50	74.2	254.8	771,600 c	771,600 c									50
55	70.6	252.9	764,900 c	771,600 c									55
60	67.0	250.7	736,000 c	771,600 c									60
65	63.2	248.0	674,100 b	758,000 b	71.1	252.5	723,900 c	771,600 c					65
70	59.2	244.9	618,800 b	727,000 b	67.5	250.3	660,000 b	771,600 b					70
					63.7	247.7	605,800 b	771,600 b					
75	55.1	241.3	571,300	697,900	59.8	244.7	559,300 b	746,000 b	66.4	248.1	541,300 b	771,600 b	75
80	50.7	237.1	530,100	670,900	55.7	241.1	519,000	716,500	62.5	245.4	502,300 b	771,600 b	80
85	46.0	232.2	493,900	644,200	51.3	237.0	483,600	688,800	58.6	242.2	468,000 b	755,200 b	85
90	40.8	226.3	461,800	592,100	46.7	232.2	452,200	652,600	54.4	238.5	437,700	710,000	90
95	34.9	219.1	433,100	518,000	41.6	226.5	424,300	599,400	50.0	234.2	410,700	666,300	95
100	27.9	209.9	407,200	435,900	35.8	219.5	399,100	547,100	45.2	229.2	386,500	627,400	100
105	18.1	196.2	352,600	352,600	29.0	210.7	376,200	462,000	39.9	223.1	364,600	585,400	105
110					19.8	197.9	355,100	377,300	33.9	215.7	344,600	541,300	110
115									26.6	206.0	326,200	458,000	115
120									15.9	190.8	308,800	367,900	120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160

MLC650 VPC-MAX S-3

ASME B30.5



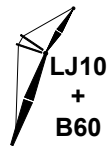
881,800 lb



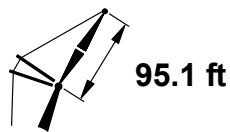
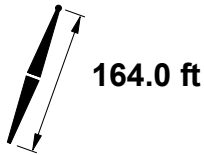
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
50													50
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95	61.7	241.4	388,100 b	648,300 b									95
100	57.7	238.1	365,200	610,400									100
105	53.5	234.3	344,600	576,500									105
110	49.0	229.9	325,900	546,000									110
115	44.1	224.6	308,700	518,300	56.6	232.5	290,900	504,300					115
120	38.7	218.3	293,000	493,200	52.3	228.6	276,200	479,800					120
125	32.5	210.5	278,400	470,100	47.7	223.9	262,600	457,400					125
130	24.8	200.1	264,800	448,900	42.7	218.4	250,000	436,900					130
135	12.2	182.1	251,500	370,000	37.1	211.7	238,300	418,000	50.6	221.2	223,900	406,700	135
140					30.6	203.4	227,300	400,400	45.9	216.2	213,700	389,700	140
145					22.1	191.8	216,800	384,100	40.7	210.3	204,200	373,900	145
150									34.9	203.2	195,200	359,200	150
155									27.8	193.9	186,700	345,400	155
160									17.9	180.0	178,300	332,400	160

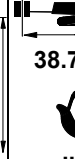
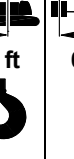
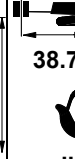
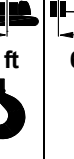
MLC650 VPC-MAX S-3

ASME B30.5



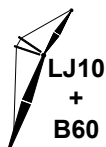
881,800 lb



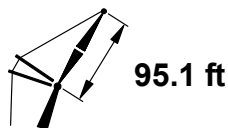
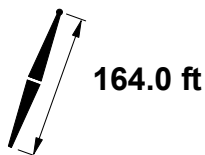
	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55	72.7	263.5	741,300 c	771,600 c									55
60	69.5	261.5	714,200 b	762,900 b									60
65	66.2	259.2	671,900 b	733,600 b									65
70	62.8	256.5	616,700 b	705,000 b	70.0	261.1	657,400 b	771,600 b					70
75	59.2	253.4	569,300	677,600	66.7	258.8	603,300 b	752,400 b					75
					63.3	256.2	556,900 b	724,100 b	69.0	259.0	538,500 b	771,600 b	
80	55.6	249.9	528,100	651,800	59.8	253.2	516,700	696,600	65.7	256.6	499,500 b	762,000 b	80
85	51.7	245.8	492,000	627,700	56.1	249.7	481,400	670,400	62.2	253.9	465,400 b	734,900 b	85
90	47.6	241.1	460,100	599,700	52.2	245.7	450,200	645,700	58.7	250.7	435,200	706,900	90
95	43.1	235.7	431,700	554,300	48.2	241.1	422,400	607,000	55.0	247.1	408,400	663,300	95
100	38.3	229.3	406,100	514,600	43.8	235.8	397,400	560,700	51.0	243.0	384,300	624,600	100
105	32.7	221.6	383,000	463,700	39.0	229.6	374,900	520,300	46.9	238.2	362,500	589,900	105
110	26.0	211.6	361,800	394,100	33.5	222.1	354,300	484,600	42.4	232.6	342,700	548,500	110
115	16.6	196.8	321,400	321,400	27.0	212.5	335,500	417,500	37.4	226.0	324,700	509,600	115
120					18.2	198.7	317,800	344,000	31.7	218.0	308,000	475,200	120
125									24.7	207.6	292,600	414,900	125
130									14.4	191.1	277,900	335,400	130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170

MLC650 VPC-MAX S-3

ASME B30.5



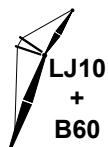
881,800 lb



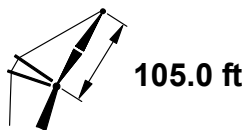
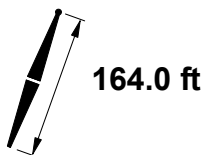
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95	64.9	252.7	385,100	645,000									95
100	61.5	249.9	362,300	607,300									100
105	57.9	246.6	341,800	573,500									105
110	54.2	242.9	323,200	543,200									110
115	50.2	238.6	306,200	515,600									115
120	46.0	233.7	290,700	490,600	56.9	241.1	273,200	477,000					120
125	41.4	228.0	276,300	467,700	53.1	237.2	259,700	454,700					125
130	36.3	221.1	263,100	446,700	49.1	232.8	247,300	434,300					130
135	30.4	212.7	250,700	427,300	44.7	227.6	235,800	415,500					135
140	23.0	201.5	239,000	409,400	40.0	221.6	225,000	398,100	51.6	229.9	210,800	387,000	140
145	10.7	181.7	227,400	337,400	34.8	214.4	214,900	381,900	47.5	225.2	201,400	371,300	145
150					28.6	205.4	205,400	366,900	43.1	219.8	192,600	356,700	150
155					20.5	192.9	196,300	352,700	38.2	213.4	184,300	343,100	155
160									32.6	205.6	176,500	330,400	160
165									25.9	195.6	168,900	318,400	165
170									16.4	180.6	161,600	307,000	170

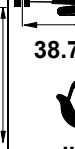
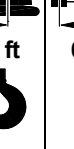
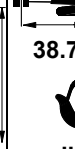
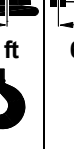
MLC650 VPC-MAX S-3

ASME B30.5



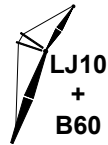
881,800 lb



	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55	74.4	273.9	724,400 b	747,300 b									55
60	71.5	272.1	698,600 b	733,000 b									60
65	68.6	270.0	670,700 b	709,600 b	71.9	271.6	656,000 b	740,100 b					65
70	65.6	267.7	615,600 b	683,700 b	69.0	269.6	602,000 b	727,500 b					70
75	62.5	265.0	568,200	658,300	66.0	267.3	555,700 b	702,300 b					75
80	59.3	261.9	527,200	634,100	62.9	264.6	515,500	677,300	68.1	267.5	498,100	728,000	80
85	55.9	258.4	491,200	611,100	59.7	261.6	480,300	652,900	65.1	265.1	464,000	713,400	85
90	52.5	254.5	459,400	587,600	56.4	258.2	449,200	629,600	62.0	262.3	433,900	689,300	90
95	48.8	250.0	431,100	550,400	53.0	254.3	421,500	607,400	58.7	259.2	407,100	661,300	95
100	44.9	244.9	405,700	516,100	49.3	250.0	396,700	566,400	55.4	255.7	383,100	622,700	100
105	40.7	239.0	382,700	485,200	45.5	245.0	374,200	525,800	51.9	251.6	361,500	588,200	105
110	36.1	232.2	361,900	453,900	41.3	239.2	353,900	490,200	48.2	247.1	341,800	554,000	110
115	30.8	223.8	342,800	416,000	36.8	232.5	335,300	458,500	44.3	241.9	323,900	515,100	115
120	24.4	213.2	325,200	359,000	31.6	224.4	318,200	428,300	40.0	235.9	307,500	480,700	120
125	15.2	197.2	294,800	294,800	25.4	214.2	302,400	380,100	35.3	228.8	292,400	450,100	125
130					16.9	199.4	287,500	315,500	29.9	220.2	278,300	422,500	130
135									23.2	209.0	265,100	378,700	135
140									13.1	191.2	252,500	307,300	140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180

MLC650 VPC-MAX S-3

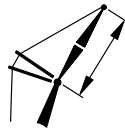
ASME B30.5



881,800 lb



164.0 ft

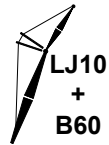


105.0 ft

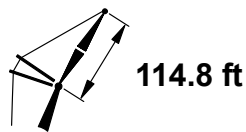
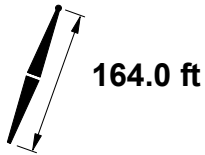
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100	64.4	261.2	360,700	605,200									100
105	61.3	258.3	340,300	571,600									105
110	58.1	255.1	321,800	541,300									110
115	54.7	251.5	304,900	513,900									115
120	51.2	247.4	289,500	489,000									120
125	47.4	242.7	275,200	466,200	57.1	249.6	258,100	452,900					125
130	43.4	237.3	262,100	445,300	53.7	245.8	245,800	432,600					130
135	39.1	231.1	249,900	426,000	50.1	241.5	234,400	413,900					135
140	34.2	223.8	238,600	408,200	46.3	236.7	223,800	396,600					140
145	28.6	214.7	227,900	391,700	42.3	231.1	213,900	380,600	52.4	238.5	199,800	369,700	145
150	21.5	202.7	217,700	376,300	37.8	224.6	204,600	365,600	48.8	234.1	191,100	355,200	150
155	9.4	181.1	207,600	309,400	32.8	216.9	195,800	351,700	44.9	229.0	183,000	341,700	155
160					26.8	207.2	187,500	338,600	40.7	223.1	175,300	329,100	160
165					19.0	193.8	179,500	326,300	36.0	216.2	168,100	317,200	165
170									30.7	207.8	161,200	306,000	170
175									24.3	197.1	154,500	295,500	175
180									15.1	181.0	147,900	285,400	180

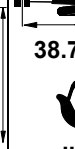
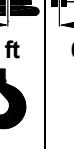
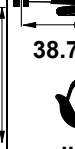
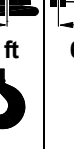
MLC650 VPC-MAX S-3

ASME B30.5



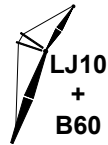
881,800 lb



	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	73.2	282.5	678,600 b	680,200 b									60
65	70.5	280.7	655,700 b	667,600 b									65
70	67.8	278.6	613,200 b	654,700 b	70.9	280.3	599,400 b	674,800 b					70
75	65.0	276.2	565,900	637,700	68.2	278.2	553,100	663,800					75
80	62.2	273.4	524,900	615,400	65.4	275.8	513,000	652,300					80
85	59.3	270.4	489,000	593,800	62.6	273.1	477,800	633,900	67.4	276.1	461,200	664,700	85
90	56.3	266.9	457,300	570,900	59.7	270.1	446,800	612,300	64.6	273.6	431,200	656,100	90
95	53.1	263.1	429,000	536,400	56.7	266.7	419,200	591,500	61.7	270.8	404,500	646,700	95
100	49.8	258.8	403,700	503,800	53.6	263.0	394,400	569,800	58.8	267.7	380,600	619,800	100
105	46.4	253.9	380,800	473,600	50.3	258.7	372,100	529,000	55.8	264.2	359,000	585,400	105
110	42.7	248.4	360,100	446,000	46.9	254.0	351,800	493,200	52.6	260.3	339,400	554,400	110
115	38.6	242.1	341,200	421,400	43.2	248.6	333,400	461,400	49.3	255.9	321,600	518,100	115
120	34.2	234.8	323,900	400,100	39.2	242.4	316,500	433,000	45.8	251.0	305,300	483,600	120
125	29.1	225.9	307,800	367,700	34.9	235.2	300,900	407,400	42.0	245.3	290,300	452,900	125
130	23.0	214.6	292,900	324,200	29.9	226.6	286,400	378,500	38.0	238.9	276,400	425,400	130
135	14.1	197.5	267,400	267,400	23.9	215.7	272,900	341,400	33.4	231.3	263,500	400,600	135
140					15.7	199.9	260,100	286,400	28.2	222.2	251,500	375,600	140
145									21.8	210.3	240,100	338,000	145
150									11.9	191.2	229,100	279,700	150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190

MLC650 VPC-MAX S-3

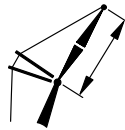
ASME B30.5



881,800 lb



164.0 ft

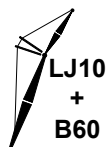


114.8 ft

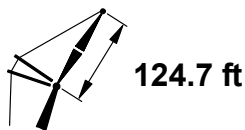
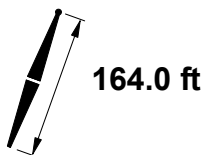
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105	64.0	269.7	337,300	568,500									105
110	61.1	266.8	318,800	538,400									110
115	58.2	263.6	302,100	511,100									115
120	55.1	260.0	286,700	486,300									120
125	51.9	256.0	272,600	463,600									125
130	48.6	251.5	259,500	442,800	57.3	258.1	242,800	429,800					130
135	45.0	246.5	247,500	423,600	54.2	254.4	231,400	411,200					135
140	41.2	240.7	236,200	405,900	51.0	250.3	220,900	394,000					140
145	37.1	234.0	225,800	389,400	47.6	245.6	211,100	378,000					145
150	32.4	226.2	215,900	374,200	44.0	240.4	201,900	363,200	53.1	247.2	188,100	352,500	150
155	27.0	216.6	206,600	359,900	40.1	234.4	193,300	349,300	49.8	242.9	180,000	339,100	155
160	20.2	203.8	197,800	343,100	35.8	227.4	185,200	336,400	46.3	238.0	172,400	326,500	160
165	8.1	180.2	188,800	281,000	31.0	219.2	177,500	324,300	42.6	232.5	165,300	314,800	165
170					25.3	208.9	170,200	312,800	38.6	226.2	158,600	303,700	170
175					17.8	194.7	163,100	302,000	34.1	218.8	152,100	293,300	175
180									29.1	209.9	146,000	283,400	180
185									22.9	198.6	140,100	274,100	185
190									13.9	181.3	134,200	265,100	190

MLC650 VPC-MAX S-3

ASME B30.5



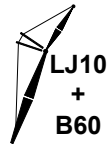
881,800 lb



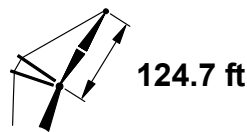
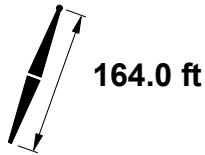
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	74.6	292.9	638,600 b	638,600 b									60
65	72.1	291.2	627,900 b	627,900 b									65
70	69.7	289.3	616,800	616,800	72.5	290.8	617,400 b	633,100 b					70
75	67.2	287.1	593,000	605,400	70.0	288.9	580,100	624,000					75
80	64.6	284.6	550,300	593,900	67.5	286.7	538,200	614,300					80
85	62.0	281.9	512,800	578,800	65.0	284.3	501,500	604,200	69.3	286.8	484,700	622,500	85
90	59.3	278.8	479,800	553,600	62.4	281.6	469,200	593,900	66.8	284.6	453,400	615,800	90
95	56.5	275.5	450,300	522,500	59.7	278.6	440,400	577,800	64.2	282.1	425,500	608,100	95
100	53.7	271.7	424,000	492,500	56.9	275.2	414,600	559,200	61.6	279.3	400,500	599,900	100
105	50.7	267.5	400,200	463,900	54.1	271.5	391,300	532,900	58.9	276.2	378,000	584,700	105
110	47.5	262.9	378,700	437,200	51.1	267.4	370,200	497,000	56.1	272.7	357,600	553,800	110
115	44.2	257.7	359,100	412,700	48.0	262.8	351,000	465,200	53.2	268.9	339,100	521,900	115
120	40.7	251.8	341,100	390,300	44.7	257.7	333,500	436,800	50.2	264.7	322,100	487,300	120
125	36.8	245.1	324,600	370,300	41.2	251.9	317,300	411,200	47.0	259.9	306,500	456,600	125
130	32.6	237.3	309,300	353,100	37.4	245.4	302,400	388,100	43.7	254.6	292,100	429,100	130
135	27.7	227.9	295,100	329,900	33.2	237.7	288,600	367,000	40.1	248.6	278,700	404,400	135
140	21.7	215.9	281,800	297,200	28.4	228.6	275,700	339,400	36.2	241.8	266,300	382,000	140
145	13.0	197.7	244,100	244,100	22.7	217.1	263,600	307,600	31.8	233.7	254,700	361,500	145
150					14.6	200.3	252,000	260,900	26.8	224.0	243,800	337,500	150
155									20.6	211.5	233,500	305,200	155
160									10.9	191.0	223,400	253,300	160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200

MLC650 VPC-MAX S-3

ASME B30.5



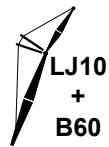
881,800 lb



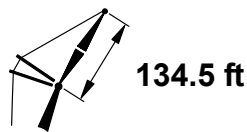
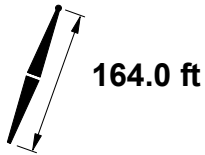
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110	63.7	278.1	336,800	537,700									110
115	61.0	275.3	319,200	510,500									115
120	58.3	272.1	303,200	485,800									120
125	55.5	268.6	288,400	463,100									125
130	52.6	264.7	274,800	442,400									130
135	49.5	260.3	262,300	423,300	57.5	266.6	246,000	410,800					135
140	46.3	255.5	250,600	405,700	54.7	263.0	235,000	393,700					140
145	42.9	250.0	239,700	389,300	51.7	258.9	224,700	377,800					145
150	39.3	243.9	229,500	374,100	48.7	254.5	215,200	363,000					150
155	35.3	236.8	220,000	359,900	45.4	249.5	206,200	349,200	53.6	255.8	192,600	338,900	155
160	30.9	228.5	211,000	346,700	41.9	243.8	197,800	336,300	50.6	251.6	184,700	326,300	160
165	25.7	218.4	202,400	334,200	38.2	237.4	189,900	324,300	47.5	246.9	177,300	314,600	165
170	19.0	204.8	194,200	310,300	34.1	230.1	182,300	313,000	44.2	241.7	170,200	303,600	170
175	6.9	178.9	185,900	253,800	29.5	221.3	175,200	302,300	40.6	235.8	163,600	293,300	175
180					24.0	210.5	168,400	292,200	36.8	229.1	157,300	283,500	180
185					16.7	195.4	161,700	282,600	32.5	221.3	151,300	274,300	185
190									27.6	211.9	145,500	265,500	190
195									21.6	199.9	139,900	257,200	195
200									12.9	181.5	134,400	249,200	200

MLC650 VPC-MAX S-3

ASME B30.5



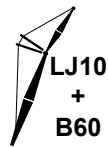
881,800 lb



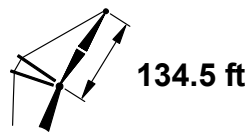
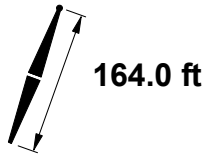
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	73.5	301.6	585,900	585,900									65
70	71.2	299.9	579,500	579,500									70
75	68.9	297.9	569,600	569,600	71.6	299.4	577,500	584,800					75
80	66.6	295.6	547,900	559,500	69.3	297.4	535,600	576,700					80
85	64.2	293.1	510,500	549,400	66.9	295.2	499,000	568,100					85
90	61.8	290.4	477,500	533,200	64.6	292.8	466,700	559,100	68.6	295.4	450,600	575,900	90
95	59.3	287.3	448,100	505,900	62.2	290.1	438,000	550,000	66.2	293.1	422,800	569,800	95
100	56.8	284.0	421,800	478,900	59.7	287.1	412,200	540,800	63.9	290.6	397,900	563,000	100
105	54.1	280.3	398,100	452,700	57.1	283.8	389,000	527,700	61.4	287.8	375,400	555,700	105
110	51.4	276.2	376,600	427,700	54.5	280.1	368,000	497,600	58.9	284.7	355,100	548,100	110
115	48.5	271.7	357,000	404,100	51.8	276.1	348,800	465,700	56.3	281.3	336,500	522,500	115
120	45.5	266.7	339,100	382,200	48.9	271.7	331,300	437,200	53.7	277.5	319,600	487,800	120
125	42.3	261.2	322,700	361,900	45.9	266.7	315,200	411,700	50.9	273.4	304,100	457,100	125
130	38.9	254.9	307,500	343,700	42.8	261.3	300,400	388,600	48.0	268.8	289,700	429,600	130
135	35.2	247.8	293,500	327,500	39.4	255.2	286,700	367,600	45.0	263.7	276,500	404,800	135
140	31.1	239.6	280,400	313,400	35.8	248.2	273,900	348,400	41.8	258.1	264,200	382,400	140
145	26.4	229.7	268,100	295,900	31.7	240.1	262,000	330,500	38.3	251.7	252,700	362,000	145
150	20.6	217.1	256,600	266,900	27.1	230.5	250,800	304,400	34.6	244.5	242,000	343,400	150
155	12.1	197.7	219,500	219,500	21.5	218.4	240,200	276,800	30.4	236.0	231,900	325,900	155
160					13.7	200.6	230,100	234,900	25.6	225.8	222,300	303,200	160
165									19.5	212.5	213,300	275,000	165
170									9.9	190.6	204,300	228,100	170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210

MLC650 VPC-MAX S-3

ASME B30.5



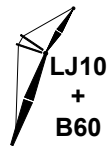
881,800 lb



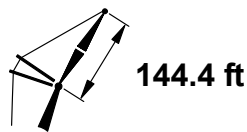
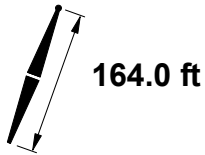
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	63.3	286.6	316,300	507,700									115
120	60.9	283.8	300,300	483,000									120
125	58.4	280.6	285,600	460,500									125
130	55.8	277.1	272,100	439,800									130
135	53.1	273.3	259,600	420,800									135
140	50.3	269.1	248,000	403,200	57.7	275.1	232,000	391,000					140
145	47.4	264.4	237,200	386,900	55.1	271.5	221,800	375,200					145
150	44.3	259.2	227,100	371,800	52.3	267.6	212,300	360,500					150
155	41.1	253.4	217,600	357,700	49.5	263.2	203,400	346,700					155
160	37.6	246.9	208,700	344,500	46.6	258.4	195,100	333,900	54.1	264.4	181,600	323,700	160
165	33.8	239.4	200,400	332,100	43.5	253.1	187,200	321,900	51.3	260.3	174,300	312,100	165
170	29.5	230.7	192,400	320,500	40.1	247.1	179,800	310,700	48.5	255.8	167,300	301,100	170
175	24.4	220.0	184,800	306,500	36.6	240.4	172,800	300,100	45.4	250.8	160,800	290,800	175
180	18.0	205.7	177,500	280,100	32.6	232.6	166,100	290,100	42.3	245.2	154,500	281,100	180
185	5.6	177.1	170,000	227,300	28.2	223.4	159,800	280,600	38.9	239.0	148,600	272,000	185
190					22.8	211.9	153,700	271,600	35.2	231.9	143,000	263,300	190
195					15.7	195.9	147,700	263,100	31.0	223.6	137,600	255,100	195
200									26.3	213.7	132,500	247,200	200
205									20.5	201.0	127,400	239,800	205
210									11.9	181.5	122,300	232,500	210

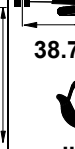
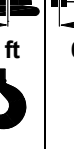
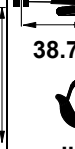
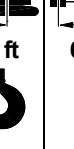
MLC650 VPC-MAX S-3

ASME B30.5



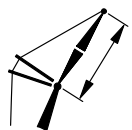
881,800 lb



	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	74.7	312.0	535,200	535,200									65
70	72.6	310.3	535,200	535,200									70
75	70.5	308.5	534,600	534,600	72.9	309.8	533,200	533,200					75
80	68.3	306.4	525,900	525,900	70.8	308.0	533,200	533,200					80
85	66.1	304.1	508,900	517,000	68.6	306.0	497,200	532,700					85
90	63.9	301.6	475,900	508,100	66.4	303.8	464,900	525,000					90
95	61.6	298.8	446,500	488,400	64.2	301.3	436,200	517,100	68.0	303.9	420,900	527,500	95
100	59.3	295.8	420,200	464,700	62.0	298.5	410,500	509,100	65.8	301.6	396,000	526,900	100
105	56.9	292.5	396,500	441,200	59.7	295.5	387,300	501,000	63.6	299.0	373,600	520,900	105
110	54.5	288.8	375,100	418,300	57.3	292.3	366,300	487,300	61.3	296.2	353,300	514,500	110
115	52.0	284.9	355,600	396,200	54.8	288.7	347,200	463,600	58.9	293.1	334,800	507,700	115
120	49.3	280.5	337,700	375,400	52.3	284.7	329,800	438,200	56.6	289.8	317,900	488,900	120
125	46.6	275.7	321,300	355,700	49.7	280.4	313,700	412,600	54.1	286.1	302,400	458,000	125
130	43.7	270.4	306,200	337,500	47.0	275.7	299,000	389,400	51.5	282.0	288,100	430,400	130
135	40.6	264.5	292,200	320,800	44.1	270.5	285,300	368,400	48.9	277.6	274,900	405,600	135
140	37.3	257.9	279,200	305,600	41.1	264.7	272,600	349,200	46.1	272.7	262,600	383,200	140
145	33.8	250.5	267,100	292,200	37.8	258.2	260,800	331,700	43.2	267.4	251,200	362,800	145
150	29.8	241.8	255,800	280,600	34.3	250.9	249,700	314,900	40.1	261.4	240,600	344,100	150
155	25.2	231.5	245,100	267,400	30.4	242.4	239,300	298,400	36.8	254.7	230,600	327,000	155
160	19.6	218.2	235,000	241,400	25.9	232.3	229,600	275,100	33.2	247.0	221,200	310,700	160
165		197.6	198,600	198,600	20.5	219.6	220,300	250,800	29.1	238.1	212,300	295,000	165
170					12.8	200.8	211,200	212,900	24.4	227.4	203,900	274,400	170
175									18.6	213.5	195,900	249,600	175
180									9.0	190.0	187,800	206,600	180
185													185
190													190
195													195
200													200
205													205
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215													215
220													220

MLC650 VPC-MAX S-3

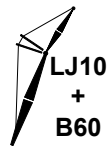
ASME B30.5



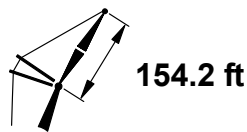
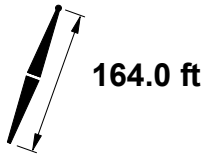
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	63.1	295.1	298,300	480,900									120
125	60.8	292.2	283,700	458,500									125
130	58.5	289.1	270,200	437,900									130
135	56.0	285.6	257,700	418,900									135
140	53.6	281.9	246,200	401,400									140
145	51.0	277.8	235,400	385,100	57.8	283.6	219,800	373,300					145
150	48.3	273.2	225,400	370,100	55.4	280.1	210,400	358,600					150
155	45.5	268.3	216,000	356,000	52.9	276.2	201,500	344,900					155
160	42.6	262.8	207,100	342,800	50.3	272.0	193,200	332,200					160
165	39.4	256.7	198,800	330,500	47.6	267.3	185,400	320,200	54.5	272.9	172,300	310,300	165
170	36.1	249.8	191,000	319,000	44.7	262.2	178,100	309,000	51.9	268.9	165,400	299,400	170
175	32.4	241.9	183,600	308,100	41.7	256.6	171,100	298,400	49.3	264.6	158,800	289,100	175
180	28.2	232.7	176,600	293,100	38.5	250.2	164,600	288,500	46.5	259.8	152,700	279,400	180
185	23.3	221.5	169,800	278,400	35.1	243.1	158,300	279,100	43.6	254.5	146,800	270,300	185
190	17.1	206.5	163,300	254,500	31.3	234.9	152,400	270,200	40.6	248.6	141,300	261,700	190
195	4.1	174.3	156,300	203,900	26.9	225.3	146,700	261,800	37.3	242.0	136,000	253,500	195
200					21.8	213.3	141,100	253,700	33.7	234.5	130,900	245,800	200
205					14.8	196.4	135,700	246,000	29.7	225.8	126,100	238,400	205
210									25.2	215.4	121,400	231,300	210
215									19.5	202.1	116,800	224,600	215
220									11.0	181.3	112,200	218,000	220

MLC650 VPC-MAX S-3

ASME B30.5



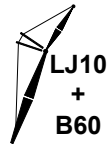
881,800 lb



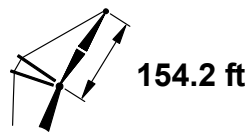
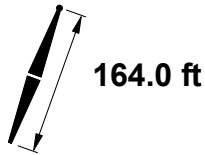
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.7	320.7	491,700	491,700									70
75	71.8	319.0	491,700	491,700									75
80	69.8	317.1	490,700	490,700	72.0	318.5	489,600	489,600					80
85	67.8	315.0	488,300	488,300	70.1	316.6	489,600	489,600					85
90	65.7	312.6	480,800	480,800	68.0	314.6	484,500	489,600					90
95	63.6	310.1	465,100	468,800	66.0	312.3	454,600	488,400	69.5	314.6	438,900	478,200	95
100	61.5	307.3	437,700	448,400	63.9	309.8	427,800	481,400	67.4	312.5	413,000	478,200	100
105	59.3	304.3	413,100	427,600	61.8	307.0	403,700	474,200	65.4	310.1	389,600	478,200	105
110	57.1	301.0	390,800	407,100	59.6	304.0	381,800	466,900	63.3	307.5	368,500	478,200	110
115	54.8	297.4	370,500	387,000	57.4	300.8	361,900	450,000	61.2	304.7	349,200	478,200	115
120	52.5	293.5	351,900	367,500	55.1	297.2	343,800	429,300	59.0	301.6	331,600	473,200	120
125	50.0	289.2	334,900	349,000	52.8	293.3	327,100	408,800	56.7	298.3	315,500	457,500	125
130	47.5	284.6	319,200	331,500	50.4	289.1	311,700	388,800	54.5	294.6	300,600	429,900	130
135	44.8	279.5	304,700	315,100	47.9	284.6	297,500	367,900	52.1	290.7	286,900	405,000	135
140	42.1	273.9	291,200	299,900	45.2	279.5	284,400	348,700	49.6	286.4	274,100	382,600	140
145	39.1	267.7	278,700	286,000	42.5	274.0	272,100	331,200	47.1	281.7	262,300	362,200	145
150	35.9	260.8	266,900	273,400	39.5	267.9	260,600	315,000	44.4	276.5	251,200	343,500	150
155	32.5	253.0	256,000	262,200	36.4	261.1	249,900	299,400	41.6	270.8	240,900	326,500	155
160	28.6	243.9	245,600	252,600	33.0	253.4	239,900	284,700	38.6	264.5	231,100	310,700	160
165	24.2	233.1	235,900	242,000	29.2	244.6	230,400	269,500	35.4	257.5	222,000	295,600	165
170	18.7	219.2	218,300	218,300	24.9	234.0	221,400	249,100	31.9	249.5	213,400	281,200	170
175	10.4	197.4	179,500	179,500	19.6	220.7	212,800	227,500	28.0	240.2	205,200	267,700	175
180					12.0	200.9	192,700	192,700	23.4	229.0	197,400	248,800	180
185									17.7	214.4	189,900	226,600	185
190									8.2	189.3	182,400	186,800	190
195													195
200													200
205													205
210													210
215													215
220													220
230													230

MLC650 VPC-MAX S-3

ASME B30.5



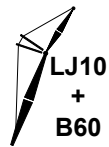
881,800 lb



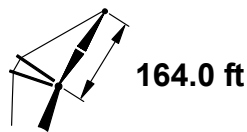
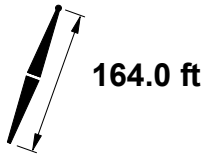
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	65.0	306.2	311,700	447,800									120
125	62.9	303.6	296,400	447,800									125
130	60.7	300.7	282,300	435,300									130
135	58.5	297.6	269,300	416,400									135
140	56.3	294.2	257,300	398,900									140
145	54.0	290.5	246,100	382,700									145
150	51.6	286.4	235,600	367,700	57.9	292.1	220,300	356,000					150
155	49.1	282.0	225,800	353,700	55.6	288.6	211,000	342,400					155
160	46.5	277.2	216,700	340,600	53.3	284.8	202,400	329,700					160
165	43.8	272.0	208,100	328,300	50.9	280.7	194,300	317,800					165
170	41.0	266.2	199,900	316,800	48.4	276.2	186,600	306,600	54.8	281.5	173,600	296,800	170
175	38.0	259.7	192,300	306,000	45.8	271.2	179,400	296,100	52.4	277.6	166,800	286,600	175
180	34.7	252.5	185,000	293,600	43.1	265.8	172,600	286,200	50.0	273.3	160,400	277,000	180
185	31.1	244.3	178,100	279,500	40.2	259.9	166,100	276,900	47.5	268.6	154,300	267,900	185
190	27.1	234.6	171,500	266,100	37.1	253.2	160,000	268,000	44.8	263.6	148,500	259,300	190
195	22.3	222.9	165,200	253,300	33.7	245.7	154,100	259,600	42.0	258.0	143,000	251,200	195
200	16.2	207.2	159,000	231,400	30.1	237.2	148,500	251,700	39.1	251.8	137,800	243,500	200
205					25.9	227.1	143,100	244,100	35.9	244.8	132,800	236,200	205
210					20.8	214.5	137,900	236,900	32.4	237.0	128,000	229,200	210
215					14.0	196.8	132,700	229,900	28.6	227.9	123,400	222,500	215
220									24.1	217.0	119,000	216,100	220
230									10.2	181.1	110,100	204,000	230

MLC650 VPC-MAX S-3

ASME B30.5



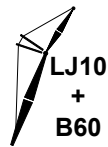
881,800 lb



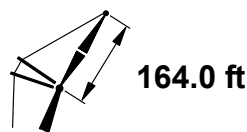
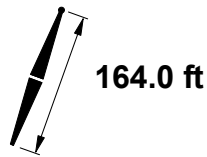
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.7	331.0	449,600	449,600									70
75	72.9	329.4	449,600	449,600									75
80	71.1	327.6	449,400	449,400									80
85	69.2	325.7	448,300	448,300	71.3	327.2	448,100	448,100					85
90	67.3	323.5	446,300	446,300	69.4	325.2	448,100	448,100					90
95	65.3	321.1	443,100	443,100	67.5	323.1	448,100	448,100					95
100	63.4	318.6	430,900	430,900	65.6	320.8	427,200	448,100	68.9	323.2	412,300	437,700	100
105	61.4	315.8	412,600	413,000	63.7	318.2	403,100	447,200	67.0	321.0	388,900	437,700	105
110	59.3	312.8	390,300	394,900	61.7	315.5	381,300	440,700	65.0	318.6	367,800	437,700	110
115	57.3	309.5	370,000	376,900	59.6	312.5	361,400	434,300	63.1	316.0	348,600	437,700	115
120	55.1	305.9	351,500	359,100	57.6	309.2	343,300	416,600	61.1	313.2	331,000	437,700	120
125	52.9	302.1	334,500	341,900	55.4	305.7	326,600	398,500	59.0	310.1	314,900	437,700	125
130	50.6	297.9	318,800	325,300	53.2	301.9	311,300	380,400	56.9	306.8	300,000	431,400	130
135	48.3	293.4	304,400	309,600	51.0	297.8	297,100	362,700	54.8	303.2	286,300	406,400	135
140	45.8	288.5	290,900	294,700	48.6	293.4	284,000	345,400	52.6	299.3	273,600	383,900	140
145	43.3	283.1	278,400	280,900	46.2	288.5	271,800	328,900	50.3	295.1	261,800	363,400	145
150	40.6	277.3	266,800	268,000	43.7	283.2	260,400	313,300	47.9	290.5	250,800	344,800	150
155	37.7	270.8	255,900	256,200	41.0	277.4	249,700	298,600	45.4	285.5	240,500	327,700	155
160	34.7	263.5	245,500	245,500	38.1	271.0	239,700	284,900	42.9	280.1	230,800	311,900	160
165	31.3	255.4	236,000	236,000	35.1	263.9	230,300	272,300	40.1	274.1	221,700	297,400	165
170	27.6	245.9	226,900	227,900	31.8	255.9	221,400	260,400	37.3	267.5	213,100	283,200	170
175	23.3	234.6	218,200	221,500	28.1	246.6	213,000	246,200	34.1	260.2	205,000	269,900	175
180	17.9	220.1	199,800	199,800	23.9	235.6	205,000	228,000	30.7	251.8	197,400	257,400	180
185	9.7	197.0	164,100	164,100	18.8	221.7	197,300	208,700	26.9	242.1	190,100	245,600	185
190					11.2	200.8	176,500	176,500	22.5	230.4	183,100	228,000	190
195									16.9	215.1	176,300	208,100	195
200									7.3	188.3	169,500	170,800	200
205													205
210													210
215													215
220													220
230													230
240													240

MLC650 VPC-MAX S-3

ASME B30.5



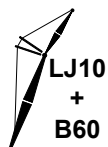
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	64.6	314.7	295,600	409,700									125
130	62.7	312.0	281,500	409,700									130
135	60.6	309.2	268,500	409,700									135
140	58.6	306.1	256,500	397,900									140
145	56.5	302.7	245,300	381,800									145
150	54.3	299.0	234,900	366,800									150
155	52.1	295.1	225,200	352,800	58.0	300.6	210,200	341,500					155
160	49.8	290.8	216,100	339,700	55.9	297.1	201,600	328,800					160
165	47.4	286.1	207,500	327,500	53.7	293.4	193,500	316,900					165
170	44.9	281.1	199,400	316,000	51.5	289.3	185,900	305,800					170
175	42.3	275.5	191,800	305,200	49.1	284.9	178,700	295,300					175
180	39.6	269.4	184,600	294,800	46.7	280.2	171,900	285,400	52.9	286.2	159,600	276,100	180
185	36.6	262.7	177,800	281,400	44.2	275.0	165,500	276,100	50.6	282.0	153,500	267,100	185
190	33.5	255.1	171,300	268,300	41.6	269.3	159,400	267,300	48.3	277.5	147,800	258,500	190
195	30.0	246.5	165,100	256,000	38.8	263.0	153,600	259,000	45.8	272.6	142,300	250,400	195
200	26.1	236.5	159,100	244,300	35.8	256.1	148,100	251,000	43.2	267.2	137,100	242,700	200
205	21.4	224.2	153,400	233,000	32.5	248.3	142,800	243,500	40.5	261.3	132,200	235,400	205
210	15.4	207.8	147,800	212,800	28.9	239.3	137,700	236,400	37.7	254.8	127,500	228,500	210
215					24.9	228.8	132,800	229,500	34.6	247.6	122,900	221,900	215
220					20.0	215.6	128,100	223,000	31.3	239.4	118,600	215,600	220
230									23.2	218.6	110,300	203,700	230
240									9.5	180.7	102,200	192,700	240

MLC650 VPC-MAX S-3

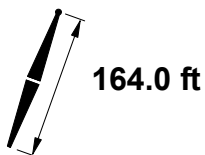
ASME B30.5



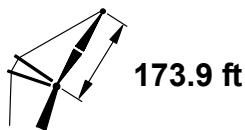
881,800 lb



360°



164.0 ft

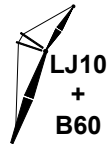


173.9 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	73.9	339.8	414,000	414,000									75
80	72.2	338.1	414,000	414,000									80
85	70.4	336.3	413,200	413,200	72.4	337.6	410,700	410,700					85
90	68.6	334.2	412,200	412,200	70.7	335.8	410,700	410,700					90
95	66.8	332.0	410,600	410,600	68.9	333.8	410,700	410,700					95
100	65.0	329.7	407,700	407,700	67.1	331.6	410,700	410,700					100
105	63.2	327.1	397,000	397,000	65.3	329.3	400,700	410,700	68.4	331.7	386,200	403,400	105
110	61.3	324.3	381,300	381,300	63.4	326.7	378,900	410,700	66.6	329.5	365,100	403,400	110
115	59.4	321.2	365,400	365,400	61.5	324.0	359,000	410,700	64.7	327.1	345,900	403,400	115
120	57.4	318.0	349,300	349,600	59.6	321.0	340,900	402,300	62.9	324.5	328,400	403,400	120
125	55.4	314.5	332,300	333,900	57.7	317.7	324,300	386,700	61.0	321.6	312,300	403,400	125
130	53.3	310.7	316,700	318,700	55.7	314.3	309,000	370,700	59.0	318.6	297,500	403,400	130
135	51.2	306.6	302,200	304,000	53.6	310.5	294,800	354,700	57.1	315.3	283,800	403,400	135
140	49.0	302.2	288,800	289,800	51.5	306.5	281,700	339,100	55.0	311.7	271,200	382,800	140
145	46.7	297.4	276,400	276,500	49.3	302.1	269,500	323,700	53.0	307.9	259,400	362,300	145
150	44.3	292.3	263,900	263,900	47.0	297.4	258,200	309,000	50.8	303.8	248,400	343,600	150
155	41.9	286.6	252,100	252,100	44.7	292.3	247,500	294,800	48.6	299.3	238,100	326,500	155
160	39.3	280.5	241,200	241,200	42.2	286.8	237,600	281,400	46.3	294.5	228,500	310,800	160
165	36.5	273.7	231,200	231,200	39.6	280.7	228,200	268,900	44.0	289.3	219,400	296,200	165
170	33.5	266.2	222,200	222,200	36.9	274.0	219,400	257,300	41.5	283.5	210,900	282,700	170
175	30.2	257.6	214,200	214,200	33.9	266.6	211,100	246,600	38.8	277.3	202,900	269,600	175
180	26.6	247.8	207,400	207,400	30.7	258.2	203,200	237,000	36.0	270.4	195,300	257,300	180
185	22.4	236.0	200,700	201,800	27.1	248.6	195,700	224,100	33.0	262.7	188,000	245,700	185
190	17.1	220.9	181,600	181,600	23.0	237.1	188,500	207,800	29.7	254.0	181,200	234,800	190
195	8.9	196.5	148,600	148,600	18.0	222.7	181,600	190,300	26.0	243.9	174,600	224,400	195
200					10.5	200.6	160,200	160,200	21.6	231.8	168,300	208,000	200
205									16.1	215.8	162,200	189,900	205
210									6.5	187.1	154,600	154,600	210
215													215
220													220
230													230
240													240
250													250

MLC650 VPC-MAX S-3

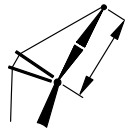
ASME B30.5



881,800 lb



164.0 ft

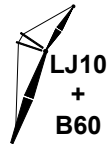


173.9 ft

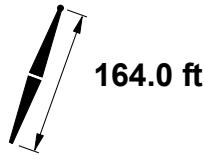
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	64.3	323.2	278,700	375,500									130
135	62.5	320.5	265,700	375,500									135
140	60.6	317.6	253,700	375,500									140
145	58.6	314.5	242,600	375,500									145
150	56.7	311.2	232,200	364,400									150
155	54.6	307.6	222,500	350,400									155
160	52.5	303.7	213,400	337,400	58.1	309.0	198,700	326,300					160
165	50.4	299.5	204,900	325,200	56.1	305.6	190,600	314,500					165
170	48.2	295.0	196,900	313,800	54.0	301.9	183,000	303,400					170
175	45.9	290.1	189,300	303,100	51.9	298.0	175,900	292,900					175
180	43.4	284.7	182,100	292,900	49.8	293.7	169,200	283,100					180
185	40.9	278.9	175,300	280,400	47.5	289.1	162,800	273,800	53.3	294.8	150,500	264,600	185
190	38.3	272.5	168,900	267,900	45.2	284.0	156,700	265,100	51.2	290.7	144,800	256,100	190
195	35.4	265.5	162,800	255,800	42.8	278.6	151,000	256,800	49.0	286.3	139,400	248,100	195
200	32.3	257.6	156,900	244,400	40.2	272.6	145,500	248,900	46.7	281.5	134,300	240,400	200
205	29.0	248.7	151,300	233,600	37.5	266.1	140,300	241,400	44.3	276.3	129,400	233,100	205
210	25.1	238.2	146,000	223,300	34.6	258.8	135,300	234,300	41.8	270.7	124,700	226,200	210
215	20.6	225.5	140,800	212,900	31.4	250.7	130,500	227,500	39.2	264.5	120,300	219,700	215
220	14.7	208.3	135,700	194,500	27.9	241.4	125,900	221,000	36.4	257.7	116,000	213,400	220
230					19.2	216.7	117,100	208,800	30.2	241.6	107,900	201,600	230
240									22.3	220.0	100,300	190,800	240
250									8.8	180.1	92,800	180,700	250

MLC650 VPC-MAX S-3

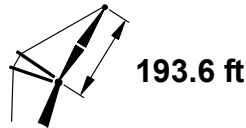
ASME B30.5



881,800 lb



164.0 ft

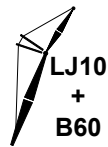


193.6 ft

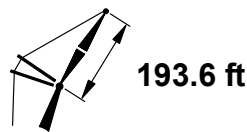
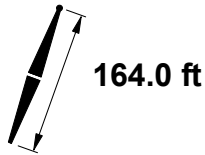
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	74.1	358.8	349,900	349,900									80
85	72.5	357.2	349,700	349,700									85
90	70.9	355.4	349,200	349,200	72.7	356.7	346,000	346,000					90
95	69.3	353.5	348,400	348,400	71.1	354.9	346,000	346,000					95
100	67.7	351.4	347,400	347,400	69.6	353.0	346,000	346,000					100
105	66.1	349.1	346,200	346,200	68.0	351.0	346,000	346,000					105
110	64.5	346.7	344,600	344,600	66.3	348.7	346,000	346,000	69.1	351.0	337,400	337,400	110
115	62.8	344.0	339,700	339,700	64.7	346.3	346,000	346,000	67.5	348.9	337,400	337,400	115
120	61.1	341.2	327,600	327,600	63.0	343.7	337,900	346,000	65.8	346.6	325,000	337,400	120
125	59.4	338.2	315,400	315,400	61.3	340.9	321,300	345,800	64.2	344.1	309,000	337,400	125
130	57.6	335.0	303,100	303,100	59.6	337.9	306,000	344,900	62.5	341.4	294,200	337,400	130
135	55.8	331.5	290,800	290,800	57.9	334.7	291,900	335,000	60.8	338.6	280,600	337,400	135
140	54.0	327.8	278,800	278,800	56.1	331.3	278,800	322,700	59.1	335.5	267,900	337,400	140
145	52.1	323.9	267,100	267,100	54.2	327.7	266,700	310,300	57.3	332.3	256,200	337,400	145
150	50.1	319.7	255,700	255,700	52.3	323.7	255,400	298,000	55.5	328.8	245,300	333,700	150
155	48.1	315.1	244,800	244,800	50.4	319.6	244,800	285,800	53.7	325.1	235,000	324,500	155
160	46.1	310.3	234,400	234,400	48.4	315.1	234,900	273,900	51.8	321.1	225,400	310,100	160
165	43.9	305.0	224,600	224,600	46.4	310.3	225,600	262,400	49.8	316.8	216,500	295,500	165
170	41.7	299.4	215,300	215,300	44.2	305.1	216,800	251,300	47.8	312.2	208,000	282,000	170
175	39.4	293.3	206,600	206,600	42.0	299.5	208,600	240,800	45.7	307.3	200,000	269,500	175
180	36.9	286.6	198,600	198,600	39.7	293.4	200,800	230,900	43.6	302.0	192,500	257,700	180
185	34.3	279.2	191,200	191,200	37.3	286.8	193,400	221,500	41.3	296.3	185,400	246,300	185
190	31.4	271.1	184,600	184,600	34.7	279.6	186,400	212,800	39.0	290.1	178,600	235,600	190
195	28.4	261.9	178,700	178,700	31.9	271.6	179,700	204,900	36.5	283.3	172,200	225,600	195
200	24.9	251.3	173,800	173,800	28.8	262.6	173,300	197,700	33.8	275.8	166,100	216,100	200
205	20.9	238.7	169,700	169,700	25.4	252.2	167,200	188,300	31.0	267.6	160,200	207,000	205
210	15.8	222.3	152,100	152,100	21.5	239.9	161,400	174,900	27.8	258.2	154,600	198,400	210
215	7.6	195.0	123,300	123,300	16.6	224.3	155,700	160,400	24.3	247.3	149,200	189,000	215
220					9.3	200.0	133,800	133,800	20.1	234.2	144,100	175,500	220
230									4.8	183.5	127,600	127,600	230
240													240
250													250
260													260
270													270

MLC650 VPC-MAX S-3

ASME B30.5



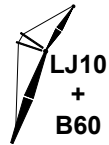
881,800 lb



	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	63.8	340.2	250,000	314,900									140
145	62.2	337.5	239,000	314,900									145
150	60.5	334.6	228,600	314,900									150
155	58.7	331.5	219,000	314,900									155
160	56.9	328.2	209,900	314,900									160
165	55.1	324.7	201,500	314,900	60.0	329.2	186,800	286,700					165
170	53.3	320.9	193,500	310,700	58.2	326.0	179,300	286,700					170
175	51.4	316.8	186,000	300,000	56.4	322.7	172,200	286,700					175
180	49.4	312.5	178,900	289,900	54.6	319.1	165,500	279,900					180
185	47.4	307.8	172,100	279,600	52.8	315.2	159,200	270,600					185
190	45.3	302.9	165,800	267,300	50.8	311.1	153,200	261,900					190
195	43.1	297.5	159,700	255,800	48.9	306.7	147,500	253,700	53.9	311.9	135,600	244,700	195
200	40.9	291.7	154,000	244,800	46.8	301.9	142,100	245,800	52.1	308.0	130,500	237,200	200
205	38.5	285.3	148,500	234,300	44.7	296.8	136,900	238,400	50.1	303.7	125,700	229,900	205
210	36.0	278.4	143,300	224,400	42.5	291.3	132,000	231,400	48.1	299.2	121,100	223,100	210
215	33.3	270.8	138,300	215,000	40.2	285.4	127,300	224,600	46.1	294.3	116,700	216,600	215
220	30.3	262.3	133,500	206,100	37.8	278.9	122,900	218,200	43.9	289.1	112,500	210,400	220
230	23.5	241.4	124,400	189,300	32.5	264.0	114,400	206,200	39.3	277.3	104,600	198,700	230
240	13.4	209.0	115,800	164,700	26.2	245.2	106,600	195,200	34.2	263.3	97,300	188,100	240
250					17.8	218.6	99,200	179,900	28.3	245.9	90,500	178,300	250
260									20.8	222.6	84,100	169,200	260
270									7.4	178.5	77,600	160,600	270

MLC650 VPC-MAX S-3

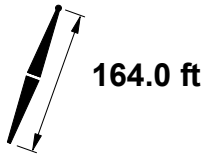
ASME B30.5



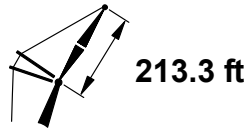
881,800 lb



360°



164.0 ft

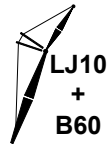


213.3 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	74.2	377.9	297,600	297,600									85
90	72.8	376.3	297,400	297,400									90
95	71.3	374.5	297,000	297,000	73.0	375.8	294,000	294,000					95
100	69.9	372.7	296,400	296,400	71.5	374.1	294,000	294,000					100
105	68.5	370.6	295,500	295,500	70.1	372.2	294,000	294,000					105
110	67.0	368.5	294,400	294,400	68.7	370.2	294,000	294,000					110
115	65.5	366.1	293,200	293,200	67.2	368.1	294,000	294,000	69.7	370.2	285,500	285,500	115
120	64.0	363.6	291,700	291,700	65.7	365.8	294,000	294,000	68.2	368.1	285,500	285,500	120
125	62.5	361.0	290,200	290,200	64.2	363.3	294,000	294,000	66.8	365.9	285,500	285,500	125
130	60.9	358.2	281,400	281,400	62.7	360.7	293,400	293,400	65.3	363.6	285,500	285,500	130
135	59.4	355.2	271,900	271,900	61.2	357.9	288,900	292,600	63.8	361.1	277,300	285,500	135
140	57.8	352.0	262,300	262,300	59.6	354.9	275,800	291,700	62.2	358.4	264,700	285,500	140
145	56.2	348.6	252,800	252,800	58.0	351.7	263,700	289,400	60.7	355.5	253,000	285,500	145
150	54.5	344.9	243,300	243,300	56.4	348.3	252,400	280,000	59.1	352.5	242,000	285,500	150
155	52.8	341.1	234,000	234,000	54.7	344.7	241,900	270,400	57.5	349.3	231,900	285,500	155
160	51.1	337.0	225,000	225,000	53.0	340.9	232,000	260,800	55.9	345.8	222,300	285,500	160
165	49.3	332.7	216,200	216,200	51.3	336.9	222,700	251,200	54.2	342.2	213,400	285,500	165
170	47.5	328.0	207,700	207,700	49.5	332.6	214,000	241,800	52.5	338.3	204,900	280,200	170
175	45.6	323.1	199,700	199,700	47.7	328.0	205,800	232,500	50.8	334.2	197,000	267,700	175
180	43.6	317.8	191,900	191,900	45.8	323.1	198,000	223,600	49.0	329.8	189,500	256,000	180
185	41.6	312.1	184,600	184,600	43.9	317.8	190,700	214,900	47.2	325.1	182,400	245,200	185
190	39.5	306.0	177,700	177,700	41.9	312.2	183,700	206,700	45.3	320.1	175,700	234,800	190
195	37.2	299.4	171,300	171,300	39.8	306.2	177,100	198,800	43.3	314.8	169,300	224,900	195
200	34.9	292.2	165,300	165,300	37.6	299.7	170,900	191,300	41.3	309.0	163,300	215,600	200
205	32.4	284.4	159,800	159,800	35.2	292.6	164,900	184,400	39.1	302.9	157,500	206,700	205
210	29.7	275.7	154,900	154,900	32.7	284.8	159,200	177,800	36.9	296.2	152,000	198,400	210
215	26.7	265.9	150,500	150,500	30.1	276.2	153,700	171,900	34.5	288.9	146,700	190,400	215
220	23.4	254.6	146,900	146,900	27.2	266.6	148,400	166,600	32.0	280.9	141,700	182,900	220
230	14.6	223.5	127,300	127,300	20.1	242.4	138,500	147,800	26.2	262.0	132,200	168,600	230
240					8.1	198.8	111,200	111,200	18.8	236.4	123,400	148,500	240
250									2.3	175.7	102,300	102,300	250
260													260
270													270
280													280
290													290

MLC650 VPC-MAX S-3

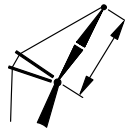
ASME B30.5



881,800 lb



164.0 ft

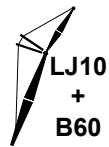


213.3 ft

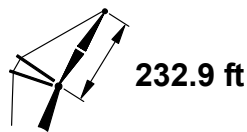
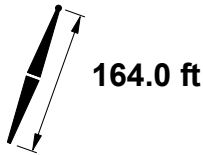
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	65.0	359.7	235,300	266,000									145
150	63.4	357.2	225,000	266,000									150
155	61.9	354.4	215,400	266,000									155
160	60.4	351.5	206,400	266,000									160
165	58.8	348.5	197,900	266,000									165
170	57.2	345.2	190,000	266,000									170
175	55.5	341.7	182,500	266,000	59.9	346.1	168,400	245,900					175
180	53.9	338.0	175,500	266,000	58.3	343.0	161,700	245,900					180
185	52.2	334.1	168,800	266,000	56.7	339.7	155,500	245,900					185
190	50.4	329.9	162,500	265,300	55.1	336.1	149,500	245,900					190
195	48.6	325.5	156,500	253,900	53.4	332.4	143,900	245,900					195
200	46.8	320.7	150,800	243,200	51.7	328.4	138,500	242,800					200
205	44.9	315.6	145,400	233,100	49.9	324.1	133,400	235,400	54.5	329.0	121,800	226,700	205
210	42.9	310.2	140,200	223,600	48.1	319.6	128,600	228,400	52.8	325.2	117,300	219,900	210
215	40.8	304.4	135,200	214,400	46.2	314.8	123,900	221,700	51.0	321.1	112,900	213,400	215
220	38.7	298.1	130,500	205,700	44.3	309.6	119,500	215,300	49.3	316.7	108,800	207,300	220
230	34.0	283.9	121,700	189,600	40.2	298.1	111,200	203,400	45.5	307.1	101,000	195,700	230
240	28.6	266.7	113,500	174,900	35.7	284.7	103,600	192,500	41.6	296.2	93,800	185,200	240
250	22.1	244.4	105,800	161,300	30.7	268.7	96,500	180,700	37.2	283.5	87,200	175,500	250
260	12.3	209.5	98,400	139,600	24.6	248.7	89,800	166,800	32.4	268.4	81,000	166,500	260
270					16.5	220.3	83,500	153,600	26.7	249.8	75,300	158,200	270
280									19.5	225.0	69,700	150,400	280
290									6.1	176.1	64,100	140,900	290

MLC650 VPC-MAX S-3

ASME B30.5



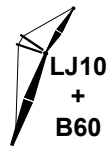
881,800 lb



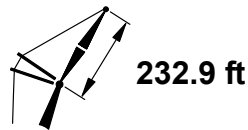
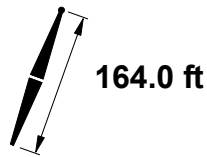
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	74.3	396.9	251,900	251,900									90
95	73.0	395.3	251,600	251,600									95
100	71.7	393.6	251,100	251,100									100
105	70.4	391.8	250,400	250,400	71.9	393.2	248,300	248,300					105
110	69.0	389.9	249,700	249,700	70.5	391.4	248,300	248,300					110
115	67.7	387.8	248,800	248,800	69.2	389.4	248,200	248,200					115
120	66.4	385.5	247,800	247,800	67.9	387.4	247,900	247,900					120
125	65.0	383.2	246,700	246,700	66.6	385.1	247,500	247,500	68.8	387.4	240,300	240,300	125
130	63.6	380.6	245,500	245,500	65.2	382.8	247,000	247,000	67.5	385.3	240,300	240,300	130
135	62.2	378.0	244,300	244,300	63.8	380.3	246,400	246,400	66.1	383.0	240,300	240,300	135
140	60.8	375.1	243,000	243,000	62.4	377.6	245,800	245,800	64.8	380.6	240,300	240,300	140
145	59.4	372.1	237,700	237,700	61.0	374.8	245,000	245,000	63.4	378.1	240,300	240,300	145
150	57.9	368.9	230,300	230,300	59.6	371.8	244,200	244,200	62.0	375.4	239,800	240,300	150
155	56.4	365.6	222,800	222,800	58.1	368.7	239,900	243,300	60.6	372.5	229,700	240,300	155
160	54.9	362.0	215,300	215,300	56.7	365.3	230,000	242,400	59.2	369.5	220,100	240,300	160
165	53.4	358.3	207,900	207,900	55.1	361.8	220,800	238,600	57.7	366.3	211,200	240,300	165
170	51.8	354.3	200,700	200,700	53.6	358.1	212,100	231,100	56.2	362.9	202,800	240,300	170
175	50.2	350.1	193,600	193,600	52.0	354.1	203,900	223,700	54.7	359.3	194,900	240,300	175
180	48.6	345.6	186,600	186,600	50.4	350.0	196,200	216,200	53.1	355.5	187,400	240,300	180
185	46.9	340.9	179,900	179,900	48.8	345.6	188,900	208,800	51.6	351.5	180,400	239,900	185
190	45.1	335.9	173,500	173,500	47.1	340.9	181,900	201,500	50.0	347.2	173,700	232,600	190
195	43.3	330.6	167,300	167,300	45.4	335.9	175,400	194,400	48.3	342.7	167,400	224,700	195
200	41.5	324.9	161,300	161,300	43.6	330.6	169,100	187,500	46.6	338.0	161,400	215,800	200
205	39.5	318.8	155,700	155,700	41.7	325.0	163,200	180,800	44.9	332.9	155,600	207,000	205
210	37.5	312.3	150,400	150,400	39.8	319.0	157,500	174,400	43.0	327.5	150,200	198,700	210
215	35.4	305.2	145,500	145,500	37.8	312.5	152,100	168,300	41.2	321.8	145,000	190,900	215
220	33.1	297.6	140,800	140,800	35.7	305.5	147,000	162,600	39.2	315.6	140,000	183,500	220
230	28.2	279.9	132,800	132,800	31.1	289.7	137,300	152,100	35.0	301.9	130,600	169,600	230
240	22.1	257.5	126,600	126,600	25.7	270.3	128,300	143,300	30.4	285.6	122,000	156,900	240
250	13.6	224.3	107,800	107,800	18.9	244.6	119,900	126,300	24.8	265.6	114,100	145,200	250
260					7.0	197.0	93,200	93,200	17.7	238.3	106,500	127,200	260
270													270
280													280
290													290
300													300
310													310

MLC650 VPC-MAX S-3

ASME B30.5



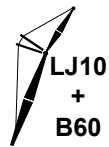
881,800 lb



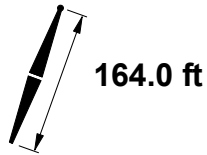
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155	64.5	376.7	212,800	222,800									155
160	63.1	374.1	203,900	222,800									160
165	61.7	371.4	195,500	222,800									165
170	60.3	368.5	187,600	222,800									170
175	58.8	365.4	180,100	222,800									175
180	57.4	362.2	173,100	222,800									180
185	55.9	358.8	166,500	222,800	59.9	363.1	152,800	204,700					185
190	54.4	355.1	160,200	222,800	58.4	360.0	146,900	204,700					190
195	52.8	351.3	154,200	222,800	57.0	356.7	141,300	204,700					195
200	51.2	347.2	148,500	222,800	55.5	353.2	136,000	204,700					200
205	49.6	342.9	143,100	222,800	53.9	349.5	130,900	204,700					205
210	48.0	338.4	138,000	222,800	52.4	345.6	126,100	204,700					210
215	46.2	333.6	133,100	214,200	50.8	341.5	121,500	204,700	54.9	346.1	110,200	188,700	215
220	44.5	328.4	128,400	205,900	49.2	337.1	117,100	204,700	53.4	342.3	106,100	188,700	220
230	40.8	317.1	119,700	190,000	45.8	327.6	108,900	201,300	50.2	334.2	98,400	188,700	230
240	36.8	304.2	111,600	175,600	42.1	316.8	101,300	190,500	46.9	325.0	91,300	183,000	240
250	32.3	289.0	104,200	162,500	38.2	304.5	94,400	180,600	43.3	314.6	84,800	173,400	250
260	27.1	270.7	97,200	150,500	34.0	290.2	87,900	167,700	39.5	302.8	78,800	164,500	260
270	20.8	247.0	90,700	139,100	29.1	273.2	81,900	155,300	35.4	289.2	73,100	156,300	270
280	11.3	209.6	84,300	119,700	23.3	251.9	76,100	143,800	30.7	273.2	67,900	148,600	280
290					15.5	221.6	70,600	132,700	25.3	253.5	62,900	141,500	290
300									18.3	227.0	58,100	134,800	300
310									4.6	172.5	53,000	120,700	310

MLC650 VPC-MAX S-3

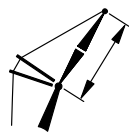
ASME B30.5



881,800 lb



164.0 ft

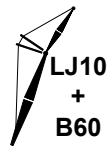


252.6 ft

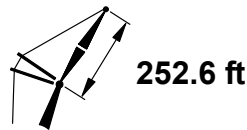
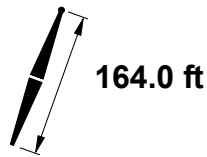
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95	74.3	416.0	215,000	215,000									95
100	73.2	414.4	214,700	214,700									100
105	72.0	412.7	214,100	214,100									105
110	70.8	411.0	213,400	213,400	72.1	412.3	211,600	211,600					110
115	69.5	409.0	212,600	212,600	70.9	410.5	211,400	211,400					115
120	68.3	407.0	211,800	211,800	69.7	408.6	211,100	211,100					120
125	67.1	404.9	210,900	210,900	68.5	406.6	210,700	210,700					125
130	65.8	402.6	209,900	209,900	67.3	404.5	210,300	210,300	69.3	406.6	204,100	204,100	130
135	64.6	400.2	208,900	208,900	66.0	402.2	209,700	209,700	68.1	404.5	204,100	204,100	135
140	63.3	397.6	207,800	207,800	64.8	399.8	209,100	209,100	66.9	402.4	204,100	204,100	140
145	62.0	394.9	206,600	206,600	63.5	397.3	208,500	208,500	65.6	400.1	204,100	204,100	145
150	60.7	392.1	205,500	205,500	62.2	394.6	207,800	207,800	64.4	397.6	204,100	204,100	150
155	59.4	389.1	204,300	204,300	60.9	391.8	207,000	207,000	63.1	395.0	204,100	204,100	155
160	58.0	385.9	200,300	200,300	59.6	388.8	206,200	206,200	61.8	392.3	204,100	204,100	160
165	56.7	382.6	194,400	194,400	58.2	385.7	205,300	205,300	60.5	389.4	204,100	204,100	165
170	55.3	379.1	188,600	188,600	56.9	382.3	204,500	204,500	59.2	386.4	199,300	204,100	170
175	53.9	375.4	182,700	182,700	55.5	378.9	200,600	203,600	57.8	383.2	191,400	204,000	175
180	52.5	371.5	176,800	176,800	54.1	375.2	192,900	202,400	56.5	379.9	184,000	203,700	180
185	51.0	367.4	171,100	171,100	52.7	371.4	185,600	196,600	55.1	376.4	176,900	203,300	185
190	49.5	363.1	165,500	165,500	51.2	367.3	178,700	190,700	53.7	372.6	170,300	202,900	190
195	48.0	358.6	160,000	160,000	49.7	363.0	172,200	184,800	52.2	368.7	164,000	202,500	195
200	46.4	353.8	154,700	154,700	48.2	358.5	166,000	179,000	50.8	364.6	158,000	202,100	200
205	44.8	348.7	149,600	149,600	46.6	353.7	160,100	173,200	49.3	360.2	152,300	201,600	205
210	43.1	343.3	144,600	144,600	45.0	348.7	154,400	167,600	47.7	355.7	146,900	196,700	210
215	41.4	337.6	139,800	139,800	43.3	343.4	149,100	162,100	46.1	350.8	141,700	189,100	215
220	39.6	331.5	135,300	135,300	41.6	337.7	143,900	156,800	44.5	345.7	136,700	181,700	220
230	35.8	318.1	127,000	127,000	38.0	325.3	134,300	146,700	41.1	334.5	127,500	168,000	230
240	31.6	302.6	119,500	119,500	34.1	311.0	125,500	137,600	37.4	321.8	119,000	155,600	240
250	26.8	283.9	113,400	113,400	29.6	294.3	117,400	129,500	33.4	307.3	111,100	144,300	250
260	21.0	260.2	108,800	108,800	24.5	273.8	109,800	122,700	28.9	290.1	103,800	133,700	260
270	12.7	224.9	89,600	89,600	17.9	246.6	102,600	106,600	23.6	268.9	97,000	123,900	270
280					5.9	194.5	76,100	76,100	16.7	240.0	90,500	107,600	280
290													290
300													300
310													310
320													320
330													330

MLC650 VPC-MAX S-3

ASME B30.5



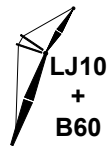
881,800 lb



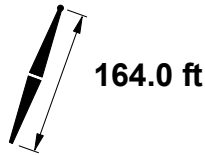
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165	64.1	393.7	189,400	189,400									165
170	62.8	391.1	183,700	189,400									170
175	61.5	388.4	176,300	189,400									175
180	60.2	385.5	169,300	189,400									180
185	58.9	382.4	162,700	189,400									185
190	57.5	379.2	156,400	189,400									190
195	56.2	375.8	150,500	189,400	59.9	380.0	137,300	173,500					195
200	54.8	372.2	144,900	189,400	58.5	376.9	132,000	173,500					200
205	53.4	368.5	139,500	189,400	57.2	373.7	127,000	173,500					205
210	51.9	364.5	134,400	189,400	55.8	370.2	122,200	173,500					210
215	50.4	360.3	129,500	189,400	54.4	366.6	117,600	173,500					215
220	48.9	355.9	124,900	189,400	53.0	362.8	113,300	173,500					220
230	45.8	346.4	116,200	188,000	50.0	354.5	105,100	173,500	53.9	359.5	94,400	161,500	230
240	42.5	335.7	108,200	173,900	47.0	345.4	97,700	173,500	51.0	351.5	87,400	161,500	240
250	38.9	323.7	100,900	161,000	43.7	335.1	90,800	173,500	47.9	342.6	80,900	161,500	250
260	35.1	309.9	94,000	149,300	40.2	323.6	84,400	166,000	44.8	332.7	75,000	161,400	260
270	30.8	293.9	87,700	138,400	36.5	310.5	78,400	153,900	41.4	321.7	69,400	153,300	270
280	25.8	274.5	81,700	128,400	32.4	295.4	72,900	142,800	37.7	309.1	64,300	145,700	280
290	19.7	249.4	76,100	118,800	27.7	277.4	67,700	132,500	33.7	294.7	59,400	138,600	290
300	10.4	209.4	70,500	101,200	22.1	254.8	62,700	122,800	29.3	277.7	54,800	132,000	300
310					14.5	222.7	57,900	113,400	24.0	256.9	50,500	125,800	310
320									17.3	228.9	46,300	116,900	320
330									2.8	166.1	41,700	101,100	330

MLC650 VPC-MAX S-3

ASME B30.5



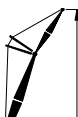
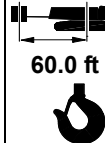
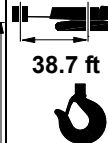
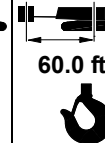
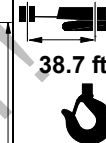
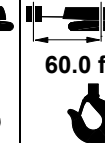
881,800 lb



164.0 ft

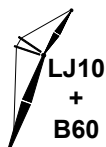


272.3 ft

 85°					 83°					 80°						
 ft	 °	 ft	 lb	 lb		 °	 ft	 lb	 lb		 °	 ft	 lb	 lb	 ft	
100	74.4	435.0	183,100	183,100												100
105	73.3	433.5	182,700	182,700												105
110	72.2	431.8	182,100	182,100												110
115	71.1	430.1	181,500	181,500												115
120	70.0	428.2	180,700	180,700												120
125	68.8	426.2	180,000	180,000												125
130	67.7	424.2	179,100	179,100												130
135	66.5	422.0	178,300	178,300												135
140	65.4	419.6	177,400	177,400												140
145	64.2	417.2	176,400	176,400												145
150	63.0	414.6	175,500	175,500												150
155	61.8	411.9	174,500	174,500												155
160	60.6	409.0	173,500	173,500												160
165	59.4	406.0	172,500	172,500												165
170	58.2	402.9	171,400	171,400												170
175	56.9	399.6	170,400	170,400												175
180	55.6	396.1	165,700	165,700												180
185	54.3	392.5	161,100	161,100												185
190	53.0	388.7	156,500	156,500												190
195	51.6	384.7	152,000	152,000												195
200	50.3	380.5	147,400	147,400												200
205	48.9	376.1	143,000	143,000												205
210	47.4	371.5	138,700	138,700												210
215	46.0	366.6	134,400	134,400												215
220	44.5	361.5	130,300	130,300												220
230	41.3	350.4	122,500	122,500												230
240	38.0	337.9	115,300	115,300												240
250	34.3	323.7	108,800	108,800												250
260	30.3	307.3	103,100	103,100												260
270	25.6	287.6	98,200	98,200												270
280	20.0	262.7	94,700	94,700												280
290	11.8	225.2	74,900	74,900												290
300																300
310																310
320																320
330																330
340																340

MLC650 VPC-MAX S-3

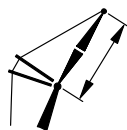
ASME B30.5



881,800 lb



164.0 ft

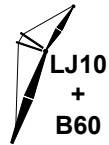


272.3 ft

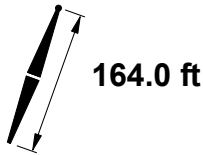
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170	65.0	413.2	161,400	161,400									170
175	63.8	410.7	161,400	161,400									175
180	62.6	408.1	161,400	161,400									180
185	61.4	405.3	160,200	161,400									185
190	60.2	402.4	153,900	161,400									190
195	58.9	399.4	148,000	161,400									195
200	57.7	396.2	142,400	161,400									200
205	56.4	392.8	137,100	161,400	59.8	397.0	124,300	148,900					205
210	55.1	389.3	132,000	161,400	58.6	393.9	119,600	148,900					210
215	53.8	385.6	127,200	161,400	57.3	390.7	115,000	148,900					215
220	52.5	381.7	122,600	161,400	56.1	387.3	110,700	148,900					220
230	49.8	373.4	114,000	161,400	53.5	379.9	102,600	148,900					230
240	46.9	364.2	106,000	161,400	50.8	371.9	95,200	148,900	54.3	376.6	84,700	138,300	240
250	43.9	354.0	98,800	160,800	47.9	363.0	88,400	148,900	51.6	368.8	78,300	138,300	250
260	40.7	342.6	92,000	149,200	45.0	353.2	82,100	148,900	48.9	360.2	72,400	138,300	260
270	37.3	329.9	85,800	138,500	41.9	342.3	76,200	148,900	45.9	350.7	67,000	138,300	270
280	33.6	315.3	79,900	128,700	38.6	330.1	70,800	142,700	42.9	340.1	61,900	138,300	280
290	29.5	298.4	74,400	119,500	35.0	316.2	65,700	132,600	39.6	328.3	57,100	136,700	290
300	24.7	278.0	69,300	110,900	31.0	300.3	60,900	123,300	36.1	315.0	52,700	130,200	300
310	18.7	251.6	64,300	102,700	26.5	281.3	56,300	114,500	32.3	299.8	48,500	124,100	310
320	9.5	209.0	59,400	86,300	21.1	257.6	52,000	106,200	28.0	281.9	44,500	117,700	320
330					13.6	223.6	47,800	98,000	22.9	260.0	40,700	109,300	330
340									16.4	230.5	36,900	101,200	340

MLC650 VPC-MAX S-3

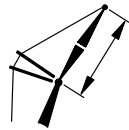
ASME B30.5



881,800 lb



164.0 ft



292.0 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105	74.5	454.1	156,000	156,000									105
110	73.4	452.5	155,400	155,400									110
115	72.4	450.9	154,700	154,700									115
120	71.4	449.2	154,000	154,000	72.6	450.4	153,000	153,000					120
125	70.3	447.4	153,300	153,300	71.5	448.7	152,600	152,600					125
130	69.3	445.4	152,500	152,500	70.5	446.9	152,100	152,100					130
135	68.2	443.4	151,600	151,600	69.4	445.0	151,500	151,500					135
140	67.2	441.3	150,800	150,800	68.4	443.0	150,900	150,900					140
145	66.1	439.0	149,900	149,900	67.3	440.9	150,300	150,300	69.1	443.0	147,000	147,000	145
150	65.0	436.7	148,900	148,900	66.2	438.6	149,600	149,600	68.1	440.9	146,800	146,800	150
155	63.9	434.2	148,000	148,000	65.1	436.3	148,900	148,900	67.0	438.8	146,500	146,500	155
160	62.8	431.6	147,100	147,100	64.1	433.8	148,200	148,200	65.9	436.5	146,200	146,200	160
165	61.7	428.8	146,100	146,100	62.9	431.2	147,500	147,500	64.8	434.1	145,900	145,900	165
170	60.5	426.0	145,200	145,200	61.8	428.5	146,700	146,700	63.7	431.6	145,500	145,500	170
175	59.4	423.0	144,200	144,200	60.7	425.7	146,000	146,000	62.6	429.0	145,100	145,100	175
180	58.2	419.9	143,300	143,300	59.6	422.7	145,200	145,200	61.5	426.2	144,700	144,700	180
185	57.1	416.6	142,300	142,300	58.4	419.6	144,400	144,400	60.4	423.4	144,200	144,200	185
190	55.9	413.2	141,300	141,300	57.2	416.3	143,600	143,600	59.2	420.3	143,800	143,800	190
195	54.7	409.6	140,400	140,400	56.1	412.9	142,800	142,800	58.1	417.2	143,200	143,200	195
200	53.5	405.8	137,600	137,600	54.8	409.4	142,000	142,000	56.9	413.9	142,700	142,700	200
205	52.2	401.9	134,000	134,000	53.6	405.7	141,200	141,200	55.7	410.4	142,200	142,200	205
210	50.9	397.8	130,400	130,400	52.4	401.8	140,400	140,400	54.5	406.8	141,000	141,000	210
215	49.6	393.5	126,900	126,900	51.1	397.7	139,600	139,600	53.3	403.1	135,900	141,100	215
220	48.3	389.1	123,300	123,300	49.8	393.4	138,500	138,900	52.0	399.1	131,000	140,600	220
230	45.6	379.4	116,500	116,500	47.2	384.3	129,000	133,600	49.4	390.7	121,800	139,500	230
240	42.7	368.8	110,100	110,100	44.4	374.3	120,300	126,600	46.8	381.4	113,500	138,400	240
250	39.7	357.1	104,000	104,000	41.5	363.2	112,300	119,800	44.0	371.3	105,700	137,500	250
260	36.5	343.9	98,300	98,300	38.3	350.9	104,900	113,300	41.0	360.0	98,600	131,600	260
270	32.9	329.0	93,200	93,200	35.0	337.0	98,000	107,200	37.9	347.5	92,000	122,200	270
280	29.0	311.7	88,700	88,700	31.3	321.2	91,600	101,600	34.5	333.3	85,800	113,500	280
290	24.5	291.1	84,900	84,900	27.2	302.7	85,500	96,700	30.7	317.2	80,000	105,300	290
300	19.0	265.0	78,800	78,800	22.3	280.1	79,900	87,900	26.5	298.1	74,600	97,700	300
310	11.0	225.3	60,300	60,300	16.1	250.0	74,400	75,200	21.5	274.8	69,400	89,200	310
320					3.3	185.7	47,500	47,500	14.9	242.8	64,400	76,300	320
330													330
340													340
350													350
360													360

MLC650 VPC-MAX S-3

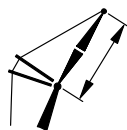
ASME B30.5



881,800 lb



164.0 ft

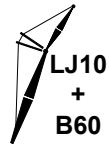


292.0 ft

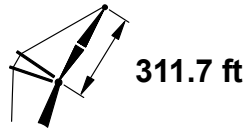
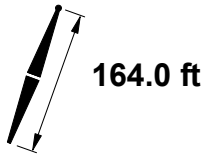
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180	64.6	430.2	135,700	135,700									180
185	63.5	427.7	135,700	135,700									185
190	62.4	425.0	135,700	135,700									190
195	61.3	422.3	135,700	135,700									195
200	60.1	419.4	135,700	135,700									200
205	59.0	416.3	133,100	135,700									205
210	57.8	413.1	128,000	135,700									210
215	56.6	409.8	123,200	135,700	59.8	413.9	110,800	124,400					215
220	55.4	406.3	118,600	135,700	58.7	410.9	106,500	124,400					220
230	53.0	398.9	110,000	135,700	56.3	404.3	98,500	124,400					230
240	50.5	390.7	102,200	135,700	53.9	397.1	91,100	124,400					240
250	47.8	381.8	94,900	135,700	51.4	389.2	84,300	124,400	54.7	393.7	74,100	114,400	250
260	45.1	372.0	88,200	135,700	48.8	380.6	78,100	124,400	52.2	386.0	68,200	114,400	260
270	42.2	361.2	82,000	135,700	46.1	371.1	72,300	124,400	49.6	377.6	62,800	114,400	270
280	39.1	349.2	76,200	126,300	43.3	360.7	66,900	124,400	47.0	368.4	57,800	114,400	280
290	35.8	335.8	70,800	117,300	40.3	349.1	61,800	124,400	44.2	358.3	53,100	114,400	290
300	32.3	320.5	65,800	109,000	37.1	336.2	57,100	120,900	41.2	347.1	48,700	114,400	300
310	28.3	302.7	61,000	101,200	33.6	321.6	52,700	112,400	38.1	334.7	44,500	114,400	310
320	23.6	281.3	56,500	93,800	29.8	304.9	48,500	104,500	34.7	320.7	40,600	114,400	320
330	17.8	253.6	52,100	86,700	25.4	285.0	44,500	97,000	31.0	304.7	36,900	107,300	330
340	8.7	208.2	47,700	71,400	20.1	260.1	40,600	89,800	26.8	285.9	33,400	99,700	340
350					12.8	224.3	36,900	82,600	21.9	263.0	30,000	92,500	350
360									15.5	231.9	26,700	85,400	360

MLC650 VPC-MAX S-3

ASME B30.5



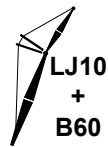
881,800 lb



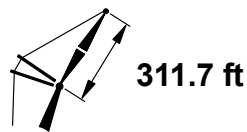
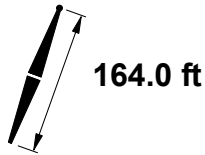
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
110	74.5	473.1	134,400	134,400									110
115	73.6	471.6	133,400	133,400									115
120	72.6	470.0	132,800	132,800									120
125	71.6	468.3	132,100	132,100	72.7	469.5	131,200	131,200					125
130	70.7	466.5	131,400	131,400	71.8	467.8	130,800	130,800					130
135	69.7	464.6	130,600	130,600	70.8	466.1	130,200	130,200					135
140	68.7	462.6	129,800	129,800	69.8	464.2	129,700	129,700					140
145	67.7	460.6	129,000	129,000	68.8	462.2	129,100	129,100					145
150	66.7	458.4	128,200	128,200	67.8	460.1	128,500	128,500	69.5	462.2	125,700	125,700	150
155	65.7	456.1	127,400	127,400	66.8	458.0	127,800	127,800	68.5	460.2	125,400	125,400	155
160	64.7	453.7	126,500	126,500	65.8	455.7	127,200	127,200	67.5	458.1	125,100	125,100	160
165	63.6	451.2	125,700	125,700	64.8	453.3	126,500	126,500	66.5	455.9	124,700	124,700	165
170	62.6	448.5	124,800	124,800	63.8	450.8	125,800	125,800	65.5	453.6	124,400	124,400	170
175	61.5	445.8	123,900	123,900	62.7	448.2	125,100	125,100	64.5	451.1	124,000	124,000	175
180	60.5	442.9	123,100	123,100	61.7	445.5	124,400	124,400	63.5	448.6	123,500	123,500	180
185	59.4	439.9	122,200	122,200	60.6	442.6	123,600	123,600	62.4	446.0	123,100	123,100	185
190	58.3	436.8	121,400	121,400	59.6	439.7	122,900	122,900	61.4	443.2	122,600	122,600	190
195	57.2	433.6	120,500	120,500	58.5	436.6	122,200	122,200	60.3	440.3	122,100	122,100	195
200	56.1	430.2	119,600	119,600	57.4	433.3	121,500	121,500	59.2	437.3	121,600	121,600	200
205	55.0	426.6	118,800	118,800	56.3	429.9	120,700	120,700	58.1	434.2	121,100	121,100	205
210	53.8	423.0	118,000	118,000	55.1	426.4	120,000	120,000	57.1	430.9	120,600	120,600	210
215	52.7	419.1	117,200	117,200	54.0	422.8	119,300	119,300	55.9	427.5	120,100	120,100	215
220	51.5	415.1	115,000	115,000	52.9	418.9	118,600	118,600	54.8	423.9	119,500	119,500	220
230	49.1	406.6	109,300	109,300	50.5	410.8	117,200	117,200	52.5	416.3	118,500	118,500	230
240	46.6	397.2	103,700	103,700	48.0	401.9	115,900	115,900	50.1	408.1	111,400	117,500	240
250	44.0	387.0	98,300	98,300	45.5	392.3	110,400	112,600	47.6	399.1	103,700	116,500	250
260	41.2	375.8	93,200	93,200	42.8	381.6	103,000	107,000	45.1	389.3	96,600	115,500	260
270	38.3	363.5	88,400	88,400	40.0	370.0	96,200	101,600	42.4	378.5	90,000	114,700	270
280	35.1	349.6	83,900	83,900	36.9	357.0	89,800	96,500	39.5	366.7	83,900	112,700	280
290	31.7	334.0	79,900	79,900	33.7	342.4	83,900	91,700	36.5	353.5	78,200	104,700	290
300	27.9	316.0	76,400	76,400	30.1	325.9	78,300	87,300	33.2	338.7	72,800	97,200	300
310	23.6	294.4	73,400	73,400	26.1	306.5	73,000	83,400	29.6	321.7	67,800	90,300	310
320	18.2	267.1	66,200	66,200	21.4	282.9	68,000	74,400	25.5	301.9	63,000	83,700	320
330	10.3	225.2	49,100	49,100	15.3	251.3	63,100	63,100	20.6	277.4	58,500	75,700	330
340									14.2	243.8	54,000	64,100	340
350													350
360													360
370													370
380													380

MLC650 VPC-MAX S-3

ASME B30.5



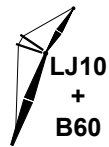
881,800 lb



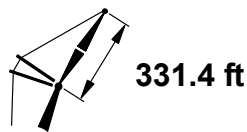
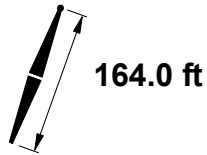
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190	64.3	447.2	115,500	115,500									190
195	63.2	444.7	115,500	115,500									195
200	62.2	442.0	115,500	115,500									200
205	61.1	439.2	115,500	115,500									205
210	60.1	436.3	115,500	115,500									210
215	59.0	433.3	115,500	115,500									215
220	57.9	430.1	115,500	115,500									220
230	55.7	423.4	107,700	115,400	58.7	427.8	95,900	105,500					230
240	53.4	416.0	99,900	115,100	56.5	421.3	88,600	105,500					240
250	51.1	408.1	92,700	114,800	54.3	414.2	81,900	105,500					250
260	48.6	399.4	86,000	114,400	51.9	406.4	75,700	105,500	55.0	410.7	65,600	96,400	260
270	46.1	389.9	79,800	114,100	49.5	398.0	69,900	105,500	52.7	403.2	60,200	96,400	270
280	43.5	379.5	74,100	113,700	47.0	388.8	64,500	105,500	50.3	395.0	55,300	96,400	280
290	40.7	368.1	68,800	113,500	44.4	378.8	59,500	105,500	47.8	386.1	50,600	96,400	290
300	37.7	355.5	63,800	108,200	41.7	367.8	54,900	105,500	45.3	376.3	46,200	96,400	300
310	34.5	341.4	59,000	100,600	38.8	355.6	50,500	105,500	42.6	365.6	42,200	96,400	310
320	31.1	325.3	54,600	93,500	35.7	342.1	46,400	103,700	39.7	353.9	38,300	96,400	320
330	27.2	306.8	50,400	86,700	32.3	326.8	42,500	96,400	36.7	340.8	34,700	96,400	330
340	22.7	284.4	46,400	80,300	28.6	309.3	38,800	89,600	33.4	326.1	31,300	96,400	340
350	17.0	255.4	42,500	73,700	24.4	288.5	35,200	83,100	29.9	309.3	28,000	92,000	350
360	7.9	207.0	38,600	59,700	19.3	262.4	31,800	76,800	25.8	289.7	24,900	85,500	360
370					12.1	224.7	28,400	70,200	21.0	265.7	21,900	79,200	370
380									14.8	233.1		73,000	380

MLC650 VPC-MAX S-3

ASME B30.5



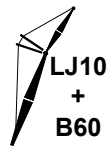
881,800 lb



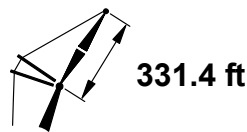
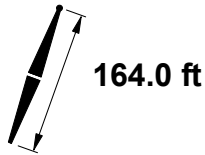
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.6	492.1	114,700	114,700									115
120	73.7	490.7	114,000	114,000									120
125	72.8	489.1	113,400	113,400									125
130	71.8	487.4	112,800	112,800	72.9	488.6	112,100	112,100					130
135	70.9	485.6	112,100	112,100	72.0	486.9	111,600	111,600					135
140	70.0	483.8	111,400	111,400	71.1	485.2	111,100	111,100					140
145	69.1	481.8	110,600	110,600	70.1	483.3	110,500	110,500					145
150	68.2	479.8	109,800	109,800	69.2	481.4	109,900	109,900					150
155	67.2	477.7	109,100	109,100	68.3	479.4	109,200	109,200	69.9	481.3	106,800	106,800	155
160	66.3	475.5	108,300	108,300	67.3	477.3	108,600	108,600	68.9	479.4	106,500	106,500	160
165	65.3	473.1	107,500	107,500	66.4	475.1	107,900	107,900	68.0	477.3	106,100	106,100	165
170	64.3	470.7	106,700	106,700	65.4	472.7	107,300	107,300	67.1	475.2	105,700	105,700	170
175	63.4	468.2	105,900	105,900	64.5	470.3	106,600	106,600	66.1	472.9	105,300	105,300	175
180	62.4	465.5	105,100	105,100	63.5	467.8	105,900	105,900	65.2	470.6	104,900	104,900	180
185	61.4	462.8	104,300	104,300	62.5	465.2	105,200	105,200	64.2	468.1	104,400	104,400	185
190	60.4	459.9	103,500	103,500	61.6	462.4	104,500	104,500	63.2	465.6	103,900	103,900	190
195	59.4	456.9	102,700	102,700	60.6	459.6	103,900	103,900	62.2	462.9	103,500	103,500	195
200	58.4	453.8	101,900	101,900	59.6	456.6	103,200	103,200	61.3	460.1	103,000	103,000	200
205	57.4	450.6	101,200	101,200	58.5	453.5	102,500	102,500	60.3	457.3	102,500	102,500	205
210	56.3	447.2	100,400	100,400	57.5	450.3	101,900	101,900	59.2	454.3	102,000	102,000	210
215	55.3	443.7	99,700	99,700	56.5	447.0	101,200	101,200	58.2	451.1	101,500	101,500	215
220	54.2	440.1	98,900	98,900	55.4	443.5	100,500	100,500	57.2	447.9	101,000	101,000	220
230	52.0	432.3	97,500	97,500	53.3	436.1	99,200	99,200	55.1	441.0	100,000	100,000	230
240	49.8	424.0	95,700	95,700	51.1	428.1	98,000	98,000	52.9	433.5	99,000	99,000	240
250	47.4	414.9	91,300	91,300	48.8	419.5	96,700	96,700	50.7	425.4	98,000	98,000	250
260	45.0	405.1	86,800	86,800	46.4	410.1	95,600	95,600	48.4	416.7	93,100	97,000	260
270	42.5	394.3	82,600	82,600	43.9	399.9	92,800	94,400	46.0	407.2	86,500	96,100	270
280	39.8	382.6	78,500	78,500	41.3	388.7	86,500	90,000	43.5	396.8	80,400	95,300	280
290	37.0	369.6	74,700	74,700	38.6	376.4	80,600	85,500	40.9	385.5	74,700	94,600	290
300	33.9	355.1	71,200	71,200	35.7	362.9	75,000	81,600	38.2	373.0	69,400	89,700	300
310	30.6	338.8	68,000	68,000	32.5	347.7	69,800	75,400	35.2	359.2	64,400	83,400	310
320	26.9	320.0	63,900	63,900	29.1	330.4	64,900	69,200	32.0	343.8	59,700	76,900	320
330	22.7	297.6	57,900	57,900	25.2	310.2	60,300	62,900	28.5	326.1	55,300	70,500	330
340	17.4	269.0	52,400	52,400	20.6	285.6	55,900	57,000	24.5	305.4	51,100	64,200	340
350	9.6	224.8	37,500	37,500	14.6	252.5	50,700	50,700	19.8	279.9	47,000	58,100	350
360									13.5	244.7	43,100	51,700	360
370													370
380													380
390													390
400													400

MLC650 VPC-MAX S-3

ASME B30.5



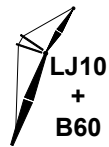
881,800 lb



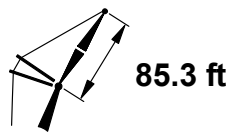
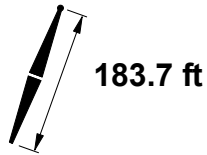
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195	65.0	466.7	97,300	97,300									195
200	64.0	464.2	97,300	97,300									200
205	63.0	461.7	97,300	97,300									205
210	62.0	459.0	97,300	97,300									210
215	61.0	456.2	97,200	97,200									215
220	60.0	453.3	97,100	97,100									220
230	58.0	447.1	96,800	96,800									230
240	55.9	440.4	96,000	96,400	58.8	444.8	84,600	88,400					240
250	53.8	433.1	88,900	96,000	56.7	438.3	77,900	88,400					250
260	51.6	425.3	82,300	95,600	54.6	431.2	71,700	88,400					260
270	49.3	416.8	76,100	95,200	52.4	423.6	66,000	88,400					270
280	47.0	407.6	70,400	94,700	50.2	415.4	60,700	88,400	53.1	420.3	51,200	80,800	280
290	44.5	397.6	65,100	94,300	47.8	406.5	55,700	88,400	50.9	412.3	46,600	80,800	290
300	42.0	386.7	60,100	94,000	45.4	396.8	51,100	88,400	48.6	403.6	42,200	80,800	300
310	39.3	374.7	55,500	93,700	42.9	386.2	46,700	88,400	46.2	394.2	38,200	80,800	310
320	36.4	361.5	51,100	89,200	40.3	374.6	42,600	88,400	43.7	383.9	34,400	80,800	320
330	33.3	346.7	46,900	82,800	37.5	361.9	38,800	88,400	41.1	372.6	30,800	80,800	330
340	30.0	330.0	43,000	76,300	34.5	347.7	35,100	86,900	38.4	360.3	27,400	80,800	340
350	26.2	310.6	39,300	69,700	31.2	331.7	31,700	80,500	35.4	346.6	24,200	80,800	350
360	21.8	287.3	35,700	63,300	27.6	313.4	28,400	74,200	32.3	331.2	21,200	80,800	360
370	16.3	257.1	32,300	57,300	23.5	291.8	25,200	67,800	28.8	313.8		77,100	370
380	7.2	205.5	28,700	47,700	18.5	264.6	22,200	61,500	24.9	293.3		71,200	380
390					11.4	225.0		56,100	20.2	268.2		65,000	390
400									14.0	234.2		59,400	400

MLC650 VPC-MAX S-3

ASME B30.5



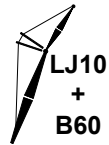
881,800 lb



	85°				83°				80°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
55	71.9	273.2	726,400 c	771,600 c									55
60	68.2	271.1	700,000 c	761,000 c	72.9	273.0	693,700 c	771,600 c					60
65	64.5	268.6	671,700 c	732,400 c	69.3	270.9	655,100 c	771,600 c					65
70	60.6	265.7	616,600 b	704,500 b	65.5	268.5	601,300 b	754,200 b					70
75	56.5	262.2	569,300 b	677,900 b	61.7	265.7	555,200 b	726,500 b	68.9	269.1	534,200 b	771,600 b	75
80	52.2	258.2	528,200	652,900	57.7	262.4	515,200 b	699,600 b	65.2	266.7	495,600 b	768,700 b	80
85	47.6	253.6	492,100	630,000	53.5	258.6	480,000	674,100	61.3	263.8	461,800 b	737,700 b	85
90	42.6	248.0	460,200	601,900	49.0	254.2	448,900	650,200	57.3	260.5	432,000 b	701,500 b	90
95	37.1	241.4	431,700	555,800	44.1	248.9	421,200	623,900	53.0	256.6	405,300	658,800	95
100	30.5	233.0	405,900	471,800	38.7	242.6	396,300	574,600	48.5	252.1	381,400	620,500	100
105	22.0	221.4	382,400	389,600	32.4	234.8	373,700	509,500	43.6	246.7	359,800	586,100	105
110					24.7	224.3	352,900	426,600	38.1	240.3	340,200	555,100	110
115					12.0	206.1	333,000	333,000	31.8	232.3	322,100	521,600	115
120									23.8	221.5	305,400	436,600	120
125									9.6	201.0	289,100	333,600	125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170

MLC650 VPC-MAX S-3

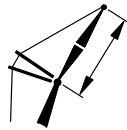
ASME B30.5



881,800 lb



183.7 ft

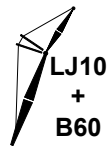


85.3 ft

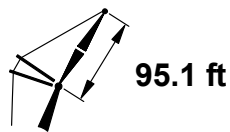
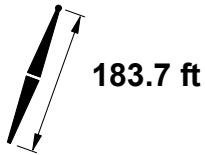
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100	61.8	260.5	356,500 b	600,800 b									100
105	57.8	257.2	336,400 b	567,600 b									105
110	53.6	253.4	318,100	537,600									110
115	49.1	249.0	301,400	510,400									115
120	44.2	243.7	286,100	485,700	58.0	252.3	266,200	470,200					120
125	38.9	237.5	271,900	463,000	53.8	248.5	253,100	448,300					125
130	32.7	229.7	258,800	442,300	49.3	244.1	241,000	428,200					130
135	25.0	219.4	246,400	423,000	44.5	238.9	229,700	409,700					135
140	12.6	201.7	234,300	377,400	39.1	232.7	219,200	392,600	53.6	241.9	203,100	380,100	140
145					33.0	225.0	209,400	376,600	49.1	237.4	194,000	364,700	145
150					25.4	214.9	200,000	361,800	44.2	232.2	185,600	350,400	150
155					13.6	198.0	190,600	347,700	38.8	225.9	177,500	337,000	155
160									32.7	218.2	169,900	324,500	160
165									24.9	207.8	162,600	312,700	165
170									12.6	190.2	155,200	301,400	170

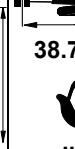
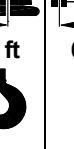
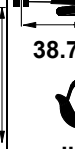
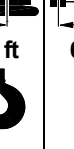
MLC650 VPC-MAX S-3

ASME B30.5



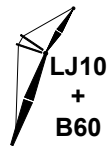
881,800 lb



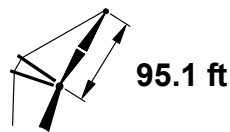
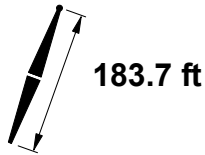
	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55	73.8	283.7	708,200 c	758,200 c									55
60	70.6	281.8	683,100 c	733,300 c									60
65	67.3	279.6	659,600 b	707,700 b	71.5	281.6	652,400 b	752,700 b					65
70	64.0	277.1	614,300 b	682,200 b	68.3	279.5	598,700 b	728,500 b					70
75	60.5	274.1	567,100 b	657,500 b	64.9	277.0	552,700 b	703,800 b					75
80	56.8	270.8	526,100	633,700	61.5	274.2	512,700 b	679,200 b	67.9	277.7	492,700 b	742,600 b	80
85	53.0	266.9	490,200	611,300	57.9	270.9	477,700	655,300	64.6	275.2	459,100 b	719,500 b	85
90	49.0	262.4	458,400	580,800	54.1	267.2	446,800	632,300	61.1	272.3	429,300 b	693,700 b	90
95	44.7	257.3	430,100	545,400	50.2	263.0	419,200	610,700	57.5	269.0	402,800	655,800	95
100	40.0	251.3	404,700	514,000	45.9	258.0	394,400	582,100	53.7	265.2	379,000	617,600	100
105	34.7	244.0	381,600	487,000	41.3	252.3	372,100	539,000	49.8	260.9	357,600	583,400	105
110	28.5	235.0	360,600	425,200	36.2	245.4	351,700	501,200	45.5	255.9	338,100	552,600	110
115	20.4	222.5	341,200	354,300	30.3	237.0	333,100	458,300	40.9	250.1	320,300	524,700	115
120					22.9	225.7	315,800	387,200	35.7	243.1	303,900	498,300	120
125					10.5	205.7	299,200	302,200	29.7	234.4	288,800	465,100	125
130									22.1	222.8	274,600	396,600	130
135									7.9	199.9	260,600	302,100	135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180

MLC650 VPC-MAX S-3

ASME B30.5



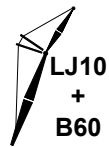
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105	61.6	268.9	333,400	564,500									105
110	58.0	265.7	315,200	534,600									110
115	54.2	262.0	298,600	507,600									115
120	50.3	257.7	283,500	483,000									120
125	46.1	252.8	269,500	460,500	58.2	260.8	250,000	445,400					125
130	41.5	247.1	256,600	439,900	54.4	257.1	238,000	425,400					130
135	36.4	240.3	244,500	420,800	50.5	252.9	226,900	407,000					135
140	30.5	231.9	233,300	403,200	46.3	248.0	216,600	390,000					140
145	23.2	220.8	222,600	386,800	41.7	242.3	206,900	374,200	54.2	250.5	190,900	361,900	145
150	11.1	201.4	212,100	344,400	36.7	235.6	197,800	359,500	50.3	246.2	182,500	347,700	150
155					30.8	227.3	189,200	345,800	46.1	241.3	174,700	334,500	155
160					23.6	216.3	181,000	332,900	41.5	235.6	167,300	322,100	160
165					12.1	197.9	172,800	320,600	36.4	228.8	160,300	310,500	165
170									30.5	220.4	153,600	299,500	170
175									23.2	209.2	147,100	289,100	175
180									11.1	189.9	140,400	279,100	180

MLC650 VPC-MAX S-3

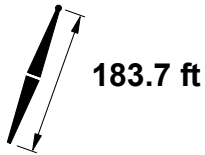
ASME B30.5



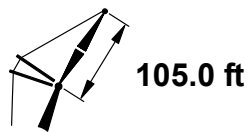
881,800 lb



360°



183.7 ft

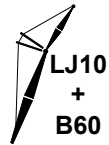


105.0 ft

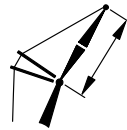
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	72.5	292.3	663,000 b	704,300 b									60
65	69.6	290.4	640,900 b	683,000 b									65
70	66.6	288.1	613,100 b	660,100 b	70.4	290.2	597,300 b	702,200 b					70
75	63.5	285.5	566,000 b	637,500 b	67.4	288.0	551,400 b	680,600 b					75
80	60.4	282.6	525,100	615,500	64.4	285.5	511,500 b	658,600 b					80
85	57.1	279.3	489,300	594,300	61.3	282.7	476,500	636,700	67.2	286.2	457,500 b	695,400 b	85
90	53.7	275.5	457,600	563,600	58.0	279.4	445,700	615,400	64.1	283.7	427,900	674,900	90
95	50.1	271.2	429,400	529,800	54.6	275.8	418,200	594,900	61.0	280.8	401,400	653,700	95
100	46.3	266.4	404,100	498,400	51.1	271.7	393,600	575,400	57.7	277.5	377,800	615,700	100
105	42.2	260.8	381,300	469,800	47.4	267.0	371,300	545,200	54.3	273.8	356,400	581,600	105
110	37.7	254.3	360,500	444,700	43.4	261.6	351,100	507,300	50.8	269.7	337,000	550,900	110
115	32.7	246.5	341,500	423,400	39.0	255.4	332,700	473,700	47.0	264.9	319,400	523,100	115
120	26.7	236.8	324,000	382,500	34.2	248.0	315,800	443,700	43.0	259.5	303,200	497,800	120
125	18.9	223.4	307,700	321,000	28.5	239.0	300,200	408,400	38.6	253.1	288,300	471,100	125
130					21.4	226.9	285,500	350,800	33.7	245.6	274,500	441,500	130
135					9.1	205.0	271,300	275,500	27.9	236.4	261,600	413,100	135
140									20.6	223.9	249,400	362,200	140
145									6.2	198.2	237,200	274,300	145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190

MLC650 VPC-MAX S-3

ASME B30.5



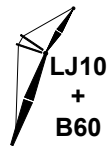
881,800 lb



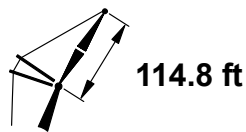
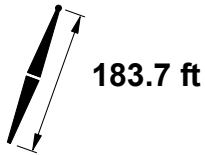
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105	64.5	280.2	331,700	562,400									105
110	61.4	277.4	313,600	532,700									110
115	58.1	274.2	297,100	505,800									115
120	54.8	270.6	282,100	481,300									120
125	51.2	266.5	268,200	458,900									125
130	47.5	261.8	255,400	438,400	58.3	269.3	236,300	423,700					130
135	43.5	256.4	243,500	419,400	54.9	265.7	225,300	405,400					135
140	39.2	250.2	232,500	401,900	51.4	261.6	215,100	388,400					140
145	34.3	242.9	222,100	385,700	47.7	256.9	205,500	372,700					145
150	28.7	233.9	212,400	370,600	43.7	251.6	196,600	358,100	54.8	259.1	180,800	346,100	150
155	21.7	222.0	203,100	356,400	39.4	245.5	188,200	344,500	51.2	254.9	173,100	332,900	155
160	9.8	200.9	193,800	315,700	34.6	238.2	180,300	331,800	47.5	250.3	165,800	320,600	160
165					29.0	229.3	172,800	319,800	43.5	244.9	158,900	309,100	165
170					22.1	217.6	165,500	308,500	39.2	238.7	152,400	298,200	170
175					10.8	197.6	158,200	297,700	34.3	231.4	146,200	288,000	175
180									28.7	222.4	140,300	278,300	180
185									21.7	210.5	134,500	269,200	185
190									9.8	189.3	128,500	260,200	190

MLC650 VPC-MAX S-3

ASME B30.5



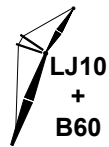
881,800 lb



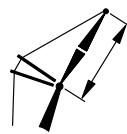
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	74.1	302.7	644,600 b	644,600 b									60
65	71.4	301.0	628,500 b	644,000 b									65
70	68.8	298.9	608,300 b	637,300 b	72.2	300.7	594,600 b	646,600 b					70
75	66.0	296.6	563,600 b	617,000 b	69.5	298.7	548,700 b	646,600 b					75
80	63.2	294.0	522,800	596,700	66.8	296.5	508,900	637,100					80
85	60.3	291.1	487,000	577,100	64.0	294.0	474,000	617,400	69.2	297.0	454,600	641,700	85
90	57.3	287.8	455,400	545,400	61.1	291.1	443,200	597,900	66.5	294.7	425,000	641,700	90
95	54.2	284.1	427,200	514,300	58.2	287.9	415,800	578,800	63.7	292.1	398,700	634,200	95
100	51.0	279.9	402,000	484,600	55.1	284.4	391,200	560,300	60.8	289.2	375,000	612,700	100
105	47.6	275.3	379,300	457,000	51.9	280.4	369,100	536,600	57.9	286.0	353,800	578,800	105
110	44.0	270.0	358,700	431,400	48.5	275.8	349,000	506,600	54.8	282.4	334,500	548,200	110
115	40.1	264.0	339,800	408,400	45.0	270.8	330,700	476,200	51.6	278.3	316,900	520,500	115
120	35.8	257.1	322,600	388,300	41.2	265.0	313,900	446,200	48.2	273.8	300,800	495,300	120
125	31.0	248.8	306,700	371,300	37.0	258.3	298,500	419,300	44.6	268.7	286,000	472,200	125
130	25.3	238.5	291,900	345,800	32.4	250.5	284,200	395,000	40.8	262.8	272,400	443,900	130
135	17.7	224.2	277,900	294,000	27.0	240.8	270,800	361,700	36.6	256.0	259,700	417,300	135
140					20.1	228.0	258,300	321,000	31.9	248.0	247,900	393,300	140
145					7.8	204.0	245,900	250,500	26.4	238.2	236,800	366,300	145
150									19.3	224.9	226,200	327,600	150
155									4.2	195.1	215,400	246,300	155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200

MLC650 VPC-MAX S-3

ASME B30.5



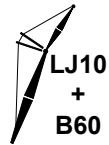
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110	64.1	288.7	310,500	529,700									110
115	61.2	285.9	294,100	502,900									115
120	58.2	282.7	279,100	478,500									120
125	55.2	279.1	265,300	456,200									125
130	52.0	275.1	252,600	435,700									130
135	48.6	270.6	240,900	416,900	58.4	277.8	222,200	402,500					135
140	45.1	265.6	229,900	399,500	55.3	274.2	212,000	385,700					140
145	41.3	259.8	219,700	383,300	52.2	270.2	202,600	370,100					145
150	37.1	253.2	210,200	368,300	48.8	265.8	193,700	355,600					150
155	32.5	245.4	201,200	354,300	45.3	260.8	185,500	342,000					155
160	27.1	235.8	192,700	341,200	41.5	255.0	177,700	329,400	52.0	263.6	162,700	317,900	160
165	20.3	223.2	184,500	328,800	37.4	248.5	170,300	317,500	48.6	259.1	155,900	306,500	165
170	8.6	200.1	176,200	288,800	32.8	240.7	163,300	306,400	45.1	254.1	149,500	295,700	170
175					27.4	231.3	156,700	295,800	41.3	248.3	143,400	285,600	175
180					20.7	218.8	150,200	285,900	37.1	241.7	137,700	276,000	180
185					9.6	197.1	143,600	276,300	32.5	233.9	132,200	267,000	185
190									27.1	224.3	126,900	258,400	190
195									20.3	211.6	121,700	250,200	195
200									8.5	188.5	116,200	242,200	200

MLC650 VPC-MAX S-3

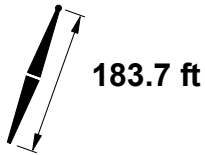
ASME B30.5



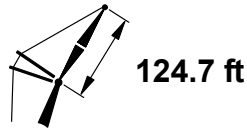
881,800 lb



360°



183.7 ft



124.7 ft

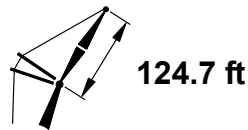
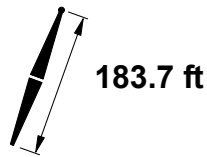
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	73.0	311.4	592,700 b	592,700 b									65
70	70.5	309.6	591,400 b	591,400 b									70
75	68.0	307.5	575,800	588,100	71.2	309.3	570,400 b	595,200 b					75
80	65.5	305.1	548,200	579,900	68.7	307.3	534,100	595,200					80
85	62.9	302.5	510,900	556,000	66.2	305.0	497,700	592,400					85
90	60.2	299.5	477,900	527,900	63.6	302.5	465,600	582,000	68.5	305.5	447,200	589,500	90
95	57.5	296.3	448,600	500,000	61.0	299.6	437,000	564,600	66.0	303.2	419,700	589,500	95
100	54.7	292.6	422,400	472,800	58.3	296.4	411,400	547,400	63.4	300.6	395,000	589,500	100
105	51.7	288.6	398,700	446,700	55.4	292.9	388,300	523,300	60.7	297.7	372,800	578,100	105
110	48.6	284.1	377,200	422,200	52.5	289.0	367,400	495,700	58.0	294.5	352,700	547,600	110
115	45.4	279.1	357,700	399,400	49.5	284.6	348,300	469,200	55.2	291.0	334,300	520,000	115
120	41.9	273.5	339,800	378,400	46.3	279.8	330,900	444,000	52.2	287.0	317,600	494,900	120
125	38.2	267.1	323,400	359,700	42.9	274.3	314,900	420,500	49.2	282.6	302,200	471,900	125
130	34.1	259.7	308,200	343,300	39.2	268.2	300,100	398,800	46.0	277.7	288,000	447,600	130
135	29.4	250.9	294,000	329,600	35.3	261.1	286,400	376,900	42.6	272.2	274,800	421,000	135
140	23.9	240.1	280,800	311,300	30.8	252.8	273,600	356,400	38.9	265.9	262,600	397,100	140
145	16.6	224.9	268,300	272,200	25.6	242.6	261,600	325,200	34.9	258.8	251,200	375,300	145
150					18.9	229.0	250,300	292,100	30.3	250.3	240,500	355,400	150
155					6.6	202.6	228,800	228,800	25.0	239.9	230,400	329,600	155
160									18.2	225.8	220,800	296,300	160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210

MLC650 VPC-MAX S-3

ASME B30.5



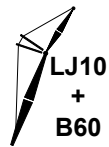
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	63.7	297.2	311,200	502,300									115
120	61.1	294.4	295,600	477,900									120
125	58.3	291.2	281,200	455,700									125
130	55.5	287.7	267,900	435,300									130
135	52.6	283.8	255,600	416,600									135
140	49.6	279.4	244,200	399,200	58.5	286.3	226,000	385,300					140
145	46.4	274.6	233,600	383,100	55.7	282.8	216,100	369,800					145
150	43.0	269.2	223,700	368,200	52.8	278.9	206,900	355,300					150
155	39.4	263.0	214,400	354,200	49.7	274.6	198,200	341,900					155
160	35.4	256.0	205,600	341,200	46.6	269.8	190,100	329,300					160
165	30.9	247.7	197,300	329,000	43.2	264.4	182,500	317,500	52.6	272.3	167,700	306,300	165
170	25.8	237.6	189,500	317,500	39.5	258.3	175,200	306,400	49.6	267.9	161,100	295,600	170
175	19.2	224.2	181,900	306,600	35.6	251.2	168,400	295,900	46.4	263.1	154,700	285,500	175
180	7.4	199.0	174,100	265,900	31.2	243.0	161,900	286,100	43.0	257.7	148,700	276,000	180
185					26.0	233.0	155,600	276,800	39.4	251.5	143,100	267,000	185
190					19.6	219.9	149,600	267,900	35.4	244.5	137,600	258,500	190
195					8.5	196.3	143,400	259,300	30.9	236.2	132,400	250,400	195
200									25.8	226.1	127,400	242,800	200
205									19.2	212.6	122,500	235,400	205
210									7.3	187.4	117,200	228,200	210

MLC650 VPC-MAX S-3

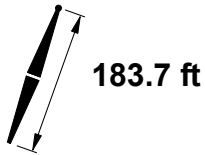
ASME B30.5



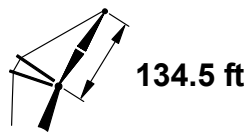
881,800 lb



360°



183.7 ft

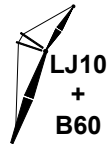


134.5 ft

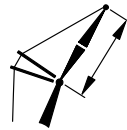
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	74.3	321.8	543,300 b	543,300 b									65
70	72.0	320.1	543,300	543,300									70
75	69.7	318.2	542,300	542,300	72.6	319.8	543,100	543,100					75
80	67.4	316.0	538,900	538,900	70.4	317.9	531,500	543,100					80
85	65.1	313.6	508,500	532,300	68.1	315.9	495,100	543,100					85
90	62.6	311.0	475,600	508,200	65.7	313.5	463,000	543,100					90
95	60.2	308.0	446,300	483,800	63.3	310.9	434,500	537,300	67.8	314.1	416,800	540,400	95
100	57.6	304.8	420,100	459,400	60.9	308.1	408,900	528,800	65.5	311.7	392,200	540,400	100
105	55.0	301.2	396,500	435,600	58.4	304.9	385,900	507,200	63.1	309.1	370,100	540,400	105
110	52.3	297.3	375,100	412,700	55.8	301.4	365,000	482,900	60.6	306.2	350,000	537,000	110
115	49.5	292.9	355,600	390,900	53.1	297.6	346,000	458,800	58.1	303.0	331,700	517,300	115
120	46.5	288.1	337,800	370,500	50.3	293.4	328,700	435,300	55.5	299.5	315,000	492,300	120
125	43.4	282.8	321,400	351,600	47.4	288.7	312,700	412,800	52.8	295.6	299,700	469,400	125
130	40.1	276.8	306,300	334,300	44.3	283.5	298,000	391,700	50.0	291.4	285,600	448,400	130
135	36.5	270.0	292,300	318,900	41.0	277.7	284,400	371,900	47.1	286.6	272,500	422,000	135
140	32.6	262.2	279,300	305,400	37.5	271.2	271,700	354,000	44.0	281.4	260,300	397,900	140
145	28.1	253.0	267,100	294,300	33.7	263.7	259,900	337,900	40.7	275.5	249,000	376,200	145
150	22.8	241.5	255,700	280,100	29.4	254.9	248,900	319,400	37.2	268.9	238,400	356,300	150
155	15.6	225.4	244,700	246,700	24.4	244.2	238,400	292,500	33.3	261.3	228,500	338,100	155
160					17.9	229.9	228,500	263,400	29.0	252.4	219,200	321,300	160
165					5.2	200.5	204,200	204,200	23.8	241.4	210,300	296,700	165
170									17.1	226.6	201,800	267,400	170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220

MLC650 VPC-MAX S-3

ASME B30.5



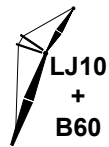
881,800 lb



	75°				70°				65°				
	ft	°	ft	lb	lb	ft	°	ft	lb	lb	ft	°	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	63.4	305.7	292,500	475,100									120
125	60.9	302.8	278,200	453,000									125
130	58.4	299.7	265,000	432,700									130
135	55.8	296.2	252,800	414,000									135
140	53.2	292.4	241,400	396,700									140
145	50.4	288.2	230,900	380,700	58.6	294.7	213,000	367,100					145
150	47.5	283.5	221,000	365,800	56.0	291.3	203,800	352,700					150
155	44.4	278.3	211,800	351,900	53.3	287.5	195,300	339,300					155
160	41.1	272.6	203,200	338,900	50.5	283.3	187,200	326,700					160
165	37.7	266.1	195,000	326,800	47.6	278.7	179,600	315,000					165
170	33.8	258.6	187,300	315,400	44.6	273.5	172,500	304,000	53.2	280.9	157,900	293,000	170
175	29.5	249.9	180,000	304,600	41.3	267.8	165,700	293,600	50.4	276.7	151,700	282,900	175
180	24.5	239.2	173,000	294,400	37.8	261.3	159,300	283,800	47.5	272.0	145,800	273,500	180
185	18.1	225.1	166,200	282,700	34.0	253.9	153,300	274,600	44.4	266.8	140,100	264,600	185
190	6.2	197.5	159,200	239,000	29.8	245.2	147,400	265,800	41.1	261.0	134,800	256,100	190
195					24.8	234.7	141,800	257,500	37.6	254.5	129,700	248,100	195
200					18.5	220.8	136,400	249,600	33.8	247.1	124,800	240,500	200
205					7.4	195.3	130,700	241,800	29.5	238.3	120,200	233,300	205
210									24.5	227.7	115,600	226,400	210
215									18.1	213.5	111,100	219,700	215
220									6.2	185.9	106,300	213,100	220

MLC650 VPC-MAX S-3

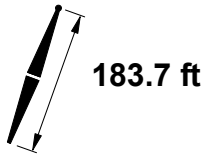
ASME B30.5



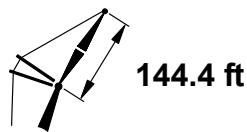
881,800 lb



360°



183.7 ft

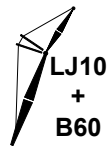


144.4 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.3	330.5	500,000	500,000									70
75	71.2	328.7	499,800	499,800									75
80	69.1	326.8	498,100	498,100	71.8	328.5	501,000	501,000					80
85	66.9	324.6	494,500	494,500	69.7	326.5	493,300	501,000					85
90	64.7	322.1	473,900	486,900	67.5	324.4	461,200	501,000					90
95	62.4	319.4	444,700	465,900	65.3	322.0	432,700	501,000	69.4	324.8	414,900	490,800	95
100	60.1	316.5	418,500	444,400	63.1	319.4	407,200	499,700	67.3	322.6	390,300	490,800	100
105	57.8	313.3	394,900	423,100	60.8	316.5	384,200	488,700	65.1	320.2	368,200	490,800	105
110	55.3	309.7	373,600	402,100	58.4	313.4	363,400	467,700	62.8	317.6	348,200	490,800	110
115	52.8	305.9	354,100	381,900	56.0	310.0	344,400	446,300	60.5	314.7	329,900	490,800	115
120	50.2	301.6	336,300	362,500	53.5	306.2	327,100	425,100	58.2	311.5	313,200	490,300	120
125	47.5	297.0	320,000	344,300	51.0	302.1	311,200	404,300	55.8	308.0	297,900	467,500	125
130	44.7	291.9	305,000	327,200	48.3	297.6	296,500	384,300	53.3	304.2	283,900	446,600	130
135	41.7	286.2	291,000	311,500	45.5	292.6	282,900	365,200	50.7	300.1	270,800	422,300	135
140	38.5	279.9	278,100	297,100	42.5	287.1	270,300	347,400	48.0	295.5	258,700	398,300	140
145	35.0	272.8	266,000	284,400	39.4	280.9	258,600	330,900	45.2	290.5	247,500	376,500	145
150	31.2	264.6	254,800	273,300	36.0	274.0	247,700	315,800	42.2	284.9	237,000	356,700	150
155	26.9	254.9	244,200	264,100	32.3	266.2	237,400	302,400	39.1	278.7	227,100	338,500	155
160	21.7	242.8	234,100	253,400	28.2	257.0	227,700	288,100	35.7	271.7	217,900	321,900	160
165	14.7	225.9	223,400	223,400	23.3	245.7	218,500	264,600	31.9	263.8	209,200	306,400	165
170					17.0	230.6	209,700	238,900	27.7	254.4	200,900	291,700	170
175					3.4	197.0	181,500	181,500	22.7	242.9	193,000	268,600	175
180									16.2	227.2	185,400	242,700	180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230

MLC650 VPC-MAX S-3

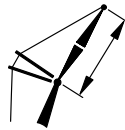
ASME B30.5



881,800 lb



183.7 ft

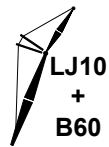


144.4 ft

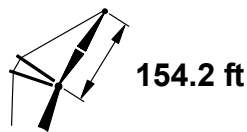
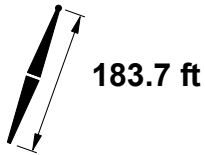
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	63.1	314.2	276,200	450,900									125
130	60.8	311.3	263,000	430,700									130
135	58.5	308.2	250,800	412,000									135
140	56.1	304.7	239,500	394,800									140
145	53.6	301.0	229,000	378,900									145
150	51.0	296.9	219,200	364,000	58.6	303.2	201,800	350,800					150
155	48.4	292.4	210,100	350,200	56.2	299.8	193,300	337,400					155
160	45.6	287.4	201,500	337,300	53.7	296.1	185,200	324,900					160
165	42.6	281.9	193,400	325,100	51.2	292.0	177,700	313,200					165
170	39.5	275.8	185,700	313,800	48.5	287.5	170,600	302,300					170
175	36.1	268.9	178,500	303,100	45.7	282.5	163,900	291,900	53.6	289.5	149,600	281,100	175
180	32.4	261.1	171,700	293,000	42.8	277.1	157,600	282,200	51.0	285.3	143,800	271,700	180
185	28.3	251.9	165,100	283,500	39.7	271.0	151,600	273,000	48.4	280.8	138,200	262,800	185
190	23.4	240.7	158,900	274,400	36.3	264.2	145,900	264,300	45.6	275.9	132,900	254,500	190
195	17.2	225.9	152,800	256,800	32.6	256.4	140,400	256,100	42.6	270.4	127,900	246,500	195
200	4.9	195.3	146,400	215,200	28.5	247.3	135,200	248,200	39.5	264.3	123,100	238,900	200
205					23.7	236.3	130,100	240,700	36.1	257.4	118,500	231,800	205
210					17.6	221.6	125,200	233,600	32.4	249.6	114,100	224,900	210
215					6.4	193.9	120,000	226,600	28.3	240.4	109,900	218,400	215
220									23.4	229.2	105,700	212,100	220
230									4.8	183.7	97,200	200,100	230

MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.4	340.8	459,500	459,500									70
75	72.4	339.2	459,500	459,500									75
80	70.5	337.4	459,500	459,500	73.0	338.9	457,800	457,800					80
85	68.5	335.3	457,600	457,600	71.0	337.1	457,800	457,800					85
90	66.4	333.1	454,300	454,300	69.0	335.1	457,800	457,800					90
95	64.4	330.6	447,200	447,200	67.0	332.9	451,100	457,800					95
100	62.2	327.9	428,800	428,800	64.9	330.5	424,500	457,800	68.8	333.3	407,300	451,300	100
105	60.1	325.0	410,100	410,100	62.8	327.9	400,500	457,800	66.8	331.1	384,200	451,300	105
110	57.9	321.8	389,300	391,300	60.7	325.0	378,800	451,300	64.7	328.7	363,300	451,300	110
115	55.6	318.3	369,000	372,900	58.5	321.9	359,100	432,900	62.6	326.0	344,300	451,300	115
120	53.3	314.5	350,500	355,000	56.2	318.5	341,100	414,200	60.5	323.1	326,900	451,300	120
125	50.9	310.3	333,600	337,700	53.9	314.8	324,500	395,500	58.3	320.0	311,000	451,300	125
130	48.4	305.8	317,900	321,400	51.6	310.7	309,300	377,100	56.0	316.5	296,300	444,100	130
135	45.8	300.9	303,500	306,000	49.1	306.3	295,200	359,300	53.7	312.8	282,800	422,400	135
140	43.0	295.5	290,100	291,600	46.5	301.5	282,100	342,200	51.3	308.7	270,200	398,300	140
145	40.1	289.5	277,600	278,400	43.8	296.3	269,900	326,000	48.8	304.3	258,500	376,500	145
150	37.0	282.9	265,900	266,500	41.0	290.5	258,600	310,900	46.2	299.5	247,600	356,600	150
155	33.7	275.4	255,000	255,700	37.9	284.0	247,900	296,900	43.5	294.1	237,300	338,400	155
160	30.0	266.8	244,700	246,500	34.7	276.8	237,900	284,100	40.7	288.3	227,800	321,800	160
165	25.8	256.7	235,000	238,900	31.1	268.5	228,500	272,800	37.6	281.8	218,700	306,400	165
170	20.8	244.1	225,800	229,900	27.0	258.9	219,600	260,900	34.3	274.4	210,200	292,100	170
175	13.9	226.3	202,500	202,500	22.3	247.1	211,200	240,000	30.7	266.1	202,200	278,600	175
180					16.1	231.3	203,000	217,000	26.6	256.3	194,500	264,700	180
185									21.8	244.2	187,200	243,900	185
190									15.4	227.8	180,100	220,700	190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240

MLC650 VPC-MAX S-3

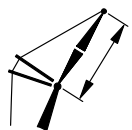
ASME B30.5



881,800 lb



183.7 ft

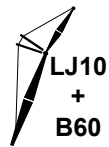


154.2 ft

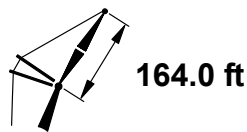
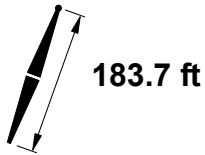
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	65.0	325.3	288,800	423,800									125
130	62.9	322.6	275,100	423,800									130
135	60.8	319.8	262,400	409,400									135
140	58.6	316.6	250,600	392,300									140
145	56.3	313.2	239,600	376,400									145
150	54.0	309.5	229,400	361,600									150
155	51.6	305.5	219,800	347,800	58.7	311.7	202,700	334,800					155
160	49.2	301.1	210,900	334,900	56.4	308.3	194,300	322,400					160
165	46.6	296.3	202,500	322,900	54.1	304.6	186,500	310,700					165
170	43.9	291.1	194,600	311,500	51.7	300.6	179,100	299,800					170
175	41.0	285.3	187,100	300,900	49.3	296.3	172,100	289,500					175
180	38.0	278.9	180,000	290,800	46.7	291.5	165,500	279,800	54.0	298.0	151,300	269,200	180
185	34.8	271.7	173,300	281,400	44.0	286.3	159,300	270,700	51.6	294.0	145,500	260,300	185
190	31.2	263.5	166,900	272,400	41.2	280.5	153,300	262,000	49.2	289.6	140,000	252,000	190
195	27.2	253.9	160,700	263,900	38.2	274.1	147,700	253,800	46.6	284.8	134,800	244,100	195
200	22.4	242.2	154,800	255,100	34.9	266.9	142,300	246,000	43.9	279.6	129,800	236,600	200
205	16.4	226.6	149,100	233,700	31.4	258.8	137,100	238,600	41.0	273.8	125,000	229,400	205
210	3.1	191.4	142,900	191,800	27.4	249.3	132,200	231,600	38.0	267.4	120,500	222,600	210
215					22.7	237.7	127,400	224,800	34.8	260.1	116,100	216,200	215
220					16.7	222.4	122,700	218,300	31.2	251.9	111,900	210,000	220
230									22.4	230.6	103,900	198,400	230
240									3.1	179.7	95,500	187,300	240

MLC650 VPC-MAX S-3

ASME B30.5



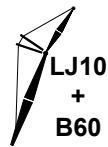
881,800 lb



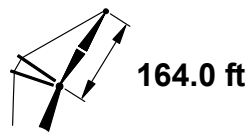
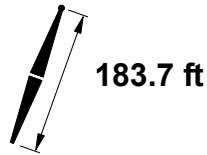
85°					83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	73.5	349.6	423,300	423,300									75
80	71.7	347.9	423,100	423,100									80
85	69.8	346.0	421,900	421,900	72.2	347.6	421,100	421,100					85
90	67.9	343.9	420,100	420,100	70.3	345.7	421,100	421,100					90
95	66.0	341.6	417,300	417,300	68.5	343.7	421,100	421,100					95
100	64.1	339.1	411,400	411,400	66.5	341.5	421,100	421,100					100
105	62.1	336.4	395,100	395,100	64.6	339.0	399,900	421,100	68.3	341.9	383,400	416,600	105
110	60.0	333.4	378,500	378,500	62.6	336.4	378,200	421,100	66.4	339.6	362,600	416,600	110
115	58.0	330.2	361,900	361,900	60.6	333.5	358,500	416,900	64.4	337.2	343,600	416,600	115
120	55.9	326.8	345,600	345,600	58.6	330.4	340,500	400,700	62.4	334.5	326,300	416,600	120
125	53.7	323.1	329,700	329,700	56.5	327.0	324,000	384,200	60.4	331.6	310,300	416,600	125
130	51.4	319.0	314,200	314,200	54.3	323.3	308,800	367,600	58.4	328.5	295,700	416,600	130
135	49.1	314.6	299,500	299,500	52.1	319.4	294,700	351,200	56.2	325.1	282,200	416,600	135
140	46.7	309.8	285,600	285,600	49.8	315.1	281,700	335,200	54.1	321.4	269,600	399,100	140
145	44.2	304.7	272,600	272,600	47.4	310.4	269,500	319,800	51.8	317.4	257,900	377,200	145
150	41.5	299.0	260,400	260,400	44.9	305.4	258,200	305,200	49.5	313.1	247,000	357,300	150
155	38.7	292.7	249,200	249,200	42.3	299.8	247,600	291,300	47.1	308.4	236,900	339,200	155
160	35.7	285.7	239,000	239,000	39.5	293.7	237,700	278,400	44.6	303.2	227,300	322,500	160
165	32.5	277.9	230,000	230,000	36.6	287.0	228,400	266,300	42.0	297.7	218,400	307,200	165
170	28.9	268.9	222,100	222,100	33.4	279.4	219,600	255,500	39.2	291.5	209,900	293,000	170
175	24.8	258.4	215,700	215,700	29.9	270.8	211,200	245,800	36.3	284.7	201,900	279,800	175
180	19.9	245.2	209,200	210,600	26.0	260.7	203,300	237,600	33.1	277.0	194,400	267,300	180
185	13.2	226.5	185,400	185,400	21.4	248.4	195,800	219,900	29.6	268.3	187,200	255,000	185
190					15.4	231.9	188,400	199,100	25.6	258.0	180,400	242,200	190
195									20.9	245.5	173,800	223,600	195
200									14.6	228.3	167,400	202,600	200
205													205
210													210
215													215
220													220
230													230
240													240

MLC650 VPC-MAX S-3

ASME B30.5



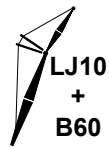
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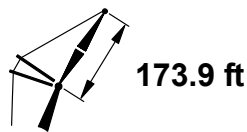
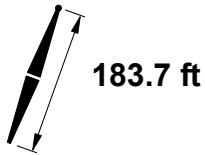
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	64.7	333.8	274,200	388,400									130
135	62.7	331.1	261,500	388,400									135
140	60.7	328.2	249,800	388,400									140
145	58.6	325.1	238,800	375,400									145
150	56.5	321.8	228,700	360,600									150
155	54.4	318.1	219,100	346,900									155
160	52.1	314.2	210,200	334,000	58.7	320.2	193,400	321,400					160
165	49.8	309.9	201,800	322,000	56.6	316.8	185,600	309,800					165
170	47.4	305.2	193,900	310,700	54.5	313.2	178,200	298,900					170
175	45.0	300.2	186,500	300,100	52.2	309.3	171,300	288,600					175
180	42.4	294.6	179,500	290,100	49.9	305.0	164,800	279,000					180
185	39.6	288.6	172,800	280,700	47.6	300.4	158,500	269,900	54.4	306.6	144,600	259,400	185
190	36.7	281.8	166,500	271,800	45.1	295.3	152,700	261,300	52.1	302.6	139,100	251,100	190
195	33.5	274.3	160,400	263,300	42.5	289.8	147,100	253,100	49.8	298.4	133,900	243,200	195
200	30.1	265.7	154,700	255,300	39.8	283.8	141,700	245,300	47.4	293.7	129,000	235,700	200
205	26.1	255.7	149,200	245,800	36.8	277.1	136,600	238,000	45.0	288.7	124,300	228,600	205
210	21.5	243.5	143,800	234,500	33.7	269.6	131,800	231,000	42.4	283.1	119,800	221,900	210
215	15.6	227.2	138,600	214,800	30.2	261.1	127,100	224,300	39.6	277.0	115,500	215,500	215
220					26.4	251.1	122,600	217,900	36.7	270.3	111,300	209,300	220
230					15.9	223.0	113,900	205,900	30.1	254.2	103,500	197,800	230
240									21.5	232.0	96,200	187,200	240

MLC650 VPC-MAX S-3

ASME B30.5



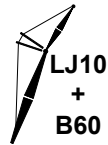
881,800 lb



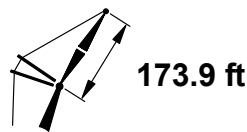
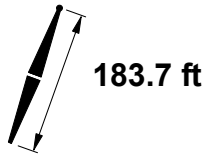
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	74.5	359.9	390,600	390,600									75
80	72.8	358.3	390,600	390,600									80
85	71.0	356.5	390,300	390,300									85
90	69.3	354.6	389,100	389,100	71.5	356.2	389,000	389,000					90
95	67.5	352.4	387,500	387,500	69.7	354.3	389,000	389,000					95
100	65.6	350.1	385,100	385,100	68.0	352.3	389,000	389,000					100
105	63.8	347.6	379,500	379,500	66.2	350.0	389,000	389,000	69.6	352.5	379,000	379,000	105
110	61.9	344.9	365,100	365,100	64.3	347.5	375,800	389,000	67.8	350.4	359,800	379,000	110
115	60.0	341.9	350,500	350,500	62.5	344.9	356,100	388,700	66.0	348.2	340,900	379,000	115
120	58.1	338.7	335,900	335,900	60.5	342.0	338,100	386,300	64.1	345.7	323,600	379,000	120
125	56.1	335.3	321,400	321,400	58.6	338.9	321,600	372,000	62.3	343.0	307,700	379,000	125
130	54.0	331.6	307,200	307,200	56.6	335.5	306,400	357,400	60.4	340.1	293,100	379,000	130
135	51.9	327.7	293,500	293,500	54.6	331.9	292,400	342,800	58.4	337.0	279,600	379,000	135
140	49.7	323.4	280,300	280,300	52.5	328.0	279,400	328,300	56.4	333.6	267,100	379,000	140
145	47.5	318.7	267,800	267,800	50.4	323.8	267,300	314,000	54.4	329.9	255,400	376,100	145
150	45.2	313.7	255,900	255,900	48.1	319.3	256,000	300,200	52.3	326.0	244,600	356,200	150
155	42.7	308.2	244,800	244,800	45.8	314.4	245,400	287,000	50.1	321.8	234,400	338,100	155
160	40.2	302.3	234,400	234,400	43.4	309.0	235,500	274,400	47.9	317.2	224,900	321,400	160
165	37.4	295.7	225,000	225,000	40.9	303.2	226,200	262,400	45.6	312.3	216,000	306,100	165
170	34.5	288.5	216,300	216,300	38.2	296.8	217,500	251,400	43.2	306.9	207,600	291,900	170
175	31.4	280.3	208,700	208,700	35.4	289.8	209,200	241,200	40.6	301.0	199,700	278,700	175
180	27.9	271.0	202,100	202,100	32.3	281.9	201,400	231,900	38.0	294.6	192,200	266,500	180
185	23.9	260.0	196,800	196,800	28.9	272.9	194,000	223,700	35.1	287.5	185,100	255,000	185
190	19.1	246.3	191,900	191,900	25.1	262.4	186,900	216,700	32.0	279.5	178,300	243,600	190
195	12.5	226.7	168,500	168,500	20.6	249.7	180,100	200,400	28.6	270.4	171,900	232,700	195
200					14.6	232.4	173,500	181,600	24.7	259.7	165,700	220,700	200
205									20.1	246.7	159,800	204,000	205
210									13.9	228.7	153,900	185,000	210
215													215
220													220
230													230
240													240
250													250

MLC650 VPC-MAX S-3

ASME B30.5



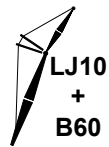
881,800 lb



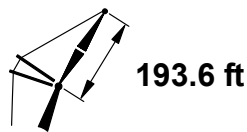
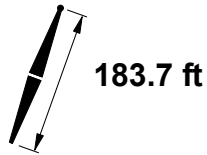
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	64.4	342.3	258,600	357,000									135
140	62.5	339.6	246,900	357,000									140
145	60.6	336.7	236,000	357,000									145
150	58.7	333.6	225,800	357,000									150
155	56.7	330.3	216,400	344,500									155
160	54.7	326.7	207,500	331,700									160
165	52.6	322.8	199,100	319,700	58.8	328.7	182,600	307,300					165
170	50.4	318.6	191,300	308,400	56.8	325.3	175,300	296,400					170
175	48.2	314.1	183,900	297,900	54.8	321.7	168,400	286,200					175
180	45.9	309.2	176,900	287,900	52.7	317.9	161,900	276,600					180
185	43.5	303.8	170,300	278,500	50.5	313.7	155,700	267,500					185
190	41.0	298.0	164,000	269,600	48.3	309.2	149,900	258,900	54.7	315.1	136,100	248,600	190
195	38.3	291.7	158,000	261,200	46.0	304.3	144,300	250,800	52.6	311.3	130,900	240,800	195
200	35.5	284.7	152,300	253,200	43.6	299.0	139,000	243,100	50.4	307.1	126,000	233,300	200
205	32.4	276.8	146,900	245,600	41.1	293.2	134,000	235,800	48.2	302.5	121,300	226,300	205
210	29.0	267.9	141,700	235,100	38.4	286.9	129,200	228,800	45.9	297.6	116,900	219,500	210
215	25.2	257.4	136,700	224,700	35.6	279.9	124,600	222,200	43.5	292.3	112,600	213,100	215
220	20.7	244.8	131,800	214,600	32.6	272.1	120,200	215,800	41.0	286.5	108,500	207,000	220
230					25.4	252.9	111,800	203,900	35.5	273.1	100,900	195,600	230
240					15.2	223.6	103,800	193,000	29.0	256.3	93,700	185,100	240
250									20.7	233.2	87,000	175,400	250

MLC650 VPC-MAX S-3

ASME B30.5



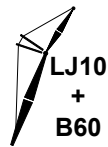
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	74.6	378.9	332,300	332,300									80
85	73.0	377.4	332,300	332,300									85
90	71.5	375.6	331,800	331,800									90
95	69.9	373.8	331,100	331,100	71.9	375.3	330,500	330,500					95
100	68.3	371.7	330,100	330,100	70.3	373.5	330,500	330,500					100
105	66.7	369.5	328,800	328,800	68.7	371.5	330,500	330,500					105
110	65.0	367.1	327,400	327,400	67.1	369.3	330,500	330,500					110
115	63.4	364.6	325,100	325,100	65.5	367.0	330,300	330,300	68.6	369.7	321,700	321,700	115
120	61.7	361.8	314,300	314,300	63.8	364.5	329,900	329,900	67.0	367.5	320,100	321,700	120
125	60.0	358.9	302,900	302,900	62.1	361.8	318,500	329,100	65.3	365.2	304,200	321,700	125
130	58.2	355.7	291,500	291,500	60.4	358.9	303,300	329,000	63.7	362.7	289,700	321,700	130
135	56.4	352.3	280,100	280,100	58.7	355.8	289,300	322,700	62.0	359.9	276,200	321,700	135
140	54.6	348.7	268,800	268,800	56.9	352.5	276,400	311,300	60.3	357.0	263,700	321,700	140
145	52.7	344.9	257,800	257,800	55.1	349.0	264,300	299,900	58.5	353.9	252,100	321,700	145
150	50.8	340.8	247,100	247,100	53.3	345.2	253,100	288,400	56.8	350.6	241,300	321,700	150
155	48.8	336.3	236,900	236,900	51.4	341.1	242,600	277,100	54.9	347.0	231,300	321,700	155
160	46.8	331.6	227,100	227,100	49.4	336.8	232,700	265,900	53.1	343.2	221,800	318,400	160
165	44.7	326.5	217,700	217,700	47.4	332.2	223,500	255,100	51.2	339.1	212,900	305,400	165
170	42.5	321.0	208,900	208,900	45.3	327.2	214,800	244,600	49.2	334.8	204,600	291,100	170
175	40.2	315.0	200,700	200,700	43.1	321.8	206,600	234,700	47.2	330.1	196,700	278,000	175
180	37.8	308.6	193,100	193,100	40.8	315.9	198,900	225,200	45.1	325.1	189,300	265,700	180
185	35.2	301.5	186,100	186,100	38.4	309.6	191,600	216,300	42.9	319.6	182,300	254,300	185
190	32.4	293.6	179,700	179,700	35.9	302.7	184,600	208,000	40.6	313.8	175,600	243,700	190
195	29.4	284.8	174,000	174,000	33.2	295.1	178,000	200,300	38.2	307.4	169,300	233,700	195
200	26.1	274.8	169,100	169,100	30.3	286.6	171,700	193,400	35.7	300.4	163,200	223,800	200
205	22.3	262.9	165,300	165,300	27.1	276.9	165,700	187,300	33.0	292.7	157,500	214,400	205
210	17.7	248.2	161,600	161,600	23.4	265.7	159,900	182,100	30.0	284.1	152,000	205,400	210
215	11.2	226.7	141,100	141,100	19.1	251.9	154,300	169,000	26.8	274.3	146,700	196,900	215
220					13.4	233.1	148,800	153,100	23.1	262.9	141,600	186,100	220
230									12.6	229.2	131,800	156,200	230
240													240
250													250
260													260
270													270

MLC650 VPC-MAX S-3

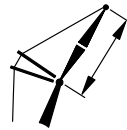
ASME B30.5



881,800 lb



183.7 ft

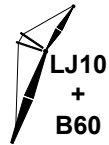


193.6 ft

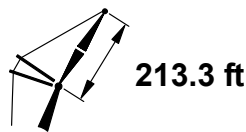
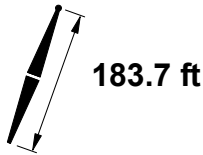
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80													80
85													85
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95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	63.9	359.2	232,200	301,100									145
150	62.2	356.6	222,100	301,100									150
155	60.5	353.7	212,600	301,100									155
160	58.8	350.6	203,800	301,100									160
165	57.0	347.3	195,500	301,100									165
170	55.2	343.7	187,700	301,100									170
175	53.3	340.0	180,400	294,700	58.8	345.6	164,400	278,300					175
180	51.4	335.9	173,500	284,800	57.1	342.3	158,000	273,200					180
185	49.5	331.6	166,900	275,500	55.3	338.8	151,900	264,200					185
190	47.4	327.0	160,700	266,600	53.4	335.1	146,100	255,700					190
195	45.3	322.0	154,800	258,300	51.5	331.0	140,600	247,600					195
200	43.2	316.6	149,200	250,300	49.6	326.7	135,400	240,000					200
205	40.9	310.8	143,800	242,800	47.5	322.1	130,400	232,700	53.3	328.5	117,400	222,900	205
210	38.5	304.5	138,700	235,200	45.5	317.1	125,700	225,800	51.4	324.4	113,000	216,300	210
215	36.0	297.6	133,900	225,800	43.3	311.8	121,200	219,200	49.5	320.1	108,800	209,900	215
220	33.3	290.0	129,200	216,400	41.0	306.0	116,800	212,900	47.4	315.4	104,800	203,900	220
230	27.2	271.9	120,400	198,800	36.1	292.8	108,700	201,200	43.2	305.1	97,300	192,600	230
240	19.3	247.0	112,100	181,600	30.5	276.9	101,200	190,400	38.5	293.0	90,300	182,200	240
250					23.8	256.2	94,200	180,500	33.3	278.5	83,900	172,700	250
260					13.9	224.5	87,400	171,200	27.2	260.4	77,900	163,900	260
270									19.2	235.5	72,100	155,600	270

MLC650 VPC-MAX S-3

ASME B30.5



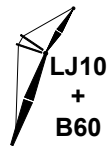
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	74.6	398.0	282,700	282,700									85
90	73.2	396.4	282,700	282,700									90
95	71.8	394.7	282,500	282,500									95
100	70.4	392.9	281,900	281,900	72.2	394.4	280,200	280,200					100
105	68.9	390.9	281,200	281,200	70.8	392.7	280,200	280,200					105
110	67.5	388.8	280,200	280,200	69.4	390.7	280,200	280,200					110
115	66.0	386.6	279,100	279,100	67.9	388.6	280,200	280,200					115
120	64.5	384.1	277,800	277,800	66.4	386.4	280,200	280,200	69.2	388.9	272,900	272,900	120
125	63.0	381.5	276,400	276,400	64.9	384.0	280,200	280,200	67.8	386.8	272,900	272,900	125
130	61.5	378.8	271,200	271,200	63.4	381.5	279,800	279,800	66.3	384.6	272,900	272,900	130
135	59.9	375.8	262,400	262,400	61.9	378.8	279,100	279,100	64.8	382.2	272,800	272,900	135
140	58.3	372.7	253,500	253,500	60.3	375.9	273,300	278,200	63.3	379.6	260,300	272,900	140
145	56.7	369.4	244,500	244,500	58.8	372.8	261,300	277,200	61.8	376.9	248,800	272,900	145
150	55.1	365.8	235,700	235,700	57.2	369.5	250,100	271,200	60.2	374.0	238,000	272,900	150
155	53.4	362.1	226,900	226,900	55.5	366.0	239,600	262,300	58.6	370.9	228,000	272,900	155
160	51.7	358.1	218,300	218,300	53.9	362.3	229,800	253,400	57.0	367.6	218,600	272,900	160
165	49.9	353.8	210,000	210,000	52.2	358.4	220,600	244,500	55.4	364.1	209,700	272,900	165
170	48.1	349.3	202,000	202,000	50.4	354.2	211,900	235,600	53.7	360.4	201,400	272,900	170
175	46.2	344.4	194,300	194,300	48.6	349.8	203,800	226,900	52.0	356.4	193,600	272,900	175
180	44.3	339.3	186,900	186,900	46.7	345.0	196,100	218,400	50.2	352.2	186,200	264,700	180
185	42.3	333.7	179,900	179,900	44.8	339.9	188,800	210,200	48.4	347.7	179,200	253,200	185
190	40.2	327.8	173,300	173,300	42.9	334.5	181,900	202,300	46.6	342.9	172,600	242,500	190
195	38.0	321.4	167,100	167,100	40.8	328.7	175,400	194,700	44.6	337.8	166,300	232,500	195
200	35.7	314.4	161,300	161,300	38.6	322.4	169,100	187,600	42.7	332.4	160,300	223,100	200
205	33.3	306.8	156,000	156,000	36.4	315.6	163,200	180,800	40.6	326.5	154,700	214,200	205
210	30.6	298.4	151,200	151,200	34.0	308.2	157,500	174,500	38.4	320.2	149,200	205,700	210
215	27.8	289.0	146,900	146,900	31.4	300.0	152,100	168,600	36.1	313.3	144,000	197,400	215
220	24.6	278.3	143,300	143,300	28.6	290.9	146,900	163,400	33.7	305.8	139,100	189,500	220
230	16.5	249.8	136,500	136,500	22.0	268.6	137,100	154,700	28.3	288.4	129,800	174,700	230
240					12.2	233.5	127,800	129,300	21.7	265.7	121,100	157,800	240
250									11.5	229.4	112,800	132,200	250
260													260
270													270
280													280
290													290

MLC650 VPC-MAX S-3

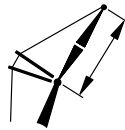
ASME B30.5



881,800 lb



183.7 ft

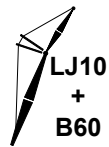


213.3 ft

	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	65.0	378.8	218,300	254,500									150
155	63.5	376.2	208,900	254,500									155
160	61.9	373.5	200,100	254,500									160
165	60.4	370.6	191,900	254,500									165
170	58.8	367.5	184,100	254,500									170
175	57.2	364.3	176,800	254,500									175
180	55.6	360.8	169,900	254,500									180
185	53.9	357.1	163,400	254,500	58.9	362.6	148,000	238,200					185
190	52.2	353.2	157,300	254,500	57.3	359.3	142,300	238,200					190
195	50.5	349.0	151,400	254,500	55.7	355.9	136,800	238,200					195
200	48.7	344.6	145,800	247,400	54.0	352.2	131,700	236,800					200
205	46.8	339.8	140,600	239,900	52.3	348.3	126,700	229,500					205
210	44.9	334.8	135,500	232,700	50.5	344.1	122,100	222,700					210
215	42.9	329.3	130,700	224,500	48.7	339.7	117,600	216,100	53.9	345.6	104,800	206,600	215
220	40.9	323.5	126,100	215,600	46.9	335.0	113,300	209,900	52.2	341.7	100,900	200,600	220
230	36.4	310.5	117,500	199,200	43.0	324.5	105,300	198,300	48.7	333.0	93,500	189,400	230
240	31.5	294.9	109,500	183,700	38.8	312.5	97,900	187,600	44.9	323.2	86,700	179,200	240
250	25.6	275.6	102,100	169,500	34.2	298.4	91,100	177,800	40.9	312.0	80,400	169,700	250
260	18.0	249.0	95,000	154,500	28.8	281.2	84,800	168,700	36.4	299.0	74,500	161,000	260
270					22.3	259.2	78,800	160,300	31.5	283.4	69,100	152,900	270
280					12.8	225.1	72,900	148,800	25.6	264.1	63,900	145,400	280
290									18.0	237.5	58,900	138,400	290

MLC650 VPC-MAX S-3

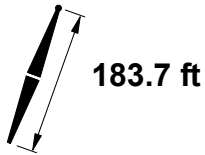
ASME B30.5



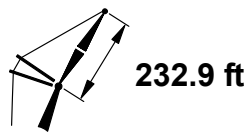
881,800 lb



360°



183.7 ft

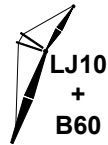


232.9 ft

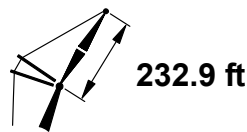
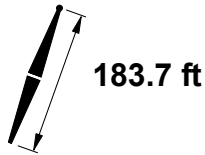
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	74.7	417.0	241,600	241,600									90
95	73.4	415.5	241,400	241,400									95
100	72.1	413.8	241,100	241,100									100
105	70.8	412.1	240,500	240,500	72.5	413.5	238,400	238,400					105
110	69.5	410.2	239,900	239,900	71.2	411.8	238,400	238,400					110
115	68.2	408.1	239,100	239,100	69.9	409.9	238,400	238,400					115
120	66.8	405.9	238,200	238,200	68.5	407.9	238,400	238,400					120
125	65.5	403.6	237,100	237,100	67.2	405.8	238,200	238,200	69.7	408.1	230,600	230,600	125
130	64.1	401.1	236,000	236,000	65.8	403.5	237,800	237,800	68.4	406.1	230,600	230,600	130
135	62.7	398.5	234,800	234,800	64.5	401.0	237,300	237,300	67.1	404.0	230,600	230,600	135
140	61.3	395.7	233,500	233,500	63.1	398.5	236,700	236,700	65.7	401.7	230,600	230,600	140
145	59.9	392.8	229,000	229,000	61.7	395.7	236,000	236,000	64.3	399.2	230,600	230,600	145
150	58.4	389.7	222,000	222,000	60.3	392.8	235,300	235,300	63.0	396.6	230,600	230,600	150
155	57.0	386.4	214,900	214,900	58.8	389.8	234,500	234,500	61.6	393.9	225,700	230,600	155
160	55.5	382.9	207,800	207,800	57.4	386.5	227,800	233,600	60.1	390.9	216,300	230,600	160
165	53.9	379.2	200,800	200,800	55.9	383.1	218,600	230,900	58.7	387.9	207,500	230,600	165
170	52.4	375.3	193,900	193,900	54.4	379.4	210,000	223,900	57.2	384.6	199,200	230,600	170
175	50.8	371.2	187,100	187,100	52.8	375.6	201,800	216,800	55.7	381.1	191,400	230,600	175
180	49.1	366.8	180,500	180,500	51.2	371.5	194,200	209,700	54.2	377.5	184,100	230,600	180
185	47.5	362.2	174,200	174,200	49.6	367.2	186,900	202,700	52.7	373.6	177,100	230,600	185
190	45.7	357.3	167,900	167,900	47.9	362.7	180,100	195,800	51.1	369.5	170,500	230,600	190
195	44.0	352.0	162,000	162,000	46.2	357.9	173,600	189,000	49.4	365.2	164,300	228,700	195
200	42.1	346.5	156,400	156,400	44.5	352.7	167,400	182,400	47.8	360.6	158,300	221,800	200
205	40.2	340.5	151,000	151,000	42.6	347.3	161,500	176,100	46.1	355.8	152,700	213,100	205
210	38.2	334.2	145,900	145,900	40.8	341.4	155,900	169,900	44.3	350.6	147,300	204,800	210
215	36.1	327.3	141,100	141,100	38.8	335.2	150,500	164,100	42.5	345.1	142,200	197,100	215
220	33.9	319.9	136,700	136,700	36.7	328.5	145,400	158,500	40.6	339.3	137,300	189,700	220
230	29.1	302.8	128,900	128,900	32.3	313.3	135,800	148,400	36.5	326.2	128,100	175,300	230
240	23.3	281.5	122,900	122,900	27.1	295.0	126,900	139,800	32.0	310.9	119,600	162,200	240
250	15.4	251.1	116,300	116,300	20.8	271.2	118,600	132,100	26.8	292.4	111,700	150,100	250
260					11.2	233.6	110,100	110,100	20.4	268.3	104,400	135,100	260
270									10.5	229.2	97,200	112,800	270
280													280
290													290
300													300
310													310

MLC650 VPC-MAX S-3

ASME B30.5



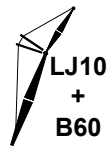
881,800 lb



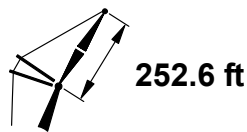
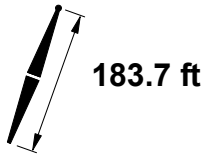
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160	64.5	395.8	197,500	214,600									160
165	63.1	393.2	189,300	214,600									165
170	61.7	390.5	181,600	214,600									170
175	60.3	387.6	174,300	214,600									175
180	58.9	384.5	167,500	214,600									180
185	57.4	381.3	161,000	214,600									185
190	55.9	377.8	154,800	214,600									190
195	54.4	374.2	149,000	214,600	58.9	379.6	134,100	198,900					195
200	52.9	370.4	143,500	214,600	57.5	376.3	129,000	198,900					200
205	51.3	366.3	138,200	214,600	56.0	372.9	124,100	198,900					205
210	49.6	362.0	133,200	214,600	54.5	369.3	119,500	198,900					210
215	48.0	357.5	128,400	214,600	52.9	365.5	115,000	198,900					215
220	46.3	352.7	123,900	214,300	51.3	361.4	110,800	198,900					220
230	42.7	342.1	115,300	198,200	48.1	352.6	102,900	196,100	52.9	358.9	90,700	182,800	230
240	38.8	330.0	107,500	183,900	44.6	342.7	95,600	185,500	49.6	350.5	84,000	176,900	240
250	34.6	316.1	100,200	170,100	40.9	331.5	88,900	175,800	46.3	341.2	77,800	167,500	250
260	29.9	299.6	93,500	157,500	36.9	318.6	82,600	166,800	42.7	330.6	72,100	158,900	260
270	24.3	279.0	87,100	145,800	32.4	303.5	76,800	158,500	38.8	318.5	66,700	150,900	270
280	16.9	250.7	81,100	132,600	27.3	285.3	71,400	150,800	34.6	304.6	61,700	143,500	280
290					21.1	261.9	66,200	141,100	29.9	288.0	57,000	136,600	290
300					11.8	225.4	61,100	127,900	24.2	267.5	52,500	130,100	300
310									16.9	239.2	48,200	123,900	310

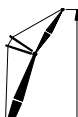
MLC650 VPC-MAX S-3

ASME B30.5



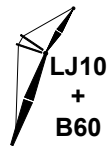
881,800 lb



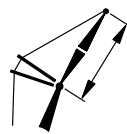
 85°					 83°				 80°					
 ft	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 ft	
95	74.7	436.1	207,100	207,100										95
100	73.6	434.6	206,800	206,800										100
105	72.4	432.9	206,400	206,400										105
110	71.2	431.2	205,800	205,800	72.7	432.6	204,000	204,000						110
115	70.0	429.3	205,100	205,100	71.5	430.9	203,900	203,900						115
120	68.7	427.3	204,300	204,300	70.3	429.1	203,700	203,700						120
125	67.5	425.2	203,500	203,500	69.1	427.1	203,500	203,500						125
130	66.3	423.0	202,600	202,600	67.9	425.0	203,200	203,200						130
135	65.0	420.6	201,700	201,700	66.6	422.8	202,700	202,700	69.0	425.3	197,200	197,200		135
140	63.7	418.1	200,600	200,600	65.4	420.5	202,200	202,200	67.7	423.2	197,200	197,200		140
145	62.5	415.5	199,600	199,600	64.1	418.0	201,700	201,700	66.5	421.0	197,200	197,200		145
150	61.2	412.7	198,400	198,400	62.8	415.4	201,000	201,000	65.2	418.7	197,200	197,200		150
155	59.8	409.7	197,300	197,300	61.5	412.7	200,300	200,300	64.0	416.2	197,200	197,200		155
160	58.5	406.6	193,400	193,400	60.2	409.8	199,600	199,600	62.7	413.6	197,200	197,200		160
165	57.2	403.4	187,800	187,800	58.9	406.7	198,800	198,800	61.4	410.8	197,200	197,200		165
170	55.8	399.9	182,100	182,100	57.5	403.5	198,000	198,000	60.1	407.9	195,600	197,200		170
175	54.4	396.3	176,500	176,500	56.2	400.1	197,100	197,100	58.8	404.8	187,800	197,200		175
180	53.0	392.5	171,000	171,000	54.8	396.5	190,900	196,300	57.4	401.6	180,500	197,200		180
185	51.5	388.5	165,500	165,500	53.4	392.8	183,600	190,700	56.0	398.2	173,600	197,200		185
190	50.0	384.2	160,100	160,100	51.9	388.8	176,800	185,000	54.6	394.6	167,000	196,900		190
195	48.5	379.8	154,800	154,800	50.4	384.6	170,300	179,400	53.2	390.8	160,800	196,600		195
200	46.9	375.0	149,700	149,700	48.9	380.2	164,100	173,900	51.8	386.8	154,900	196,200		200
205	45.3	370.1	144,800	144,800	47.4	375.6	158,300	168,300	50.3	382.6	149,300	195,800		205
210	43.7	364.8	140,000	140,000	45.8	370.7	152,700	163,000	48.8	378.2	143,900	195,400		210
215	42.0	359.2	135,500	135,500	44.2	365.5	147,400	157,700	47.2	373.5	138,800	194,300		215
220	40.2	353.3	131,100	131,100	42.5	360.0	142,300	152,600	45.6	368.6	133,900	187,000		220
230	36.5	340.2	123,000	123,000	38.9	348.0	132,800	142,900	42.3	357.9	124,800	173,500		230
240	32.4	325.0	116,000	116,000	35.1	334.2	124,000	134,100	38.7	345.7	116,500	160,800		240
250	27.7	307.0	110,000	110,000	30.8	318.1	115,900	126,300	34.9	331.9	108,700	149,000		250
260	22.1	284.4	105,400	105,400	25.8	298.7	108,400	119,600	30.5	315.7	101,500	138,200		260
270	14.4	252.2	97,800	97,800	19.7	273.6	101,300	111,700	25.5	296.1	94,800	128,100		270
280					10.3	233.4	92,200	92,200	19.3	270.6	88,500	114,500		280
290									9.6	228.8	82,300	94,800		290
300														300
310														310
320														320
330														330

MLC650 VPC-MAX S-3

ASME B30.5



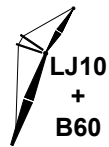
881,800 lb



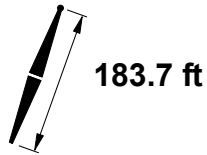
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170	64.1	412.8	177,600	183,000									170
175	62.9	410.2	170,400	183,000									175
180	61.6	407.4	163,500	183,000									180
185	60.3	404.5	157,100	183,000									185
190	58.9	401.5	151,000	183,000									190
195	57.6	398.2	145,200	183,000									195
200	56.2	394.9	139,700	183,000									200
205	54.8	391.3	134,500	183,000	59.0	396.5	120,000	168,700					205
210	53.4	387.5	129,500	183,000	57.6	393.3	115,400	168,700					210
215	51.9	383.6	124,800	183,000	56.3	389.9	111,000	168,700					215
220	50.5	379.4	120,200	183,000	54.9	386.4	106,800	168,700					220
230	47.4	370.4	111,800	183,000	52.0	378.7	99,000	168,700					230
240	44.2	360.3	104,000	181,100	49.0	370.2	91,800	168,700	53.4	376.0	79,900	154,100	240
250	40.8	349.0	96,800	168,200	45.9	360.7	85,100	168,700	50.5	367.9	73,800	154,100	250
260	37.1	336.2	90,200	156,200	42.6	350.0	79,000	163,800	47.4	358.9	68,100	154,100	260
270	33.0	321.4	84,000	144,800	39.1	338.0	73,300	155,600	44.2	348.8	62,800	147,800	270
280	28.5	303.9	78,200	134,300	35.2	324.3	67,900	147,900	40.8	337.5	57,900	140,400	280
290	23.0	282.2	72,700	124,500	30.9	308.4	62,900	140,300	37.1	324.7	53,300	133,600	290
300	15.9	252.2	67,400	112,700	26.0	289.1	58,200	130,200	33.0	309.9	49,000	127,200	300
310					20.0	264.4	53,700	120,600	28.5	292.4	44,900	121,200	310
320					10.8	225.4	49,200	108,700	23.0	270.7	41,000	115,500	320
330									15.9	240.7	37,200	110,100	330

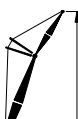
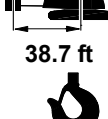
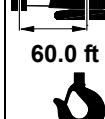
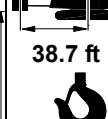
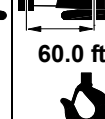
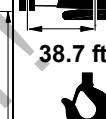
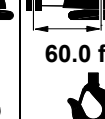
MLC650 VPC-MAX S-3

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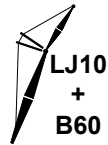
881,800 lb



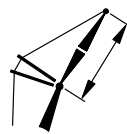
 85°					 83°					 80°					
 ft	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 ft		
100	74.8	455.1	177,000	177,000										100	
105	73.7	453.6	176,600	176,600										105	
110	72.6	452.0	176,200	176,200										110	
115	71.5	450.3	175,600	175,600	72.9	451.7	174,300	174,300						115	
120	70.4	448.5	175,000	175,000	71.8	450.0	174,100	174,100						120	
125	69.2	446.5	174,300	174,300	70.7	448.2	173,900	173,900						125	
130	68.1	444.5	173,600	173,600	69.5	446.3	173,600	173,600						130	
135	66.9	442.3	172,800	172,800	68.4	444.3	173,200	173,200						135	
140	65.8	440.0	171,900	171,900	67.3	442.2	172,800	172,800	69.4	444.5	168,500	168,500		140	
145	64.6	437.6	171,000	171,000	66.1	439.9	172,300	172,300	68.3	442.5	168,500	168,500		145	
150	63.4	435.1	170,200	170,200	64.9	437.5	171,700	171,700	67.2	440.4	168,500	168,500		150	
155	62.2	432.4	169,200	169,200	63.8	435.0	171,100	171,100	66.0	438.1	168,500	168,500		155	
160	61.0	429.6	168,300	168,300	62.6	432.4	170,500	170,500	64.8	435.7	168,500	168,500		160	
165	59.8	426.7	167,300	167,300	61.4	429.6	169,800	169,800	63.7	433.2	168,500	168,500		165	
170	58.6	423.6	166,300	166,300	60.2	426.7	169,100	169,100	62.5	430.5	168,400	168,400		170	
175	57.3	420.3	164,700	164,700	58.9	423.7	168,400	168,400	61.3	427.8	168,200	168,200		175	
180	56.1	416.9	160,200	160,200	57.7	420.5	167,700	167,700	60.0	424.8	167,900	167,900		180	
185	54.8	413.4	155,800	155,800	56.4	417.1	166,900	166,900	58.8	421.8	167,700	167,700		185	
190	53.4	409.6	151,400	151,400	55.1	413.6	166,200	166,200	57.6	418.6	164,800	167,300		190	
195	52.1	405.7	146,900	146,900	53.8	409.9	165,400	165,400	56.3	415.2	158,600	167,000		195	
200	50.7	401.6	142,600	142,600	52.5	406.0	162,100	163,700	55.0	411.7	152,700	166,600		200	
205	49.4	397.2	138,300	138,300	51.1	402.0	156,300	159,300	53.7	407.9	147,100	166,200		205	
210	47.9	392.7	134,200	134,200	49.7	397.7	150,800	154,800	52.4	404.0	141,800	165,800		210	
215	46.5	387.9	130,100	130,100	48.3	393.2	145,500	150,500	51.0	400.0	136,700	165,400		215	
220	45.0	382.9	126,200	126,200	46.9	388.5	140,400	146,100	49.6	395.7	131,900	164,900		220	
230	41.9	372.0	118,600	118,600	43.9	378.3	130,900	137,600	46.7	386.4	122,800	164,100		230	
240	38.5	359.7	111,600	111,600	40.7	366.9	122,300	129,500	43.7	376.2	114,500	159,600		240	
250	35.0	345.9	105,400	105,400	37.3	354.1	114,300	122,000	40.5	364.7	106,800	149,000		250	
260	31.0	329.9	99,800	99,800	33.6	339.6	106,900	115,100	37.1	351.9	99,800	138,400		260	
270	26.5	310.9	95,100	95,100	29.4	322.7	100,000	109,000	33.4	337.2	93,200	128,500		270	
280	21.0	287.1	91,700	91,700	24.6	302.2	93,500	103,800	29.2	320.2	87,000	119,300		280	
290	13.6	253.1	82,900	82,900	18.7	275.8	87,400	95,400	24.4	299.5	81,200	110,700		290	
300					9.4	232.9	77,300	77,300	18.4	272.7	75,700	98,000		300	
310									8.7	228.0	70,200	80,300		310	
320														320	
330														330	
340														340	
350														350	

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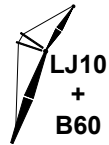
881,800 lb



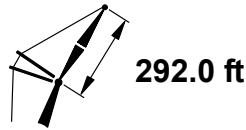
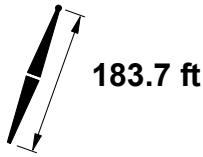
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175	65.0	432.3	156,300	156,300									175
180	63.8	429.8	156,300	156,300									180
185	62.6	427.1	154,500	156,300									185
190	61.4	424.4	148,400	156,300									190
195	60.2	421.5	142,600	156,300									195
200	59.0	418.4	137,200	156,300									200
205	57.7	415.2	132,000	156,300									205
210	56.4	411.9	127,000	156,300									210
215	55.2	408.4	122,300	156,300	59.0	413.5	108,300	145,000					215
220	53.9	404.7	117,800	156,300	57.8	410.3	104,100	145,000					220
230	51.2	396.7	109,400	156,300	55.2	403.4	96,400	145,000					230
240	48.4	388.0	101,700	156,300	52.6	395.9	89,200	145,000					240
250	45.4	378.3	94,600	156,300	49.9	387.6	82,600	145,000	53.9	393.2	71,000	134,400	250
260	42.4	367.6	88,000	155,500	47.0	378.4	76,600	145,000	51.2	385.2	65,400	134,400	260
270	39.1	355.6	81,900	144,800	44.0	368.3	70,900	145,000	48.4	376.5	60,200	134,400	270
280	35.5	342.0	76,300	134,500	40.8	357.0	65,700	145,000	45.4	366.8	55,400	134,400	280
290	31.6	326.4	70,900	125,000	37.4	344.2	60,800	138,900	42.4	356.1	50,900	131,500	290
300	27.2	308.0	65,900	116,100	33.7	329.8	56,200	130,400	39.1	344.1	46,700	125,200	300
310	22.0	285.1	61,100	107,700	29.6	312.9	51,800	121,200	35.5	330.5	42,700	119,300	310
320	15.0	253.5	56,500	96,700	24.9	292.7	47,700	112,600	31.6	314.9	38,900	113,700	320
330					19.0	266.6	43,700	104,300	27.2	296.4	35,300	108,400	330
340					10.0	225.1	39,700	93,300	22.0	273.6	31,900	103,500	340
350									15.0	241.9	28,500	98,700	350

MLC650 VPC-MAX S-3

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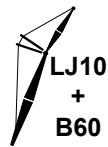
881,800 lb



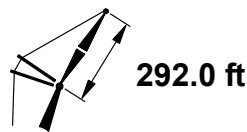
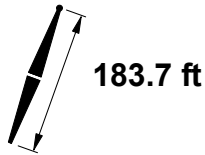
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105	74.8	474.2	151,200	151,200									105
110	73.8	472.7	150,700	150,700									110
115	72.8	471.1	150,200	150,200									115
120	71.7	469.4	149,600	149,600									120
125	70.7	467.6	148,900	148,900	72.0	469.1	148,100	148,100					125
130	69.6	465.7	148,200	148,200	71.0	467.3	147,800	147,800					130
135	68.6	463.7	147,400	147,400	69.9	465.5	147,300	147,300					135
140	67.5	461.6	146,600	146,600	68.9	463.5	146,800	146,800					140
145	66.5	459.4	145,800	145,800	67.8	461.4	146,300	146,300	69.8	463.7	142,700	142,700	145
150	65.4	457.1	145,000	145,000	66.7	459.3	145,700	145,700	68.8	461.7	142,600	142,600	150
155	64.3	454.6	144,100	144,100	65.7	457.0	145,100	145,100	67.7	459.6	142,500	142,500	155
160	63.2	452.1	143,200	143,200	64.6	454.6	144,500	144,500	66.6	457.5	142,400	142,400	160
165	62.1	449.4	142,300	142,300	63.5	452.0	143,800	143,800	65.6	455.1	142,100	142,100	165
170	60.9	446.6	141,400	141,400	62.4	449.4	143,100	143,100	64.5	452.7	141,900	141,900	170
175	59.8	443.6	140,500	140,500	61.2	446.6	142,400	142,400	63.4	450.2	141,600	141,600	175
180	58.6	440.6	139,600	139,600	60.1	443.7	141,700	141,700	62.3	447.5	141,200	141,200	180
185	57.5	437.3	138,600	138,600	59.0	440.6	141,000	141,000	61.1	444.7	140,800	140,800	185
190	56.3	434.0	137,700	137,700	57.8	437.5	140,200	140,200	60.0	441.8	140,400	140,400	190
195	55.1	430.4	136,700	136,700	56.6	434.1	139,500	139,500	58.9	438.7	140,000	140,000	195
200	53.9	426.7	133,200	133,200	55.4	430.6	138,700	138,700	57.7	435.5	139,600	139,600	200
205	52.6	422.9	129,700	129,700	54.2	427.0	138,000	138,000	56.5	432.2	139,100	139,100	205
210	51.4	418.9	126,200	126,200	53.0	423.2	137,200	137,200	55.3	428.7	138,000	138,000	210
215	50.1	414.6	122,800	122,800	51.7	419.2	136,500	136,500	54.1	425.0	132,900	138,100	215
220	48.8	410.2	119,300	119,300	50.4	415.1	135,800	135,800	52.9	421.2	128,100	137,700	220
230	46.1	400.8	112,700	112,700	47.8	406.1	127,400	130,000	50.3	413.0	119,100	136,700	230
240	43.2	390.3	106,400	106,400	45.1	396.3	118,700	123,100	47.7	404.1	110,800	135,700	240
250	40.2	378.8	100,600	100,600	42.2	385.5	110,800	116,500	44.9	394.2	103,200	134,800	250
260	37.0	365.9	95,100	95,100	39.1	373.5	103,400	110,200	42.0	383.4	96,100	134,000	260
270	33.6	351.3	90,100	90,100	35.8	360.0	96,600	104,200	39.0	371.3	89,600	126,200	270
280	29.7	334.5	85,800	85,800	32.2	344.7	90,200	98,800	35.7	357.7	83,500	117,200	280
290	25.4	314.6	82,100	82,100	28.2	326.9	84,300	94,000	32.1	342.3	77,800	108,900	290
300	20.1	289.7	79,400	79,400	23.6	305.5	78,600	89,900	28.0	324.4	72,500	101,100	300
310	12.8	253.8	68,100	68,100	17.8	277.8	73,300	79,400	23.4	302.8	67,400	93,600	310
320					8.6	232.1	62,600	62,600	17.5	274.6	62,600	81,800	320
330									7.9	226.8	57,700	65,800	330
340													340
350													350
360													360
370													370

MLC650 VPC-MAX S-3

ASME B30.5



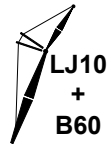
881,800 lb



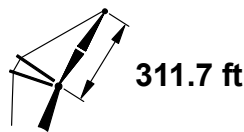
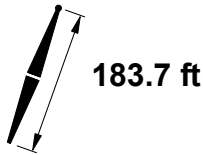
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185	64.6	449.3	131,700	131,700									185
190	63.5	446.8	131,700	131,700									190
195	62.4	444.1	131,700	131,700									195
200	61.3	441.3	131,700	131,700									200
205	60.1	438.4	127,900	131,700									205
210	59.0	435.4	122,900	131,700									210
215	57.8	432.2	118,300	131,700									215
220	56.7	428.9	113,800	131,700									220
230	54.3	421.8	105,400	131,700	57.9	427.3	92,100	121,200					230
240	51.8	414.0	97,700	131,700	55.5	420.5	85,000	121,200					240
250	49.2	405.5	90,700	131,700	53.1	413.1	78,500	121,200					250
260	46.5	396.2	84,200	131,700	50.6	404.9	72,500	121,200	54.2	410.3	61,100	111,300	260
270	43.7	385.9	78,100	131,700	47.9	396.1	66,900	121,200	51.8	402.5	56,000	111,300	270
280	40.7	374.5	72,500	131,700	45.2	386.3	61,700	121,200	49.2	394.0	51,200	111,300	280
290	37.6	361.8	67,200	122,700	42.3	375.5	56,800	121,200	46.5	384.6	46,700	111,300	290
300	34.1	347.5	62,300	114,100	39.2	363.6	52,300	121,200	43.7	374.4	42,500	111,300	300
310	30.4	331.1	57,700	106,000	36.0	350.2	48,000	119,000	40.7	363.0	38,600	111,300	310
320	26.1	311.8	53,300	98,300	32.4	334.9	44,000	110,600	37.5	350.3	34,900	110,500	320
330	21.0	287.8	49,100	91,100	28.4	317.3	40,200	102,800	34.1	336.0	31,400	105,300	330
340	14.2	254.5	45,000	80,900	23.8	296.1	36,500	95,300	30.4	319.6	28,100	100,400	340
350					18.1	268.7	33,000	88,200	26.1	300.3	24,900	95,800	350
360					9.2	224.5	29,400	77,900	21.0	276.3	21,900	91,400	360
370									14.2	243.0		84,900	370

MLC650 VPC-MAX S-3

ASME B30.5



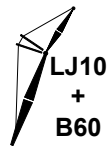
881,800 lb



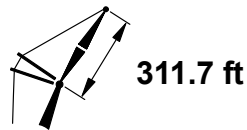
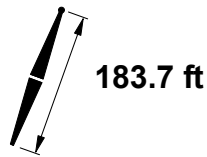
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
110	74.9	493.2	130,200	130,200									110
115	73.9	491.7	129,700	129,700									115
120	72.9	490.2	129,200	129,200									120
125	72.0	488.5	128,600	128,600									125
130	71.0	486.7	127,900	127,900									130
135	70.0	484.9	127,200	127,200	72.2	488.2	127,300	127,300					135
140	69.0	482.9	126,500	126,500	71.3	486.5	126,900	126,900					140
145	68.0	480.9	125,800	125,800	70.3	484.6	126,400	126,400					145
150	67.0	478.7	125,000	125,000	69.3	482.7	125,900	125,900					150
155	66.0	476.5	124,300	124,300	68.3	480.7	125,400	125,400					155
160	65.0	474.1	123,500	123,500	67.3	478.6	124,800	124,800	69.2	480.9	122,100	122,100	160
165	64.0	471.6	122,700	122,700	66.3	476.3	124,200	124,200	68.2	478.9	121,900	121,900	165
170	62.9	469.1	121,900	121,900	65.3	474.0	123,600	123,600	67.2	476.8	121,700	121,700	170
175	61.9	466.4	121,000	121,000	64.3	471.6	123,000	123,000	66.2	474.5	121,400	121,400	175
180	60.8	463.5	120,200	120,200	63.2	469.0	122,300	122,300	65.2	472.2	121,100	121,100	180
185	59.8	460.6	119,400	119,400	62.2	466.3	121,700	121,700	64.2	469.7	120,800	120,800	185
190	58.7	457.5	118,600	118,600	61.1	463.5	121,000	121,000	63.1	467.2	120,400	120,400	190
195	57.6	454.3	117,800	117,800	60.1	460.6	120,300	120,300	62.1	464.5	120,000	120,000	195
200	56.5	451.0	117,000	117,000	59.0	457.6	119,600	119,600	61.0	461.7	119,600	119,600	200
205	55.4	447.5	116,100	116,100	57.9	454.4	119,000	119,000	60.0	458.8	119,200	119,200	205
210	54.2	443.8	115,300	115,300	56.8	451.1	118,300	118,300	58.9	455.7	118,700	118,700	210
215	53.1	440.1	114,200	114,200	55.7	447.7	117,600	117,600	57.8	452.5	118,300	118,300	215
220	51.9	436.1	111,400	111,400	54.6	444.1	116,900	116,900	56.7	449.2	117,800	117,800	220
230	49.5	427.7	105,800	105,800	53.4	440.3	116,200	116,200	55.6	445.7	117,300	117,300	230
240	47.0	418.5	100,300	100,300	51.1	432.4	114,900	114,900	53.3	438.4	116,400	116,400	240
250	44.4	408.5	95,100	95,100	48.6	423.7	113,600	113,600	50.9	430.4	108,700	115,400	250
260	41.7	397.5	90,100	90,100	46.1	414.2	108,900	109,500	48.5	421.6	101,100	114,500	260
270	38.8	385.3	85,400	85,400	43.4	403.8	101,500	104,000	46.0	412.1	94,100	113,600	270
280	35.7	371.7	81,100	81,100	40.7	392.4	94,800	98,800	43.3	401.7	87,600	112,700	280
290	32.3	356.4	77,200	77,200	37.7	379.8	88,500	93,700	40.5	390.2	81,600	112,000	290
300	28.6	338.9	73,700	73,700	34.5	365.6	82,600	89,100	37.5	377.5	75,900	108,200	300
310	24.4	318.1	70,800	70,800	31.0	349.6	77,000	84,800	34.3	363.3	70,700	100,500	310
320	19.2	292.0	68,800	68,800	27.2	331.0	71,800	80,900	30.9	347.2	65,700	93,400	320
330	12.0	254.2	56,500	56,500	22.6	308.6	66,900	77,800	27.0	328.4	61,000	86,600	330
340					17.0	279.6	62,200	66,800	22.4	305.8	56,600	80,100	340
350					7.9	230.9	51,100	51,100	16.7	276.3	52,300	69,200	350
360									7.1	225.2	47,900	54,400	360
370													370
380													380
390													390

MLC650 VPC-MAX S-3

ASME B30.5



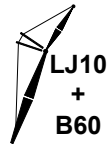
881,800 lb



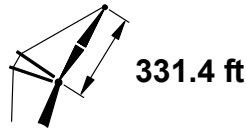
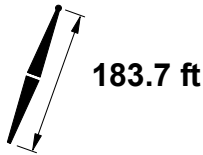
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195	64.3	466.3	112,300	112,300									195
200	63.3	463.7	112,300	112,300									200
205	62.2	461.1	112,300	112,300									205
210	61.2	458.3	112,300	112,300									210
215	60.1	455.4	112,300	112,300									215
220	59.0	452.3	111,300	112,300									220
230	56.8	445.9	103,000	112,300									230
240	54.6	438.9	95,400	112,300	58.0	444.2	82,400	102,800					240
250	52.3	431.2	88,400	112,300	55.8	437.5	75,900	102,800					250
260	49.9	422.9	81,900	112,300	53.5	430.2	69,900	102,800					260
270	47.4	413.8	75,900	112,100	51.2	422.3	64,400	102,800	54.6	427.3	53,300	93,800	270
280	44.8	403.9	70,300	111,800	48.7	413.6	59,200	102,800	52.3	419.7	48,500	93,800	280
290	42.1	393.1	65,100	111,600	46.2	404.2	54,400	102,800	49.9	411.4	44,100	93,800	290
300	39.2	381.1	60,200	111,400	43.6	393.8	50,000	102,800	47.4	402.3	40,000	93,800	300
310	36.2	367.8	55,600	105,300	40.8	382.4	45,700	102,800	44.8	392.4	36,100	93,800	310
320	32.9	352.8	51,300	97,900	37.8	369.9	41,800	102,800	42.1	381.6	32,500	93,800	320
330	29.2	335.6	47,200	90,900	34.6	355.8	38,000	102,100	39.2	369.6	29,100	93,800	330
340	25.1	315.4	43,300	84,300	31.2	339.9	34,500	94,900	36.2	356.3	25,800	93,800	340
350	20.1	290.4	39,600	77,900	27.3	321.4	31,100	88,100	32.9	341.3	22,700	93,800	350
360	13.4	255.4	36,000	68,500	22.8	299.2	27,800	81,700	29.2	324.1		89,600	360
370					17.3	270.5	24,700	75,400	25.1	303.9		85,100	370
380					8.4	223.6	21,400	65,900	20.1	278.8		78,800	380
390									13.4	243.8		72,500	390

MLC650 VPC-MAX S-3

ASME B30.5



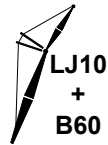
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.9	512.3	111,900	111,900									115
120	74.0	510.8	111,200	111,200									120
125	73.1	509.2	110,700	110,700									125
130	72.2	507.6	110,000	110,000									130
135	71.2	505.9	109,400	109,400	72.4	507.3	108,900	108,900					135
140	70.3	504.0	108,700	108,700	71.5	505.6	108,400	108,400					140
145	69.4	502.1	108,000	108,000	70.6	503.8	107,900	107,900					145
150	68.5	500.1	107,300	107,300	69.7	501.9	107,400	107,400					150
155	67.5	498.0	106,600	106,600	68.7	499.9	106,800	106,800					155
160	66.6	495.8	105,900	105,900	67.8	497.8	106,200	106,200	69.6	500.1	104,000	104,000	160
165	65.6	493.5	105,100	105,100	66.9	495.7	105,600	105,600	68.6	498.1	103,700	103,700	165
170	64.7	491.1	104,400	104,400	65.9	493.4	105,000	105,000	67.7	496.0	103,300	103,300	170
175	63.7	488.6	103,600	103,600	64.9	491.0	104,400	104,400	66.8	493.9	103,000	103,000	175
180	62.7	486.0	102,800	102,800	64.0	488.6	103,800	103,800	65.8	491.6	102,600	102,600	180
185	61.8	483.3	102,100	102,100	63.0	486.0	103,200	103,200	64.9	489.2	102,300	102,300	185
190	60.8	480.5	101,300	101,300	62.0	483.3	102,500	102,500	63.9	486.7	101,800	101,800	190
195	59.8	477.5	100,600	100,600	61.0	480.5	101,900	101,900	62.9	484.1	101,400	101,400	195
200	58.7	474.5	99,800	99,800	60.0	477.6	101,300	101,300	61.9	481.4	101,000	101,000	200
205	57.7	471.3	99,100	99,100	59.0	474.6	100,600	100,600	60.9	478.6	100,600	100,600	205
210	56.7	468.0	98,400	98,400	58.0	471.4	100,000	100,000	59.9	475.7	100,200	100,200	210
215	55.6	464.5	97,600	97,600	57.0	468.1	99,400	99,400	58.9	472.7	99,700	99,700	215
220	54.6	460.9	96,900	96,900	55.9	464.7	98,700	98,700	57.9	469.5	99,300	99,300	220
230	52.4	453.3	95,500	95,500	53.8	457.5	97,500	97,500	55.8	462.8	98,300	98,300	230
240	50.2	445.1	92,700	92,700	51.6	449.6	96,300	96,300	53.7	455.5	97,400	97,400	240
250	47.8	436.1	88,300	88,300	49.3	441.1	95,100	95,100	51.5	447.6	96,500	96,500	250
260	45.4	426.4	84,000	84,000	47.0	431.9	93,900	93,900	49.2	439.1	90,500	95,600	260
270	42.9	415.9	79,400	79,400	44.5	421.9	91,300	91,600	46.9	429.9	84,000	94,700	270
280	40.3	404.3	75,800	75,800	42.0	411.0	85,100	87,500	44.4	419.8	78,000	93,900	280
290	37.5	391.5	72,100	72,100	39.3	399.0	79,200	83,300	41.8	408.9	72,400	93,200	290
300	34.5	377.3	68,700	68,700	36.4	385.8	73,700	79,300	39.1	396.8	67,200	91,000	300
310	31.2	361.4	65,500	65,500	33.3	371.0	68,600	75,700	36.3	383.5	62,300	84,800	310
320	27.6	343.0	62,800	62,800	29.9	354.3	63,700	70,000	33.2	368.7	57,700	78,600	320
330	23.5	321.4	58,500	58,500	26.2	334.9	59,100	63,900	29.8	351.8	53,300	72,200	330
340	18.4	294.1	52,900	52,900	21.8	311.6	54,800	58,000	26.0	332.3	49,200	66,000	340
350	11.4	254.4	44,700	44,700	16.3	281.2	50,600	52,400	21.5	308.7	45,200	59,900	350
360					7.1	229.4	39,300	39,300	15.9	277.9	41,400	54,100	360
370									6.3	223.1	37,400	42,700	370
380													380
390													390
400													400
410													410

MLC650 VPC-MAX S-3

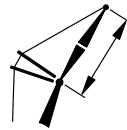
ASME B30.5



881,800 lb



183.7 ft

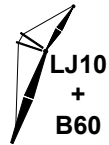


331.4 ft

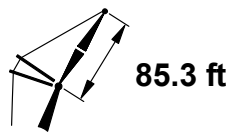
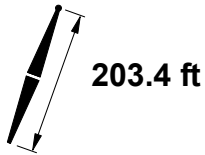
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200	65.0	485.8	94,700	94,700									200
205	64.0	483.3	94,700	94,700									205
210	63.0	480.7	94,700	94,700									210
215	62.1	478.0	94,700	94,700									215
220	61.1	475.2	94,700	94,700									220
230	59.1	469.3	94,700	94,700									230
240	57.0	462.9	91,500	94,500									240
250	54.9	455.9	84,500	94,300	58.1	461.2	71,800	86,200					250
260	52.7	448.4	78,000	93,900	56.0	454.5	65,900	86,200					260
270	50.5	440.3	72,100	93,600	53.9	447.3	60,400	86,200					270
280	48.2	431.4	66,500	93,200	51.7	439.5	55,300	86,200	54.9	444.4	44,300	78,000	280
290	45.8	421.8	61,300	92,900	49.4	431.0	50,500	86,200	52.7	436.9	40,000	78,000	290
300	43.3	411.4	56,500	92,600	47.1	421.9	46,000	86,200	50.5	428.7	35,900	78,000	300
310	40.7	400.0	52,000	92,300	44.6	411.9	41,900	86,200	48.2	419.9	32,100	78,000	310
320	37.9	387.4	47,700	91,700	42.1	401.0	37,900	86,200	45.8	410.3	28,500	78,000	320
330	34.9	373.5	43,700	85,500	39.4	389.1	34,300	86,200	43.3	399.9	25,100	78,000	330
340	31.7	357.8	39,900	79,200	36.5	375.9	30,800	86,200	40.7	388.5	21,900	78,000	340
350	28.2	339.9	36,300	72,800	33.4	361.2	27,400	84,300	37.9	375.9		78,000	350
360	24.1	318.8	32,800	66,400	30.1	344.5	24,300	78,200	34.9	362.0		78,000	360
370	19.3	292.7	29,500	60,100	26.3	325.3	21,300	71,800	31.7	346.3		78,000	370
380	12.7	256.0	26,200	54,500	22.0	302.1		65,500	28.2	328.4		76,000	380
390					16.5	272.2		59,600	24.1	307.3		70,000	390
400					7.7	222.4		53,500	19.3	281.2		64,000	400
410									12.7	244.5		58,600	410

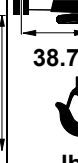
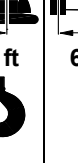
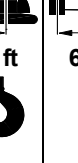
MLC650 VPC-MAX S-3

ASME B30.5



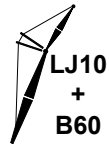
881,800 lb



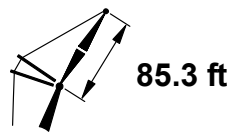
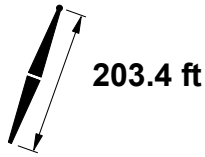
	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55	73.1	293.5	689,500 c	728,600 c									55
60	69.5	291.5	665,600 c	716,200 c									60
65	65.8	289.1	643,200 c	692,200 c	71.0	291.5	636,400 c	734,700 c					65
70	61.9	286.3	614,800 b	668,100 b	67.3	289.3	597,300 c	714,900 c					70
75	57.9	283.1	567,700 b	644,800 b	63.6	286.7	551,500 b	691,600 b					75
80	53.7	279.3	526,700	622,500	59.6	283.6	511,700 b	668,300 b	67.7	287.8	489,300 b	729,900 b	80
85	49.3	274.9	490,800	587,200	55.5	280.1	476,800 b	645,700 b	64.0	285.2	455,900 b	710,000 b	85
90	44.4	269.7	458,900	553,300	51.1	275.9	446,000	624,100	60.1	282.2	426,400 b	685,300 b	90
95	39.1	263.4	430,500	523,400	46.5	271.1	418,500	604,100	56.0	278.7	400,100 b	652,000 b	95
100	32.9	255.7	405,000	483,300	41.4	265.3	393,700	573,000	51.6	274.7	376,600	614,100	100
105	25.3	245.5	381,600	405,300	35.6	258.3	371,300	530,200	47.0	269.9	355,300	580,200	105
110	13.3	228.4	317,600	317,600	28.7	249.3	350,800	449,400	41.9	264.2	335,900	549,600	110
115					19.3	236.3	331,800	367,700	36.2	257.4	318,100	521,900	115
120									29.5	248.7	301,800	476,500	120
125									20.6	236.3	286,400	393,100	125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175

MLC650 VPC-MAX S-3

ASME B30.5



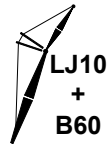
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
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155													155
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170													170
175													175

MLC650 VPC-MAX S-3

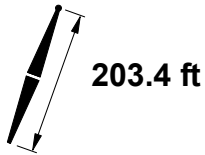
ASME B30.5



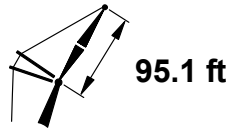
881,800 lb



360°



203.4 ft



95.1 ft

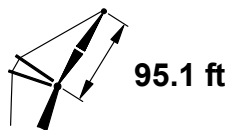
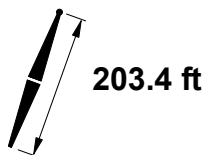
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55	74.9	303.8	669,100 c	669,100 c									55
60	71.7	302.1	652,200 c	666,700 c									60
65	68.5	300.0	630,500 c	661,200 c									65
70	65.1	297.6	610,000 b	645,200 b	69.8	300.1	594,600 b	673,000 b					70
75	61.7	294.8	565,400 b	623,600 b	66.5	297.8	548,900 b	667,500 b					75
80	58.1	291.6	524,500	600,100	63.1	295.1	509,200 b	646,600 b					80
85	54.4	287.9	488,700	565,900	59.6	292.1	474,400 b	625,700 b	66.9	296.3	453,000 b	676,200 b	85
90	50.4	283.6	457,100	533,300	55.9	288.6	443,700	605,500	63.5	293.7	423,600 b	664,500 b	90
95	46.2	278.8	428,800	503,100	52.1	284.6	416,300	586,100	60.0	290.7	397,400 b	645,700 b	95
100	41.7	273.1	403,500	475,800	48.0	280.0	391,700	554,200	56.3	287.3	374,000	611,200	100
105	36.6	266.3	380,600	452,100	43.6	274.7	369,500	523,800	52.5	283.3	352,800	577,400	105
110	30.8	258.0	359,700	431,500	38.8	268.4	349,400	496,400	48.4	278.8	333,600	547,000	110
115	23.5	247.0	340,400	363,900	33.3	260.8	330,900	472,900	44.1	273.5	316,100	519,400	115
120	11.8	228.3	287,100	287,100	26.7	251.1	313,800	404,400	39.3	267.4	300,000	494,300	120
125					17.8	237.1	297,800	332,900	33.9	259.9	285,100	471,300	125
130									27.5	250.6	271,200	429,400	130
135									19.0	237.2	258,100	356,400	135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185

MLC650 VPC-MAX S-3

ASME B30.5



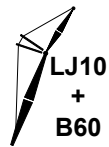
881,800 lb



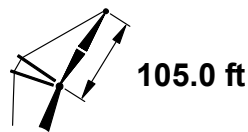
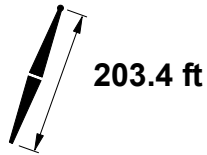
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110	61.6	288.0	307,200	526,500									110
115	58.0	284.8	291,100	499,900									115
120	54.3	281.1	276,300	475,700									120
125	50.4	276.8	262,700	453,600									125
130	46.1	271.9	250,100	433,300	59.4	280.4	228,600	416,800					130
135	41.6	266.2	238,400	414,600	55.7	276.9	217,900	398,800					135
140	36.5	259.4	227,500	397,300	51.9	272.9	208,000	382,200					140
145	30.6	251.1	217,200	381,200	47.8	268.3	198,700	366,700					145
150	23.3	240.0	207,500	366,200	43.4	262.9	190,000	352,400					150
155	11.5	221.0	197,800	332,000	38.5	256.5	181,800	338,900	52.9	267.0	164,800	325,900	155
160					33.0	248.9	174,000	326,400	48.9	262.5	157,800	313,900	160
165					26.3	239.0	166,600	314,500	44.6	257.3	151,200	302,500	165
170					17.1	224.6	159,300	303,300	39.8	251.3	144,900	291,900	170
175									34.5	244.0	138,900	281,900	175
180									28.3	234.9	133,200	272,400	180
185									20.1	222.2	127,500	263,300	185

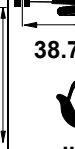
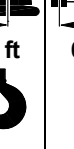
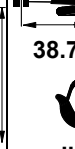
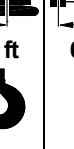
MLC650 VPC-MAX S-3

ASME B30.5



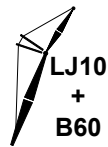
881,800 lb



	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	73.5	312.5	614,400 c	614,400 c									60
65	70.6	310.7	611,900 b	611,900 b									65
70	67.6	308.5	594,400 b	606,400 b	71.8	310.6	588,100 b	618,700 b					70
75	64.6	306.1	564,200 b	599,100 b	68.9	308.6	547,400 b	618,600 b					75
80	61.5	303.3	523,500 b	576,000 b	65.9	306.3	507,800 b	615,900 b					80
85	58.2	300.1	487,700	545,400	62.8	303.6	473,200 b	607,100 b	69.2	307.1	451,400 b	617,400 b	85
90	54.9	296.4	456,200	515,400	59.6	300.6	442,500	588,400	66.2	304.8	422,100 b	617,400 b	90
95	51.4	292.4	428,100	486,700	56.3	297.1	415,200	567,100	63.1	302.2	396,000 b	617,400 b	95
100	47.6	287.7	402,900	459,800	52.8	293.3	390,700	537,300	59.9	299.2	372,600	609,200	100
105	43.6	282.4	380,100	435,100	49.2	288.8	368,700	508,400	56.6	295.8	351,500	575,600	105
110	39.3	276.2	359,400	413,200	45.3	283.8	348,600	481,200	53.2	292.0	332,400	545,300	110
115	34.5	268.9	340,500	394,200	41.2	278.0	330,400	456,100	49.6	287.6	315,000	517,800	115
120	28.9	260.0	323,200	379,200	36.6	271.3	313,600	433,700	45.8	282.7	299,000	492,800	120
125	22.0	248.3	307,000	331,900	31.4	263.1	298,100	414,800	41.6	277.0	284,400	469,900	125
130	10.5	227.9	261,700	261,700	25.1	252.8	283,700	367,600	37.1	270.3	270,800	448,900	130
135					16.4	237.7	270,000	304,100	32.0	262.3	258,100	429,600	135
140									25.8	252.3	246,300	390,600	140
145									17.6	238.0	234,900	326,000	145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195

MLC650 VPC-MAX S-3

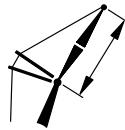
ASME B30.5



881,800 lb



203.4 ft

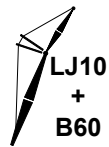


105.0 ft

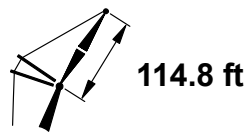
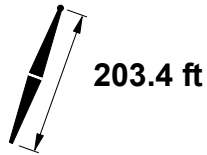
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110	64.6	299.3	305,500	524,500									110
115	61.4	296.5	289,400	498,000									115
120	58.2	293.3	274,700	474,000									120
125	54.8	289.7	261,200	451,900									125
130	51.3	285.6	248,700	431,700									130
135	47.6	280.9	237,200	413,100	59.4	288.9	216,200	397,100					135
140	43.6	275.6	226,400	395,900	56.1	285.5	206,300	380,500					140
145	39.2	269.4	216,300	379,900	52.6	281.6	197,100	365,100					145
150	34.4	262.1	206,900	365,100	49.0	277.1	188,500	350,800					150
155	28.8	253.1	198,000	351,200	45.1	272.1	180,500	337,500					155
160	21.8	241.3	189,500	338,100	40.9	266.2	172,900	325,100	53.6	275.6	156,100	312,200	160
165	10.2	220.6	180,900	304,400	36.3	259.4	165,700	313,400	50.0	271.3	149,600	301,000	165
170					31.1	251.1	158,900	302,400	46.2	266.4	143,400	290,500	170
175					24.7	240.6	152,300	292,000	42.1	260.8	137,600	280,500	175
180					15.8	225.1	145,800	282,000	37.6	254.3	132,000	271,200	180
185									32.5	246.4	126,700	262,300	185
190									26.6	236.7	121,600	253,800	190
195									18.6	223.1	116,500	245,700	195

MLC650 VPC-MAX S-3

ASME B30.5



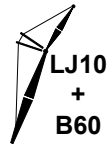
881,800 lb



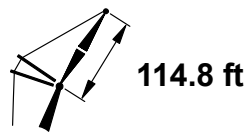
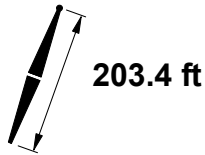
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	75.0	322.9	565,100 b	565,100 b									60
65	72.4	321.2	564,700 b	564,700 b									65
70	69.7	319.3	561,900 b	561,900 b									70
75	67.0	317.1	556,800 b	556,800 b	70.8	319.3	559,000 b	569,200 b					75
80	64.2	314.6	546,200	550,000	68.1	317.2	530,300 b	568,800 b					80
85	61.3	311.7	509,000	524,900	65.3	314.8	494,100	566,100					85
90	58.4	308.6	476,100	498,200	62.5	312.1	462,100	561,600	68.4	315.7	441,200	568,300	90
95	55.3	305.0	446,800	471,900	59.6	309.1	433,700	546,800	65.6	313.3	414,000	568,300	95
100	52.1	301.0	420,600	446,600	56.6	305.7	408,200	520,400	62.8	310.6	389,600	568,300	100
105	48.8	296.6	396,900	422,700	53.4	301.9	385,200	494,100	59.9	307.7	367,600	568,300	105
110	45.2	291.5	375,500	400,500	50.2	297.6	364,400	468,600	56.9	304.3	347,700	542,500	110
115	41.4	285.8	355,900	380,300	46.7	292.8	345,400	444,300	53.8	300.6	329,500	515,100	115
120	37.3	279.2	338,000	362,400	43.0	287.4	328,000	421,600	50.5	296.3	312,900	490,200	120
125	32.7	271.4	321,500	347,200	39.1	281.2	312,000	400,900	47.1	291.6	297,700	467,400	125
130	27.3	261.9	306,100	335,300	34.7	273.9	297,200	382,500	43.4	286.3	283,600	446,500	130
135	20.6	249.4	291,800	299,200	29.7	265.3	283,400	367,000	39.5	280.2	270,500	427,300	135
140	9.3	227.3	237,200	237,200	23.7	254.3	270,500	332,400	35.2	273.0	258,300	409,500	140
145					15.2	238.2	258,200	276,800	30.3	264.6	246,900	384,600	145
150									24.4	253.9	236,200	347,500	150
155									16.4	238.6	225,900	297,200	155
160													160
165													165
170													170
175													175
180													180
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205													205

MLC650 VPC-MAX S-3

ASME B30.5



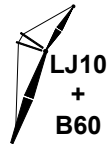
881,800 lb



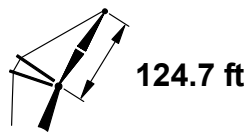
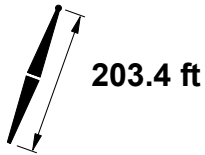
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	64.1	307.8	303,300	495,000									115
120	61.3	305.0	288,000	471,000									120
125	58.3	301.8	273,800	449,100									125
130	55.2	298.2	260,800	429,000									130
135	52.1	294.2	248,800	410,500									135
140	48.7	289.8	237,600	393,400	59.4	297.4	216,900	377,600					140
145	45.2	284.7	227,100	377,500	56.4	294.0	207,300	362,400					145
150	41.4	279.0	217,400	362,700	53.3	290.2	198,400	348,200					150
155	37.2	272.3	208,200	348,900	50.0	285.9	190,000	334,900					155
160	32.6	264.6	199,600	336,000	46.5	281.1	182,100	322,500					160
165	27.3	255.0	191,400	323,900	42.8	275.6	174,700	310,900	54.1	284.2	158,000	298,300	165
170	20.5	242.5	183,500	312,500	38.8	269.3	167,600	300,000	50.9	280.0	151,600	287,800	170
175	9.0	219.9	175,500	277,600	34.4	262.0	161,000	289,700	47.5	275.3	145,500	277,900	175
180					29.4	253.3	154,600	280,000	43.8	270.1	139,700	268,600	180
185					23.3	242.1	148,400	270,800	39.9	264.0	134,300	259,800	185
190					14.6	225.5	142,300	262,000	35.7	257.0	129,000	251,500	190
195									30.8	248.7	124,000	243,600	195
200									25.1	238.4	119,100	236,000	200
205									17.4	223.8	114,300	228,800	205

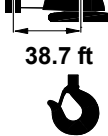
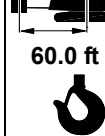
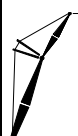
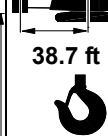
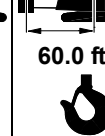
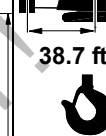
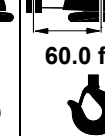
MLC650 VPC-MAX S-3

ASME B30.5



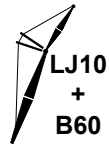
881,800 lb



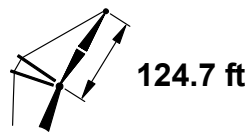
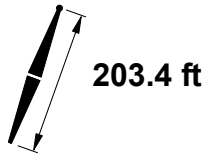
	 85°					 83°					 80°					
	 ft	 °	 ft	 38.7 ft lb	 60.0 ft lb	 °	 ft	 38.7 ft lb	 60.0 ft lb	 °	 ft	 38.7 ft lb	 60.0 ft lb	 ft		
65	73.8	331.6	522,900 b	522,900 b											65	
70	71.4	329.9	522,000 b	522,000 b											70	
75	68.9	327.8	519,000 b	519,000 b	72.4	329.8	524,700 b	524,700 b							75	
80	66.4	325.6	514,500	514,500	69.9	327.9	524,700 b	524,700 b							80	
85	63.8	323.0	504,800	504,800	67.4	325.7	494,300	524,700							85	
90	61.2	320.2	476,500	481,300	64.9	323.3	462,300	523,400							90	
95	58.4	317.0	447,300	457,700	62.3	320.6	433,900	519,600	67.7	324.2	414,100	525,300			95	
100	55.6	313.5	421,100	434,600	59.6	317.5	408,500	503,600	65.1	321.8	389,700	525,300			100	
105	52.7	309.7	397,500	412,200	56.8	314.2	385,600	480,300	62.5	319.1	367,800	525,300			105	
110	49.7	305.3	376,100	390,900	53.9	310.5	364,800	457,100	59.9	316.1	347,900	525,300			110	
115	46.5	300.5	356,600	371,000	51.0	306.3	345,900	434,400	57.1	312.8	329,800	514,600			115	
120	43.1	295.1	338,800	352,600	47.8	301.7	328,600	412,600	54.3	309.1	313,300	489,800			120	
125	39.5	289.0	322,400	336,000	44.5	296.6	312,700	392,000	51.3	305.0	298,100	467,100			125	
130	35.5	282.0	307,300	321,400	41.0	290.8	298,000	373,000	48.2	300.5	284,100	446,300			130	
135	31.1	273.8	293,200	309,000	37.2	284.2	284,400	355,700	44.9	295.4	271,100	427,100			135	
140	26.0	263.7	280,100	299,400	33.0	276.5	271,700	340,600	41.4	289.7	259,000	409,300			140	
145	19.5	250.5	267,700	276,200	28.2	267.3	259,900	327,900	37.6	283.2	247,800	390,400			145	
150	8.2	226.5	218,200	218,200	22.4	255.7	248,700	301,800	33.5	275.6	237,300	369,200			150	
155					14.2	238.5	237,900	255,600	28.8	266.6	227,300	344,800			155	
160										23.1	255.3	217,900	313,100		160	
165										15.3	239.1	208,900	274,800		165	
170															170	
175															175	
180															180	
185															185	
190															190	
195															195	
200															200	
205															205	
210															210	
215															215	

MLC650 VPC-MAX S-3

ASME B30.5



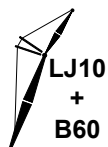
881,800 lb



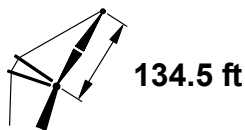
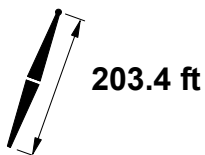
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	63.8	316.3	288,000	470,500									120
125	61.1	313.4	274,000	448,600									125
130	58.4	310.3	261,000	428,600									130
135	55.6	306.8	249,000	410,100									135
140	52.7	302.9	237,900	393,100									140
145	49.6	298.5	227,500	377,300	59.4	305.9	207,400	362,000					145
150	46.4	293.7	217,800	362,500	56.7	302.5	198,500	347,900					150
155	43.1	288.3	208,700	348,800	53.8	298.8	190,200	334,700					155
160	39.4	282.2	200,200	336,000	50.8	294.6	182,300	322,300					160
165	35.5	275.1	192,200	324,000	47.7	290.0	175,000	310,800					165
170	31.0	266.9	184,600	312,700	44.4	284.8	168,000	299,900	54.6	292.7	151,700	287,600	170
175	25.9	256.8	177,300	302,000	40.8	279.0	161,500	289,700	51.6	288.7	145,700	277,800	175
180	19.3	243.5	170,300	291,900	37.0	272.3	155,200	280,100	48.5	284.2	140,000	268,500	180
185	7.8	219.0	163,100	256,500	32.8	264.5	149,300	271,000	45.3	279.2	134,600	259,800	185
190					27.9	255.3	143,600	262,400	41.8	273.5	129,400	251,500	190
195					22.0	243.5	138,000	254,100	38.1	267.1	124,500	243,700	195
200					13.6	225.7	132,500	246,200	34.0	259.7	119,800	236,200	200
205									29.3	250.9	115,300	229,100	205
210									23.8	239.9	110,900	222,300	210
215									16.3	224.5	106,500	215,800	215

MLC650 VPC-MAX S-3

ASME B30.5



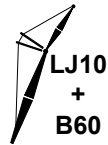
881,800 lb



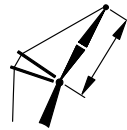
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	72.8	340.3	482,100 b	482,100 b									70
75	70.5	338.5	481,000	481,000									75
80	68.2	336.4	478,400	478,400	71.5	338.4	484,100	484,100					80
85	65.9	334.1	474,000	474,000	69.2	336.4	484,100	484,100					85
90	63.5	331.5	462,700	462,700	66.9	334.2	459,700	484,100					90
95	61.0	328.7	442,100	442,100	64.5	331.8	431,400	482,600	69.4	334.9	411,200	479,500	95
100	58.5	325.5	418,800	421,400	62.1	329.0	406,000	479,600	67.1	332.7	386,900	479,500	100
105	55.9	322.1	395,200	400,900	59.6	326.0	383,100	464,200	64.7	330.3	365,000	479,500	105
110	53.3	318.3	373,900	381,100	57.0	322.7	362,400	443,800	62.3	327.6	345,200	479,500	110
115	50.5	314.1	354,500	362,200	54.4	319.0	343,500	423,300	59.8	324.6	327,100	479,500	115
120	47.6	309.4	336,700	344,300	51.6	315.0	326,300	403,200	57.3	321.3	310,600	479,500	120
125	44.5	304.3	320,400	327,700	48.8	310.5	310,400	383,700	54.7	317.7	295,500	464,500	125
130	41.3	298.5	305,300	312,400	45.8	305.6	295,800	365,300	51.9	313.7	281,500	443,800	130
135	37.8	292.0	291,400	298,600	42.6	300.1	282,300	347,900	49.1	309.3	268,600	424,700	135
140	34.0	284.6	278,400	286,500	39.3	294.0	269,700	331,900	46.1	304.4	256,600	407,000	140
145	29.7	275.9	266,300	276,400	35.6	287.0	258,000	317,500	43.0	299.0	245,500	390,600	145
150	24.7	265.4	254,900	268,600	31.5	278.9	247,000	304,800	39.6	292.9	235,100	370,200	150
155	18.4	251.4	244,100	249,900	26.9	269.2	236,700	294,400	36.0	286.0	225,300	350,900	155
160	7.1	225.3	198,100	198,100	21.3	256.9	226,900	271,700	32.0	278.1	216,100	333,100	160
165					13.2	238.7	217,400	232,600	27.4	268.6	207,400	309,600	165
170									21.9	256.7	199,100	282,000	170
175									14.3	239.5	191,000	250,400	175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220

MLC650 VPC-MAX S-3

ASME B30.5



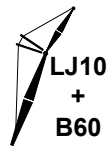
881,800 lb



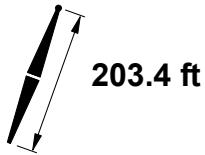
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	63.4	324.7	270,900	445,800									125
130	61.0	321.9	258,000	425,900									130
135	58.5	318.8	246,000	407,500									135
140	55.9	315.3	235,000	390,500									140
145	53.2	311.5	224,700	374,700									145
150	50.4	307.3	215,000	360,100	59.4	314.4	195,300	345,100					150
155	47.5	302.6	206,100	346,400	56.9	311.0	187,000	332,000					155
160	44.5	297.5	197,600	333,600	54.2	307.3	179,300	319,700					160
165	41.2	291.7	189,700	321,700	51.5	303.3	172,000	308,200					165
170	37.7	285.2	182,200	310,500	48.6	298.8	165,100	297,500					170
175	33.9	277.8	175,000	299,900	45.6	293.9	158,600	287,300	54.9	301.3	142,400	275,100	175
180	29.6	269.1	168,300	289,900	42.5	288.3	152,500	277,700	52.2	297.3	136,800	265,900	180
185	24.6	258.5	161,800	280,400	39.1	282.1	146,600	268,700	49.4	293.0	131,500	257,200	185
190	18.3	244.4	155,500	271,500	35.4	275.1	141,000	260,100	46.5	288.2	126,400	249,000	190
195	6.7	217.7	149,000	234,200	31.3	266.9	135,700	252,000	43.3	282.8	121,600	241,200	195
200					26.6	257.1	130,600	244,300	40.0	276.8	117,000	233,800	200
205					20.9	244.7	125,600	236,900	36.4	270.0	112,600	226,800	205
210					12.6	225.9	120,600	229,800	32.4	262.1	108,300	220,100	210
215									28.0	252.9	104,200	213,700	215
220									22.6	241.3	100,200	207,500	220

MLC650 VPC-MAX S-3

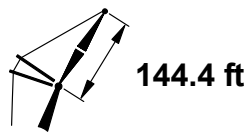
ASME B30.5



881,800 lb



203.4 ft

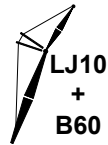


144.4 ft

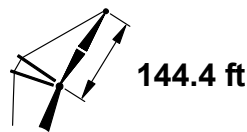
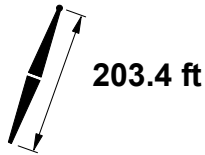
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.0	350.7	445,900 b	445,900 b									70
75	71.9	349.0	445,800	445,800									75
80	69.8	347.1	444,600	444,600	72.8	348.9	445,700	445,700					80
85	67.6	344.9	442,200	442,200	70.7	347.0	445,700	445,700					85
90	65.4	342.6	438,400	438,400	68.5	345.0	445,700	445,700					90
95	63.2	340.0	425,100	425,100	66.4	342.7	445,700	445,700					95
100	60.9	337.1	406,900	406,900	64.1	340.2	424,000	445,700	68.8	343.5	404,700	443,000	100
105	58.6	334.0	388,600	388,600	61.9	337.5	400,200	443,700	66.6	341.2	381,900	443,000	105
110	56.2	330.6	370,500	370,500	59.6	334.5	378,600	428,800	64.4	338.8	361,200	443,000	110
115	53.7	326.9	352,900	352,900	57.2	331.2	359,000	410,700	62.1	336.1	342,400	443,000	115
120	51.1	322.8	336,100	336,100	54.7	327.6	341,000	392,600	59.8	333.1	325,200	443,000	120
125	48.5	318.3	320,000	320,000	52.2	323.6	324,500	374,700	57.4	329.8	309,400	443,000	125
130	45.7	313.3	304,900	304,900	49.6	319.3	309,300	357,300	55.0	326.2	294,800	441,700	130
135	42.7	307.8	291,000	291,000	46.9	314.6	295,300	340,600	52.5	322.3	281,400	422,800	135
140	39.6	301.8	278,200	278,200	44.0	309.3	282,300	324,900	49.9	318.1	268,900	405,200	140
145	36.3	294.9	266,800	266,800	40.9	303.5	270,100	310,200	47.2	313.3	257,300	388,500	145
150	32.6	287.1	256,700	256,700	37.7	297.0	258,800	296,700	44.3	308.2	246,500	370,600	150
155	28.5	278.0	248,300	248,300	34.1	289.6	248,200	284,600	41.3	302.4	236,300	351,300	155
160	23.6	266.9	242,100	242,100	30.2	281.1	238,200	274,000	38.0	296.0	226,800	333,600	160
165	17.5	252.2	230,300	230,300	25.7	271.0	228,700	265,300	34.5	288.7	217,900	317,200	165
170	6.0	223.8	180,800	180,800	20.3	258.1	219,700	246,000	30.7	280.4	209,400	302,100	170
175					12.4	238.8	210,900	215,100	26.3	270.4	201,300	279,600	175
180									20.9	257.9	193,600	255,400	180
185									13.5	239.8	186,100	227,200	185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230

MLC650 VPC-MAX S-3

ASME B30.5



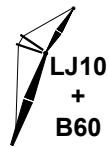
881,800 lb



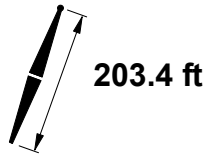
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	63.2	333.2	270,900	423,800									130
135	60.9	330.4	258,500	405,500									135
140	58.5	327.2	246,900	388,500									140
145	56.1	323.8	236,100	372,800									145
150	53.7	320.1	226,100	358,200									150
155	51.1	316.0	216,700	344,600	59.4	322.8	197,400	330,100					155
160	48.4	311.5	207,900	331,900	57.1	319.5	189,300	317,900					160
165	45.6	306.5	199,700	320,000	54.6	315.9	181,700	306,400					165
170	42.7	301.0	191,900	308,800	52.1	311.9	174,500	295,700					170
175	39.6	294.9	184,500	298,300	49.4	307.6	167,700	285,600					175
180	36.2	288.1	177,500	288,400	46.7	302.8	161,300	276,000					180
185	32.5	280.3	170,900	279,000	43.8	297.5	155,200	267,000	52.8	306.0	139,800	255,400	185
190	28.4	271.1	164,500	270,100	40.8	291.7	149,400	258,500	50.2	301.7	134,500	247,300	190
195	23.5	260.0	158,500	261,700	37.5	285.1	143,900	250,500	47.4	297.1	129,500	239,500	195
200	17.3	245.2	152,500	252,000	33.9	277.7	138,700	242,800	44.6	291.9	124,700	232,200	200
205	5.5	215.9	146,300	214,400	30.0	269.1	133,600	235,500	41.6	286.2	120,100	225,200	205
210					25.5	258.9	128,800	228,500	38.4	279.9	115,700	218,500	210
215					19.9	245.8	124,000	221,900	34.9	272.7	111,500	212,200	215
220					11.8	225.9	119,200	215,400	31.1	264.5	107,400	206,100	220
230									21.6	242.6	99,600	194,700	230

MLC650 VPC-MAX S-3

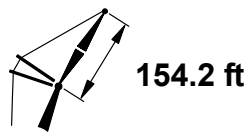
ASME B30.5



881,800 lb



203.4 ft

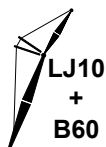


154.2 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	73.1	359.4	413,000	413,000									75
80	71.1	357.6	412,600	412,600									80
85	69.2	355.7	411,400	411,400	72.0	357.5	413,600	413,600					85
90	67.1	353.5	408,800	408,800	70.0	355.6	413,600	413,600					90
95	65.1	351.1	405,400	405,400	68.0	353.5	413,600	413,600					95
100	63.0	348.5	391,600	391,600	65.9	351.2	413,600	413,600					100
105	60.8	345.6	375,400	375,400	63.8	348.7	397,700	412,900	68.2	352.0	379,000	409,700	105
110	58.6	342.5	359,200	359,200	61.7	346.0	376,100	410,900	66.1	349.8	358,400	409,700	110
115	56.4	339.1	343,100	343,100	59.6	343.0	356,500	396,900	64.1	347.3	339,600	409,700	115
120	54.1	335.4	327,500	327,500	57.3	339.7	338,600	380,900	62.0	344.5	322,400	409,700	120
125	51.7	331.4	312,400	312,400	55.1	336.1	322,100	364,800	59.8	341.6	306,700	409,700	125
130	49.2	327.0	298,100	298,100	52.7	332.3	307,000	348,900	57.6	338.3	292,200	409,700	130
135	46.7	322.3	284,500	284,500	50.3	328.0	293,000	333,400	55.3	334.8	278,800	409,700	135
140	44.0	317.0	271,700	271,700	47.8	323.4	280,000	318,400	53.0	330.9	266,400	395,800	140
145	41.2	311.3	260,000	260,000	45.1	318.4	267,900	304,100	50.5	326.8	254,800	379,900	145
150	38.1	304.9	249,200	249,200	42.3	312.9	256,600	290,700	48.0	322.2	244,000	364,100	150
155	34.9	297.7	239,600	239,600	39.4	306.7	246,100	278,200	45.4	317.2	234,000	348,600	155
160	31.3	289.5	231,300	231,300	36.3	299.9	236,200	266,800	42.6	311.7	224,500	333,000	160
165	27.3	280.0	224,400	224,400	32.8	292.2	226,800	256,500	39.7	305.7	215,600	316,800	165
170	22.6	268.4	219,400	219,400	29.0	283.3	218,000	247,700	36.6	298.9	207,200	301,700	170
175	16.6	253.0	208,700	208,700	24.7	272.6	209,600	240,500	33.2	291.3	199,300	287,800	175
180	4.8	221.6	163,800	163,800	19.3	259.2	201,600	223,000	29.5	282.5	191,700	273,600	180
185					11.6	238.8	193,800	196,500	25.2	272.1	184,600	253,100	185
190									20.0	259.1	177,700	231,700	190
195									12.7	240.0	170,900	206,300	195
200													200
205													205
210													210
215													215
220													220
230													230
240													240

MLC650 VPC-MAX S-3

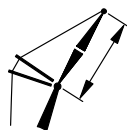
ASME B30.5



881,800 lb



203.4 ft

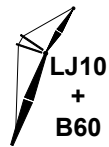


154.2 ft

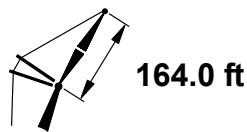
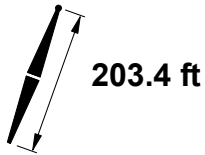
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	62.9	341.7	255,400	394,200									135
140	60.8	338.8	243,900	385,900									140
145	58.6	335.7	233,200	370,300									145
150	56.4	332.3	223,200	355,700									150
155	54.1	328.6	213,900	342,200									155
160	51.7	324.6	205,200	329,500	59.4	331.3	186,200	315,200					160
165	49.2	320.2	196,900	317,600	57.2	328.0	178,600	303,800					165
170	46.6	315.5	189,200	306,500	54.9	324.4	171,500	293,100					170
175	43.9	310.2	181,900	296,000	52.6	320.6	164,700	283,100					175
180	41.1	304.4	175,000	286,200	50.1	316.3	158,400	273,600					180
185	38.1	298.0	168,400	276,800	47.6	311.7	152,300	264,600					185
190	34.8	290.8	162,200	268,000	45.0	306.6	146,600	256,200	53.2	314.6	131,300	244,700	190
195	31.3	282.6	156,200	259,600	42.2	301.1	141,200	248,100	50.8	310.4	126,300	237,000	195
200	27.3	273.1	150,500	251,700	39.2	294.9	136,000	240,500	48.3	305.9	121,600	229,700	200
205	22.5	261.4	145,100	244,100	36.1	288.0	131,000	233,300	45.7	301.0	117,100	222,800	205
210	16.5	245.9	139,700	229,100	32.7	280.2	126,300	226,400	42.9	295.5	112,800	216,100	210
215	4.2	213.2	133,900	193,300	28.8	271.3	121,700	219,800	40.0	289.5	108,600	209,900	215
220					24.4	260.5	117,300	213,500	37.0	282.9	104,600	203,800	220
230					11.0	225.8	108,600	201,600	29.9	266.7	97,100	192,600	230
240									20.6	243.8	90,000	182,200	240

MLC650 VPC-MAX S-3

ASME B30.5



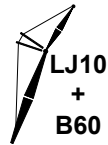
881,800 lb



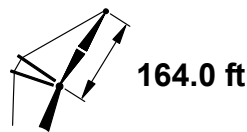
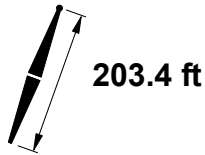
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	74.2	369.7	381,400	381,400									75
80	72.3	368.1	381,400	381,400									80
85	70.5	366.2	380,900	380,900									85
90	68.6	364.2	379,200	379,200	71.2	366.2	381,400	381,400					90
95	66.7	362.0	376,800	376,800	69.4	364.2	381,400	381,400					95
100	64.7	359.6	374,000	374,000	67.5	362.1	381,400	381,400					100
105	62.8	356.9	362,200	362,200	65.5	359.8	381,400	381,400	69.6	362.7	374,400	374,400	105
110	60.7	354.1	347,900	347,900	63.6	357.2	375,500	380,700	67.7	360.6	357,600	374,400	110
115	58.7	351.0	333,500	333,500	61.6	354.4	355,900	378,900	65.7	358.3	338,800	374,400	115
120	56.6	347.6	319,300	319,300	59.6	351.4	338,000	368,700	63.8	355.8	321,700	374,400	120
125	54.4	344.0	305,300	305,300	57.5	348.2	321,600	354,600	61.8	353.0	306,000	374,400	125
130	52.2	340.0	291,800	291,800	55.3	344.7	306,500	340,200	59.8	350.0	291,500	374,400	130
135	49.9	335.8	278,800	278,800	53.1	340.9	292,500	326,000	57.7	346.8	278,100	374,400	135
140	47.5	331.1	266,400	266,400	50.9	336.7	279,500	312,100	55.6	343.3	265,700	374,400	140
145	45.1	326.1	254,700	254,700	48.5	332.3	267,500	298,500	53.4	339.5	254,200	370,300	145
150	42.5	320.6	243,800	243,800	46.1	327.4	256,300	285,600	51.1	335.4	243,500	356,200	150
155	39.7	314.5	233,800	233,800	43.5	322.1	245,700	273,200	48.8	331.0	233,400	342,100	155
160	36.8	307.8	224,600	224,600	40.9	316.2	235,900	261,600	46.4	326.2	224,000	328,100	160
165	33.6	300.3	216,400	216,400	38.0	309.8	226,600	250,800	43.8	320.9	215,200	314,500	165
170	30.2	291.8	209,200	209,200	35.0	302.7	217,900	241,000	41.2	315.2	206,800	301,300	170
175	26.3	281.8	203,400	203,400	31.7	294.6	209,600	232,200	38.3	308.8	199,000	288,800	175
180	21.7	269.7	199,200	199,200	28.0	285.3	201,800	224,500	35.3	301.7	191,500	276,300	180
185	15.8	253.6	191,500	191,500	23.7	274.2	194,300	218,300	32.0	293.8	184,400	264,200	185
190	3.2	217.9	148,100	148,100	18.5	260.1	187,100	204,500	28.4	284.6	177,700	250,000	190
195					10.8	238.7	180,000	180,300	24.2	273.8	171,200	231,900	195
200									19.1	260.1	165,000	212,600	200
205									11.9	240.0	158,900	189,500	205
210													210
215													215
220													220
230													230
240													240
250													250

MLC650 VPC-MAX S-3

ASME B30.5



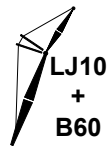
881,800 lb



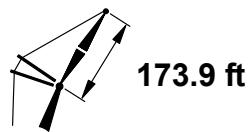
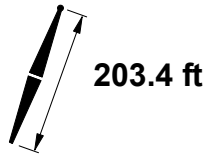
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	64.7	352.8	254,500	356,100									135
140	62.7	350.2	243,100	356,100									140
145	60.7	347.3	232,400	356,100									145
150	58.7	344.2	222,400	354,700									150
155	56.6	340.8	213,100	341,200									155
160	54.4	337.2	204,400	328,600									160
165	52.2	333.3	196,200	316,800	59.4	339.8	177,600	302,800					165
170	49.9	329.0	188,500	305,700	57.4	336.5	170,500	292,200					170
175	47.5	324.3	181,300	295,200	55.2	333.0	163,800	282,100					175
180	45.0	319.3	174,400	285,400	53.0	329.2	157,500	272,700					180
185	42.4	313.8	167,900	276,100	50.8	325.0	151,500	263,800					185
190	39.7	307.7	161,700	267,300	48.4	320.5	145,900	255,300					190
195	36.7	301.0	155,800	259,000	46.0	315.6	140,500	247,400	53.6	323.1	125,400	236,100	195
200	33.6	293.5	150,200	251,100	43.4	310.3	135,300	239,800	51.4	319.1	120,700	228,800	200
205	30.1	284.9	144,900	243,600	40.7	304.4	130,400	232,600	49.0	314.7	116,200	221,900	205
210	26.2	274.9	139,700	236,400	37.9	298.0	125,700	225,700	46.6	309.9	111,900	215,300	210
215	21.6	262.8	134,700	229,600	34.8	290.8	121,200	219,200	44.1	304.7	107,800	209,100	215
220	15.7	246.6	129,800	210,600	31.5	282.6	116,900	212,900	41.4	299.0	103,900	203,100	220
230					23.5	262.1	108,700	201,200	35.6	285.7	96,500	191,900	230
240					10.2	225.5	100,700	190,300	28.8	268.9	89,700	181,700	240
250									19.7	245.0	83,100	172,100	250

MLC650 VPC-MAX S-3

ASME B30.5



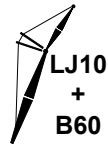
881,800 lb



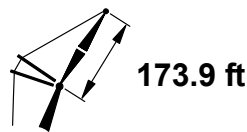
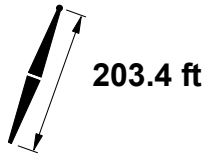
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	73.4	378.5	354,100	354,100									80
85	71.6	376.8	353,800	353,800									85
90	69.9	374.9	352,900	352,900	72.3	376.6	353,200	353,200					90
95	68.1	372.8	351,200	351,200	70.6	374.8	353,200	353,200					95
100	66.3	370.5	349,200	349,200	68.8	372.8	353,200	353,200					100
105	64.4	368.1	346,700	346,700	67.0	370.6	353,200	353,200					105
110	62.6	365.4	335,200	335,200	65.2	368.3	353,200	353,200	69.0	371.3	347,000	347,000	110
115	60.7	362.6	322,500	322,500	63.4	365.7	352,700	352,700	67.2	369.1	336,000	347,000	115
120	58.7	359.5	309,700	309,700	61.5	362.9	335,500	351,200	65.4	366.8	318,900	347,000	120
125	56.8	356.1	297,000	297,000	59.5	359.9	319,100	342,700	63.6	364.2	303,300	347,000	125
130	54.7	352.5	284,600	284,600	57.6	356.7	304,000	330,100	61.7	361.5	288,800	347,000	130
135	52.6	348.7	272,400	272,400	55.6	353.2	290,100	317,400	59.8	358.5	275,500	347,000	135
140	50.5	344.5	260,800	260,800	53.5	349.4	277,200	304,700	57.8	355.3	263,100	347,000	140
145	48.3	340.0	249,500	249,500	51.4	345.4	265,200	292,200	55.8	351.8	251,600	347,000	145
150	46.0	335.1	239,000	239,000	49.2	341.0	254,000	280,000	53.7	348.1	240,900	346,600	150
155	43.6	329.8	229,000	229,000	46.9	336.3	243,500	268,300	51.6	344.1	230,900	334,100	155
160	41.1	324.0	219,700	219,700	44.6	331.2	233,700	257,000	49.4	339.8	221,500	321,500	160
165	38.4	317.7	211,100	211,100	42.1	325.6	224,400	246,400	47.2	335.1	212,700	309,000	165
170	35.6	310.7	203,300	203,300	39.5	319.5	215,800	236,400	44.8	330.0	204,400	296,600	170
175	32.5	302.8	196,300	196,300	36.8	312.8	207,600	227,200	42.4	324.5	196,600	284,700	175
180	29.1	293.9	190,300	190,300	33.8	305.3	199,800	218,800	39.8	318.4	189,200	273,200	180
185	25.4	283.6	185,400	185,400	30.6	296.9	192,400	211,200	37.1	311.8	182,200	262,300	185
190	20.9	271.0	182,000	182,000	27.0	287.2	185,400	204,700	34.1	304.4	175,500	252,000	190
195	15.1	254.2	174,300	174,300	22.9	275.7	178,700	199,500	30.9	296.1	169,200	241,400	195
200					17.7	261.0	172,200	186,400	27.4	286.6	163,100	227,500	200
205					10.1	238.4	164,100	164,100	23.3	275.3	157,300	211,200	205
210									18.4	261.1	151,700	193,900	210
215									11.2	240.0	146,100	172,700	215
220													220
230													230
240													240
250													250
260													260

MLC650 VPC-MAX S-3

ASME B30.5



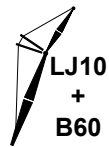
881,800 lb



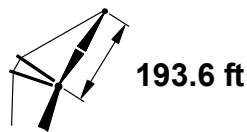
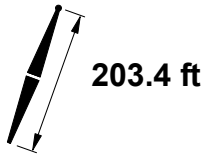
ft	75°				ft	70°				ft	65°				ft
	ft	lb	lb	lb		ft	lb	lb	lb		ft	lb	lb	lb	
80															80
85															85
90															90
95															95
100															100
105															105
110															110
115															115
120															120
125															125
130															130
135															135
140	64.4	361.3	240,000	328,800											140
145	62.5	358.7	229,400	328,800											145
150	60.6	355.8	219,500	328,800											150
155	58.7	352.7	210,200	328,800											155
160	56.7	349.3	201,600	326,200											160
165	54.7	345.7	193,400	314,400											165
170	52.6	341.9	185,800	303,300	59.4	348.3	167,400	289,600							170
175	50.5	337.7	178,500	292,900	57.5	345.0	160,800	279,600							175
180	48.2	333.2	171,700	283,100	55.5	341.5	154,500	270,200							180
185	45.9	328.3	165,200	273,900	53.4	337.8	148,600	261,300							185
190	43.5	323.0	159,100	265,100	51.3	333.7	142,900	252,900							190
195	41.0	317.2	153,300	256,800	49.1	329.3	137,600	245,000							195
200	38.4	310.8	147,700	249,000	46.8	324.5	132,500	237,400	54.0	331.7	117,600	226,300			200
205	35.5	303.8	142,400	241,500	44.5	319.4	127,600	230,300	51.9	327.7	113,100	219,400			205
210	32.5	296.0	137,400	234,400	42.0	313.8	123,000	223,500	49.7	323.4	108,900	212,900			210
215	29.1	287.1	132,500	227,600	39.4	307.7	118,600	217,000	47.4	318.8	104,800	206,700			215
220	25.3	276.7	127,800	221,100	36.6	300.9	114,300	210,800	45.1	313.7	101,000	200,700			220
230	15.0	247.1	118,800	192,400	30.4	284.9	106,300	199,200	40.1	302.3	93,700	189,600			230
240					22.6	263.5	98,800	188,500	34.5	288.4	86,900	179,400			240
250					9.5	225.1	91,400	178,500	27.8	270.9	80,600	170,000			250
260									19.0	246.0	74,600	161,300			260

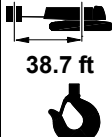
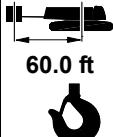
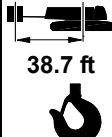
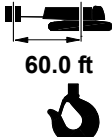
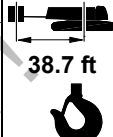
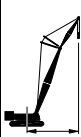
MLC650 VPC-MAX S-3

ASME B30.5



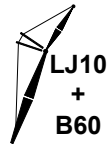
881,800 lb



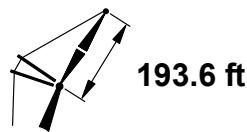
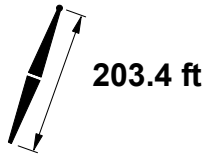
	 85°					 83°					 80°					
																
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft			
85	73.6	397.5	304,600	304,600									85			
90	72.0	395.9	304,300	304,300									90			
95	70.4	394.0	303,500	303,500	72.7	395.7	302,400	302,400					95			
100	68.8	392.0	302,500	302,500	71.1	393.9	302,400	302,400					100			
105	67.2	389.9	301,200	301,200	69.5	392.0	302,400	302,400					105			
110	65.6	387.6	299,700	299,700	67.9	389.9	302,400	302,400					110			
115	63.9	385.1	297,800	297,800	66.3	387.7	302,400	302,400	69.7	390.5	295,500	295,500	115			
120	62.3	382.4	289,000	289,000	64.6	385.3	302,400	302,400	68.1	388.4	295,500	295,500	120			
125	60.6	379.5	278,900	278,900	63.0	382.7	302,300	302,300	66.4	386.2	295,500	295,500	125			
130	58.8	376.4	268,700	268,700	61.3	379.9	300,900	301,200	64.8	383.8	285,300	295,500	130			
135	57.0	373.1	258,600	258,600	59.5	376.9	287,000	297,500	63.1	381.2	272,000	295,500	135			
140	55.2	369.6	248,500	248,500	57.8	373.7	274,100	287,500	61.4	378.4	259,700	295,500	140			
145	53.4	365.8	238,800	238,800	56.0	370.2	262,100	277,400	59.7	375.5	248,200	295,500	145			
150	51.5	361.8	229,200	229,200	54.2	366.6	251,000	267,300	58.0	372.3	237,600	295,500	150			
155	49.5	357.5	220,000	220,000	52.3	362.7	240,500	257,200	56.2	368.9	227,600	295,500	155			
160	47.5	352.9	211,200	211,200	50.3	358.5	230,800	247,300	54.4	365.2	218,300	295,500	160			
165	45.4	347.9	202,800	202,800	48.3	354.0	221,600	237,600	52.5	361.3	209,500	294,600	165			
170	43.3	342.5	195,000	195,000	46.3	349.1	213,000	228,300	50.6	357.2	201,300	284,600	170			
175	41.0	336.7	187,500	187,500	44.2	343.9	204,900	219,400	48.6	352.7	193,500	274,500	175			
180	38.6	330.4	180,700	180,700	41.9	338.3	197,200	210,800	46.5	347.9	186,200	264,500	180			
185	36.1	323.6	174,300	174,300	39.6	332.3	189,900	202,900	44.4	342.8	179,300	254,500	185			
190	33.4	316.0	168,500	168,500	37.2	325.6	183,000	195,300	42.2	337.2	172,700	245,000	190			
195	30.5	307.6	163,400	163,400	34.5	318.4	176,400	188,400	39.9	331.2	166,400	235,700	195			
200	27.3	298.0	159,000	159,000	31.7	310.3	170,200	182,100	37.4	324.6	160,500	226,800	200			
205	23.7	286.9	155,500	155,500	28.7	301.3	164,200	176,500	34.8	317.4	154,800	218,500	205			
210	19.4	273.3	153,200	153,200	25.3	290.8	158,500	171,700	32.0	309.5	149,400	210,800	210			
215	13.8	255.0	146,300	146,300	21.3	278.4	153,000	168,000	29.0	300.5	144,200	203,700	215			
220					16.4	262.6	147,600	156,700	25.6	290.3	139,200	191,100	220			
230									17.0	262.8	129,700	163,300	230			
240													240			
250													250			
260													260			
270													270			
280													280			

MLC650 VPC-MAX S-3

ASME B30.5



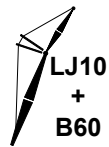
881,800 lb



	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	63.9	378.3	215,600	279,800									150
155	62.2	375.6	206,400	279,800									155
160	60.5	372.7	197,800	279,800									160
165	58.8	369.7	189,700	279,800									165
170	57.0	366.4	182,100	279,800									170
175	55.2	362.8	174,900	279,800									175
180	53.3	359.1	168,100	279,800	59.4	365.2	150,400	258,100					180
185	51.4	355.0	161,700	270,700	57.7	362.0	144,600	257,900					185
190	49.5	350.7	155,700	262,000	55.9	358.6	139,000	249,600					190
195	47.5	346.1	149,900	253,800	54.1	354.9	133,700	241,700					195
200	45.4	341.1	144,400	246,000	52.2	351.0	128,700	234,200					200
205	43.2	335.7	139,200	238,600	50.2	346.7	123,900	227,100					205
210	40.9	329.9	134,200	231,500	48.2	342.2	119,300	220,300	54.5	348.8	104,800	209,500	210
215	38.6	323.6	129,500	224,800	46.2	337.4	115,000	213,900	52.7	345.0	100,800	203,300	215
220	36.1	316.7	124,900	218,400	44.0	332.2	110,800	207,700	50.8	340.8	97,000	197,400	220
230	30.5	300.7	116,400	206,400	39.5	320.4	103,000	196,300	46.7	331.6	89,800	186,400	230
240	23.6	279.9	108,400	191,600	34.4	306.5	95,700	185,700	42.4	321.0	83,300	176,400	240
250	13.7	247.9	100,800	162,500	28.5	289.3	89,000	176,000	37.7	308.6	77,200	167,100	250
260					21.1	266.2	82,700	167,100	32.4	293.6	71,500	158,500	260
270					8.2	224.0	76,300	157,500	26.0	274.7	66,100	150,600	270
280									17.6	247.9	61,000	143,100	280

MLC650 VPC-MAX S-3

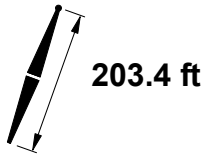
ASME B30.5



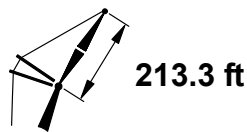
881,800 lb



360°



203.4 ft

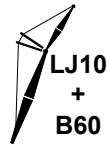


213.3 ft

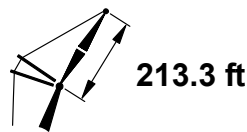
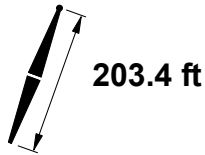
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	73.7	416.6	261,200	261,200									90
95	72.3	415.0	261,000	261,000									95
100	70.9	413.2	260,500	260,500	72.9	414.8	259,200	259,200					100
105	69.4	411.3	259,800	259,800	71.5	413.1	259,200	259,200					105
110	68.0	409.2	258,800	258,800	70.0	411.2	259,200	259,200					110
115	66.5	407.0	257,700	257,700	68.6	409.2	259,200	259,200					115
120	65.0	404.6	257,200	257,200	67.1	407.0	259,200	259,200					120
125	63.5	402.1	255,900	255,900	65.7	404.7	259,200	259,200	68.8	407.7	254,200	254,200	125
130	62.0	399.3	250,100	250,100	64.2	402.3	259,200	259,200	67.3	405.5	254,200	254,200	130
135	60.5	396.5	242,100	242,100	62.6	399.6	258,400	258,400	65.8	403.2	254,200	254,200	135
140	58.9	393.4	234,100	234,100	61.1	396.8	257,600	257,600	64.3	400.8	254,200	254,200	140
145	57.3	390.1	226,100	226,100	59.5	393.8	256,600	256,600	62.8	398.2	244,800	254,200	145
150	55.6	386.7	218,100	218,100	57.9	390.7	247,900	251,100	61.3	395.4	234,200	254,200	150
155	54.0	383.0	210,200	210,200	56.3	387.3	237,500	243,100	59.7	392.4	224,200	254,200	155
160	52.3	379.1	202,500	202,500	54.7	383.7	227,800	235,100	58.1	389.3	214,900	254,200	160
165	50.5	374.9	195,100	195,100	53.0	379.9	218,600	227,100	56.5	385.9	206,200	254,200	165
170	48.7	370.5	187,800	187,800	51.2	375.8	210,000	219,100	54.8	382.3	198,000	254,200	170
175	46.9	365.7	180,800	180,800	49.5	371.5	201,900	211,300	53.2	378.5	190,300	254,200	175
180	45.0	360.7	174,200	174,200	47.6	366.9	194,300	203,700	51.4	374.5	183,000	251,900	180
185	43.0	355.3	167,800	167,800	45.8	362.0	187,100	196,300	49.7	370.2	176,100	244,000	185
190	40.9	349.5	161,800	161,800	43.8	356.7	180,200	189,100	47.8	365.6	169,600	236,000	190
195	38.8	343.2	156,200	156,200	41.8	351.1	173,700	182,300	46.0	360.8	163,400	228,000	195
200	36.5	336.5	151,000	151,000	39.7	345.0	167,500	175,800	44.0	355.5	157,500	220,200	200
205	34.1	329.1	146,200	146,200	37.5	338.5	161,700	169,700	42.0	350.0	151,900	212,500	205
210	31.6	321.0	141,800	141,800	35.1	331.4	156,000	163,900	39.9	343.9	146,500	205,000	210
215	28.8	311.9	137,900	137,900	32.6	323.6	150,700	158,600	37.7	337.5	141,400	197,800	215
220	25.7	301.7	134,600	134,600	30.0	315.0	145,500	153,800	35.4	330.4	136,500	191,000	220
230	18.1	275.3	130,400	130,400	23.8	294.1	135,800	145,900	30.3	314.2	127,400	178,500	230
240					15.2	263.9	126,700	132,300	24.1	293.7	118,800	161,700	240
250									15.8	264.2	110,800	138,200	250
260													260
270													270
280													280
290													290
300													300

MLC650 VPC-MAX S-3

ASME B30.5



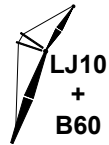
881,800 lb



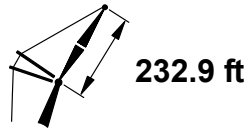
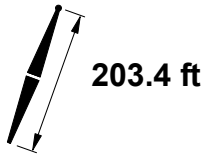
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160	63.5	395.3	193,900	240,500									160
165	62.0	392.6	185,900	240,500									165
170	60.4	389.7	178,300	240,500									170
175	58.9	386.6	171,200	240,500									175
180	57.2	383.4	164,500	240,500									180
185	55.6	379.9	158,100	240,500									185
190	53.9	376.2	152,100	240,500	59.4	382.2	135,000	221,900					190
195	52.2	372.3	146,400	240,500	57.9	379.0	129,700	221,900					195
200	50.5	368.1	141,000	240,500	56.2	375.6	124,800	221,900					200
205	48.7	363.7	135,800	235,600	54.6	372.0	120,000	221,900					205
210	46.8	358.9	130,900	228,600	52.9	368.2	115,500	217,100					210
215	44.9	353.9	126,200	221,900	51.2	364.1	111,200	210,700					215
220	43.0	348.5	121,700	215,500	49.4	359.8	107,100	204,600					220
230	38.7	336.4	113,300	203,600	45.7	350.2	99,400	193,200	51.6	358.1	85,900	183,200	230
240	34.1	322.2	105,500	191,900	41.7	339.3	92,300	182,800	48.0	349.3	79,400	173,200	240
250	28.7	305.1	98,300	178,000	37.3	326.6	85,700	173,200	44.2	339.3	73,400	164,000	250
260	22.2	282.9	91,500	162,700	32.5	311.7	79,600	164,400	40.1	327.8	67,900	155,600	260
270	12.6	248.5	85,000	137,900	26.9	293.2	73,900	156,200	35.6	314.4	62,700	147,700	270
280					19.7	268.6	68,400	148,500	30.6	298.3	57,800	140,400	280
290					6.9	222.1	62,900	133,400	24.5	278.1	53,200	133,600	290
300									16.3	249.4	48,700	127,100	300

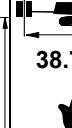
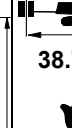
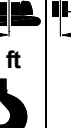
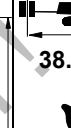
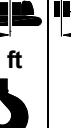
MLC650 VPC-MAX S-3

ASME B30.5



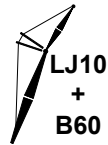
881,800 lb



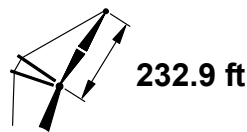
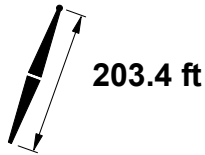
 85°					 83°				 80°				
 ft	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 ft
95	73.9	435.7	224,700	224,700									95
100	72.6	434.0	224,400	224,400									100
105	71.3	432.3	224,000	224,000									105
110	70.0	430.4	223,500	223,500	71.8	432.2	222,600	222,600					110
115	68.6	428.4	222,700	222,700	70.5	430.4	222,600	222,600					115
120	67.3	426.3	221,900	221,900	69.2	428.4	222,600	222,600					120
125	65.9	424.0	221,000	221,000	67.8	426.3	222,600	222,600					125
130	64.6	421.6	219,900	219,900	66.5	424.1	222,300	222,300	69.3	426.9	216,300	216,300	130
135	63.2	419.0	218,700	218,700	65.1	421.8	221,900	221,900	68.0	424.8	216,300	216,300	135
140	61.8	416.3	217,500	217,500	63.8	419.3	221,400	221,400	66.6	422.6	216,300	216,300	140
145	60.4	413.4	211,900	211,900	62.4	416.6	220,800	220,800	65.3	420.3	216,300	216,300	145
150	58.9	410.4	205,500	205,500	61.0	413.8	220,100	220,100	63.9	417.8	216,300	216,300	150
155	57.5	407.1	199,000	199,000	59.5	410.8	219,300	219,300	62.5	415.1	216,300	216,300	155
160	56.0	403.7	192,600	192,600	58.1	407.6	218,400	218,400	61.1	412.3	212,600	216,300	160
165	54.5	400.1	186,200	186,200	56.6	404.3	214,400	214,400	59.7	409.4	203,900	216,300	165
170	52.9	396.3	179,900	179,900	55.1	400.7	208,000	208,000	58.2	406.2	195,800	216,300	170
175	51.3	392.2	173,800	173,800	53.6	397.0	199,900	201,600	56.8	402.9	188,100	216,300	175
180	49.7	387.9	167,800	167,800	52.0	393.1	192,300	195,200	55.3	399.4	180,800	216,300	180
185	48.0	383.4	161,900	161,900	50.4	388.9	185,100	188,800	53.7	395.7	173,900	216,300	185
190	46.3	378.6	156,400	156,400	48.7	384.4	178,300	182,500	52.2	391.8	167,400	216,300	190
195	44.6	373.5	150,900	150,900	47.1	379.8	171,900	176,400	50.6	387.6	161,300	216,300	195
200	42.8	368.0	145,800	145,800	45.3	374.8	165,700	170,400	48.9	383.2	155,400	211,300	200
205	40.9	362.2	140,900	140,900	43.5	369.5	159,900	164,600	47.2	378.5	149,800	204,900	205
210	38.9	356.0	136,300	136,300	41.7	363.8	154,300	159,000	45.5	373.6	144,500	198,500	210
215	36.9	349.3	131,900	131,900	39.7	357.8	149,000	153,700	43.7	368.3	139,500	192,200	215
220	34.7	342.1	127,900	127,900	37.7	351.3	143,900	148,700	41.9	362.7	134,600	185,900	220
230	30.0	325.6	120,900	120,900	33.4	336.7	134,400	139,400	37.9	350.3	125,600	174,000	230
240	24.4	305.2	115,400	115,400	28.4	319.3	125,600	131,600	33.6	335.8	117,200	162,900	240
250	17.0	277.1	112,300	112,300	22.5	297.2	117,400	125,500	28.7	318.6	109,500	153,100	250
260					14.1	264.9	109,600	112,600	22.8	296.8	102,300	138,100	260
270									14.7	265.4	95,300	117,900	270
280													280
290													290
300													300
310													310
320													320

MLC650 VPC-MAX S-3

ASME B30.5



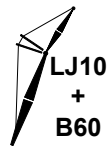
881,800 lb



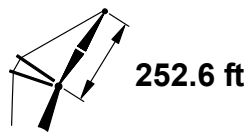
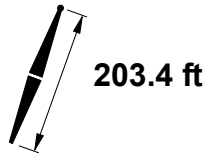
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165	64.6	414.8	183,200	201,800									165
170	63.2	412.3	175,600	201,800									170
175	61.8	409.5	168,500	201,800									175
180	60.3	406.6	161,900	201,800									180
185	58.9	403.6	155,500	201,800									185
190	57.4	400.3	149,600	201,800									190
195	55.9	396.9	143,900	201,800									195
200	54.4	393.3	138,500	201,800	59.5	399.1	121,900	186,500					200
205	52.9	389.5	133,400	201,800	58.0	396.0	117,200	186,500					205
210	51.3	385.4	128,500	201,800	56.5	392.6	112,800	186,500					210
215	49.7	381.1	123,800	201,800	55.0	389.1	108,500	186,500					215
220	48.0	376.6	119,400	201,800	53.5	385.3	104,400	186,500					220
230	44.6	366.7	111,000	201,600	50.3	377.2	96,800	186,500					230
240	40.8	355.4	103,400	190,800	47.0	368.0	89,800	180,700	52.3	375.4	76,600	170,800	240
250	36.8	342.5	96,300	177,300	43.4	357.7	83,300	171,100	49.1	366.9	70,700	161,700	250
260	32.4	327.4	89,700	164,900	39.6	346.0	77,400	162,400	45.7	357.3	65,300	153,400	260
270	27.3	309.1	83,600	153,500	35.5	332.4	71,800	154,200	42.1	346.5	60,200	145,600	270
280	21.0	285.6	77,800	139,400	30.9	316.5	66,500	146,700	38.2	334.2	55,500	138,400	280
290	11.5	248.7	72,100	117,900	25.5	296.9	61,600	139,600	33.9	319.8	51,000	131,700	290
300					18.6	270.8	56,900	133,000	29.0	302.8	46,800	125,400	300
310					5.7	219.5	51,900	113,800	23.2	281.3	42,800	119,400	310
320									15.3	250.7	38,800	113,800	320

MLC650 VPC-MAX S-3

ASME B30.5



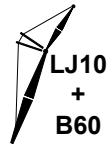
881,800 lb



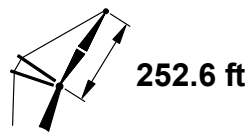
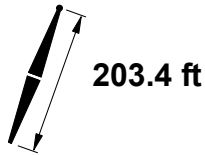
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100	74.0	454.7	191,900	191,900									100
105	72.8	453.1	191,500	191,500									105
110	71.6	451.4	191,200	191,200									110
115	70.4	449.6	190,700	190,700	72.1	451.3	189,700	189,700					115
120	69.2	447.6	190,100	190,100	70.9	449.5	189,700	189,700					120
125	67.9	445.6	189,400	189,400	69.7	447.6	189,600	189,600					125
130	66.7	443.4	188,600	188,600	68.4	445.6	189,400	189,400					130
135	65.4	441.1	187,800	187,800	67.2	443.5	189,100	189,100	69.8	446.1	183,700	183,700	135
140	64.2	438.6	186,900	186,900	66.0	441.2	188,700	188,700	68.6	444.1	183,700	183,700	140
145	62.9	436.0	185,900	185,900	64.7	438.8	188,200	188,200	67.3	441.9	183,700	183,700	145
150	61.6	433.3	184,900	184,900	63.4	436.2	187,700	187,700	66.1	439.7	183,700	183,700	150
155	60.3	430.4	183,900	183,900	62.1	433.6	187,200	187,200	64.8	437.3	183,700	183,700	155
160	59.0	427.3	180,000	180,000	60.8	430.7	186,500	186,500	63.6	434.8	183,700	183,700	160
165	57.6	424.1	174,900	174,900	59.5	427.7	185,900	185,900	62.3	432.1	183,700	183,700	165
170	56.3	420.7	169,700	169,700	58.2	424.6	185,200	185,200	61.0	429.3	183,700	183,700	170
175	54.9	417.2	164,600	164,600	56.8	421.3	184,400	184,400	59.7	426.3	183,700	183,700	175
180	53.4	413.4	159,600	159,600	55.4	417.8	183,400	183,400	58.3	423.2	177,200	183,700	180
185	52.0	409.5	154,600	154,600	54.0	414.1	178,300	178,300	57.0	419.9	170,300	183,700	185
190	50.5	405.3	149,600	149,600	52.6	410.3	173,300	173,300	55.6	416.4	163,900	183,700	190
195	49.0	400.9	144,900	144,900	51.1	406.2	168,200	168,200	54.2	412.8	157,700	183,700	195
200	47.5	396.3	140,200	140,200	49.6	401.9	162,400	163,100	52.8	409.0	151,900	183,700	200
205	45.9	391.4	135,700	135,700	48.1	397.4	156,600	158,100	51.3	404.9	146,400	183,700	205
210	44.3	386.3	131,300	131,300	46.6	392.6	151,100	153,200	49.8	400.6	141,100	183,700	210
215	42.6	380.8	127,100	127,100	44.9	387.6	145,800	148,400	48.3	396.1	136,000	183,000	215
220	40.8	375.0	123,000	123,000	43.3	382.2	140,800	143,700	46.7	391.4	131,200	178,000	220
230	37.2	362.2	115,600	115,600	39.8	370.5	131,300	134,700	43.5	381.1	122,300	167,900	230
240	33.1	347.4	109,100	109,100	36.0	357.2	122,600	126,600	40.0	369.5	114,000	158,000	240
250	28.5	330.0	103,600	103,600	31.8	341.8	114,600	119,400	36.2	356.2	106,400	148,500	250
260	23.1	308.4	99,400	99,400	27.1	323.3	107,200	113,200	32.1	340.9	99,300	139,800	260
270	16.0	278.6	97,200	97,200	21.3	300.0	100,200	108,400	27.4	322.6	92,700	132,000	270
280					13.2	265.6	93,400	94,600	21.7	299.6	86,500	117,300	280
290									13.8	266.3	80,500	99,600	290
300													300
310													310
320													320
330													330
340													340

MLC650 VPC-MAX S-3

ASME B30.5



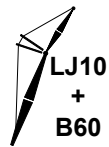
881,800 lb



ft	75°				70°				65°				ft
	ft	°	ft	lb	ft	°	ft	lb	ft	°	ft	lb	
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175	64.2	431.8	164,500	171,700									175
180	62.9	429.2	157,800	171,700									180
185	61.6	426.5	151,500	171,700									185
190	60.3	423.6	145,600	171,700									190
195	58.9	420.5	139,900	171,700									195
200	57.6	417.3	134,600	171,700									200
205	56.2	413.9	129,500	171,700									205
210	54.8	410.4	124,600	171,700	59.5	416.1	108,600	158,100					210
215	53.4	406.6	120,000	171,700	58.1	412.9	104,400	158,100					215
220	52.0	402.7	115,600	171,700	56.8	409.6	100,300	158,100					220
230	49.0	394.1	107,300	171,700	54.0	402.4	92,800	158,100					230
240	45.9	384.6	99,800	171,700	51.1	394.5	85,800	158,100					240
250	42.5	374.0	92,800	171,700	48.0	385.7	79,500	158,100	52.9	392.6	66,500	146,100	250
260	39.0	361.9	86,300	163,000	44.9	375.8	73,600	158,100	50.0	384.3	61,100	146,100	260
270	35.2	348.2	80,300	151,700	41.5	364.8	68,100	151,200	46.9	375.1	56,200	142,400	270
280	30.9	332.2	74,700	141,400	37.8	352.3	62,900	143,700	43.6	364.8	51,500	135,200	280
290	25.9	312.9	69,400	131,800	33.9	337.9	58,100	136,800	40.2	353.3	47,200	128,600	290
300	19.9	288.0	64,300	118,700	29.4	321.0	53,600	130,200	36.4	340.2	43,100	122,300	300
310	10.6	248.6	59,300	99,700	24.2	300.3	49,300	124,100	32.3	325.0	39,200	116,500	310
320					17.5	272.7	45,200	118,300	27.6	306.9	35,600	111,000	320
330					4.4	215.6	40,700	95,500	22.0	284.2	32,000	105,800	330
340									14.3	251.8	28,500	100,900	340

MLC650 VPC-MAX S-3

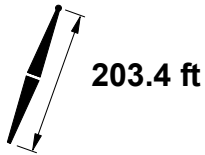
ASME B30.5



881,800 lb



360°



203.4 ft

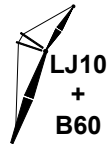


272.3 ft

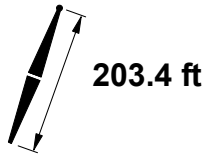
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105	74.1	473.8	166,600	166,600									105
110	73.0	472.2	165,900	165,900									110
115	71.9	470.5	165,500	165,500									115
120	70.7	468.7	165,000	165,000	72.3	470.4	164,300	164,300					120
125	69.6	466.8	164,400	164,400	71.2	468.6	164,200	164,200					125
130	68.5	464.8	163,800	163,800	70.1	466.8	164,000	164,000					130
135	67.3	462.7	163,100	163,100	69.0	464.8	163,800	163,800					135
140	66.2	460.5	162,300	162,300	67.8	462.7	163,400	163,400					140
145	65.0	458.1	161,500	161,500	66.7	460.5	163,100	163,100	69.1	463.3	159,400	159,400	145
150	63.8	455.6	160,700	160,700	65.5	458.2	162,600	162,600	67.9	461.2	159,400	159,400	150
155	62.7	453.0	159,800	159,800	64.3	455.8	162,100	162,100	66.8	459.0	159,400	159,400	155
160	61.5	450.2	158,900	158,900	63.1	453.2	161,600	161,600	65.6	456.7	159,400	159,400	160
165	60.2	447.3	158,000	158,000	62.0	450.5	161,000	161,000	64.5	454.3	159,400	159,400	165
170	59.0	444.3	157,000	157,000	60.7	447.7	160,400	160,400	63.3	451.8	159,400	159,400	170
175	57.8	441.1	153,100	153,100	59.5	444.7	159,700	159,700	62.1	449.1	159,400	159,400	175
180	56.5	437.7	149,000	149,000	58.3	441.6	159,100	159,100	60.9	446.2	159,400	159,400	180
185	55.2	434.2	144,900	144,900	57.0	438.3	158,400	158,400	59.7	443.3	159,400	159,400	185
190	53.9	430.5	140,700	140,700	55.7	434.8	157,600	157,600	58.4	440.2	159,300	159,300	190
195	52.6	426.7	136,700	136,700	54.4	431.2	156,900	156,900	57.2	436.9	155,400	155,400	195
200	51.2	422.6	132,600	132,600	53.1	427.4	152,800	152,800	55.9	433.5	149,600	158,700	200
205	49.8	418.4	128,700	128,700	51.8	423.5	148,700	148,700	54.6	429.9	144,100	158,400	205
210	48.4	413.9	124,800	124,800	50.4	419.3	144,600	144,600	53.3	426.1	138,900	158,100	210
215	47.0	409.2	121,100	121,100	49.0	414.9	140,500	140,500	51.9	422.2	133,900	157,800	215
220	45.5	404.2	117,400	117,400	47.6	410.3	136,500	136,500	50.6	418.0	129,100	157,300	220
230	42.4	393.5	110,400	110,400	44.6	400.4	128,700	128,700	47.7	409.1	120,200	156,600	230
240	39.1	381.5	104,100	104,100	41.5	389.3	120,800	121,200	44.8	399.2	112,000	150,000	240
250	35.6	368.0	98,300	98,300	38.1	376.9	112,900	114,300	41.7	388.2	104,400	141,900	250
260	31.7	352.4	93,200	93,200	34.5	362.8	105,600	107,900	38.3	375.9	97,400	134,100	260
270	27.3	334.0	88,900	88,900	30.5	346.5	98,700	102,200	34.7	361.9	91,000	126,700	270
280	22.1	311.3	85,800	85,800	25.9	327.1	92,300	97,400	30.7	345.7	84,900	119,800	280
290	15.1	279.9	82,700	82,700	20.3	302.5	86,300	93,900	26.1	326.5	79,200	113,600	290
300					12.3	266.2	79,800	79,800	20.6	302.3	73,800	100,000	300
310									12.9	267.0	68,600	84,400	310
320													320
330													330
340													340
350													350
360													360

MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



203.4 ft

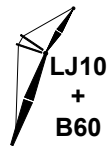


272.3 ft

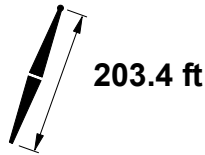
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180	65.0	451.3	148,100	148,100									180
185	63.8	448.8	148,100	148,100									185
190	62.6	446.2	142,900	148,100									190
195	61.4	443.4	137,300	148,100									195
200	60.2	440.5	132,000	148,100									200
205	59.0	437.5	126,900	148,100									205
210	57.7	434.3	122,100	148,100									210
215	56.5	431.0	117,500	148,100									215
220	55.2	427.4	113,100	148,100	59.5	433.1	97,500	137,200					220
230	52.6	419.9	104,900	148,100	57.0	426.6	90,000	137,200					230
240	49.8	411.6	97,400	148,100	54.4	419.5	83,200	137,200					240
250	47.0	402.4	90,500	148,100	51.7	411.8	76,900	137,200					250
260	44.0	392.2	84,100	148,100	48.9	403.2	71,000	137,200	53.4	409.7	58,300	126,300	260
270	40.8	380.9	78,200	148,100	46.0	393.7	65,600	137,200	50.7	401.7	53,400	126,300	270
280	37.4	368.2	72,600	139,900	43.0	383.2	60,600	137,200	47.9	392.8	48,900	126,300	280
290	33.7	353.6	67,400	130,500	39.7	371.5	55,900	134,800	44.9	382.9	44,600	126,300	290
300	29.5	336.8	62,600	121,800	36.3	358.2	51,400	128,400	41.8	372.0	40,600	120,300	300
310	24.8	316.5	57,900	113,800	32.4	343.1	47,300	122,300	38.5	359.7	36,800	114,500	310
320	18.9	290.3	53,500	101,600	28.1	325.3	43,300	116,600	34.9	345.9	33,300	109,100	320
330	9.8	248.2	49,100	84,700	23.1	303.5	39,500	111,300	30.9	329.8	29,900	104,000	330
340					16.6	274.3	35,900	102,200	26.4	310.8	26,700	99,200	340
350					2.6	208.8	31,800	79,800	21.0	286.9	23,500	94,600	350
360									13.4	252.6	20,400	90,200	360

MLC650 VPC-MAX S-3

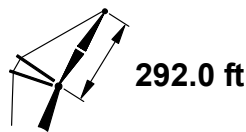
ASME B30.5



881,800 lb



203.4 ft

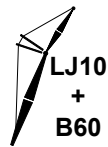


292.0 ft

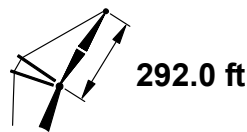
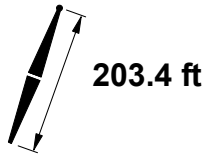
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
110	74.2	492.8	142,500	142,500									110
115	73.1	491.3	142,100	142,100									115
120	72.1	489.6	141,600	141,600									120
125	71.1	487.9	141,100	141,100	72.5	489.4	140,400	140,400					125
130	70.0	486.0	140,500	140,500	71.5	487.7	140,200	140,200					130
135	69.0	484.0	139,900	139,900	70.4	485.9	139,900	139,900					135
140	67.9	482.0	139,200	139,200	69.4	484.0	139,500	139,500					140
145	66.8	479.8	138,400	138,400	68.3	482.0	139,100	139,100					145
150	65.7	477.5	137,700	137,700	67.3	479.9	138,700	138,700	69.5	482.5	135,500	135,500	150
155	64.7	475.1	136,900	136,900	66.2	477.6	138,200	138,200	68.4	480.5	135,500	135,500	155
160	63.6	472.6	136,100	136,100	65.1	475.3	137,700	137,700	67.4	478.3	135,500	135,500	160
165	62.4	469.9	135,300	135,300	64.0	472.8	137,100	137,100	66.3	476.1	135,400	135,400	165
170	61.3	467.2	134,400	134,400	62.9	470.2	136,500	136,500	65.2	473.8	135,300	135,300	170
175	60.2	464.3	133,600	133,600	61.8	467.5	135,900	135,900	64.1	471.3	135,100	135,100	175
180	59.0	461.2	132,700	132,700	60.7	464.6	135,300	135,300	63.0	468.7	134,900	134,900	180
185	57.9	458.1	131,900	131,900	59.5	461.7	134,600	134,600	61.9	466.0	134,700	134,700	185
190	56.7	454.7	130,600	130,600	58.4	458.5	133,900	133,900	60.8	463.2	134,400	134,400	190
195	55.5	451.3	127,300	127,300	57.2	455.3	133,300	133,300	59.6	460.2	134,100	134,100	195
200	54.3	447.6	124,000	124,000	56.0	451.9	132,600	132,600	58.5	457.1	133,700	133,700	200
205	53.1	443.8	120,700	120,700	54.8	448.3	131,900	131,900	57.3	453.9	133,400	133,400	205
210	51.8	439.9	117,400	117,400	53.6	444.6	131,200	131,200	56.1	450.5	133,000	133,000	210
215	50.5	435.7	114,200	114,200	52.3	440.7	130,500	130,500	54.9	447.0	130,000	132,600	215
220	49.2	431.4	111,000	111,000	51.1	436.6	128,000	128,000	53.7	443.2	125,200	132,100	220
230	46.6	422.1	104,900	104,900	48.5	427.9	121,500	121,500	51.2	435.3	116,400	131,300	230
240	43.7	411.8	99,000	99,000	45.7	418.3	115,100	115,100	48.6	426.6	108,200	130,400	240
250	40.8	400.5	93,600	93,600	42.9	407.7	108,900	108,900	45.9	417.1	100,700	129,600	250
260	37.6	387.8	88,500	88,500	39.9	396.0	102,100	103,000	43.0	406.6	93,800	127,200	260
270	34.2	373.5	83,900	83,900	36.6	382.9	95,300	97,500	40.0	395.0	87,300	120,800	270
280	30.4	357.2	79,900	79,900	33.1	368.1	89,000	92,500	36.8	381.9	81,300	114,600	280
290	26.2	337.9	76,600	76,600	29.2	351.0	83,100	88,100	33.3	367.2	75,700	108,800	290
300	21.1	314.1	74,100	74,100	24.8	330.6	77,500	84,300	29.5	350.3	70,500	103,400	300
310	14.3	281.0	67,800	67,800	19.4	304.9	72,200	79,600	25.0	330.1	65,500	95,400	310
320					11.6	266.4	65,300	65,300	19.7	304.7	60,800	83,500	320
330									12.1	267.5	56,100	69,500	330
340													340
350													350
360													360
370													370
380													380

MLC650 VPC-MAX S-3

ASME B30.5



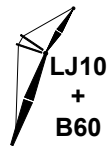
881,800 lb



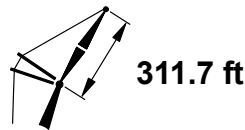
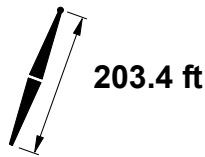
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190	64.6	468.3	125,300	125,300									190
195	63.5	465.8	125,300	125,300									195
200	62.4	463.2	125,300	125,300									200
205	61.3	460.4	122,700	125,300									205
210	60.2	457.5	117,900	125,300									210
215	59.0	454.5	113,300	125,300									215
220	57.9	451.3	109,000	125,300									220
230	55.5	444.5	100,800	125,300	59.5	450.0	85,700	115,100					230
240	53.0	437.1	93,400	125,300	57.1	443.6	78,900	115,100					240
250	50.5	428.9	86,500	125,300	54.7	436.6	72,600	115,100					250
260	47.9	420.0	80,100	125,300	52.3	429.0	66,800	115,100					260
270	45.1	410.3	74,200	125,300	49.7	420.6	61,400	115,100	53.8	426.8	49,000	106,300	270
280	42.3	399.5	68,800	125,300	47.0	411.5	56,500	115,100	51.3	418.9	44,500	106,300	280
290	39.2	387.5	63,600	125,300	44.3	401.4	51,800	115,100	48.7	410.3	40,300	106,300	290
300	35.9	374.1	58,800	118,900	41.3	390.3	47,400	115,100	46.0	400.8	36,300	106,300	300
310	32.3	358.8	54,300	110,900	38.2	377.9	43,300	115,100	43.2	390.4	32,600	106,300	310
320	28.3	341.1	50,100	103,600	34.8	363.9	39,500	113,500	40.2	378.8	29,100	105,900	320
330	23.7	319.8	46,000	96,700	31.1	348.0	35,800	108,300	37.0	365.9	25,800	100,800	330
340	18.0	292.3	42,100	85,200	27.0	329.3	32,300	101,600	33.5	351.3	22,700	96,100	340
350					22.1	306.5	29,000	94,900	29.7	334.4		91,600	350
360					15.8	275.8	25,700	85,900	25.3	314.5		87,300	360
370									20.0	289.4		83,200	370
380									12.6	253.3		79,300	380

MLC650 VPC-MAX S-3

ASME B30.5



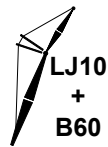
881,800 lb



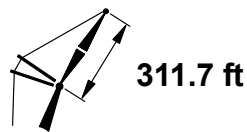
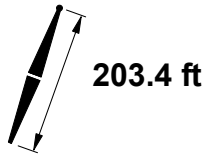
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.2	511.9	123,400	123,400									115
120	73.3	510.3	122,700	122,700									120
125	72.3	508.7	122,200	122,200									125
130	71.3	507.0	121,700	121,700	72.7	508.5	121,100	121,100					130
135	70.3	505.2	121,100	121,100	71.7	506.8	120,900	120,900					135
140	69.4	503.2	120,500	120,500	70.8	505.1	120,500	120,500					140
145	68.4	501.2	119,900	119,900	69.8	503.2	120,100	120,100					145
150	67.4	499.1	119,200	119,200	68.8	501.2	119,700	119,700					150
155	66.4	496.9	118,600	118,600	67.8	499.1	119,200	119,200	69.9	501.6	116,400	116,400	155
160	65.4	494.6	117,900	117,900	66.8	497.0	118,800	118,800	68.9	499.7	116,400	116,400	160
165	64.3	492.1	117,100	117,100	65.8	494.7	118,300	118,300	67.9	497.6	116,300	116,300	165
170	63.3	489.6	116,400	116,400	64.8	492.3	117,700	117,700	66.9	495.5	116,100	116,100	170
175	62.3	486.9	115,600	115,600	63.7	489.8	117,200	117,200	65.9	493.2	115,900	115,900	175
180	61.2	484.1	114,900	114,900	62.7	487.2	116,600	116,600	64.9	490.8	115,700	115,700	180
185	60.1	481.2	114,100	114,100	61.6	484.4	116,000	116,000	63.8	488.3	115,400	115,400	185
190	59.1	478.2	113,300	113,300	60.6	481.6	115,400	115,400	62.8	485.7	115,200	115,200	190
195	58.0	475.0	112,600	112,600	59.5	478.6	114,800	114,800	61.8	483.0	114,900	114,900	195
200	56.9	471.7	111,800	111,800	58.4	475.5	114,300	114,300	60.7	480.2	114,500	114,500	200
205	55.8	468.3	111,000	111,000	57.3	472.3	113,600	113,600	59.6	477.2	114,200	114,200	205
210	54.6	464.7	109,100	109,100	56.2	468.9	112,900	112,900	58.5	474.1	113,800	113,800	210
215	53.5	461.0	106,400	106,400	55.1	465.4	112,300	112,300	57.5	470.9	113,400	113,400	215
220	52.3	457.1	103,700	103,700	54.0	461.7	111,700	111,700	56.3	467.5	113,000	113,000	220
230	49.9	448.8	98,500	98,500	51.6	453.9	110,400	110,400	54.1	460.4	112,200	112,200	230
240	47.5	439.7	93,300	93,300	49.2	445.4	107,700	107,700	51.8	452.6	106,000	111,400	240
250	44.9	429.9	88,400	88,400	46.7	436.1	102,500	102,500	49.3	444.1	98,600	110,500	250
260	42.2	419.0	83,700	83,700	44.1	425.9	97,300	97,300	46.8	434.9	91,700	109,700	260
270	39.3	407.1	79,400	79,400	41.3	414.8	92,400	92,400	44.2	424.8	85,300	108,900	270
280	36.2	393.8	75,300	75,300	38.4	402.5	87,200	87,700	41.5	413.7	79,300	108,100	280
290	32.9	378.8	71,700	71,700	35.3	388.7	81,300	83,300	38.6	401.4	73,800	103,000	290
300	29.3	361.7	68,500	68,500	31.9	373.2	75,800	79,300	35.5	387.8	68,600	98,100	300
310	25.1	341.5	65,900	65,900	28.1	355.3	70,700	75,700	32.1	372.3	63,700	93,400	310
320	20.2	316.6	64,000	64,000	23.8	334.0	65,800	72,800	28.3	354.6	59,100	89,100	320
330	13.6	281.9	56,200	56,200	18.5	307.0	61,100	67,000	24.1	333.5	54,700	81,100	330
340					10.8	266.5	53,900	53,900	18.8	306.9	50,500	70,500	340
350									11.4	267.7	46,400	57,900	350
360													360
370													370
380													380
390													390
400													400

MLC650 VPC-MAX S-3

ASME B30.5



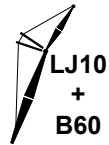
881,800 lb



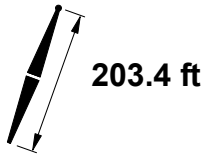
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200	64.3	485.4	107,200	107,200									200
205	63.3	482.8	107,200	107,200									205
210	62.2	480.1	107,200	107,200									210
215	61.2	477.4	107,200	107,200									215
220	60.1	474.5	106,400	107,200									220
230	58.0	468.3	98,300	107,200									230
240	55.7	461.5	90,900	107,200	59.5	467.0	76,100	97,900					240
250	53.5	454.2	84,100	107,200	57.3	460.6	69,900	97,900					250
260	51.1	446.2	77,800	107,200	55.0	453.7	64,200	97,900					260
270	48.7	437.6	71,900	107,200	52.7	446.2	58,900	97,900					270
280	46.2	428.1	66,500	107,200	50.4	438.0	53,900	97,900	54.2	443.9	41,700	89,700	280
290	43.5	417.8	61,400	107,200	47.9	429.1	49,300	97,900	51.9	436.2	37,600	89,700	290
300	40.7	406.4	56,700	107,200	45.3	419.4	45,000	97,900	49.5	427.8	33,700	89,700	300
310	37.8	393.8	52,200	107,200	42.7	408.7	41,000	97,900	47.0	418.6	30,000	89,700	310
320	34.6	379.7	48,000	102,200	39.8	397.0	37,200	97,900	44.4	408.5	26,600	89,700	320
330	31.1	363.7	44,100	95,500	36.8	383.9	33,600	97,900	41.6	397.5	23,400	89,700	330
340	27.3	345.2	40,300	89,100	33.5	369.3	30,200	97,900	38.7	385.3	20,300	89,700	340
350	22.8	322.9	36,700	83,000	30.0	352.6	26,900	93,600	35.6	371.7		89,700	350
360	17.2	294.1	33,200	72,200	25.9	333.1	23,800	87,400	32.3	356.4		85,400	360
370	8.2	246.6	29,600	58,300	21.2	309.3	20,900	81,600	28.6	338.8		81,500	370
380					15.0	277.1		73,100	24.3	317.9		77,600	380
390									19.1	291.8		74,000	390
400									11.9	253.7		70,500	400

MLC650 VPC-MAX S-3

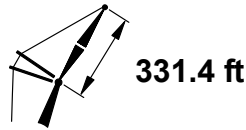
ASME B30.5



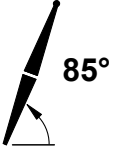
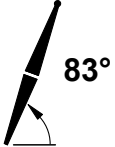
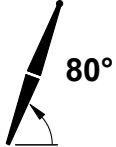
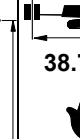
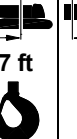
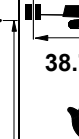
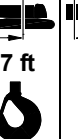
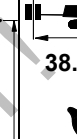
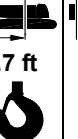
881,800 lb



203.4 ft

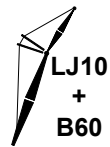


331.4 ft

 85°					 83°					 80°					
															
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft		
120	74.3	530.9	106,100	106,100									120		
125	73.4	529.4	105,600	105,600									125		
130	72.5	527.8	105,000	105,000									130		
135	71.6	526.1	104,400	104,400	72.9	527.6	103,800	103,800					135		
140	70.6	524.3	103,900	103,900	71.9	525.9	103,600	103,600					140		
145	69.7	522.4	103,300	103,300	71.0	524.2	103,200	103,200					145		
150	68.8	520.4	102,700	102,700	70.1	522.3	102,800	102,800					150		
155	67.9	518.4	102,000	102,000	69.2	520.4	102,300	102,300					155		
160	66.9	516.2	101,400	101,400	68.2	518.4	101,800	101,800					160		
165	66.0	514.0	100,700	100,700	67.3	516.3	101,300	101,300	69.3	518.9	99,200	99,200	165		
170	65.0	511.6	100,000	100,000	66.4	514.0	100,800	100,800	68.3	516.9	99,000	99,000	170		
175	64.0	509.1	99,300	99,300	65.4	511.7	100,300	100,300	67.4	514.8	98,800	98,800	175		
180	63.1	506.6	98,600	98,600	64.4	509.3	99,700	99,700	66.5	512.5	98,500	98,500	180		
185	62.1	503.9	97,900	97,900	63.5	506.8	99,200	99,200	65.5	510.2	98,200	98,200	185		
190	61.1	501.1	97,200	97,200	62.5	504.1	98,600	98,600	64.5	507.8	97,900	97,900	190		
195	60.1	498.2	96,500	96,500	61.5	501.4	98,100	98,100	63.6	505.3	97,600	97,600	195		
200	59.1	495.2	95,800	95,800	60.5	498.5	97,500	97,500	62.6	502.7	97,300	97,300	200		
205	58.1	492.0	95,100	95,100	59.5	495.6	96,900	96,900	61.6	500.0	97,000	97,000	205		
210	57.0	488.7	94,400	94,400	58.5	492.5	96,300	96,300	60.6	497.1	96,600	96,600	210		
215	56.0	485.3	93,800	93,800	57.5	489.2	95,800	95,800	59.6	494.1	96,200	96,200	215		
220	54.9	481.8	93,100	93,100	56.4	485.9	95,200	95,200	58.6	491.1	95,800	95,800	220		
230	52.8	474.3	90,700	90,700	54.3	478.8	94,000	94,000	56.5	484.5	95,100	95,100	230		
240	50.5	466.1	86,400	86,400	52.1	471.1	92,900	92,900	54.4	477.4	94,200	94,200	240		
250	48.2	457.3	82,100	82,100	49.9	462.8	91,700	91,700	52.2	469.8	93,400	93,400	250		
260	45.8	447.8	78,000	78,000	47.5	453.8	90,200	90,200	50.0	461.5	88,000	92,600	260		
270	43.3	437.3	74,000	74,000	45.1	443.9	85,900	85,900	47.7	452.5	81,700	91,800	270		
280	40.7	425.9	70,300	70,300	42.6	433.3	81,800	81,800	45.3	442.8	75,800	91,100	280		
290	38.0	413.4	66,800	66,800	39.9	421.5	77,800	77,800	42.7	432.1	70,200	90,300	290		
300	35.0	399.5	63,600	63,600	37.1	408.6	72,500	74,100	40.1	420.5	65,100	89,700	300		
310	31.8	383.9	60,700	60,700	34.1	394.2	67,400	70,700	37.3	407.6	60,200	85,300	310		
320	28.2	366.0	58,200	58,200	30.8	378.0	62,600	67,400	34.2	393.3	55,700	79,300	320		
330	24.2	345.0	56,100	56,100	27.1	359.4	58,000	64,400	31.0	377.2	51,400	73,300	330		
340	19.4	319.0	53,100	53,100	22.9	337.2	53,700	58,600	27.3	358.7	47,300	67,300	340		
350	12.9	282.6	44,300	44,300	17.7	309.0	49,600	53,100	23.2	336.7	43,400	61,300	350		
360					10.2	266.3	42,300	42,300	18.1	309.0	39,700	55,500	360		
370									10.7	267.7	36,000	46,000	370		
380													380		
390													390		
400													400		
410													410		
420													420		

MLC650 VPC-MAX S-3

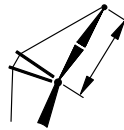
ASME B30.5



881,800 lb



203.4 ft

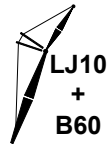


331.4 ft

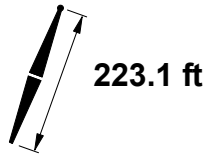
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205	65.0	504.8	90,500	90,500								205
210	64.0	502.4	90,500	90,500								210
215	63.1	499.8	90,500	90,500								215
220	62.1	497.1	90,500	90,500								220
230	60.1	491.4	90,500	90,500								230
240	58.1	485.2	86,900	90,500								240
250	56.0	478.5	80,100	90,500	59.5	483.9	65,700	82,200				250
260	53.8	471.3	73,900	90,500	57.4	477.6	60,000	82,200				260
270	51.6	463.5	68,000	90,500	55.3	470.7	54,700	82,200				270
280	49.4	455.0	62,600	90,400	53.2	463.3	49,800	82,200				280
290	47.0	445.8	57,600	90,100	50.9	455.3	45,300	82,200	54.5	461.0	74,600	290
300	44.6	435.9	52,900	89,900	48.7	446.6	41,000	82,200	52.4	453.4	74,600	300
310	42.0	425.0	48,500	89,700	46.3	437.2	37,000	82,200	50.1	445.1	74,600	310
320	39.3	413.0	44,300	89,600	43.8	427.0	33,200	82,200	47.8	436.2	74,600	320
330	36.5	399.8	40,400	87,200	41.2	415.7	29,700	82,200	45.4	426.5	74,600	330
340	33.4	385.1	36,700	81,200	38.5	403.4	26,400	82,200	42.9	415.9	74,600	340
350	30.0	368.4	33,200	75,000	35.5	389.8	23,200	82,200	40.2	404.3	74,600	350
360	26.3	349.1	29,900	68,900	32.4	374.5	20,200	81,300	37.4	391.5	74,600	360
370	21.9	325.9	26,700	62,800	28.9	357.1		75,300	34.4	377.3	74,600	370
380	16.4	295.8	23,500	56,900	25.0	336.7		69,200	31.1	361.3	74,600	380
390	7.5	245.2	20,300	46,400	20.4	311.9		63,100	27.5	342.9	71,100	390
400					14.3	278.2		57,500	23.4	321.2	67,700	400
410									18.4	293.9	62,700	410
420									11.2	253.8	57,500	420

MLC650 VPC-MAX S-3

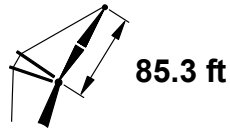
ASME B30.5



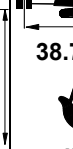
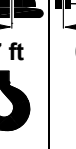
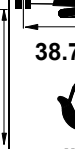
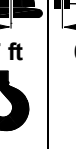
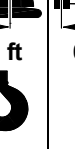
881,800 lb



223.1 ft

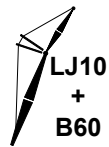


85.3 ft

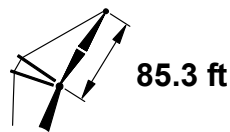
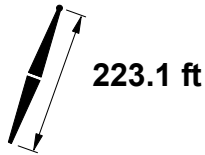
	 85°					 83°					 80°							
																		
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55	74.3		313.7	594,200 d	594,200 d													55
60	70.7		311.8	577,200 c	577,200 c													60
65	67.1		309.6	560,700 c	560,700 c	72.7	312.0	593,300 c	593,300 c									65
70	63.3		306.9	536,100 c	536,100 c	69.1	309.9	577,500 c	577,500 c									70
75	59.3		303.9	496,000 b	496,000 b	65.4	307.5	561,800 c	561,800 c									75
80	55.2		300.3	462,200 b	462,200 b	61.5	304.7	533,900 b	546,800 b									80
85	50.8		296.1	433,500	433,500	57.5	301.4	497,700 b	517,200 b	66.6	306.4	474,400 c	577,000 c					85
90	46.1		291.2	409,500	409,500	53.3	297.5	465,700 b	482,000 b	62.7	303.7	443,900 b	562,800 b					90
95	41.0		285.3	389,900	389,900	48.8	293.0	437,100	452,300	58.8	300.6	416,600 b	549,100 b					95
100	35.1		278.2	374,700	374,700	43.9	287.7	411,400	427,700	54.6	296.9	392,200 b	536,300 b					100
105	28.1		269.0	364,800	364,800	38.4	281.4	388,200	407,600	50.2	292.6	370,200	510,900					105
110	18.5		255.5	353,700	353,700	32.2	273.5	367,000	392,500	45.4	287.6	350,200	479,900					110
115						24.3	262.9	347,500	383,500	40.2	281.6	331,900	454,400					115
120						11.1	243.8	316,300	316,300	34.2	274.3	315,000	434,100					120
125										27.0	264.7	299,400	419,600					125
130										16.6	250.1	284,500	366,300					130
135																		135
140																		140
145																		145
150																		150
155																		155
160																		160
165																		165
170																		170
175																		175
180																		180
185																		185

MLC650 VPC-MAX S-3

ASME B30.5



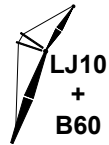
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110	62.0	298.6	321,600 b	522,400 b									110
115	58.0	295.4	304,900 b	496,100 b									115
120	53.7	291.6	289,500 b	472,100 b									120
125	49.3	287.2	275,400	450,200									125
130	44.4	282.0	262,300	430,100									130
135	39.1	275.7	250,200	411,600	56.7	288.2	228,000	394,500					135
140	32.9	268.1	238,800	394,400	52.5	284.2	217,800	378,100					140
145	25.3	257.9	228,000	378,400	47.9	279.6	208,200	362,900					145
150	13.4	240.8	217,400	363,300	42.9	274.1	199,200	348,700					150
155					37.4	267.5	190,700	335,400	55.0	278.9	172,300	321,300	155
160					30.9	259.2	182,600	322,900	50.6	274.7	165,100	309,500	160
165					22.5	247.9	174,800	311,200	45.9	269.7	158,300	298,300	165
170									40.7	263.8	151,800	287,900	170
175									34.8	256.6	145,700	278,000	175
180									27.7	247.3	139,700	268,600	180
185									17.8	233.4	133,700	259,600	185

MLC650 VPC-MAX S-3

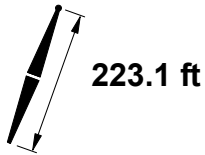
ASME B30.5



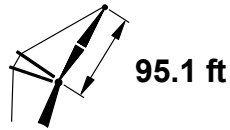
881,800 lb



360°



223.1 ft

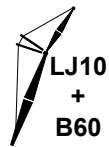


95.1 ft

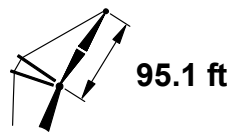
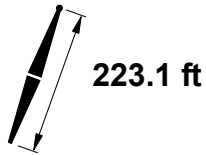
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	72.8	322.3	549,700 c	549,700 c									60
65	69.6	320.4	534,900 c	534,900 c									65
70	66.3	318.1	520,200 b	520,200 b	71.4	320.6	550,200 c	550,200 c					70
75	62.9	315.4	493,400 b	493,400 b	68.1	318.5	536,100 b	536,100 b					75
80	59.4	312.3	458,900 b	458,900 b	64.8	316.0	522,200 b	522,200 b					80
85	55.7	308.8	429,200	429,200	61.3	313.2	495,200 b	508,800 b	69.2	317.3	471,300 b	549,500 b	85
90	51.8	304.8	403,800	403,800	57.7	309.9	463,200 b	481,700 b	65.8	314.9	440,900 b	536,800 b	90
95	47.7	300.1	382,100	382,100	54.0	306.1	434,800	450,400	62.4	312.2	413,800 b	524,200 b	95
100	43.3	294.7	363,900	363,900	50.0	301.8	409,300	423,700	58.9	309.1	389,500 b	512,000 b	100
105	38.4	288.4	349,100	349,100	45.8	296.9	386,200	401,100	55.2	305.5	367,600	500,400	105
110	32.9	280.7	337,900	337,900	41.1	291.1	365,300	382,200	51.3	301.3	347,700	481,900	110
115	26.2	270.8	331,200	331,200	36.0	284.2	346,200	367,000	47.1	296.6	329,600	453,400	115
120	16.9	256.2	318,300	318,300	30.1	275.6	328,600	355,900	42.6	291.1	312,900	429,400	120
125					22.6	264.2	312,200	350,000	37.7	284.6	297,600	409,700	125
130					9.5	243.2	285,700	285,700	32.0	276.6	283,400	394,100	130
135									25.2	266.3	270,000	383,500	135
140									15.1	250.4	257,300	332,400	140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195

MLC650 VPC-MAX S-3

ASME B30.5



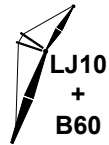
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	61.7	307.1	301,700 b	493,100 b									115
120	58.1	303.9	286,500	469,200									120
125	54.4	300.2	272,500	447,500									125
130	50.4	295.9	259,500	427,500									130
135	46.2	291.1	247,600	409,000									135
140	41.7	285.4	236,400	392,000	57.0	296.7	214,500	375,300					140
145	36.6	278.6	225,900	376,200	53.2	292.9	205,100	360,100					145
150	30.8	270.3	216,100	361,400	49.2	288.4	196,200	346,000					150
155	23.5	259.3	206,700	347,600	44.9	283.3	187,900	332,900					155
160	11.9	240.7	197,400	334,500	40.2	277.4	180,100	320,600					160
165					35.0	270.2	172,600	309,000	51.6	283.4	155,100	295,600	165
170					28.8	261.3	165,500	298,100	47.5	278.7	148,800	285,300	170
175					20.8	249.0	158,600	287,800	43.0	273.2	142,800	275,500	175
180									38.1	266.8	137,100	266,300	180
185									32.6	259.0	131,600	257,500	185
190									25.8	249.0	126,300	249,200	190
195									16.3	234.0	120,900	241,100	195

MLC650 VPC-MAX S-3

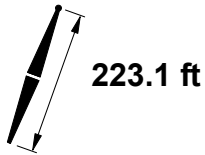
ASME B30.5



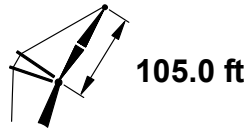
881,800 lb



360°



223.1 ft

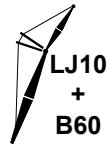


105.0 ft

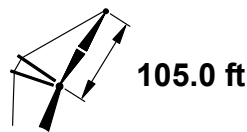
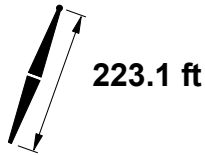
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	74.5	332.7	509,200 c	509,200 c									60
65	71.6	331.0	507,700 c	507,700 c									65
70	68.7	328.9	499,700 b	499,700 b									70
75	65.7	326.6	486,500 b	486,500 b	70.3	329.2	512,100 b	512,100 b					75
80	62.6	323.9	456,100 b	456,100 b	67.3	327.0	501,700 b	501,700 b					80
85	59.4	320.8	426,000	426,000	64.3	324.5	489,300 b	489,300 b					85
90	56.0	317.4	399,900	399,900	61.1	321.6	477,300 b	477,300 b	68.3	325.8	461,400 b	512,800 b	90
95	52.6	313.4	377,300	377,300	57.9	318.4	449,900	449,900	65.2	323.4	433,200 b	503,500 b	95
100	48.9	309.0	357,700	357,700	54.5	314.7	422,100	422,100	62.1	320.6	407,900 b	492,200 b	100
105	45.0	303.9	341,000	341,000	51.0	310.6	398,000	398,000	58.9	317.5	385,100	481,100	105
110	40.9	298.1	327,000	327,000	47.2	305.9	377,400	377,400	55.6	314.0	364,400	470,700	110
115	36.2	291.2	315,800	315,800	43.2	300.5	359,800	359,800	52.1	310.0	345,500	455,500	115
120	31.0	282.9	307,500	307,500	38.8	294.2	344,600	345,200	48.4	305.5	328,300	429,400	120
125	24.6	272.4	303,200	303,200	34.0	286.8	327,900	333,500	44.5	300.3	312,400	407,100	125
130	15.6	256.7	291,900	291,900	28.3	277.6	312,300	325,300	40.2	294.4	297,800	388,200	130
135					21.1	265.4	297,800	321,800	35.5	287.3	284,100	372,700	135
140					8.1	242.2	260,100	260,100	30.2	278.8	271,400	360,700	140
145									23.6	267.8	259,400	352,900	145
150									13.8	250.7	247,800	304,300	150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205

MLC650 VPC-MAX S-3

ASME B30.5



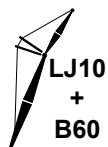
881,800 lb



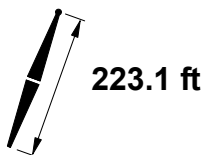
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	64.6	318.4	317,000	491,100									115
120	61.5	315.6	301,100	467,400									120
125	58.2	312.4	286,500	445,700									125
130	54.9	308.8	273,100	425,800									130
135	51.4	304.7	260,600	407,500									135
140	47.6	300.0	249,000	390,500									140
145	43.7	294.7	238,200	374,800	57.3	305.2	216,700	358,400					145
150	39.3	288.5	228,100	360,100	53.9	301.5	207,500	344,400					150
155	34.5	281.3	218,600	346,500	50.3	297.2	198,900	331,300					155
160	28.9	272.3	209,600	333,700	46.5	292.4	190,700	319,100					160
165	22.0	260.6	201,000	321,600	42.4	286.8	183,100	307,700					165
170	10.6	240.3	192,300	308,700	38.0	280.4	175,800	296,900	52.4	292.0	158,400	283,700	170
175					33.0	272.7	168,900	286,700	48.7	287.6	152,200	274,000	175
180					27.1	263.1	162,300	277,100	44.8	282.4	146,300	264,800	180
185					19.4	250.0	155,800	268,000	40.6	276.6	140,600	256,200	185
190									36.0	269.6	135,300	248,000	190
195									30.7	261.3	130,100	240,200	195
200									24.2	250.6	125,100	232,700	200
205									15.0	234.4	120,000	225,500	205

MLC650 VPC-MAX S-3

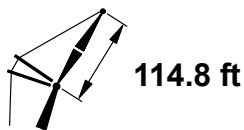
ASME B30.5



881,800 lb



223.1 ft

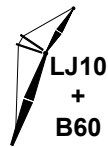


114.8 ft

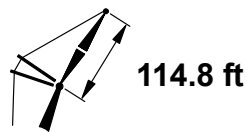
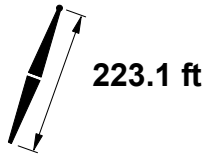
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	73.3	341.4	470,300 b	470,300 b									65
70	70.6	339.6	468,100 b	468,100 b									70
75	67.9	337.5	464,400 b	464,400 b	72.1	339.7	472,900 b	472,900 b					75
80	65.1	335.1	453,200 b	453,200 b	69.4	337.7	472,900 b	472,900 b					80
85	62.3	332.3	424,500	424,500	66.7	335.5	467,600 b	467,600 b					85
90	59.4	329.3	398,000	398,000	63.9	333.0	456,600	456,600					90
95	56.4	325.9	374,800	374,800	61.0	330.1	445,800	445,800	67.5	334.3	430,200	473,800	95
100	53.2	322.0	354,400	354,400	58.0	326.9	422,700	422,700	64.7	331.9	404,900	470,200	100
105	49.9	317.8	336,700	336,700	55.0	323.3	397,700	397,700	61.9	329.1	382,200	460,100	105
110	46.5	312.9	321,300	321,300	51.8	319.3	375,800	375,800	59.0	326.0	361,600	450,300	110
115	42.8	307.5	308,100	308,100	48.4	314.7	356,900	356,900	55.9	322.5	342,800	440,800	115
120	38.8	301.2	297,100	297,100	44.8	309.6	340,400	340,400	52.8	318.7	325,700	431,900	120
125	34.3	293.9	288,400	288,400	41.0	303.8	325,900	326,500	49.5	314.3	309,900	408,600	125
130	29.3	285.1	282,200	282,200	36.8	297.1	310,500	314,900	46.0	309.4	295,300	387,600	130
135	23.2	273.8	279,500	279,500	32.2	289.2	296,300	305,800	42.2	303.8	281,900	369,800	135
140	14.4	257.0	262,800	262,800	26.7	279.5	283,000	299,800	38.2	297.4	269,300	354,600	140
145					19.8	266.5	270,500	297,900	33.7	289.9	257,600	342,200	145
150					6.7	240.8	234,800	234,800	28.5	280.9	246,600	332,800	150
155									22.2	269.2	236,100	327,000	155
160									12.7	250.8	226,000	277,300	160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215

MLC650 VPC-MAX S-3

ASME B30.5



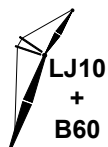
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	64.2	326.9	297,900	461,000									120
125	61.3	324.0	283,400	442,800									125
130	58.4	320.9	270,000	423,000									130
135	55.3	317.3	257,600	404,700									135
140	52.1	313.3	246,100	387,900									140
145	48.8	308.9	235,400	372,200									145
150	45.2	303.8	225,400	357,700	57.5	313.7	204,200	341,600					150
155	41.4	298.1	216,000	344,100	54.4	310.0	195,700	328,600					155
160	37.3	291.5	207,200	331,400	51.1	305.9	187,600	316,500					160
165	32.7	283.7	198,900	319,500	47.7	301.3	180,100	305,100					165
170	27.4	274.3	190,900	308,300	44.1	296.1	172,900	294,400					170
175	20.6	261.8	183,300	297,700	40.3	290.1	166,200	284,300	53.0	300.7	148,800	271,200	175
180	9.4	239.7	175,500	281,600	36.0	283.2	159,700	274,800	49.8	296.3	143,000	262,200	180
185					31.2	275.0	153,600	265,800	46.3	291.5	137,500	253,600	185
190					25.6	264.9	147,700	257,300	42.6	286.0	132,300	245,500	190
195					18.2	250.9	141,900	249,100	38.5	279.6	127,300	237,800	195
200									34.1	272.3	122,500	230,400	200
205									29.0	263.4	117,800	223,400	205
210									22.8	252.0	113,200	216,700	210
215									13.8	234.6	108,600	210,200	215

MLC650 VPC-MAX S-3

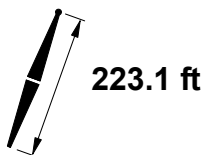
ASME B30.5



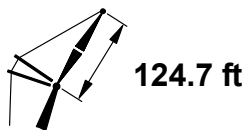
881,800 lb



360°



223.1 ft

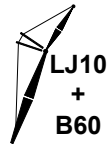


124.7 ft

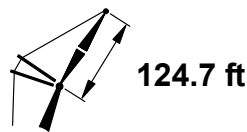
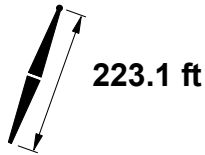
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	74.6	351.8	437,500 b	437,500 b									65
70	72.2	350.1	437,000 b	437,000 b									70
75	69.7	348.2	434,700 b	434,700 b									75
80	67.2	346.0	431,100 b	431,100 b	71.1	348.3	440,000 b	440,000 b					80
85	64.7	343.5	423,400	423,400	68.6	346.3	439,700 b	439,700 b					85
90	62.1	340.8	396,800	396,800	66.1	344.0	437,800	437,800					90
95	59.4	337.8	373,300	373,300	63.5	341.4	430,900	430,900	69.4	345.1	430,200	438,000	95
100	56.6	334.4	352,600	352,600	60.9	338.6	421,300	421,300	66.9	342.8	405,000	438,000	100
105	53.7	330.6	334,300	334,300	58.1	335.4	398,600	398,600	64.3	340.4	382,300	438,000	105
110	50.8	326.5	318,200	318,200	55.3	331.8	376,000	376,000	61.7	337.6	361,800	435,100	110
115	47.6	321.8	304,000	304,000	52.4	327.9	356,200	356,200	59.0	334.5	343,100	426,200	115
120	44.3	316.6	291,800	291,800	49.4	323.5	338,800	338,800	56.2	331.1	326,000	417,600	120
125	40.8	310.8	281,300	281,300	46.2	318.7	323,600	323,600	53.3	327.3	310,200	409,500	125
130	36.9	304.1	272,600	272,600	42.7	313.2	310,400	310,400	50.3	323.0	295,800	390,000	130
135	32.7	296.3	265,800	265,800	39.1	307.0	297,200	299,200	47.2	318.3	282,400	370,600	135
140	27.8	287.0	261,300	261,300	35.1	299.9	284,100	290,000	43.8	313.1	269,900	353,600	140
145	21.9	275.2	259,900	259,900	30.6	291.5	271,800	282,900	40.3	307.1	258,300	339,100	145
150	13.4	257.3	243,600	243,600	25.4	281.2	260,300	278,500	36.4	300.3	247,500	326,800	150
155					18.6	267.4	249,400	277,900	32.1	292.3	237,300	316,800	155
160					5.2	238.6	214,600	214,600	27.1	282.8	227,600	309,400	160
165									21.0	270.4	218,400	304,300	165
170									11.6	250.7	209,400	256,400	170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220

MLC650 VPC-MAX S-3

ASME B30.5



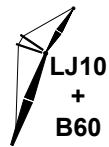
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	63.8	335.3	283,400	427,600									125
130	61.2	332.5	270,100	422,500									130
135	58.4	329.3	257,800	404,400									135
140	55.6	325.8	246,300	387,600									140
145	52.7	322.0	235,700	372,000									145
150	49.7	317.6	225,800	357,500									150
155	46.5	312.8	216,500	344,000	57.6	322.2	195,800	328,300					155
160	43.1	307.4	207,700	331,300	54.8	318.6	187,800	316,200					160
165	39.5	301.3	199,500	319,500	51.9	314.6	180,300	304,900					165
170	35.5	294.3	191,700	308,400	48.8	310.1	173,200	294,300					170
175	31.1	286.1	184,300	297,900	45.5	305.2	166,500	284,300					175
180	26.0	276.0	177,300	288,000	42.1	299.6	160,200	274,800	53.6	309.3	143,200	262,000	180
185	19.5	262.8	170,400	278,600	38.4	293.2	154,200	265,900	50.6	305.1	137,700	253,500	185
190	8.2	238.9	163,500	260,400	34.3	285.9	148,400	257,400	47.5	300.4	132,500	245,400	190
195					29.7	277.2	142,900	249,400	44.1	295.2	127,600	237,800	195
200					24.2	266.4	137,600	241,800	40.6	289.3	122,900	230,500	200
205					17.0	251.6	132,300	234,400	36.7	282.6	118,300	223,600	205
210									32.5	274.7	114,000	217,000	210
215									27.6	265.3	109,800	210,700	215
220									21.6	253.3	105,600	204,600	220

MLC650 VPC-MAX S-3

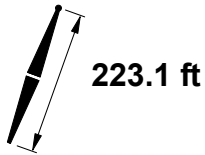
ASME B30.5



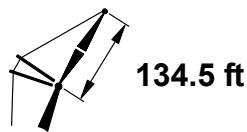
881,800 lb



360°



223.1 ft

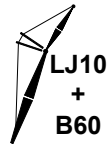


134.5 ft

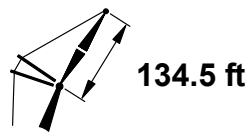
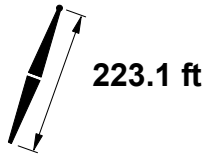
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.6	360.5	406,300 b	406,300 b									70
75	71.3	358.7	405,300 b	405,300 b									75
80	69.0	356.7	403,000	403,000	72.6	358.8	407,500 b	407,500 b					80
85	66.7	354.5	399,900	399,900	70.3	356.9	407,500	407,500					85
90	64.3	352.0	394,400	394,400	68.0	354.8	407,500	407,500					90
95	61.9	349.3	370,800	370,800	65.6	352.5	406,100	406,100					95
100	59.4	346.3	350,000	350,000	63.2	349.9	403,500	403,500	68.7	353.6	402,000	406,500	100
105	56.8	342.9	331,400	331,400	60.8	347.0	396,600	396,600	66.4	351.4	379,400	406,500	105
110	54.2	339.2	315,000	315,000	58.2	343.9	375,600	375,600	64.0	348.8	358,900	406,500	110
115	51.4	335.2	300,300	300,300	55.7	340.4	355,100	355,100	61.5	346.1	340,300	406,500	115
120	48.6	330.7	287,400	287,400	53.0	336.5	337,100	337,100	59.0	343.0	323,200	402,000	120
125	45.6	325.7	276,000	276,000	50.2	332.3	321,100	321,100	56.5	339.6	307,500	394,200	125
130	42.4	320.2	266,100	266,100	47.3	327.6	307,100	307,100	53.8	335.9	293,100	386,700	130
135	39.0	314.0	257,600	257,600	44.2	322.4	294,800	294,800	51.1	331.7	279,800	371,900	135
140	35.3	306.9	250,700	250,700	40.9	316.6	282,000	284,000	48.2	327.2	267,400	353,700	140
145	31.2	298.7	245,500	245,500	37.4	310.0	269,800	275,000	45.2	322.2	255,900	337,800	145
150	26.5	288.9	241,100	241,100	33.5	302.4	258,500	267,600	42.0	316.5	245,100	323,900	150
155	20.8	276.4	237,100	237,100	29.2	293.6	247,800	262,100	38.5	310.2	235,000	312,000	155
160	12.4	257.4	224,200	224,200	24.1	282.8	237,800	257,800	34.8	303.0	225,600	301,900	160
165					17.6	268.2	228,100	254,200	30.6	294.6	216,600	293,900	165
170					2.9	234.3	190,800	190,800	25.8	284.5	208,100	288,100	170
175									19.9	271.5	200,000	274,100	175
180									10.7	250.5	191,900	235,300	180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230

MLC650 VPC-MAX S-3

ASME B30.5



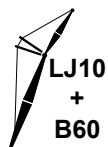
881,800 lb



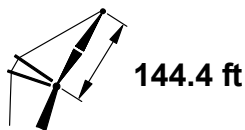
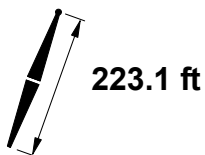
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	63.5	343.8	266,900	395,600									130
135	61.0	341.0	254,700	395,600									135
140	58.5	337.8	243,300	384,900									140
145	55.9	334.4	232,700	369,300									145
150	53.3	330.6	222,900	354,900									150
155	50.5	326.4	213,600	341,500									155
160	47.6	321.7	205,000	328,900	57.8	330.7	184,600	313,500					160
165	44.5	316.6	196,800	317,100	55.2	327.2	177,100	302,300					165
170	41.3	310.8	189,100	306,100	52.5	323.2	170,100	291,700					170
175	37.8	304.3	181,800	295,600	49.6	318.9	163,500	281,700					175
180	34.0	296.9	174,900	285,800	46.7	314.1	157,200	272,300					180
185	29.7	288.3	168,400	276,500	43.6	308.8	151,300	263,500	54.0	317.8	134,400	250,800	185
190	24.7	277.7	162,000	267,700	40.3	302.9	145,600	255,100	51.3	313.8	129,300	242,800	190
195	18.4	263.7	155,900	259,300	36.7	296.1	140,300	247,100	48.4	309.3	124,400	235,200	195
200	7.2	237.8	149,600	238,700	32.8	288.4	135,100	239,600	45.4	304.3	119,800	228,000	200
205					28.3	279.2	130,100	232,400	42.2	298.7	115,400	221,100	205
210					23.1	267.9	125,300	225,500	38.8	292.4	111,100	214,600	210
215					16.1	252.2	120,600	218,800	35.1	285.3	107,000	208,400	215
220									31.0	277.1	103,100	202,400	220
230									20.5	254.4	95,500	191,200	230

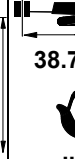
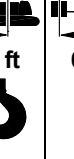
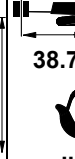
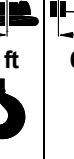
MLC650 VPC-MAX S-3

ASME B30.5



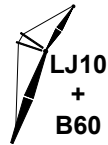
881,800 lb



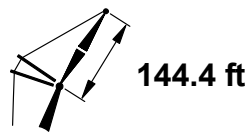
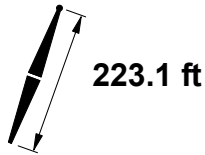
	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.7	370.8	376,700 b	376,700 b									70
75	72.6	369.2	376,700 b	376,700 b									75
80	70.5	367.4	375,500	375,500									80
85	68.4	365.3	373,500	373,500	71.7	367.5	378,100	378,100					85
90	66.2	363.0	370,500	370,500	69.6	365.5	378,100	378,100					90
95	64.0	360.5	367,200	367,200	67.4	363.4	378,000	378,000					95
100	61.7	357.8	349,500	349,500	65.2	361.0	376,500	376,500					100
105	59.4	354.7	330,800	330,800	63.0	358.4	374,400	374,400	68.1	362.2	376,900	376,900	105
110	57.0	351.4	314,000	314,000	60.7	355.5	371,700	371,700	65.9	359.9	356,900	376,900	110
115	54.6	347.8	298,900	298,900	58.3	352.3	356,600	356,600	63.7	357.3	338,300	376,900	115
120	52.0	343.8	285,500	285,500	55.9	348.9	338,000	338,000	61.4	354.5	321,300	376,900	120
125	49.4	339.5	273,400	273,400	53.4	345.1	321,300	321,300	59.1	351.5	305,700	376,900	125
130	46.7	334.7	262,800	262,800	50.9	341.0	306,600	306,600	56.7	348.1	291,300	371,100	130
135	43.8	329.4	253,300	253,300	48.2	336.4	293,300	293,300	54.2	344.4	278,000	364,400	135
140	40.7	323.5	245,200	245,200	45.4	331.4	280,500	281,700	51.7	340.4	265,700	356,900	140
145	37.4	317.0	238,200	238,200	42.4	325.9	268,400	271,500	49.0	336.0	254,200	339,800	145
150	33.9	309.5	230,900	230,900	39.3	319.8	257,200	262,600	46.3	331.2	243,500	324,600	150
155	29.9	300.9	223,500	223,500	35.9	312.8	246,600	255,100	43.4	325.8	233,500	311,400	155
160	25.4	290.6	217,900	217,900	32.2	304.9	236,700	247,200	40.3	319.9	224,100	299,700	160
165	19.8	277.5	214,800	214,800	28.0	295.6	227,300	239,500	37.0	313.2	215,200	289,800	165
170	11.6	257.3	202,900	202,900	23.1	284.3	218,400	233,700	33.4	305.6	206,900	281,400	170
175					16.7	269.0	209,900	231,000	29.3	296.8	198,900	272,400	175
180									24.7	286.2	191,400	264,200	180
185									18.9	272.5	184,100	248,800	185
190									9.8	250.1	176,900	216,000	190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240

MLC650 VPC-MAX S-3

ASME B30.5



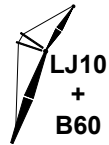
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	63.2	352.3	252,600	365,800									135
140	60.9	349.4	241,300	365,800									140
145	58.6	346.3	230,700	365,800									145
150	56.2	342.9	220,900	353,100									150
155	53.7	339.2	211,700	339,700									155
160	51.1	335.1	203,100	327,100									160
165	48.5	330.6	195,000	315,400	57.9	339.2	175,000	300,400					165
170	45.7	325.6	187,300	304,400	55.5	335.7	168,100	289,800					170
175	42.7	320.2	180,100	294,000	53.0	331.8	161,500	279,900					175
180	39.6	314.1	173,300	284,200	50.4	327.6	155,300	270,600					180
185	36.3	307.2	166,800	275,000	47.7	323.0	149,400	261,800					185
190	32.6	299.4	160,700	266,300	44.8	317.9	143,800	253,400	54.4	326.4	127,200	241,000	190
195	28.5	290.3	154,800	258,000	41.8	312.3	138,500	245,500	51.9	322.4	122,300	233,400	195
200	23.6	279.2	149,100	250,100	38.7	306.0	133,400	238,000	49.3	318.0	117,800	226,200	200
205	17.5	264.6	143,500	242,500	35.2	298.9	128,500	230,900	46.5	313.2	113,400	219,400	205
210	6.0	236.2	137,700	217,400	31.4	290.8	123,900	224,100	43.6	307.9	109,200	212,900	210
215					27.1	281.2	119,400	217,500	40.5	302.0	105,200	206,800	215
220					22.0	269.3	115,000	211,300	37.3	295.4	101,300	200,800	220
230									29.7	279.3	94,000	189,800	230
240									19.5	255.5	87,100	179,500	240

MLC650 VPC-MAX S-3

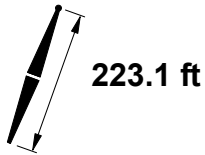
ASME B30.5



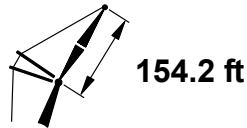
881,800 lb



360°



223.1 ft

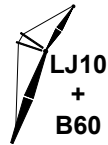


154.2 ft

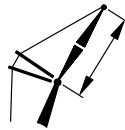
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	73.8	379.6	350,700	350,700									75
80	71.8	377.9	350,300	350,300									80
85	69.8	376.0	349,100	349,100	72.9	377.9	350,700	350,700					85
90	67.8	373.9	347,200	347,200	70.9	376.1	350,700	350,700					90
95	65.8	371.5	344,800	344,800	68.9	374.1	350,700	350,700					95
100	63.7	369.0	341,400	341,400	66.9	371.9	350,700	350,700					100
105	61.6	366.2	328,600	328,600	64.8	369.5	350,200	350,200	69.6	372.9	347,700	347,700	105
110	59.4	363.2	311,700	311,700	62.7	366.9	348,300	348,300	67.5	370.7	347,700	347,700	110
115	57.2	359.9	296,500	296,500	60.6	364.0	346,100	346,100	65.5	368.4	335,500	347,700	115
120	54.9	356.3	282,900	282,900	58.4	360.8	335,500	335,500	63.4	365.8	318,500	347,700	120
125	52.5	352.4	270,500	270,500	56.2	357.4	320,000	320,600	61.3	363.0	302,900	347,700	125
130	50.1	348.2	259,400	259,400	53.8	353.7	305,000	305,300	59.1	359.9	288,600	347,700	130
135	47.6	343.6	249,600	249,600	51.5	349.6	291,000	291,700	56.9	356.6	275,300	347,700	135
140	44.9	338.5	240,800	240,800	49.0	345.2	278,100	279,500	54.6	353.0	263,000	344,900	140
145	42.1	332.9	232,900	232,900	46.4	340.4	266,100	268,600	52.2	349.0	251,600	337,400	145
150	39.2	326.7	223,600	223,600	43.7	335.1	254,900	258,900	49.8	344.8	241,000	324,600	150
155	36.0	319.8	215,300	215,300	40.8	329.3	244,400	250,000	47.2	340.1	231,000	311,200	155
160	32.6	312.0	208,000	208,000	37.8	322.8	234,600	240,200	44.5	334.9	221,600	298,600	160
165	28.8	303.0	202,000	202,000	34.5	315.5	225,300	231,300	41.7	329.3	212,900	287,500	165
170	24.3	292.3	197,400	197,400	30.9	307.2	216,600	223,500	38.8	323.0	204,600	276,300	170
175	18.9	278.5	195,100	195,100	26.9	297.5	208,300	217,000	35.6	316.0	196,700	265,700	175
180	10.8	257.2	187,500	187,500	22.1	285.6	200,400	212,300	32.1	308.1	189,300	256,000	180
185					15.8	269.6	192,700	210,400	28.2	298.8	182,200	247,600	185
190									23.7	287.8	175,500	240,600	190
195									18.0	273.4	168,900	225,800	195
200									9.0	249.5	162,400	196,700	200
205													205
210													210
215													215
220													220
230													230
240													240
250													250

MLC650 VPC-MAX S-3

ASME B30.5



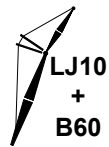
881,800 lb



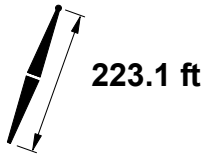
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	63.0	360.8	238,200	338,700									140
145	60.8	357.9	227,700	338,700									145
150	58.6	354.8	217,900	338,700									150
155	56.4	351.4	208,800	337,100									155
160	54.1	347.7	200,200	324,600									160
165	51.7	343.7	192,100	313,000									165
170	49.2	339.3	184,600	302,000	58.0	347.7	164,900	287,200					170
175	46.7	334.6	177,400	291,700	55.7	344.2	158,300	277,300					175
180	44.0	329.3	170,600	281,900	53.4	340.4	152,200	268,000					180
185	41.2	323.6	164,200	272,800	51.0	336.3	146,300	259,300					185
190	38.1	317.2	158,100	264,100	48.5	331.8	140,800	251,000					190
195	34.9	310.0	152,300	255,800	45.9	326.9	135,600	243,100	54.8	335.0	119,100	230,800	195
200	31.3	301.8	146,800	248,000	43.2	321.6	130,500	235,600	52.4	331.0	114,500	223,600	200
205	27.3	292.3	141,500	240,500	40.3	315.6	125,800	228,500	50.0	326.8	110,200	216,900	205
210	22.6	280.7	136,300	233,400	37.2	309.0	121,200	221,800	47.4	322.1	106,100	210,400	210
215	16.6	265.3	131,300	226,600	33.9	301.6	116,800	215,300	44.8	317.0	102,100	204,300	215
220	4.9	234.1	125,900	196,500	30.2	293.0	112,600	209,200	42.0	311.4	98,300	198,400	220
230					21.1	270.6	104,500	197,600	35.9	298.3	91,200	187,500	230
240									28.5	281.3	84,500	177,400	240
250									18.6	256.5	78,100	168,000	250

MLC650 VPC-MAX S-3

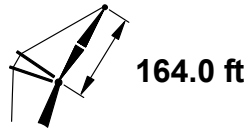
ASME B30.5



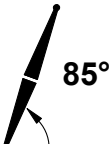
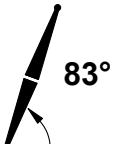
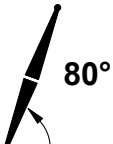
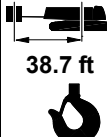
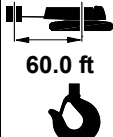
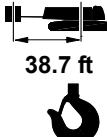
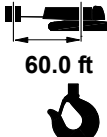
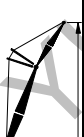
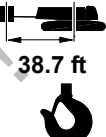
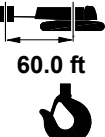
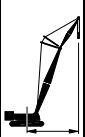
881,800 lb



223.1 ft

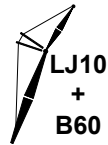


164.0 ft

	 85°					 83°					 80°					
																
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft		
75	75	74.8	389.9	326,400	326,400									75		
80	80	73.0	388.3	326,400	326,400									80		
85	85	71.1	386.5	326,100	326,100									85		
90	90	69.2	384.6	324,900	324,900	72.1	386.6	326,700	326,700					90		
95	95	67.3	382.4	323,100	323,100	70.3	384.7	326,700	326,700					95		
100	100	65.4	380.1	320,500	320,500	68.4	382.7	326,700	326,700					100		
105	105	63.4	377.5	317,100	317,100	66.5	380.4	326,700	326,700					105		
110	110	61.4	374.7	305,300	305,300	64.5	378.0	325,700	325,700	69.0	381.4	323,400	323,400	110		
115	115	59.4	371.7	293,400	293,400	62.5	375.3	324,100	324,100	67.1	379.3	323,400	323,400	115		
120	120	57.3	368.4	280,900	280,900	60.5	372.5	322,200	322,200	65.1	376.9	317,700	323,400	120		
125	125	55.2	364.9	268,400	268,400	58.5	369.3	312,300	312,300	63.2	374.3	302,200	323,400	125		
130	130	53.0	361.0	257,000	257,000	56.4	365.9	300,400	300,400	61.2	371.5	287,800	323,400	130		
135	135	50.7	356.9	246,700	246,700	54.2	362.3	288,700	288,700	59.1	368.4	274,600	323,400	135		
140	140	48.4	352.4	237,000	237,000	52.0	358.3	277,100	277,100	57.0	365.1	262,400	323,400	140		
145	145	45.9	347.5	227,100	227,100	49.7	354.0	265,700	265,800	54.9	361.5	251,000	323,400	145		
150	150	43.4	342.1	217,800	217,800	47.3	349.3	254,500	254,800	52.7	357.7	240,300	316,000	150		
155	155	40.7	336.3	209,200	209,200	44.8	344.2	244,100	244,400	50.4	353.5	230,400	304,500	155		
160	160	37.8	329.8	201,300	201,300	42.2	338.6	234,300	234,500	48.0	348.9	221,100	293,000	160		
165	165	34.7	322.6	194,200	194,200	39.4	332.5	225,100	225,300	45.6	344.0	212,400	281,700	165		
170	170	31.4	314.4	188,000	188,000	36.5	325.7	216,400	216,800	43.0	338.5	204,100	270,700	170		
175	175	27.7	305.0	182,900	182,900	33.3	318.1	208,200	209,100	40.3	332.6	196,300	260,100	175		
180	180	23.4	293.8	179,100	179,100	29.8	309.5	200,400	202,500	37.4	326.0	189,000	250,100	180		
185	185	18.1	279.4	177,400	177,400	25.8	299.3	193,000	196,900	34.3	318.7	182,000	240,900	185		
190	190	10.0	256.9	174,700	174,700	21.2	286.9	185,900	193,000	30.9	310.4	175,400	232,500	190		
195	195					15.1	270.1	179,000	191,600	27.1	300.8	169,000	225,100	195		
200	200									22.7	289.2	162,900	219,100	200		
205	205									17.2	274.2	157,000	207,100	205		
210	210									8.2	248.8	151,000	180,400	210		
215	215													215		
220	220													220		
230	230													230		
240	240													240		
250	250													250		
260	260													260		

MLC650 VPC-MAX S-3

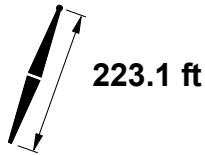
ASME B30.5



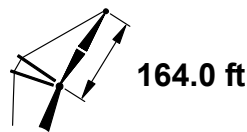
881,800 lb



360°



223.1 ft

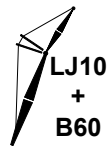


164.0 ft

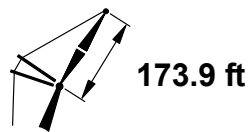
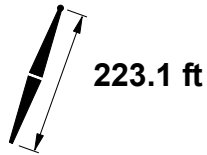
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	64.7	371.9	237,200	309,000									140
145	62.8	369.2	226,800	309,000									145
150	60.8	366.4	217,000	309,000									150
155	58.7	363.3	207,900	309,000									155
160	56.6	359.9	199,400	309,000									160
165	54.4	356.3	191,400	309,000									165
170	52.2	352.3	183,800	301,100									170
175	49.9	348.1	176,700	290,800	58.1	356.2	157,400	276,400					175
180	47.5	343.4	170,000	281,100	56.0	352.7	151,300	267,100					180
185	45.1	338.4	163,600	272,000	53.8	349.0	145,500	258,400					185
190	42.5	332.9	157,600	263,300	51.5	345.0	140,000	250,100					190
195	39.7	326.8	151,800	255,100	49.2	340.6	134,700	242,300					195
200	36.8	320.1	146,300	247,300	46.8	335.9	129,800	234,800					200
205	33.6	312.6	141,100	239,900	44.3	330.7	125,000	227,800	52.9	339.7	109,300	216,000	205
210	30.2	304.1	136,100	232,900	41.7	325.0	120,500	221,100	50.6	335.5	105,200	209,600	210
215	26.3	294.1	131,300	226,200	38.9	318.8	116,200	214,700	48.2	331.0	101,200	203,500	215
220	21.7	282.1	126,600	219,700	35.9	311.9	112,000	208,500	45.8	326.0	97,500	197,600	220
230	3.4	230.6	117,000	178,700	29.1	295.2	104,200	197,100	40.5	314.8	90,500	186,700	230
240					20.2	271.7	96,800	186,500	34.6	301.0	83,900	176,700	240
250									27.5	283.3	77,800	167,500	250
260									17.8	257.4	71,900	158,900	260

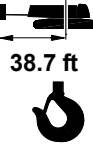
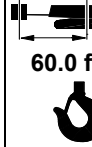
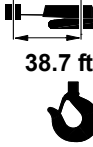
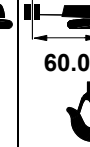
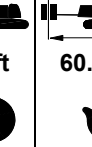
MLC650 VPC-MAX S-3

ASME B30.5



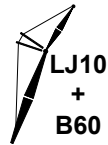
881,800 lb



 85°					 83°					 80°						
 ft	 °	 ft	 38.7 ft  lb	 60.0 ft  lb		 °	 ft	 38.7 ft  lb	 60.0 ft  lb		 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 ft	
80	74.0	398.6	304,500	304,500												80
85	72.2	397.0	304,400	304,400												85
90	70.5	395.1	303,800	303,800												90
95	68.7	393.1	302,600	302,600	71.4	395.2	304,500	304,500								95
100	66.9	390.9	301,000	301,000	69.7	393.3	304,500	304,500								100
105	65.1	388.6	298,600	298,600	67.9	391.2	304,500	304,500								105
110	63.2	386.0	293,800	293,800	66.1	389.0	304,400	304,400								110
115	61.3	383.2	283,200	283,200	64.2	386.5	303,400	303,400		68.4	390.0	301,100	301,100			115
120	59.4	380.2	272,600	272,600	62.4	383.8	302,100	302,100		66.6	387.8	301,100	301,100			120
125	57.4	376.9	261,900	261,900	60.5	380.9	300,500	300,500		64.8	385.4	299,300	301,100			125
130	55.4	373.4	251,500	251,500	58.5	377.8	290,900	290,900		63.0	382.8	285,100	301,100			130
135	53.4	369.6	241,200	241,200	56.5	374.4	280,300	280,300		61.1	380.0	271,900	301,100			135
140	51.2	365.6	231,300	231,300	54.5	370.8	269,800	269,800		59.1	376.9	259,700	301,100			140
145	49.1	361.2	221,800	221,800	52.4	366.9	259,300	259,300		57.2	373.6	248,300	301,100			145
150	46.8	356.4	212,800	212,800	50.3	362.7	249,100	249,100		55.2	370.1	237,700	301,100			150
155	44.4	351.3	204,300	204,300	48.0	358.1	239,200	239,200		53.1	366.3	227,800	296,200			155
160	41.9	345.6	196,300	196,300	45.7	353.2	229,700	229,700		50.9	362.1	218,500	285,900			160
165	39.3	339.5	189,000	189,000	43.3	347.9	220,600	220,600		48.7	357.7	209,800	275,600			165
170	36.6	332.7	182,200	182,200	40.8	342.0	212,100	212,100		46.5	352.9	201,600	265,300			170
175	33.6	325.2	176,200	176,200	38.1	335.6	204,200	204,200		44.1	347.7	193,900	255,400			175
180	30.3	316.7	171,000	171,000	35.3	328.5	196,900	196,900		41.6	342.0	186,600	245,700			180
185	26.7	307.0	166,700	166,700	32.2	320.6	190,300	190,300		39.0	335.8	179,700	236,500			185
190	22.5	295.3	163,600	163,600	28.8	311.6	184,100	184,600		36.2	328.9	173,100	227,800			190
195	17.3	280.3	162,400	162,400	24.9	301.1	177,400	179,900		33.2	321.3	166,900	219,700			195
200	9.3	256.5	159,200	159,200	20.4	288.2	171,000	176,700		29.9	312.6	160,900	212,400			200
205					14.3	270.6	164,800	175,800		26.2	302.6	155,200	206,100			205
210										21.9	290.6	149,600	200,900			210
215										16.5	275.0	144,300	188,900			215
220										7.4	247.9	138,800	164,100			220
230																230
240																240
250																250
260																260
270																270

MLC650 VPC-MAX S-3

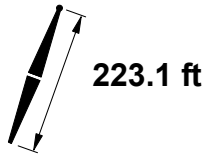
ASME B30.5



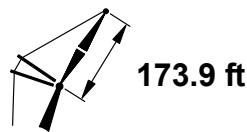
881,800 lb



360°



223.1 ft

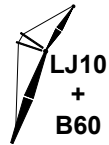


173.9 ft

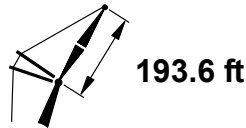
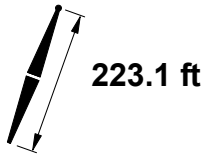
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	64.4	380.4	223,700	286,600									145
150	62.6	377.7	214,000	286,600									150
155	60.7	374.9	204,900	286,600									155
160	58.7	371.8	196,400	286,600									160
165	56.8	368.4	188,400	286,600									165
170	54.7	364.8	180,900	286,600									170
175	52.7	361.0	173,900	286,600									175
180	50.5	356.8	167,200	278,800	58.2	364.7	148,100	264,500					180
185	48.3	352.3	160,900	269,700	56.2	361.3	142,400	255,800					185
190	46.0	347.4	154,900	261,100	54.1	357.6	136,900	247,600					190
195	43.6	342.1	149,200	252,900	52.0	353.6	131,700	239,800					195
200	41.1	336.3	143,700	245,100	49.9	349.4	126,800	232,400					200
205	38.4	330.0	138,600	237,800	47.6	344.7	122,100	225,400					205
210	35.6	323.0	133,600	230,800	45.3	339.7	117,600	218,700	53.3	348.3	102,000	207,000	210
215	32.5	315.1	128,900	224,100	42.9	334.3	113,300	212,300	51.1	344.2	98,100	200,900	215
220	29.2	306.3	124,300	217,700	40.3	328.4	109,200	206,300	48.9	339.8	94,400	195,200	220
230	20.9	283.3	115,700	205,700	34.7	314.6	101,500	194,900	44.3	329.8	87,500	184,300	230
240					28.1	297.2	94,400	184,500	39.2	318.0	81,000	174,400	240
250					19.4	272.8	87,500	174,800	33.4	303.6	75,100	165,300	250
260									26.5	285.2	69,400	156,800	260
270									17.0	258.2	64,000	148,800	270

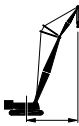
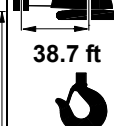
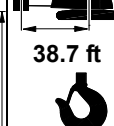
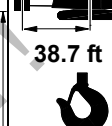
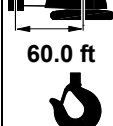
MLC650 VPC-MAX S-3

ASME B30.5



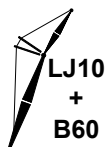
881,800 lb



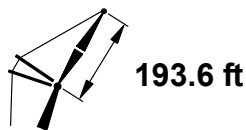
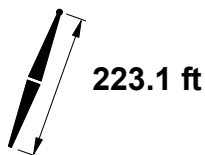
 85°					 83°				 80°					
 ft	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 ft	
85	74.1	417.7	264,000	264,000										85
90	72.5	416.1	264,000	264,000										90
95	71.0	414.3	263,700	263,700										95
100	69.4	412.4	262,900	262,900	71.8	414.4	263,200	263,200						100
105	67.8	410.3	261,600	261,600	70.3	412.5	263,200	263,200						105
110	66.2	408.0	260,100	260,100	68.7	410.5	263,200	263,200						110
115	64.5	405.6	258,300	258,300	67.1	408.3	263,200	263,200						115
120	62.8	402.9	254,400	254,400	65.4	406.0	263,200	263,200	69.2	409.2	258,500	258,500		120
125	61.1	400.1	245,900	245,900	63.8	403.5	262,600	262,600	67.6	407.1	258,500	258,500		125
130	59.4	397.1	237,400	237,400	62.1	400.8	261,600	261,600	65.9	404.8	258,500	258,500		130
135	57.7	393.9	228,800	228,800	60.4	397.9	260,300	260,300	64.3	402.4	258,500	258,500		135
140	55.9	390.5	220,300	220,300	58.6	394.8	254,300	254,300	62.6	399.7	256,100	258,500		140
145	54.0	386.8	212,000	212,000	56.9	391.5	245,800	245,800	60.9	396.9	244,800	258,500		145
150	52.1	382.8	203,900	203,900	55.0	387.9	237,400	237,400	59.2	393.9	234,200	258,500		150
155	50.2	378.6	196,100	196,100	53.2	384.1	228,900	228,900	57.4	390.6	224,400	258,500		155
160	48.2	374.1	188,500	188,500	51.3	380.0	220,500	220,500	55.6	387.1	215,200	258,500		160
165	46.1	369.2	181,300	181,300	49.3	375.7	212,400	212,400	53.8	383.4	206,500	258,500		165
170	44.0	364.0	174,500	174,500	47.3	371.0	204,400	204,400	51.9	379.4	198,400	253,500		170
175	41.8	358.4	168,100	168,100	45.2	366.0	196,800	196,800	49.9	375.2	190,700	245,300		175
180	39.4	352.3	162,100	162,100	43.0	360.6	189,500	189,500	47.9	370.6	183,500	236,900		180
185	37.0	345.6	156,600	156,600	40.7	354.8	182,500	182,500	45.9	365.7	176,600	228,700		185
190	34.4	338.3	151,500	151,500	38.3	348.4	176,100	176,100	43.7	360.4	170,100	220,600		190
195	31.5	330.2	147,100	147,100	35.8	341.5	170,000	170,000	41.5	354.7	164,000	212,700		195
200	28.4	321.0	143,300	143,300	33.1	333.8	164,500	164,500	39.1	348.6	158,100	205,100		200
205	25.0	310.5	140,100	140,100	30.2	325.3	159,500	159,500	36.6	341.8	152,500	198,000		205
210	21.0	297.9	138,000	138,000	26.9	315.6	155,300	155,300	34.0	334.4	147,100	191,200		210
215	16.0	281.7	137,400	137,400	23.3	304.2	151,800	151,900	31.1	326.2	142,000	185,000		215
220	8.0	255.2	133,300	133,300	18.9	290.3	146,500	149,600	28.0	316.8	137,100	179,400		220
230									20.4	293.1	127,800	170,600		230
240									5.9	245.3	118,600	137,400		240
250														250
260														260
270														270
280														280
290														290

MLC650 VPC-MAX S-3

ASME B30.5



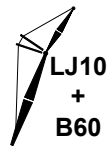
881,800 lb



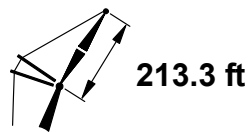
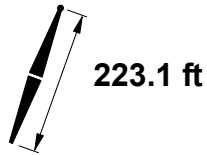
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155	63.9	397.4	200,900	246,200									155
160	62.3	394.7	192,500	246,200									160
165	60.6	391.8	184,500	246,200									165
170	58.8	388.7	177,100	246,200									170
175	57.0	385.4	170,100	246,200									175
180	55.2	381.9	163,500	246,200									180
185	53.4	378.1	157,200	246,200									185
190	51.5	374.1	151,300	246,200	58.3	381.6	132,800	231,900					190
195	49.5	369.8	145,600	246,200	56.5	378.3	127,700	231,900					195
200	47.5	365.2	140,300	242,100	54.7	374.7	122,800	229,100					200
205	45.4	360.2	135,200	234,800	52.8	370.8	118,200	222,100					205
210	43.3	354.8	130,300	227,800	50.9	366.7	113,800	215,500					210
215	41.0	349.0	125,700	221,200	48.9	362.3	109,500	209,100					215
220	38.6	342.8	121,200	214,900	46.9	357.6	105,500	203,100	53.9	365.4	90,200	191,700	220
230	33.4	328.3	112,900	203,100	42.6	347.0	98,000	191,900	50.1	357.2	83,400	181,000	230
240	27.3	310.3	105,100	192,300	37.9	334.7	91,000	181,600	46.0	347.8	77,100	171,200	240
250	19.4	285.6	97,800	179,400	32.6	319.8	84,500	172,100	41.7	336.9	71,300	162,200	250
260					26.3	301.1	78,500	163,300	36.8	324.1	65,900	153,800	260
270					18.0	274.8	72,700	155,100	31.4	308.6	60,800	146,100	270
280									24.8	288.7	56,000	138,900	280
290									15.7	259.6	51,300	132,000	290

MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	74.2	436.7	229,700	229,700									90
95	72.8	435.1	229,700	229,700									95
100	71.4	433.4	229,300	229,300									100
105	69.9	431.5	228,700	228,700	72.2	433.5	228,900	228,900					105
110	68.5	429.5	227,700	227,700	70.7	431.7	228,900	228,900					110
115	67.0	427.4	226,600	226,600	69.3	429.7	228,900	228,900					115
120	65.5	425.0	225,300	225,300	67.8	427.6	228,900	228,900					120
125	64.0	422.6	223,800	223,800	66.4	425.4	228,900	228,900	69.7	428.4	224,000	224,000	125
130	62.5	419.9	220,300	220,300	64.9	423.0	228,400	228,400	68.3	426.4	224,000	224,000	130
135	61.0	417.1	213,500	213,500	63.4	420.5	227,700	227,700	66.8	424.2	224,000	224,000	135
140	59.4	414.1	206,600	206,600	61.8	417.7	226,800	226,800	65.3	421.9	224,000	224,000	140
145	57.8	410.9	199,700	199,700	60.3	414.8	225,800	225,800	63.8	419.4	224,000	224,000	145
150	56.2	407.5	192,800	192,800	58.7	411.7	222,000	222,000	62.3	416.7	224,000	224,000	150
155	54.5	403.9	186,100	186,100	57.1	408.5	215,200	215,200	60.8	413.9	220,900	224,000	155
160	52.9	400.0	179,400	179,400	55.5	405.0	208,400	208,400	59.2	410.8	211,700	224,000	160
165	51.1	396.0	173,000	173,000	53.8	401.3	201,500	201,500	57.6	407.6	203,100	224,000	165
170	49.3	391.6	166,700	166,700	52.1	397.3	194,700	194,700	56.0	404.2	195,000	224,000	170
175	47.5	387.0	160,700	160,700	50.3	393.1	188,100	188,100	54.3	400.5	187,400	224,000	175
180	45.6	382.1	155,000	155,000	48.5	388.7	181,500	181,500	52.6	396.7	180,200	224,000	180
185	43.7	376.8	149,500	149,500	46.7	383.9	175,100	175,100	50.9	392.6	173,400	217,300	185
190	41.6	371.1	144,400	144,400	44.8	378.8	169,000	169,000	49.1	388.2	166,900	210,600	190
195	39.5	365.0	139,500	139,500	42.8	373.4	163,100	163,100	47.3	383.5	160,800	203,800	195
200	37.3	358.5	135,000	135,000	40.7	367.5	157,500	157,500	45.4	378.5	155,000	197,200	200
205	35.0	351.3	130,800	130,800	38.5	361.2	152,200	152,200	43.4	373.2	149,500	190,700	205
210	32.5	343.5	127,000	127,000	36.3	354.4	147,200	147,200	41.4	367.5	144,200	184,300	210
215	29.8	334.8	123,600	123,600	33.9	346.9	142,600	142,600	39.2	361.3	139,100	178,100	215
220	26.8	325.0	120,800	120,800	31.3	338.7	138,400	138,400	37.0	354.7	134,300	172,200	220
230	19.7	300.3	117,100	117,100	25.4	319.2	131,500	131,500	32.1	339.5	125,200	161,400	230
240	6.7	253.2	111,100	111,100	17.6	292.2	125,700	127,300	26.4	320.7	116,900	152,200	240
250									19.1	295.4	109,000	145,600	250
260									4.2	241.1	101,000	114,200	260
270													270
280													280
290													290
300													300
310													310

MLC650 VPC-MAX S-3

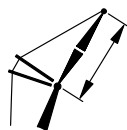
ASME B30.5



881,800 lb



223.1 ft

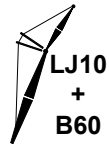


213.3 ft

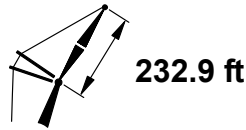
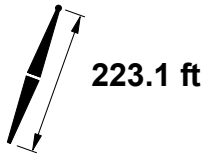
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165	63.5	414.3	180,600	213,900									165
170	62.0	411.6	173,200	213,900									170
175	60.5	408.8	166,200	213,900									175
180	58.9	405.7	159,700	213,900									180
185	57.3	402.4	153,500	213,900									185
190	55.6	399.0	147,600	213,900									190
195	54.0	395.3	142,000	213,900	60.0	401.7	123,600	196,700					195
200	52.3	391.4	136,700	213,900	58.4	398.6	118,700	196,700					200
205	50.5	387.2	131,600	213,900	56.8	395.3	114,200	196,700					205
210	48.7	382.8	126,800	213,900	55.2	391.8	109,800	196,700					210
215	46.9	378.0	122,200	213,900	53.5	388.0	105,600	196,700					215
220	45.0	373.0	117,800	212,000	51.8	384.0	101,700	196,700					220
230	40.9	361.8	109,600	200,300	48.2	375.3	94,200	188,800	54.5	382.5	79,200	177,600	230
240	36.5	348.8	102,000	189,500	44.4	365.3	87,400	178,500	51.0	374.6	73,100	167,900	240
250	31.6	333.3	95,000	179,600	40.3	353.9	81,000	169,200	47.4	365.6	67,400	159,000	250
260	25.7	314.0	88,400	170,500	35.8	340.5	75,200	160,500	43.6	355.3	62,100	150,700	260
270	18.2	287.7	82,200	152,200	30.8	324.6	69,600	152,400	39.4	343.5	57,200	143,100	270
280					24.8	304.6	64,400	144,900	34.8	329.7	52,600	136,000	280
290					16.7	276.5	59,400	137,900	29.6	313.1	48,200	129,400	290
300									23.3	291.9	44,000	123,100	300
310									14.5	260.6	39,900	117,200	310

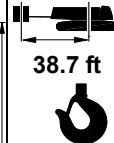
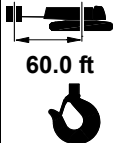
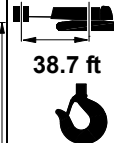
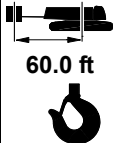
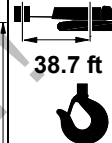
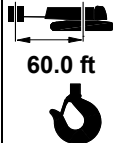
MLC650 VPC-MAX S-3

ASME B30.5



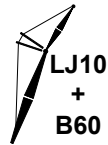
881,800 lb



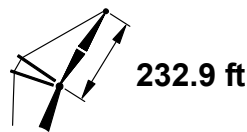
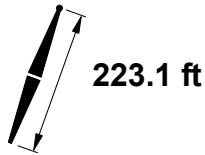
85°					83°				80°				
ft	°	ft	38.7 ft lb	60.0 ft lb	°	ft	38.7 ft lb	60.0 ft lb	°	ft	38.7 ft lb	60.0 ft lb	ft
95	74.3	455.8	199,900	199,900									95
100	73.0	454.2	199,700	199,700									100
105	71.7	452.5	199,300	199,300									105
110	70.4	450.7	198,800	198,800	72.4	452.5	198,400	198,400					110
115	69.1	448.7	198,100	198,100	71.1	450.8	198,400	198,400					115
120	67.8	446.7	197,200	197,200	69.8	448.9	198,400	198,400					120
125	66.4	444.4	196,300	196,300	68.5	446.9	198,400	198,400					125
130	65.0	442.1	195,300	195,300	67.1	444.7	198,400	198,400					130
135	63.7	439.5	194,200	194,200	65.8	442.5	198,000	198,000	68.9	445.6	194,000	194,000	135
140	62.3	436.9	192,600	192,600	64.4	440.0	197,500	197,500	67.6	443.5	194,000	194,000	140
145	60.9	434.0	187,100	187,100	63.0	437.4	196,900	196,900	66.2	441.3	194,000	194,000	145
150	59.4	431.0	181,600	181,600	61.6	434.7	196,200	196,200	64.9	438.9	194,000	194,000	150
155	58.0	427.9	175,900	175,900	60.2	431.8	195,400	195,400	63.5	436.4	194,000	194,000	155
160	56.5	424.5	170,400	170,400	58.8	428.7	194,500	194,500	62.1	433.7	194,000	194,000	160
165	55.0	421.0	164,900	164,900	57.3	425.4	190,000	190,000	60.7	430.8	194,000	194,000	165
170	53.4	417.2	159,400	159,400	55.8	422.0	184,500	184,500	59.2	427.8	192,700	194,000	170
175	51.9	413.2	154,000	154,000	54.3	418.4	179,000	179,000	57.8	424.6	185,100	194,000	175
180	50.3	409.0	148,800	148,800	52.7	414.5	173,400	173,400	56.3	421.2	177,900	194,000	180
185	48.6	404.6	143,700	143,700	51.2	410.5	167,900	167,900	54.8	417.6	171,100	194,000	185
190	46.9	399.9	138,900	138,900	49.5	406.1	162,400	162,400	53.2	413.8	164,700	194,000	190
195	45.2	394.9	134,200	134,200	47.9	401.6	157,100	157,100	51.7	409.8	158,600	194,000	195
200	43.4	389.5	129,700	129,700	46.2	396.7	152,000	152,000	50.0	405.6	152,800	188,600	200
205	41.5	383.9	125,500	125,500	44.4	391.6	147,000	147,000	48.4	401.1	147,300	183,100	205
210	39.6	377.8	121,400	121,400	42.6	386.1	142,200	142,200	46.7	396.4	142,100	177,600	210
215	37.6	371.3	117,700	117,700	40.7	380.3	137,500	137,500	44.9	391.3	137,100	172,200	215
220	35.5	364.3	114,200	114,200	38.7	374.0	133,100	133,100	43.1	386.0	132,300	166,800	220
230	30.8	348.3	108,100	108,100	34.5	360.0	125,100	125,100	39.3	374.1	123,400	156,500	230
240	25.4	328.7	103,400	103,400	29.7	343.3	118,200	118,200	35.2	360.4	115,100	146,900	240
250	18.5	302.4	100,600	100,600	24.0	322.6	112,900	112,900	30.5	344.2	107,500	138,400	250
260	5.4	250.3	93,200	93,200	16.5	293.9	108,600	109,900	25.0	324.3	100,400	131,200	260
270									17.9	297.4	93,600	126,000	270
280													280
290													290
300													300
310													310
320													320
330													330

MLC650 VPC-MAX S-3

ASME B30.5



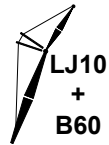
881,800 lb



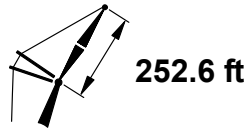
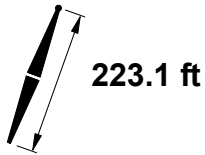
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170	64.6	433.9	170,400	181,500									170
175	63.2	431.3	163,500	181,500									175
180	61.8	428.6	157,000	181,500									180
185	60.4	425.7	150,800	181,500									185
190	58.9	422.7	144,900	181,500									190
195	57.5	419.4	139,400	181,500									195
200	56.0	416.0	134,100	181,500									200
205	54.5	412.4	129,100	181,500	60.0	418.7	111,300	167,200					205
210	52.9	408.6	124,300	181,500	58.5	415.6	106,900	167,200					210
215	51.3	404.5	119,800	181,500	57.0	412.3	102,800	167,200					215
220	49.7	400.2	115,400	181,500	55.5	408.8	98,900	167,200					220
230	46.3	390.9	107,300	181,500	52.4	401.3	91,500	167,200					230
240	42.8	380.3	99,800	181,500	49.2	392.8	84,700	167,200	54.9	399.6	70,100	154,300	240
250	38.9	368.3	92,900	177,700	45.8	383.3	78,500	167,000	51.8	391.8	64,500	154,300	250
260	34.7	354.4	86,500	168,700	42.2	372.5	72,700	158,400	48.5	383.2	59,300	148,400	260
270	30.0	337.9	80,500	159,200	38.3	360.3	67,300	150,400	45.1	373.4	54,500	140,900	270
280	24.4	317.5	74,800	148,200	34.0	346.0	62,300	143,000	41.4	362.4	50,000	133,800	280
290	17.0	289.4	69,400	130,400	29.2	329.1	57,600	136,100	37.5	349.8	45,800	127,300	290
300					23.4	307.8	53,100	129,700	33.1	335.0	41,800	121,200	300
310					15.7	277.9	48,700	123,500	28.1	317.4	38,000	115,400	310
320									22.0	294.9	34,400	110,000	320
330									13.5	261.5	30,700	104,800	330

MLC650 VPC-MAX S-3

ASME B30.5



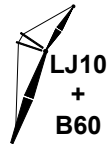
881,800 lb



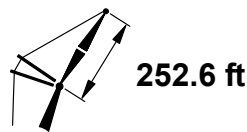
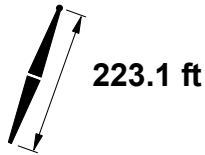
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100	74.4	474.8	172,100	172,100									100
105	73.2	473.3	172,000	172,000									105
110	72.0	471.6	171,700	171,700									110
115	70.8	469.8	171,200	171,200	72.7	471.6	170,400	170,400					115
120	69.6	467.9	170,700	170,700	71.5	469.9	170,400	170,400					120
125	68.4	465.9	170,100	170,100	70.2	468.1	170,400	170,400					125
130	67.1	463.8	169,300	169,300	69.0	466.1	170,400	170,400					130
135	65.9	461.5	168,600	168,600	67.8	464.0	170,300	170,300					135
140	64.6	459.1	167,700	167,700	66.6	461.8	170,000	170,000	69.4	464.8	166,000	166,000	140
145	63.3	456.5	166,800	166,800	65.3	459.5	169,700	169,700	68.2	462.8	166,000	166,000	145
150	62.1	453.8	165,900	165,900	64.0	457.0	169,200	169,200	66.9	460.6	166,000	166,000	150
155	60.8	451.0	163,700	163,700	62.8	454.4	168,700	168,700	65.7	458.3	166,000	166,000	155
160	59.4	448.0	159,200	159,200	61.5	451.6	168,200	168,200	64.4	455.9	166,000	166,000	160
165	58.1	444.8	154,800	154,800	60.2	448.7	167,500	167,500	63.2	453.3	166,000	166,000	165
170	56.7	441.5	150,200	150,200	58.8	445.7	166,900	166,900	61.9	450.6	166,000	166,000	170
175	55.3	438.0	145,800	145,800	57.5	442.4	166,100	166,100	60.6	447.8	166,000	166,000	175
180	53.9	434.3	141,300	141,300	56.1	439.0	162,900	162,900	59.2	444.7	166,000	166,000	180
185	52.5	430.5	136,900	136,900	54.7	435.5	158,500	158,500	57.9	441.6	166,000	166,000	185
190	51.0	426.4	132,600	132,600	53.3	431.7	154,000	154,000	56.5	438.2	161,100	166,000	190
195	49.5	422.1	128,300	128,300	51.8	427.7	149,500	149,500	55.2	434.7	155,000	166,000	195
200	48.0	417.5	124,300	124,300	50.4	423.5	145,100	145,100	53.7	431.0	149,200	166,000	200
205	46.4	412.7	120,300	120,300	48.9	419.1	140,700	140,700	52.3	427.1	143,800	166,000	205
210	44.8	407.7	116,500	116,500	47.3	414.5	136,400	136,400	50.8	423.0	138,600	166,000	210
215	43.2	402.3	112,800	112,800	45.7	409.6	132,200	132,200	49.3	418.6	133,600	163,600	215
220	41.4	396.6	109,400	109,400	44.1	404.4	128,100	128,100	47.8	414.1	128,800	159,200	220
230	37.8	384.1	102,800	102,800	40.7	393.0	120,300	120,300	44.6	404.1	120,000	150,400	230
240	33.8	369.7	97,200	97,200	36.9	380.1	113,300	113,300	41.2	393.0	111,800	141,800	240
250	29.4	352.8	92,400	92,400	32.9	365.2	106,900	106,900	37.5	380.3	104,300	133,600	250
260	24.2	332.1	88,700	88,700	28.3	347.6	101,500	101,500	33.5	365.8	97,300	125,900	260
270	17.5	304.3	86,800	86,800	22.8	325.7	97,300	97,300	29.0	348.7	90,800	119,200	270
280	4.0	246.0	76,300	76,300	15.6	295.3	92,500	95,100	23.8	327.6	84,700	113,400	280
290									16.9	299.1	78,900	106,800	290
300													300
310													310
320													320
330													330
340													340
350													350

MLC650 VPC-MAX S-3

ASME B30.5



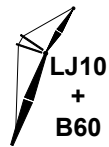
881,800 lb



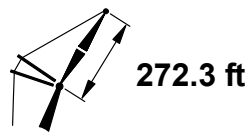
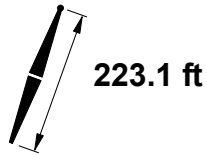
ft	75°				70°				65°				ft
	ft	°	ft	lb	lb	ft	°	ft	lb	lb	ft	°	ft
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180	64.2	450.9	152,800	155,600									180
185	62.9	448.3	146,700	155,600									185
190	61.6	445.6	140,800	155,600									190
195	60.3	442.7	135,300	155,600									195
200	59.0	439.6	130,100	155,600									200
205	57.6	436.4	125,100	155,600									205
210	56.3	433.0	120,400	155,600									210
215	54.9	429.5	115,900	155,600	59.9	435.6	98,500	142,800					215
220	53.4	425.7	111,500	155,600	58.6	432.6	94,600	142,800					220
230	50.5	417.6	103,500	155,600	55.9	425.9	87,300	142,800					230
240	47.5	408.6	96,100	155,600	53.0	418.4	80,700	142,800					240
250	44.3	398.6	89,200	155,600	50.1	410.2	74,500	142,800					250
260	40.8	387.3	82,900	155,600	47.0	401.1	68,800	142,800	52.4	409.1	55,100	133,400	260
270	37.2	374.5	77,000	155,600	43.8	390.8	63,500	142,800	49.5	400.7	50,300	133,400	270
280	33.1	359.7	71,600	146,500	40.3	379.4	58,600	140,000	46.4	391.3	45,900	130,600	280
290	28.6	342.3	66,400	136,600	36.6	366.3	53,900	133,200	43.1	380.8	41,800	124,100	290
300	23.2	320.7	61,500	127,400	32.5	351.2	49,600	126,800	39.6	369.1	37,900	118,100	300
310	16.0	290.9	56,800	110,900	27.8	333.3	45,500	120,800	35.8	355.6	34,200	112,400	310
320					22.3	310.8	41,500	115,100	31.6	340.0	30,800	107,100	320
330					14.7	279.0	37,600	109,800	26.8	321.3	27,400	102,000	330
340									20.9	297.6	24,200	97,200	340
350									12.5	262.0	21,000	92,600	350

MLC650 VPC-MAX S-3

ASME B30.5



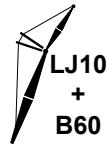
881,800 lb



	85°				83°				80°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
105	74.4	493.9	150,500	150,500									105
110	73.3	492.4	150,300	150,300									110
115	72.2	490.7	149,500	149,500									115
120	71.1	489.0	149,200	149,200	72.8	490.7	148,600	148,600					120
125	70.0	487.1	148,700	148,700	71.7	489.0	148,600	148,600					125
130	68.9	485.1	148,100	148,100	70.6	487.2	148,600	148,600					130
135	67.7	483.1	147,500	147,500	69.5	485.3	148,500	148,500					135
140	66.6	480.9	146,800	146,800	68.4	483.3	148,300	148,300					140
145	65.4	478.5	146,100	146,100	67.2	481.2	148,000	148,000	69.8	484.0	144,500	144,500	145
150	64.2	476.1	145,300	145,300	66.1	478.9	147,700	147,700	68.7	482.0	144,500	144,500	150
155	63.1	473.5	144,500	144,500	64.9	476.5	147,300	147,300	67.6	479.9	144,500	144,500	155
160	61.9	470.8	143,700	143,700	63.7	474.0	146,800	146,800	66.4	477.7	144,500	144,500	160
165	60.7	467.9	142,800	142,800	62.5	471.4	146,300	146,300	65.3	475.4	144,500	144,500	165
170	59.4	464.9	139,500	139,500	61.3	468.6	145,800	145,800	64.1	472.9	144,500	144,500	170
175	58.2	461.8	135,800	135,800	60.1	465.7	145,200	145,200	62.9	470.3	144,500	144,500	175
180	56.9	458.5	132,100	132,100	58.9	462.6	144,600	144,600	61.7	467.6	144,500	144,500	180
185	55.7	455.1	128,400	128,400	57.6	459.4	143,900	143,900	60.5	464.7	144,500	144,500	185
190	54.4	451.4	124,800	124,800	56.4	456.1	143,300	143,300	59.3	461.7	144,500	144,500	190
195	53.0	447.6	121,100	121,100	55.1	452.5	139,800	139,800	58.0	458.5	144,500	144,500	195
200	51.7	443.6	117,600	117,600	53.8	448.8	136,200	136,200	56.8	455.2	144,500	144,500	200
205	50.3	439.5	114,100	114,100	52.4	444.9	132,500	132,500	55.5	451.7	141,500	144,500	205
210	48.9	435.1	110,600	110,600	51.1	440.9	128,800	128,800	54.2	448.1	136,300	144,500	210
215	47.5	430.4	107,300	107,300	49.7	436.6	125,200	125,200	52.8	444.3	131,300	144,300	215
220	46.0	425.6	104,100	104,100	48.3	432.1	121,700	121,700	51.5	440.3	126,600	143,900	220
230	43.0	415.1	97,900	97,900	45.3	422.4	114,700	114,700	48.7	431.6	117,800	141,800	230
240	39.7	403.3	92,300	92,300	42.2	411.6	108,200	108,200	45.8	422.1	109,700	134,600	240
250	36.2	390.1	87,300	87,300	39.0	399.5	102,000	102,000	42.7	411.5	102,300	127,500	250
260	32.4	374.9	82,800	82,800	35.4	385.9	96,400	96,400	39.5	399.6	95,400	120,600	260
270	28.1	357.1	79,100	79,100	31.5	370.2	91,500	91,500	36.0	386.3	89,000	114,000	270
280	23.0	335.3	76,400	76,400	27.0	351.7	87,200	87,200	32.1	370.9	83,000	108,000	280
290	16.5	306.0	75,100	75,100	21.8	328.6	84,100	84,100	27.8	352.9	77,400	102,600	290
300	1.8	236.7	61,200	61,200	14.7	296.5	79,500	82,600	22.7	330.7	72,100	98,200	300
310									16.0	300.6	67,000	90,900	310
320													320
330													330
340													340
350													350
360													360
370													370

MLC650 VPC-MAX S-3

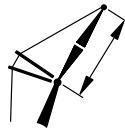
ASME B30.5



881,800 lb



223.1 ft

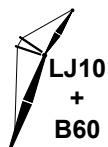


272.3 ft

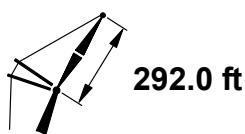
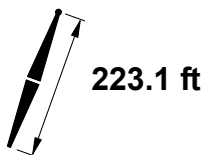
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190	63.8	467.9	135,900	135,900									190
195	62.7	465.3	132,600	135,900									195
200	61.5	462.5	127,400	135,900									200
205	60.2	459.6	122,400	135,900									205
210	59.0	456.6	117,700	135,900									210
215	57.8	453.4	113,200	135,900									215
220	56.5	450.0	109,000	135,900									220
230	53.9	442.8	100,900	135,900	58.6	449.5	84,500	124,600					230
240	51.2	434.9	93,600	135,900	56.1	442.9	77,900	124,600					240
250	48.4	426.2	86,900	135,900	53.5	435.6	71,800	124,600					250
260	45.5	416.5	80,600	135,900	50.8	427.6	66,200	124,600					260
270	42.4	405.8	74,800	135,900	48.0	418.7	60,900	124,600	53.0	426.3	47,400	115,700	270
280	39.1	393.9	69,400	135,900	45.1	408.9	56,100	124,600	50.2	418.1	43,100	115,700	280
290	35.6	380.3	64,400	135,200	42.0	398.0	51,500	124,600	47.4	409.0	39,000	115,700	290
300	31.7	364.7	59,600	126,100	38.6	385.8	47,300	124,600	44.4	399.0	35,200	115,700	300
310	27.3	346.4	55,100	117,800	35.0	372.0	43,300	118,900	41.3	387.9	31,700	110,300	310
320	22.1	323.6	50,800	109,300	31.1	356.1	39,500	113,400	37.9	375.4	28,300	105,000	320
330	15.1	292.2	46,700	94,800	26.6	337.2	35,900	108,100	34.3	361.2	25,100	100,100	330
340					21.2	313.6	32,400	103,200	30.2	344.7	22,100	95,400	340
350					13.8	280.0	28,900	97,600	25.6	325.0		91,000	350
360									19.9	300.0		86,800	360
370									11.7	262.3		82,700	370

MLC650 VPC-MAX S-3

ASME B30.5



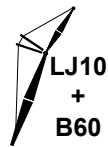
881,800 lb



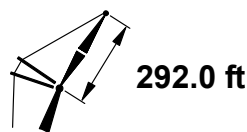
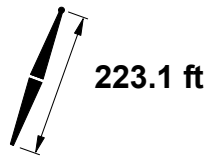
	85°				83°				80°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
110	74.5	512.9	129,500	129,500									110
115	73.5	511.4	129,200	129,200									115
120	72.4	509.8	128,900	128,900									120
125	71.4	508.1	128,500	128,500									125
130	70.4	506.3	128,000	128,000	72.0	508.1	128,100	128,100					130
135	69.3	504.3	127,500	127,500	70.9	506.3	127,700	127,700					135
140	68.3	502.3	126,900	126,900	69.9	504.5	127,500	127,500					140
145	67.2	500.2	126,300	126,300	68.8	502.5	127,200	127,200					145
150	66.1	497.9	125,700	125,700	67.8	500.4	126,900	126,900					150
155	65.0	495.6	125,000	125,000	66.7	498.2	126,500	126,500	69.2	501.2	123,800	123,800	155
160	63.9	493.1	124,300	124,300	65.6	495.9	126,100	126,100	68.1	499.2	123,800	123,800	160
165	62.8	490.5	123,500	123,500	64.5	493.5	125,700	125,700	67.0	497.0	123,800	123,800	165
170	61.7	487.7	122,800	122,800	63.4	491.0	125,200	125,200	66.0	494.8	123,800	123,800	170
175	60.6	484.9	122,000	122,000	62.3	488.3	124,700	124,700	64.9	492.4	123,800	123,800	175
180	59.4	481.9	121,200	121,200	61.2	485.6	124,200	124,200	63.8	489.9	123,800	123,800	180
185	58.3	478.8	118,900	118,900	60.1	482.6	123,600	123,600	62.7	487.3	123,800	123,800	185
190	57.1	475.5	115,900	115,900	58.9	479.6	123,000	123,000	61.6	484.5	123,800	123,800	190
195	55.9	472.1	112,900	112,900	57.8	476.4	122,400	122,400	60.4	481.7	123,600	123,600	195
200	54.7	468.5	109,900	109,900	56.6	473.1	121,800	121,800	59.3	478.7	123,300	123,300	200
205	53.5	464.8	107,000	107,000	55.4	469.6	121,200	121,200	58.1	475.5	123,100	123,100	205
210	52.2	460.9	104,000	104,000	54.2	465.9	120,000	120,000	56.9	472.2	122,800	122,800	210
215	51.0	456.8	101,100	101,100	52.9	462.1	117,100	117,100	55.8	468.8	122,500	122,500	215
220	49.7	452.5	98,300	98,300	51.7	458.1	114,100	114,100	54.5	465.2	122,200	122,200	220
230	47.0	443.3	92,800	92,800	49.1	449.6	108,200	108,200	52.1	457.5	113,900	121,500	230
240	44.2	433.2	87,600	87,600	46.4	440.2	102,500	102,500	49.5	449.1	105,900	120,800	240
250	41.3	422.1	82,800	82,800	43.6	429.9	97,000	97,000	46.8	439.8	98,500	119,900	250
260	38.2	409.7	78,300	78,300	40.6	418.5	91,800	91,800	44.0	429.7	91,700	114,200	260
270	34.8	395.7	74,300	74,300	37.4	405.8	86,900	86,900	41.1	418.5	85,300	108,500	270
280	31.1	379.8	70,800	70,800	34.0	391.4	82,500	82,500	37.9	406.0	79,400	103,100	280
290	26.9	361.1	67,900	67,900	30.2	374.9	78,500	78,500	34.6	391.9	73,900	97,900	290
300	22.0	338.2	65,700	65,700	25.9	355.5	75,200	75,200	30.8	375.8	68,700	93,100	300
310	15.7	307.4	64,800	64,800	20.8	331.3	71,300	72,700	26.6	356.8	63,800	88,800	310
320					13.9	297.4	66,200	69,800	21.7	333.6	59,100	85,300	320
330									15.2	301.9	54,600	75,300	330
340													340
350													350
360													360
370													370
380													380
390													390

MLC650 VPC-MAX S-3

ASME B30.5



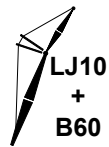
881,800 lb



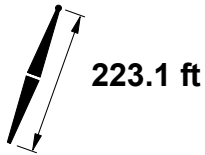
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195	64.7	487.4	114,800	114,800									195
200	63.6	484.9	114,800	114,800									200
205	62.4	482.2	114,800	114,800									205
210	61.3	479.5	113,400	114,800									210
215	60.2	476.6	109,000	114,800									215
220	59.0	473.5	104,700	114,800									220
230	56.7	467.0	96,800	114,800									230
240	54.3	459.9	89,500	114,800	58.7	466.5	73,400	105,100					240
250	51.8	452.2	82,800	114,800	56.4	459.9	67,400	105,100					250
260	49.2	443.7	76,600	114,800	53.9	452.7	61,800	105,100					260
270	46.6	434.4	70,800	114,800	51.4	444.8	56,700	105,100					270
280	43.7	424.1	65,500	114,800	48.8	436.2	51,900	105,100	53.4	443.4	38,600	96,500	280
290	40.8	412.8	60,500	114,800	46.2	426.8	47,400	105,100	50.9	435.4	34,600	96,500	290
300	37.6	400.1	55,800	114,800	43.3	416.4	43,200	105,100	48.3	426.6	30,900	96,500	300
310	34.2	385.8	51,400	114,800	40.3	404.8	39,200	105,100	45.6	417.0	27,400	96,500	310
320	30.4	369.5	47,200	107,300	37.1	392.0	35,500	105,100	42.7	406.4	24,100	96,500	320
330	26.2	350.2	43,300	100,200	33.7	377.4	32,000	105,000	39.7	394.6	20,900	96,500	330
340	21.1	326.4	39,500	92,000	29.8	360.7	28,600	100,100	36.4	381.4		92,200	340
350	14.3	293.3	35,800	79,000	25.5	340.9	25,500	95,500	32.9	366.4		87,800	350
360					20.2	316.2	22,400	91,100	29.0	349.2		83,700	360
370					13.0	280.7		81,800	24.5	328.5		79,700	370
380									19.0	302.3		76,000	380
390									10.9	262.4		72,300	390

MLC650 VPC-MAX S-3

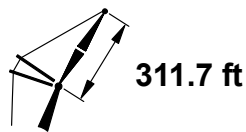
ASME B30.5



881,800 lb



223.1 ft

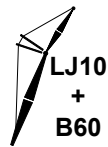


311.7 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.6	532.0	112,900	112,900									115
120	73.6	530.5	112,500	112,500									120
125	72.6	528.9	111,900	111,900									125
130	71.7	527.2	111,500	111,500									130
135	70.7	525.4	111,000	111,000	72.2	527.2	110,800	110,800					135
140	69.7	523.5	110,600	110,600	71.2	525.5	110,600	110,600					140
145	68.7	521.5	110,100	110,100	70.2	523.6	110,400	110,400					145
150	67.7	519.5	109,500	109,500	69.3	521.7	110,100	110,100					150
155	66.7	517.3	108,900	108,900	68.3	519.7	109,800	109,800					155
160	65.7	515.0	108,300	108,300	67.3	517.6	109,400	109,400	69.6	520.4	106,900	106,900	160
165	64.7	512.6	107,700	107,700	66.3	515.3	109,000	109,000	68.6	518.4	106,900	106,900	165
170	63.7	510.1	107,000	107,000	65.2	513.0	108,600	108,600	67.6	516.3	106,900	106,900	170
175	62.6	507.4	106,400	106,400	64.2	510.5	108,200	108,200	66.6	514.1	106,900	106,900	175
180	61.6	504.7	105,700	105,700	63.2	508.0	107,700	107,700	65.6	511.8	106,900	106,900	180
185	60.5	501.8	105,000	105,000	62.1	505.3	107,200	107,200	64.5	509.4	106,700	106,700	185
190	59.4	498.9	104,300	104,300	61.1	502.5	106,700	106,700	63.5	506.9	106,600	106,600	190
195	58.4	495.7	103,600	103,600	60.0	499.6	106,200	106,200	62.5	504.3	106,400	106,400	195
200	57.3	492.5	101,800	101,800	59.0	496.5	105,700	105,700	61.4	501.5	106,200	106,200	200
205	56.1	489.1	99,300	99,300	57.9	493.4	105,100	105,100	60.4	498.6	106,000	106,000	205
210	55.0	485.6	96,900	96,900	56.8	490.1	104,600	104,600	59.3	495.6	105,700	105,700	210
215	53.9	481.9	94,400	94,400	55.6	486.6	104,000	104,000	58.2	492.5	105,500	105,500	215
220	52.7	478.1	92,000	92,000	54.5	483.0	103,500	103,500	57.1	489.2	105,200	105,200	220
230	50.3	469.9	87,200	87,200	52.2	475.3	100,900	100,900	54.9	482.3	104,500	104,500	230
240	47.9	461.0	82,600	82,600	49.8	467.0	96,100	96,100	52.6	474.7	103,700	103,900	240
250	45.3	451.2	78,100	78,100	47.3	457.9	91,300	91,300	50.2	466.5	96,300	103,200	250
260	42.6	440.6	73,900	73,900	44.7	448.0	86,600	86,600	47.7	457.5	89,500	102,500	260
270	39.8	428.8	70,100	70,100	42.0	437.1	82,300	82,300	45.1	447.7	83,200	101,800	270
280	36.8	415.8	66,500	66,500	39.1	425.1	78,000	78,000	42.4	437.0	77,300	97,200	280
290	33.5	401.1	63,300	63,300	36.1	411.7	74,100	74,100	39.6	425.1	71,900	92,600	290
300	29.9	384.4	60,500	60,500	32.7	396.6	70,600	70,600	36.6	412.0	66,700	88,200	300
310	25.9	364.9	58,200	58,200	29.1	379.4	67,400	67,400	33.3	397.2	61,900	84,000	310
320	21.1	341.0	56,600	56,600	24.9	359.0	64,800	64,800	29.7	380.4	57,400	80,200	320
330	14.9	308.7	56,000	56,000	19.9	333.8	60,200	62,900	25.6	360.6	53,100	76,700	330
340					13.1	298.2	55,700	58,100	20.8	336.3	49,000	74,000	340
350									14.4	303.1	45,000	63,200	350
360													360
370													370
380													380
390													390
400													400
410													410

MLC650 VPC-MAX S-3

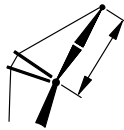
ASME B30.5



881,800 lb



223.1 ft

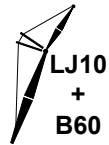


311.7 ft

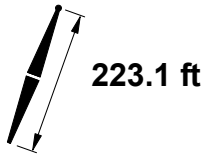
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205	64.3	504.4	98,700	98,700								205
210	63.3	501.9	98,700	98,700								210
215	62.3	499.2	98,700	98,700								215
220	61.2	496.4	98,700	98,700								220
230	59.1	490.5	94,200	98,700								230
240	56.9	484.0	86,900	98,700								240
250	54.6	477.0	80,300	98,700	58.8	483.4	64,600	89,800				250
260	52.3	469.4	74,100	98,700	56.6	476.9	59,100	89,800				260
270	49.9	461.1	68,400	98,700	54.3	469.8	54,000	89,800				270
280	47.5	452.0	63,100	98,700	52.0	462.1	49,200	89,800				280
290	44.9	442.2	58,200	98,700	49.6	453.7	44,800	89,800	53.8	460.5	81,600	290
300	42.2	431.3	53,500	98,700	47.1	444.5	40,600	89,800	51.5	452.7	81,600	300
310	39.3	419.4	49,200	98,700	44.5	434.5	36,800	89,800	49.1	444.1	81,600	310
320	36.2	406.1	45,100	98,700	41.8	423.5	33,100	89,800	46.6	434.8	81,600	320
330	32.9	391.1	41,300	98,700	38.9	411.4	29,600	89,800	43.9	424.6	81,600	330
340	29.3	374.0	37,600	92,300	35.8	397.9	26,400	89,800	41.2	413.4	81,600	340
350	25.2	353.9	34,100	86,100	32.4	382.6	23,300	89,800	38.2	401.0	81,600	350
360	20.2	328.9	30,700	78,400	28.7	365.1	20,300	89,300	35.1	387.1	81,600	360
370	13.6	294.2	27,400	66,700	24.5	344.4		85,200	31.7	371.5	77,800	370
380					19.4	318.5		79,700	27.9	353.4	74,200	380
390					12.3	281.2		69,400	23.5	331.8	70,600	390
400									18.1	304.4	67,200	400
410									10.2	262.2	63,900	410

MLC650 VPC-MAX S-3

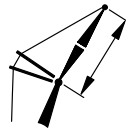
ASME B30.5



881,800 lb



223.1 ft

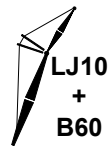


331.4 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
120	74.6	551.0	94,400	94,400									120
125	73.7	549.5	94,100	94,100									125
130	72.8	547.9	93,700	93,700									130
135	71.9	546.3	93,300	93,300									135
140	71.0	544.5	92,900	92,900	72.4	546.3	92,600	92,600					140
145	70.0	542.7	92,500	92,500	71.5	544.6	92,300	92,300					145
150	69.1	540.7	92,000	92,000	70.5	542.8	92,000	92,000					150
155	68.2	538.7	91,500	91,500	69.6	540.9	91,700	91,700					155
160	67.2	536.6	91,000	91,000	68.7	538.9	91,400	91,400					160
165	66.3	534.3	90,500	90,500	67.8	536.8	91,100	91,100	69.9	539.6	88,900	88,900	165
170	65.3	532.0	89,900	89,900	66.8	534.7	90,700	90,700	69.0	537.6	88,800	88,800	170
175	64.4	529.6	89,400	89,400	65.9	532.4	90,300	90,300	68.0	535.6	88,800	88,800	175
180	63.4	527.1	88,900	88,900	64.9	530.0	89,900	89,900	67.1	533.5	88,700	88,700	180
185	62.4	524.4	88,300	88,300	63.9	527.5	89,500	89,500	66.2	531.2	88,500	88,500	185
190	61.4	521.7	87,800	87,800	63.0	525.0	89,100	89,100	65.2	528.9	88,400	88,400	190
195	60.4	518.8	87,200	87,200	62.0	522.3	88,700	88,700	64.2	526.4	88,200	88,200	195
200	59.4	515.8	86,600	86,600	61.0	519.5	88,200	88,200	63.3	523.9	88,000	88,000	200
205	58.4	512.7	86,100	86,100	60.0	516.5	87,800	87,800	62.3	521.2	87,700	87,700	205
210	57.4	509.5	85,500	85,500	59.0	513.5	87,300	87,300	61.3	518.5	87,500	87,500	210
215	56.4	506.1	85,000	85,000	58.0	510.3	86,900	86,900	60.3	515.6	87,300	87,300	215
220	55.3	502.6	84,400	84,400	56.9	507.1	86,400	86,400	59.3	512.6	87,000	87,000	220
230	53.1	495.2	80,800	80,800	54.8	500.1	85,500	85,500	57.2	506.2	86,400	86,400	230
240	50.9	487.2	77,000	77,000	52.7	492.5	84,600	84,600	55.2	499.3	85,900	85,900	240
250	48.6	478.5	73,200	73,200	50.4	484.4	83,700	83,700	53.0	491.9	85,300	85,300	250
260	46.3	469.1	69,500	69,500	48.1	475.5	80,900	80,900	50.8	483.8	84,700	84,700	260
270	43.8	458.8	65,800	65,800	45.7	465.9	77,200	77,200	48.5	475.1	79,500	84,100	270
280	41.2	447.6	62,400	62,400	43.2	455.4	73,500	73,500	46.1	465.6	73,700	83,500	280
290	38.4	435.3	59,600	59,600	40.6	444.0	70,000	70,000	43.6	455.2	68,300	83,000	290
300	35.5	421.6	56,700	56,700	37.8	431.4	66,700	66,700	41.0	443.9	63,200	79,500	300
310	32.4	406.3	54,000	54,000	34.8	417.4	63,500	63,500	38.2	431.5	58,400	74,400	310
320	28.9	388.9	51,800	51,800	31.6	401.7	60,300	60,300	35.3	417.8	53,900	69,200	320
330	25.0	368.5	50,000	50,000	28.0	383.7	55,900	55,900	32.1	402.3	49,700	63,900	330
340	20.3	343.6	46,000	46,000	24.0	362.4	51,000	51,000	28.6	384.7	45,700	58,700	340
350	14.2	309.8	41,600	41,600	19.1	336.1	46,200	46,200	24.7	364.1	41,900	53,600	350
360					12.4	298.7	41,800	41,800	19.9	338.8	38,200	48,600	360
370									13.7	304.0	34,600	43,900	370
380													380
390													390
400													400
410													410
420													420
430													430

MLC650 VPC-MAX S-3

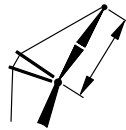
ASME B30.5



881,800 lb



223.1 ft

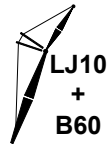


331.4 ft

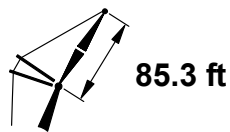
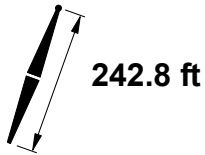
ft	75°				70°				65°				ft
	ft	°	ft	lb	lb	ft	°	ft	lb	lb	ft	°	ft
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215	64.0	521.4	81,700	81,700									215
220	63.1	518.9	81,700	81,700									220
230	61.1	513.4	81,700	81,700									230
240	59.1	507.5	81,700	81,700									240
250	57.0	501.0	76,300	81,700									250
260	54.9	494.1	70,100	81,700	58.8	500.4	54,800	74,000					260
270	52.8	486.6	64,500	81,700	56.7	493.9	49,800	74,000					270
280	50.5	478.4	59,200	81,700	54.6	486.9	45,100	74,000					280
290	48.2	469.6	54,300	81,700	52.4	479.3	40,700	74,000					290
300	45.8	460.1	49,700	81,700	50.2	471.1	36,600	74,000	54.2	477.6	67,500		300
310	43.3	449.6	45,400	81,700	47.9	462.1	32,700	74,000	52.0	469.9	67,500		310
320	40.7	438.3	41,400	81,500	45.5	452.5	29,100	74,000	49.7	461.5	67,500		320
330	38.0	425.7	37,600	76,500	43.0	441.9	25,700	74,000	47.4	452.5	67,500		330
340	35.0	411.8	34,000	71,300	40.3	430.3	22,500	74,000	45.0	442.6	67,500		340
350	31.8	396.2	30,500	66,000	37.5	417.6		74,000	42.4	431.9	67,500		350
360	28.2	378.3	27,300	60,700	34.5	403.5		71,900	39.8	420.1	67,500		360
370	24.2	357.3	24,200	55,400	31.3	387.6		66,700	36.9	407.1	67,500		370
380	19.4	331.3	21,100	50,400	27.7	369.3		61,500	33.9	392.6	67,500		380
390	12.9	294.9		45,600	23.6	347.7		56,300	30.6	376.3	66,300		390
400					18.6	320.7		51,400	26.9	357.4	61,300		400
410					11.6	281.5		46,800	22.6	334.9	56,400		410
420									17.4	306.3	51,500		420
430									9.5	261.7	47,300		430

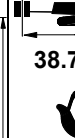
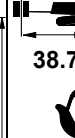
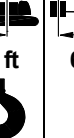
MLC650 VPC-MAX S-3

ASME B30.5



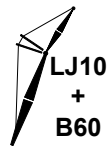
881,800 lb



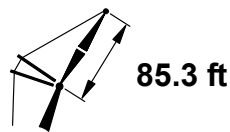
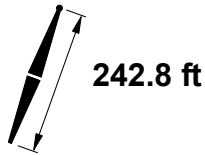
	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	72.0	332.1	517,200 d	517,200 d									60
65	68.3	330.0	512,300 c	512,300 c									65
70	64.6	327.5	505,300 c	505,300 c	70.9	330.5	521,500 c	521,500 c					70
75	60.7	324.6	478,000 b	478,000 b	67.2	328.3	518,000 c	518,000 c					75
80	56.6	321.2	446,000 b	446,000 b	63.4	325.6	512,700 c	512,700 c					80
85	52.4	317.2	418,700 b	418,700 b	59.5	322.6	493,100 b	502,000 b	69.1	327.4	466,800 c	522,600 c	85
90	47.8	312.5	395,600	395,600	55.3	319.0	461,400 b	468,200 b	65.4	325.0	436,800 c	522,600 c	90
95	42.8	307.1	376,500	376,500	51.0	314.8	433,100	439,400	61.5	322.2	410,000 b	519,300 b	95
100	37.2	300.4	361,200	361,200	46.3	309.9	407,700	415,200	57.5	318.9	386,000 b	515,000 b	100
105	30.7	292.1	350,400	350,400	41.1	304.1	384,700	395,100	53.3	315.0	364,300 b	500,900 b	105
110	22.3	280.6	345,500	345,500	35.3	297.1	363,800	379,200	48.7	310.5	344,600	470,000	110
115					28.4	288.0	344,500	368,100	43.8	305.2	326,600	444,000	115
120					18.8	274.7	326,600	364,100	38.4	298.8	310,100	422,700	120
125									32.1	290.9	294,800	406,000	125
130									24.3	280.3	280,400	394,800	130
135									11.0	261.2	266,400	331,600	135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195

MLC650 VPC-MAX S-3

ASME B30.5



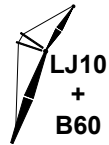
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	62.0	317.7	295,900 b	487,600 b									115
120	58.0	314.5	281,000 b	464,100 b									120
125	53.8	310.7	267,300 b	442,600 b									125
130	49.4	306.3	254,600	422,900									130
135	44.5	301.1	242,900	404,700									135
140	39.2	294.9	231,900	387,800	58.2	307.9	207,800 b	369,400 b					140
145	33.0	287.2	221,500	372,200	54.0	304.2	198,700 b	354,600 b					145
150	25.5	277.1	211,700	357,500	49.5	299.8	190,100	340,700					150
155	13.7	260.3	202,000	343,700	44.7	294.6	182,000	327,800					155
160					39.4	288.5	174,400	315,700					160
165					33.3	280.9	167,100	304,300	53.5	295.4	147,800	289,600	165
170					25.7	270.8	160,100	293,500	49.0	290.9	141,800	279,400	170
175					14.3	254.5	153,000	283,200	44.2	285.7	136,000	269,900	175
180									38.8	279.4	130,600	260,800	180
185									32.6	271.6	125,300	252,200	185
190									24.9	261.3	120,100	244,000	190
195									12.4	243.4	114,700	236,000	195

MLC650 VPC-MAX S-3

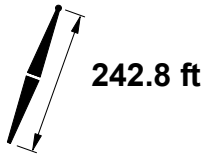
ASME B30.5



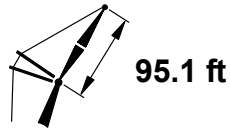
881,800 lb



360°



242.8 ft

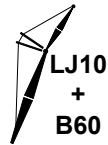


95.1 ft

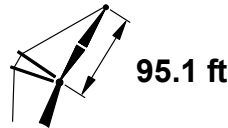
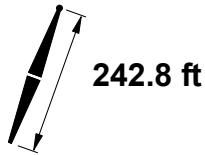
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	73.9	342.6	478,700 c	478,700 c									60
65	70.7	340.7	476,800 c	476,800 c									65
70	67.4	338.5	471,700 c	471,700 c	72.9	341.0	482,000 c	482,000 c					70
75	64.1	336.0	465,500 b	465,500 b	69.7	339.1	481,300 c	481,300 c					75
80	60.6	333.0	442,000 b	442,000 b	66.4	336.8	478,100 b	478,100 b					80
85	57.0	329.7	414,200 b	414,200 b	63.0	334.1	473,200 b	473,200 b					85
90	53.2	325.8	390,000	390,000	59.5	331.0	458,800 b	466,900 b	68.1	335.9	433,600 b	483,000 b	90
95	49.1	321.4	369,200	369,200	55.8	327.5	430,700	437,100	64.8	333.5	407,000 b	483,000 b	95
100	44.8	316.3	351,600	351,600	51.9	323.5	405,400	411,400	61.3	330.6	383,100 b	480,300 b	100
105	40.1	310.3	337,000	337,000	47.8	318.9	382,600	389,400	57.7	327.4	361,500 b	476,700 b	105
110	34.9	303.1	325,600	325,600	43.4	313.5	361,900	370,700	53.9	323.6	342,000	471,600	110
115	28.7	294.1	317,900	317,900	38.6	307.2	342,900	355,400	50.0	319.3	324,100	443,600	115
120	20.6	281.7	315,600	315,600	33.1	299.5	325,600	343,400	45.7	314.3	307,800	419,600	120
125					26.4	289.7	309,400	335,600	41.1	308.5	292,700	399,400	125
130					17.3	275.4	294,200	332,100	36.0	301.6	278,800	382,800	130
135									30.0	293.1	265,700	370,100	135
140									22.5	281.6	253,500	362,200	140
145									9.4	260.5	241,300	299,900	145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205

MLC650 VPC-MAX S-3

ASME B30.5



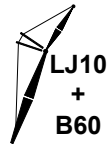
881,800 lb



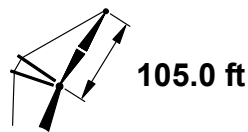
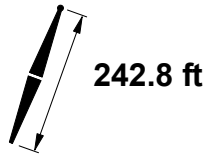
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	61.8	326.2	277,800 b	461,100 b									120
125	58.2	323.0	264,200 b	439,700 b									125
130	54.5	319.3	251,700	420,100									130
135	50.5	315.0	240,000	402,000									135
140	46.3	310.2	229,200	385,300									140
145	41.8	304.5	219,100	369,800	58.3	316.4	195,300	351,700					145
150	36.7	297.8	209,600	355,300	54.6	312.7	186,900	337,900					150
155	30.9	289.5	200,600	341,800	50.6	308.5	178,900	325,100					155
160	23.7	278.6	192,000	329,100	46.5	303.7	171,400	313,100					160
165	12.2	260.3	183,400	317,000	41.9	298.0	164,400	301,800					165
170					36.9	291.3	157,700	291,300	54.2	304.0	138,400	276,600	170
175					31.1	283.1	151,200	281,200	50.2	299.7	132,800	267,200	175
180					23.9	272.3	145,000	271,700	46.0	294.8	127,500	258,200	180
185					12.8	254.5	138,700	262,600	41.4	289.1	122,400	249,800	185
190									36.4	282.2	117,500	241,800	190
195									30.5	273.8	112,800	234,100	195
200									23.1	262.7	108,100	226,800	200
205									10.9	243.1	103,200	219,500	205

MLC650 VPC-MAX S-3

ASME B30.5



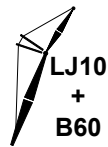
881,800 lb



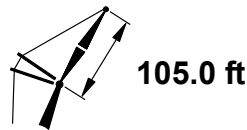
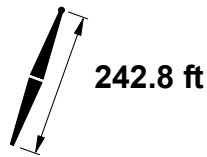
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	72.6	351.2	444,500 c	444,500 c									65
70	69.7	349.3	441,600 c	441,600 c									70
75	66.7	347.0	436,800 b	436,800 b	71.7	349.6	448,100 c	448,100 c					75
80	63.6	344.4	431,200 b	431,200 b	68.8	347.6	446,900 b	446,900 b					80
85	60.5	341.5	410,200 b	410,200 b	65.8	345.3	443,500 b	443,500 b					85
90	57.2	338.2	385,700	385,700	62.7	342.6	439,100 b	439,100 b					90
95	53.8	334.4	364,300	364,300	59.5	339.5	433,800 b	433,800 b	67.3	344.5	426,300 b	449,500 b	95
100	50.2	330.2	345,600	345,600	56.1	336.1	409,200	409,200	64.3	341.9	401,400 b	448,500 b	100
105	46.4	325.3	329,500	329,500	52.7	332.2	386,200	386,200	61.1	339.1	378,900 b	446,500 b	105
110	42.3	319.8	315,900	315,900	49.0	327.7	366,200	366,200	57.9	335.9	358,500	443,400	110
115	37.9	313.3	304,700	304,700	45.2	322.7	349,000	349,000	54.5	332.2	340,000	439,600	115
120	32.9	305.6	296,100	296,100	41.0	316.9	334,500	334,500	50.9	328.0	323,000	419,600	120
125	26.9	296.0	290,900	290,900	36.4	310.0	322,500	322,500	47.2	323.3	307,400	397,500	125
130	19.2	282.7	290,300	290,300	31.1	301.8	309,600	313,600	43.2	317.9	293,000	378,600	130
135					24.8	291.4	295,200	308,100	38.8	311.6	279,600	362,600	135
140					15.9	275.9	281,600	304,700	33.9	304.2	267,100	349,600	140
145									28.2	295.1	255,400	339,900	145
150									21.0	282.8	244,300	334,500	150
155									8.0	259.4	233,200	273,600	155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215

MLC650 VPC-MAX S-3

ASME B30.5



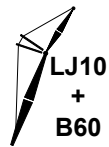
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	64.7	337.4	292,400	439,500									120
125	61.5	334.6	278,200	437,900									125
130	58.3	331.4	265,100	418,400									130
135	55.0	327.8	252,900	400,400									135
140	51.4	323.8	241,700	383,700									140
145	47.7	319.1	231,200	368,300									145
150	43.7	313.8	221,400	353,900	58.4	324.9	198,000	336,200					150
155	39.4	307.7	212,100	340,500	55.1	321.3	189,700	323,500					155
160	34.6	300.4	203,400	328,000	51.5	317.2	181,900	311,500					160
165	29.1	291.6	195,200	316,200	47.8	312.6	174,600	300,400					165
170	22.1	279.9	187,200	305,000	43.9	307.3	167,700	289,900					170
175	10.9	260.0	179,300	294,400	39.6	301.2	161,100	280,000	54.7	312.6	142,000	265,500	175
180					34.8	294.0	154,800	270,600	51.2	308.4	136,400	256,700	180
185					29.3	285.2	148,800	261,700	47.5	303.8	131,100	248,300	185
190					22.4	273.7	142,900	253,300	43.5	298.4	126,100	240,400	190
195					11.5	254.4	137,000	245,100	39.1	292.2	121,300	232,800	195
200									34.3	284.9	116,700	225,700	200
205									28.7	275.9	112,200	218,800	205
210									21.6	263.9	107,700	212,200	210
215									9.6	242.5	103,000	205,700	215

MLC650 VPC-MAX S-3

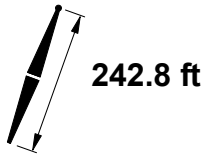
ASME B30.5



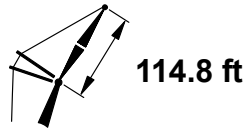
881,800 lb



360°



242.8 ft

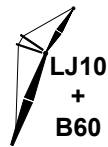


114.8 ft

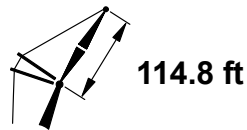
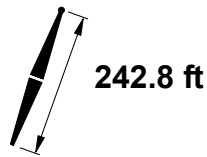
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	74.2	361.6	413,900 c	413,900 c									65
70	71.5	359.9	412,500 b	412,500 b									70
75	68.8	357.8	409,300 b	409,300 b									75
80	66.1	355.5	405,000 b	405,000 b	70.7	358.3	416,200 b	416,200 b					80
85	63.3	352.9	399,900 b	399,900 b	68.0	356.1	414,700 b	414,700 b					85
90	60.4	350.0	381,700	381,700	65.2	353.7	414,700 b	414,700 b					90
95	57.4	346.7	360,000	360,000	62.4	351.0	407,800	407,800	69.4	355.2	415,900 b	415,900 b	95
100	54.3	343.0	340,800	340,800	59.5	348.0	403,200	403,200	66.6	353.0	398,300 b	415,900 b	100
105	51.1	338.9	324,100	324,100	56.4	344.6	383,900	383,900	63.9	350.4	375,900	415,900	105
110	47.7	334.3	309,400	309,400	53.3	340.8	363,200	363,200	61.0	347.6	355,600	415,300	110
115	44.1	329.0	296,800	296,800	50.0	336.5	345,000	345,000	58.0	344.4	337,200	412,700	115
120	40.2	323.0	286,100	286,100	46.6	331.7	329,200	329,200	54.9	340.8	320,300	409,400	120
125	35.9	316.1	277,500	277,500	42.9	326.2	315,600	315,600	51.7	336.7	304,700	397,500	125
130	31.1	307.9	271,100	271,100	38.9	320.0	304,000	304,000	48.4	332.2	290,400	377,100	130
135	25.4	297.7	267,500	267,500	34.5	312.7	293,500	294,800	44.8	327.1	277,200	359,400	135
140	18.0	283.5	267,500	267,500	29.5	304.0	280,400	288,000	41.0	321.3	264,800	344,300	140
145					23.4	292.8	268,100	284,300	36.8	314.6	253,300	331,600	145
150					14.8	276.3	256,200	278,100	32.1	306.6	242,500	321,200	150
155									26.7	296.9	232,300	313,900	155
160									19.7	283.9	222,600	310,200	160
165									6.5	257.9	212,700	248,200	165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220

MLC650 VPC-MAX S-3

ASME B30.5



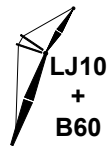
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	64.2	345.9	274,800	407,700									125
130	61.4	343.1	261,800	407,700									130
135	58.4	339.9	249,800	397,600									135
140	55.4	336.4	238,600	381,000									140
145	52.2	332.4	228,200	365,600									145
150	48.8	328.0	218,500	351,400									150
155	45.3	322.9	209,400	338,000	58.5	333.4	186,300	320,600					155
160	41.5	317.2	200,800	325,600	55.5	329.9	178,600	308,800					160
165	37.4	310.6	192,700	313,900	52.3	325.9	171,400	297,700					165
170	32.8	302.9	185,100	302,900	48.9	321.5	164,600	287,200					170
175	27.5	293.5	177,800	292,500	45.4	316.5	158,100	277,400					175
180	20.8	281.1	170,700	282,700	41.6	310.8	152,000	268,200					180
185	9.7	259.5	163,500	273,200	37.5	304.2	146,100	259,400	52.0	317.1	127,800	245,600	185
190					33.0	296.5	140,500	251,100	48.6	312.6	122,900	237,700	190
195					27.7	287.2	135,100	243,200	45.1	307.5	118,200	230,200	195
200					21.0	274.9	129,900	235,600	41.3	301.8	113,600	223,200	200
205					10.3	254.0	124,400	228,200	37.1	295.1	109,300	216,400	205
210									32.5	287.3	105,200	210,000	210
215									27.1	277.7	101,100	203,800	215
220									20.3	265.0	97,100	197,800	220

MLC650 VPC-MAX S-3

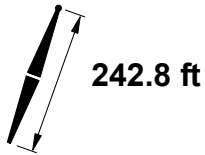
ASME B30.5



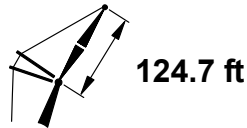
881,800 lb



360°



242.8 ft

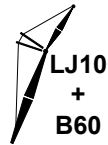


124.7 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.0	370.3	385,300 b	385,300 b									70
75	70.6	368.5	383,500 b	383,500 b									75
80	68.1	366.4	380,500 b	380,500 b	72.3	368.8	387,700 b	387,700 b					80
85	65.6	364.0	376,700 b	376,700 b	69.8	366.8	387,500 b	387,500 b					85
90	63.0	361.4	372,000	372,000	67.3	364.7	386,000 b	386,000 b					90
95	60.3	358.5	359,200	359,200	64.8	362.2	383,300	383,300					95
100	57.6	355.2	339,800	339,800	62.2	359.5	379,900	379,900	68.6	363.8	387,600	387,600	100
105	54.7	351.6	322,600	322,600	59.5	356.5	375,700	375,700	66.1	361.5	376,000	387,600	105
110	51.8	347.6	307,200	307,200	56.7	353.1	363,900	363,900	63.5	358.9	355,800	387,600	110
115	48.7	343.1	293,800	293,800	53.8	349.4	345,100	345,100	60.9	356.0	337,300	387,200	115
120	45.5	338.1	282,000	282,000	50.8	345.2	328,400	328,400	58.1	352.8	320,500	385,000	120
125	42.0	332.5	271,700	271,700	47.7	340.6	313,800	313,800	55.3	349.3	305,000	382,300	125
130	38.3	326.1	263,200	263,200	44.4	335.4	300,900	300,900	52.4	345.4	290,800	379,300	130
135	34.2	318.8	256,300	256,300	40.9	329.6	289,800	289,800	49.3	341.0	277,600	361,200	135
140	29.6	310.1	251,500	251,500	37.1	322.9	280,600	280,600	46.1	336.1	265,300	344,600	140
145	24.1	299.2	246,400	246,400	32.8	315.2	269,200	273,100	42.7	330.6	253,900	330,100	145
150	16.9	284.3	245,000	245,000	28.0	306.0	257,800	267,900	39.1	324.4	243,300	317,700	150
155					22.1	294.2	247,100	262,400	35.1	317.3	233,200	307,300	155
160					13.7	276.6	236,700	253,300	30.6	308.9	223,800	298,900	160
165									25.3	298.6	214,900	293,000	165
170									18.6	284.8	206,300	287,300	170
175									4.9	255.6	197,400	226,000	175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230

MLC650 VPC-MAX S-3

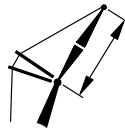
ASME B30.5



881,800 lb



242.8 ft

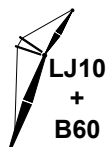


124.7 ft

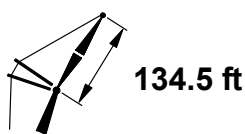
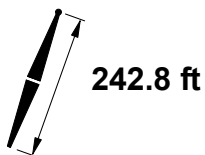
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	63.9	354.4	261,900	379,400									130
135	61.2	351.6	249,900	379,400									135
140	58.5	348.4	238,800	379,400									140
145	55.7	344.9	228,400	365,400									145
150	52.8	341.0	218,700	351,100									150
155	49.8	336.7	209,700	337,900									155
160	46.6	331.9	201,200	325,500	58.6	341.9	178,700	308,500					160
165	43.2	326.5	193,200	313,800	55.8	338.4	171,500	297,400					165
170	39.6	320.4	185,700	302,900	52.9	334.5	164,700	287,100					170
175	35.6	313.4	178,500	292,600	49.9	330.2	158,300	277,300					175
180	31.2	305.2	171,700	282,900	46.7	325.4	152,200	268,100					180
185	26.1	295.3	165,200	273,700	43.3	320.1	146,500	259,400					185
190	19.6	282.1	158,900	265,000	39.7	314.0	141,000	251,100	52.6	325.7	123,000	237,600	190
195	8.6	258.8	152,400	256,500	35.8	307.0	135,800	243,300	49.6	321.4	118,300	230,100	195
200					31.4	298.9	130,700	235,900	46.4	316.6	113,900	223,100	200
205					26.3	289.0	125,900	228,800	43.0	311.1	109,600	216,400	205
210					19.9	276.0	121,100	222,000	39.3	305.0	105,600	210,000	210
215					9.3	253.4	116,200	215,300	35.3	297.9	101,700	203,900	215
220									30.9	289.6	97,900	198,100	220
230									19.1	266.0	90,500	187,100	230

MLC650 VPC-MAX S-3

ASME B30.5



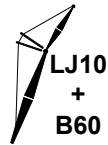
881,800 lb



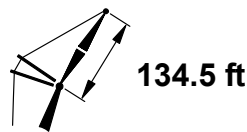
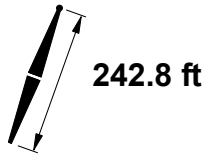
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.3	380.7	359,500 b	359,500 b									70
75	72.1	379.0	358,800 b	358,800 b									75
80	69.8	377.1	356,800 b	356,800 b									80
85	67.5	374.9	354,000	354,000	71.4	377.4	361,300 b	361,300 b					85
90	65.1	372.5	350,500	350,500	69.1	375.4	360,900	360,900					90
95	62.7	369.9	346,500	346,500	66.8	373.2	359,400	359,400					95
100	60.3	366.9	336,400	336,400	64.4	370.7	357,000	357,000					100
105	57.7	363.7	319,100	319,100	62.0	368.0	354,100	354,100	68.0	372.3	361,200	361,200	105
110	55.1	360.1	303,600	303,600	59.5	365.0	350,600	350,600	65.6	370.0	352,800	361,200	110
115	52.4	356.2	289,700	289,700	56.9	361.6	343,200	343,200	63.2	367.4	334,400	361,200	115
120	49.6	351.9	277,400	277,400	54.3	357.9	326,200	326,200	60.8	364.5	317,600	360,900	120
125	46.6	347.1	266,400	266,400	51.5	353.9	311,000	311,000	58.2	361.3	302,200	359,200	125
130	43.5	341.8	256,800	256,800	48.7	349.4	297,500	297,500	55.6	357.8	288,000	356,900	130
135	40.2	335.8	248,600	248,600	45.7	344.5	285,500	285,500	52.9	354.0	274,900	354,400	135
140	36.6	329.0	240,700	240,700	42.5	339.0	275,000	275,000	50.2	349.7	262,700	343,100	140
145	32.7	321.3	232,700	232,700	39.1	332.8	266,000	266,000	47.2	345.0	251,400	328,700	145
150	28.2	312.1	226,100	226,100	35.4	325.7	255,900	257,200	44.2	339.8	240,800	315,100	150
155	22.9	300.7	221,900	221,900	31.4	317.6	245,400	248,600	40.9	334.0	230,900	303,200	155
160	15.9	284.9	221,200	221,200	26.7	307.8	235,400	241,600	37.4	327.4	221,600	292,800	160
165					21.0	295.4	226,000	237,100	33.5	319.9	212,800	282,200	165
170					12.8	276.8	216,800	233,800	29.2	311.0	204,500	272,900	170
175									24.1	300.2	196,500	265,500	175
180									17.6	285.6	188,900	260,900	180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240

MLC650 VPC-MAX S-3

ASME B30.5



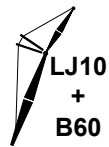
881,800 lb



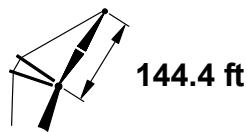
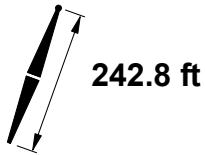
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	63.5	362.9	246,700	352,600									135
140	61.1	360.0	235,600	352,600									140
145	58.6	356.9	225,300	352,600									145
150	56.0	353.5	215,700	348,500									150
155	53.3	349.7	206,700	335,300									155
160	50.5	345.5	198,300	322,900									160
165	47.6	340.8	190,400	311,400	58.7	350.4	168,200	294,700					165
170	44.6	335.7	182,900	300,500	56.1	346.9	161,500	284,400					170
175	41.3	330.0	175,900	290,300	53.4	343.1	155,100	274,700					175
180	37.9	323.5	169,200	280,700	50.6	339.0	149,100	265,500					180
185	34.1	316.1	162,800	271,500	47.7	334.3	143,400	256,900					185
190	29.8	307.4	156,700	262,900	44.7	329.2	138,000	248,700					190
195	24.8	296.9	150,900	254,700	41.4	323.5	132,900	240,900	53.1	334.4	115,000	227,500	195
200	18.6	283.1	145,200	246,800	38.0	317.1	128,000	233,500	50.3	330.1	110,600	220,500	200
205	7.6	257.8	139,300	239,200	34.2	309.7	123,300	226,500	47.4	325.5	106,400	213,800	205
210					30.0	301.1	118,700	219,800	44.4	320.3	102,500	207,500	210
215					25.0	290.7	114,300	213,400	41.1	314.5	98,600	201,500	215
220					18.8	277.0	110,000	207,300	37.6	308.0	95,000	195,700	220
230									29.5	291.8	88,000	184,900	230
240									18.1	266.9	81,200	174,900	240

MLC650 VPC-MAX S-3

ASME B30.5



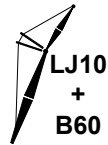
881,800 lb



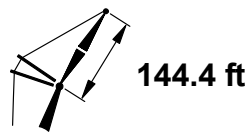
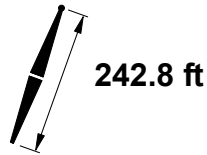
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	73.4	389.4	335,500 b	335,500 b									75
80	71.3	387.6	334,500	334,500									80
85	69.1	385.6	332,500	332,500	72.7	387.9	336,800	336,800					85
90	67.0	383.4	329,900	329,900	70.6	386.0	336,800	336,800					90
95	64.7	381.0	326,800	326,800	68.4	384.0	336,600	336,600					95
100	62.5	378.3	322,900	322,900	66.3	381.7	335,200	335,200					100
105	60.2	375.4	313,600	313,600	64.0	379.2	333,100	333,100	69.6	383.0	335,100	335,100	105
110	57.8	372.2	300,700	300,700	61.8	376.5	330,500	330,500	67.4	380.9	335,100	335,100	110
115	55.4	368.7	286,600	286,600	59.5	373.4	327,500	327,500	65.2	378.5	332,400	335,100	115
120	52.9	364.8	274,000	274,000	57.1	370.1	319,400	319,400	63.0	375.9	315,700	335,100	120
125	50.3	360.6	262,600	262,600	54.6	366.5	306,900	306,900	60.7	373.0	300,300	335,100	125
130	47.6	356.0	252,500	252,500	52.1	362.5	294,600	294,600	58.3	369.8	286,200	335,100	130
135	44.8	350.9	242,700	242,700	49.5	358.2	282,500	282,500	55.9	366.4	273,100	333,700	135
140	41.8	345.2	233,000	233,000	46.7	353.4	270,900	270,900	53.4	362.6	260,900	331,600	140
145	38.6	338.9	224,200	224,200	43.9	348.2	260,000	260,000	50.8	358.4	249,600	321,100	145
150	35.1	331.8	216,300	216,300	40.8	342.3	249,700	249,700	48.2	353.9	239,100	309,000	150
155	31.3	323.6	209,600	209,600	37.5	335.8	240,300	240,300	45.4	348.9	229,200	297,300	155
160	27.0	314.0	204,300	204,300	34.0	328.4	231,900	231,900	42.4	343.4	220,000	285,900	160
165	21.9	302.1	200,900	200,900	30.1	319.8	224,600	224,600	39.3	337.2	211,300	275,000	165
170	15.0	285.4	200,900	200,900	25.5	309.6	216,200	218,900	35.9	330.3	203,100	264,900	170
175					20.0	296.6	207,800	215,300	32.1	322.4	195,300	255,800	175
180					11.9	276.8	199,600	215,300	28.0	313.1	187,900	247,900	180
185									23.0	301.7	180,800	241,600	185
190									16.6	286.4	174,000	238,000	190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240
250													250

MLC650 VPC-MAX S-3

ASME B30.5



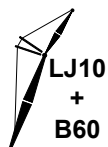
881,800 lb



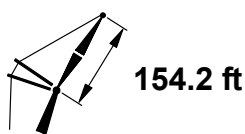
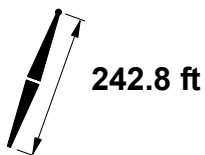
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	63.3	371.4	233,500	328,100									140
145	61.0	368.5	223,200	328,100									145
150	58.6	365.4	213,700	328,100									150
155	56.2	362.0	204,700	328,100									155
160	53.8	358.2	196,400	321,100									160
165	51.2	354.1	188,500	309,600									165
170	48.5	349.7	181,100	298,800	58.7	358.8	159,300	282,500					170
175	45.7	344.7	174,100	288,600	56.3	355.4	153,000	272,800					175
180	42.8	339.3	167,400	279,000	53.8	351.7	147,100	263,700					180
185	39.7	333.2	161,200	270,000	51.3	347.6	141,400	255,100					185
190	36.3	326.4	155,200	261,400	48.6	343.2	136,100	247,000					190
195	32.7	318.6	149,500	253,200	45.8	338.2	131,000	239,200					195
200	28.5	309.5	144,000	245,500	42.9	332.8	126,100	231,900	53.6	342.9	108,500	218,700	200
205	23.7	298.5	138,700	238,100	39.8	326.8	121,500	224,900	51.0	338.8	104,300	212,100	205
210	17.6	283.9	133,600	231,000	36.4	320.0	117,100	218,300	48.3	334.3	100,400	205,800	210
215	6.5	256.4	128,200	219,700	32.8	312.2	112,800	212,000	45.6	329.4	96,600	199,800	215
220					28.7	303.2	108,700	205,900	42.6	323.9	93,000	194,100	220
230					17.9	277.8	100,700	194,500	36.1	310.9	86,200	183,400	230
240									28.3	293.8	79,800	173,500	240
250									17.1	267.7	73,600	164,300	250

MLC650 VPC-MAX S-3

ASME B30.5



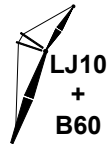
881,800 lb



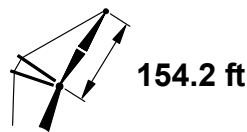
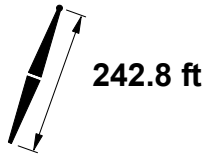
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	74.5	399.7	313,400 b	313,400 b									75
80	72.5	398.1	313,100	313,100									80
85	70.5	396.2	311,900	311,900									85
90	68.5	394.2	310,000	310,000	71.9	396.5	314,500	314,500					90
95	66.5	392.0	307,700	307,700	69.9	394.6	314,500	314,500					95
100	64.4	389.5	304,400	304,400	67.9	392.5	314,000	314,000					100
105	62.3	386.8	301,400	301,400	65.8	390.2	312,700	312,700					105
110	60.2	383.9	290,500	290,500	63.8	387.7	310,900	310,900	68.9	391.6	312,800	312,800	110
115	57.9	380.7	279,000	279,000	61.6	384.9	308,700	308,700	66.9	389.4	312,800	312,800	115
120	55.7	377.2	267,700	267,700	59.5	381.9	306,100	306,100	64.8	387.0	312,800	312,800	120
125	53.4	373.4	256,700	256,700	57.2	378.6	297,100	297,100	62.7	384.3	297,500	312,800	125
130	50.9	369.3	246,100	246,100	55.0	375.1	285,800	285,800	60.6	381.5	283,300	312,800	130
135	48.4	364.8	236,000	236,000	52.6	371.2	274,700	274,700	58.4	378.3	270,300	312,800	135
140	45.8	359.9	226,400	226,400	50.2	366.9	263,800	263,800	56.1	374.9	258,200	312,000	140
145	43.1	354.5	217,400	217,400	47.6	362.3	253,300	253,300	53.8	371.2	247,000	310,300	145
150	40.2	348.5	209,200	209,200	45.0	357.3	243,300	243,300	51.4	367.1	236,500	300,700	150
155	37.1	341.9	201,700	201,700	42.2	351.7	233,800	233,800	49.0	362.7	226,700	289,800	155
160	33.8	334.5	195,100	195,100	39.3	345.5	225,000	225,000	46.4	357.9	217,500	279,100	160
165	30.1	325.9	189,500	189,500	36.1	338.7	217,000	217,000	43.7	352.6	208,800	268,700	165
170	25.9	315.8	185,100	185,100	32.7	330.9	209,900	209,900	40.8	346.7	200,700	258,700	170
175	20.9	303.3	182,600	182,600	28.9	321.9	203,700	203,700	37.8	340.3	193,000	249,300	175
180	14.2	285.8	182,600	182,600	24.5	311.2	198,300	199,000	34.5	333.0	185,700	240,500	180
185					19.1	297.6	190,800	196,300	30.9	324.7	178,800	232,600	185
190					11.1	276.7	183,400	196,300	26.8	315.0	172,200	225,900	190
195									22.0	303.1	165,800	220,600	195
200									15.8	287.0	159,600	217,800	200
205													205
210													210
215													215
220													220
230													230
240													240
250													250
260													260

MLC650 VPC-MAX S-3

ASME B30.5



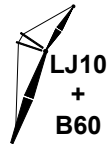
881,800 lb



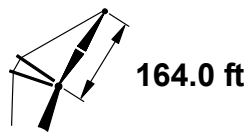
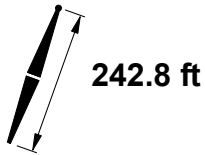
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	63.0	379.8	220,100	305,100									145
150	60.9	377.0	210,600	305,100									150
155	58.7	373.9	201,700	305,100									155
160	56.4	370.5	193,400	305,100									160
165	54.1	366.8	185,500	305,100									165
170	51.8	362.8	178,200	296,300									170
175	49.3	358.4	171,200	286,200	58.8	367.3	149,800	270,200					175
180	46.7	353.7	164,600	276,700	56.5	364.0	143,900	261,100					180
185	44.0	348.4	158,400	267,600	54.2	360.3	138,300	252,500					185
190	41.2	342.7	152,500	259,100	51.8	356.3	133,000	244,400					190
195	38.2	336.3	146,900	251,000	49.4	351.9	127,900	236,700					195
200	35.0	329.1	141,500	243,300	46.8	347.2	123,100	229,500	54.0	351.5	101,000	209,400	200
205	31.4	321.0	136,400	236,000	44.1	342.0	118,600	222,500	51.6	347.5	97,200	203,200	205
210	27.4	311.5	131,400	229,100	41.3	336.2	114,200	216,000	49.1	343.1	93,400	197,200	210
215	22.7	300.0	126,700	222,400	38.3	329.9	110,000	209,700	46.6	338.3	89,900	191,600	215
220	16.8	284.7	122,000	216,000	35.1	322.7	106,000	203,700	41.0	327.3	83,200	180,900	220
230					27.6	305.2	98,400	192,400	34.7	313.6	77,000	171,200	230
240					17.0	278.6	91,100	182,000	27.1	295.8	71,100	162,200	240
250									16.3	268.4	65,400	153,700	250
260													260

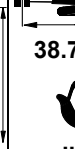
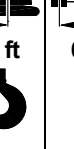
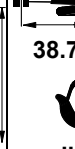
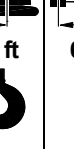
MLC650 VPC-MAX S-3

ASME B30.5



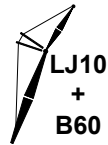
881,800 lb



	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	73.6	408.5	293,100	293,100									80
85	71.7	406.7	292,500	292,500									85
90	69.9	404.9	291,300	291,300									90
95	68.0	402.8	289,600	289,600	71.2	405.2	294,000	294,000					95
100	66.1	400.5	287,200	287,200	69.3	403.2	293,900	293,900					100
105	64.1	398.0	284,500	284,500	67.4	401.1	293,300	293,300					105
110	62.1	395.3	280,300	280,300	65.5	398.7	292,100	292,100					110
115	60.1	392.4	270,000	270,000	63.5	396.2	290,500	290,500	68.4	400.2	292,100	292,100	115
120	58.0	389.2	259,700	259,700	61.5	393.4	288,600	288,600	66.5	397.9	292,100	292,100	120
125	55.9	385.7	249,500	249,500	59.5	390.4	286,200	286,200	64.5	395.5	292,100	292,100	125
130	53.7	382.0	239,500	239,500	57.4	387.1	277,200	277,200	62.5	392.8	282,600	292,100	130
135	51.5	378.0	229,900	229,900	55.2	383.6	267,100	267,100	60.5	389.9	269,500	292,100	135
140	49.2	373.6	220,600	220,600	53.0	379.8	257,000	257,000	58.5	386.8	257,500	292,100	140
145	46.8	368.8	211,800	211,800	50.8	375.6	247,100	247,100	56.4	383.4	246,300	291,700	145
150	44.3	363.6	203,500	203,500	48.4	371.1	237,500	237,500	54.2	379.7	235,800	290,300	150
155	41.6	358.0	195,800	195,800	46.0	366.3	228,200	228,200	52.0	375.8	226,000	282,200	155
160	38.8	351.7	188,700	188,700	43.4	360.9	219,400	219,400	49.7	371.5	216,900	272,400	160
165	35.8	344.8	182,300	182,300	40.8	355.1	211,200	211,200	47.3	366.8	208,300	262,500	165
170	32.6	337.0	176,700	176,700	37.9	348.6	203,600	203,600	44.8	361.7	200,200	253,000	170
175	29.0	328.0	171,900	171,900	34.8	341.4	196,600	196,600	42.2	356.1	192,500	243,700	175
180	25.0	317.5	168,200	168,200	31.5	333.3	190,500	190,500	39.4	350.0	185,300	234,800	180
185	20.1	304.5	166,100	166,100	27.8	324.0	185,200	185,200	36.5	343.2	178,400	226,600	185
190	13.4	286.1	166,100	166,100	23.5	312.8	181,200	181,200	33.3	335.6	171,900	218,900	190
195					18.3	298.6	177,200	178,900	29.8	326.9	165,700	212,000	195
200					10.4	276.5	170,500	178,900	25.8	316.8	159,800	206,100	200
205									21.2	304.4	154,000	201,500	205
210									15.0	287.5	148,400	199,200	210
215													215
220													220
230													230
240													240
250													250
260													260
270													270

MLC650 VPC-MAX S-3

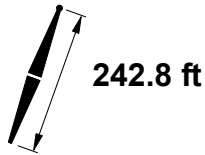
ASME B30.5



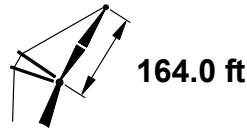
881,800 lb



360°



242.8 ft

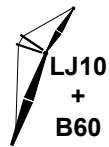


164.0 ft

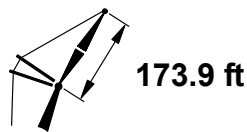
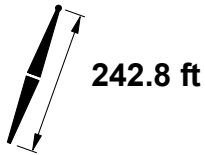
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	64.8	390.9	219,100	280,000									145
150	62.8	388.3	209,600	280,000									150
155	60.8	385.5	200,800	280,000									155
160	58.7	382.4	192,500	280,000									160
165	56.6	379.0	184,700	280,000									165
170	54.5	375.4	177,300	280,000									170
175	52.3	371.4	170,400	280,000									175
180	50.0	367.2	163,900	275,800	58.8	375.8	142,900	260,100					180
185	47.6	362.6	157,700	266,800	56.7	372.5	137,300	251,600					185
190	45.1	357.5	151,900	258,300	54.5	368.8	132,000	243,500					190
195	42.5	352.0	146,300	250,300	52.3	364.9	127,000	235,900					195
200	39.8	346.0	141,000	242,600	50.0	360.7	122,300	228,600					200
205	36.9	339.3	135,900	235,400	47.7	356.1	117,700	221,700					205
210	33.7	331.8	131,000	228,500	45.2	351.0	113,400	215,200	54.3	360.1	96,100	202,300	210
215	30.3	323.3	126,400	221,900	42.6	345.5	109,300	208,900	52.1	356.1	92,500	196,300	215
220	26.4	313.4	121,900	215,500	39.9	339.5	105,300	203,000	49.8	351.8	88,900	190,700	220
230	16.0	285.3	113,200	203,700	33.8	325.4	97,800	191,800	44.9	342.1	82,300	180,100	230
240					26.5	307.1	90,900	181,500	39.6	330.5	76,200	170,500	240
250					16.2	279.3	84,100	172,000	33.5	316.2	70,500	161,500	250
260									26.1	297.6	65,100	153,300	260
270									15.5	269.0	59,800	145,500	270

MLC650 VPC-MAX S-3

ASME B30.5



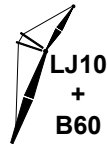
881,800 lb



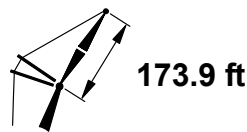
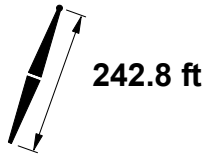
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	74.6	418.8	272,900	272,900									80
85	72.8	417.2	272,900	272,900									85
90	71.1	415.4	272,200	272,200									90
95	69.3	413.4	271,100	271,100	72.3	415.6	273,300	273,300					95
100	67.5	411.3	269,600	269,600	70.5	413.8	273,300	273,300					100
105	65.7	409.0	267,700	267,700	68.7	411.8	273,300	273,300					105
110	63.9	406.5	265,200	265,200	67.0	409.6	273,000	273,000					110
115	62.0	403.8	260,700	260,700	65.1	407.2	272,000	272,000	69.7	410.8	270,200	270,200	115
120	60.1	400.8	251,500	251,500	63.3	404.7	270,600	270,600	67.9	408.7	270,200	270,200	120
125	58.1	397.7	242,300	242,300	61.4	401.9	269,100	269,100	66.1	406.4	270,200	270,200	125
130	56.1	394.3	233,100	233,100	59.5	398.9	267,200	267,200	64.2	404.0	270,200	270,200	130
135	54.1	390.6	224,100	224,100	57.5	395.6	259,200	259,200	62.4	401.3	266,700	270,200	135
140	52.0	386.6	215,400	215,400	55.5	392.1	250,100	250,100	60.5	398.4	254,700	270,200	140
145	49.8	382.3	207,000	207,000	53.4	388.4	241,000	241,000	58.5	395.3	243,500	270,200	145
150	47.6	377.7	199,000	199,000	51.3	384.3	232,100	232,100	56.5	391.9	233,100	270,200	150
155	45.2	372.7	191,400	191,400	49.1	379.9	223,400	223,400	54.5	388.3	223,400	270,200	155
160	42.8	367.2	184,200	184,200	46.8	375.2	215,000	215,000	52.4	384.4	214,300	265,300	160
165	40.2	361.3	177,600	177,600	44.5	370.0	206,900	206,900	50.3	380.2	205,700	256,600	165
170	37.5	354.8	171,500	171,500	42.0	364.4	199,300	199,300	48.0	375.6	197,600	247,700	170
175	34.6	347.5	166,000	166,000	39.4	358.3	192,100	192,100	45.7	370.7	190,000	239,000	175
180	31.5	339.4	161,100	161,100	36.6	351.6	185,500	185,500	43.3	365.3	182,800	230,600	180
185	28.0	330.1	157,100	157,100	33.7	344.1	179,500	179,500	40.8	359.5	176,000	222,400	185
190	24.0	319.2	154,100	154,100	30.4	335.6	174,200	174,200	38.1	353.1	169,600	214,700	190
195	19.3	305.6	152,500	152,500	26.8	325.9	169,700	169,700	35.2	346.0	163,400	207,300	195
200	12.7	286.3	152,500	152,500	22.7	314.3	166,300	166,300	32.1	338.1	157,600	200,600	200
205					17.5	299.4	163,000	164,500	28.7	329.0	152,000	194,600	205
210					9.7	276.1	156,900	164,500	24.9	318.5	146,600	189,500	210
215									20.3	305.6	141,400	185,700	215
220									14.3	288.0	136,200	183,600	220
230													230
240													240
250													250
260													260
270													270
280													280

MLC650 VPC-MAX S-3

ASME B30.5



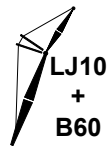
881,800 lb



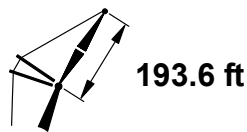
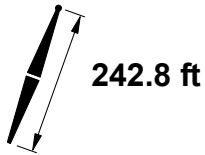
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	64.5	399.4	206,500	260,200									150
155	62.6	396.8	197,700	260,200									155
160	60.7	393.9	189,400	260,200									160
165	58.8	390.8	181,700	260,200									165
170	56.8	387.5	174,400	260,200									170
175	54.8	383.9	167,500	260,200									175
180	52.7	380.1	161,000	260,200									180
185	50.5	375.9	154,900	260,200	58.8	384.3	134,100	247,600					185
190	48.3	371.4	149,000	256,000	56.9	381.0	128,900	240,900					190
195	46.0	366.5	143,500	248,000	54.8	377.4	123,900	233,300					195
200	43.6	361.2	138,300	240,400	52.8	373.5	119,200	226,100					200
205	41.1	355.4	133,200	233,200	50.6	369.4	114,700	219,300					205
210	38.5	349.1	128,400	226,300	48.4	364.9	110,400	212,700					210
215	35.6	342.1	123,900	219,700	46.1	360.0	106,300	206,500	54.6	368.6	89,200	193,700	215
220	32.6	334.3	119,500	213,500	43.7	354.7	102,400	200,600	52.6	364.8	85,700	188,100	220
230	25.4	315.1	111,100	201,700	38.5	342.7	95,000	189,500	48.2	356.0	79,200	177,700	230
240	15.3	285.9	103,200	190,900	32.7	327.9	88,200	179,400	43.5	345.8	73,200	168,000	240
250					25.6	308.8	81,800	170,000	38.3	333.6	67,600	159,200	250
260					15.5	279.9	75,600	161,200	32.4	318.7	62,300	151,000	260
270									25.2	299.4	57,400	143,400	270
280									14.8	269.5	52,500	136,200	280

MLC650 VPC-MAX S-3

ASME B30.5



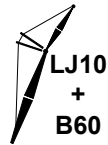
881,800 lb



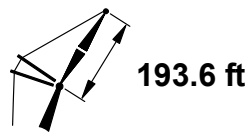
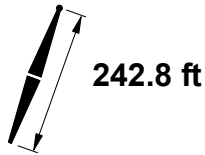
85°					83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	74.6	437.8	239,100	239,100									85
90	73.1	436.2	239,100	239,100									90
95	71.5	434.5	238,800	238,800									95
100	69.9	432.6	238,100	238,100	72.6	434.7	238,800	238,800					100
105	68.3	430.6	237,100	237,100	71.0	433.0	238,800	238,800					105
110	66.7	428.4	235,800	235,800	69.4	431.0	238,800	238,800					110
115	65.1	426.0	234,200	234,200	67.8	428.9	238,800	238,800					115
120	63.4	423.5	232,200	232,200	66.2	426.7	238,600	238,600					120
125	61.7	420.7	226,300	226,300	64.6	424.2	237,800	237,800	68.7	428.0	236,100	236,100	125
130	60.0	417.8	218,800	218,800	62.9	421.6	236,800	236,800	67.0	425.8	236,100	236,100	130
135	58.3	414.6	211,300	211,300	61.2	418.8	235,700	235,700	65.4	423.5	236,100	236,100	135
140	56.5	411.3	203,800	203,800	59.5	415.8	234,300	234,300	63.8	421.0	236,100	236,100	140
145	54.7	407.7	196,500	196,500	57.7	412.6	227,000	227,000	62.1	418.2	236,100	236,100	145
150	52.8	403.8	189,200	189,200	55.9	409.2	219,600	219,600	60.4	415.3	229,500	236,100	150
155	50.9	399.7	182,300	182,300	54.1	405.5	212,200	212,200	58.6	412.2	219,900	236,100	155
160	48.9	395.3	175,500	175,500	52.2	401.6	204,800	204,800	56.8	408.9	210,800	236,100	160
165	46.9	390.6	169,100	169,100	50.3	397.4	197,600	197,600	55.0	405.4	202,300	236,100	165
170	44.7	385.5	163,000	163,000	48.3	392.9	190,500	190,500	53.2	401.6	194,300	234,800	170
175	42.6	380.0	157,200	157,200	46.2	388.0	183,700	183,700	51.3	397.5	186,700	227,600	175
180	40.3	374.0	151,800	151,800	44.1	382.8	177,200	177,200	49.3	393.2	179,600	220,400	180
185	37.8	367.6	146,800	146,800	41.8	377.2	171,000	171,000	47.3	388.5	172,900	213,200	185
190	35.3	360.5	142,200	142,200	39.5	371.1	165,100	165,100	45.2	383.5	166,500	206,100	190
195	32.5	352.7	138,100	138,100	37.1	364.4	159,700	159,700	43.0	378.1	160,400	199,100	195
200	29.5	343.9	134,600	134,600	34.4	357.1	154,700	154,700	40.7	372.2	154,600	192,400	200
205	26.2	333.9	131,700	131,700	31.6	349.0	150,100	150,100	38.3	365.9	149,100	186,000	205
210	22.4	322.2	129,600	129,600	28.5	339.9	146,100	146,100	35.8	358.9	143,900	179,900	210
215	17.9	307.5	128,700	128,700	25.1	329.5	142,800	142,800	33.1	351.3	138,900	174,300	215
220	11.4	286.4	128,700	128,700	21.1	317.0	140,400	140,400	30.2	342.7	134,000	169,100	220
230					8.3	275.0	134,500	138,400	23.3	321.7	124,900	160,600	230
240									13.0	288.6	116,300	154,700	240
250													250
260													260
270													270
280													280
290													290
300													300

MLC650 VPC-MAX S-3

ASME B30.5



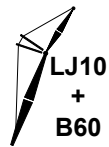
881,800 lb



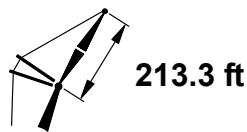
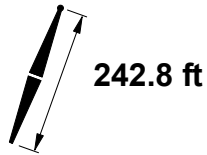
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160	64.0	416.4	185,300	225,600									160
165	62.3	413.8	177,600	225,600									165
170	60.6	410.9	170,400	225,600									170
175	58.9	407.8	163,600	225,600									175
180	57.1	404.5	157,100	225,600									180
185	55.3	401.0	151,100	225,600									185
190	53.4	397.2	145,300	225,600									190
195	51.5	393.2	139,800	225,600	58.9	401.3	119,700	212,200					195
200	49.6	388.9	134,600	225,600	57.1	398.0	115,000	212,200					200
205	47.6	384.3	129,700	225,600	55.3	394.5	110,600	212,200					205
210	45.5	379.3	125,000	223,200	53.5	390.7	106,400	209,400					210
215	43.3	374.0	120,500	216,700	51.6	386.7	102,300	203,200					215
220	41.0	368.2	116,100	210,500	49.6	382.4	98,500	197,300					220
230	36.1	355.0	108,100	199,000	45.5	372.8	91,300	186,400	53.3	381.9	74,900	174,200	230
240	30.6	339.1	100,600	188,300	41.1	361.7	84,600	176,300	49.4	373.6	69,000	164,700	240
250	23.8	318.4	93,600	178,500	36.2	348.6	78,500	167,100	45.3	363.9	63,600	156,000	250
260	14.0	286.8	86,800	165,000	30.7	332.7	72,700	158,500	40.9	352.7	58,500	147,900	260
270					23.9	312.2	67,300	150,600	36.0	339.5	53,800	140,400	270
280					14.2	280.9	61,900	143,100	30.4	323.4	49,300	133,400	280
290									23.5	302.6	45,000	126,900	290
300									13.5	270.3	40,800	120,700	300

MLC650 VPC-MAX S-3

ASME B30.5



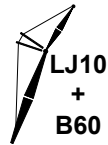
881,800 lb



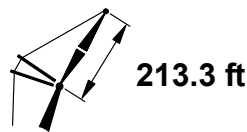
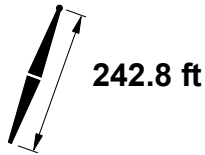
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	74.7	456.9	209,700	209,700									90
95	73.3	455.3	209,700	209,700									95
100	71.9	453.6	209,500	209,500									100
105	70.4	451.8	208,700	208,700	72.8	453.8	209,000	209,000					105
110	69.0	449.8	207,800	207,800	71.4	452.1	209,000	209,000					110
115	67.5	447.7	206,700	206,700	70.0	450.2	209,000	209,000					115
120	66.1	445.5	205,400	205,400	68.5	448.2	209,000	209,000					120
125	64.6	443.0	204,100	204,100	67.1	446.0	209,000	209,000					125
130	63.1	440.4	202,500	202,500	65.6	443.7	208,700	208,700	69.3	447.2	205,800	205,800	130
135	61.5	437.7	196,800	196,800	64.1	441.2	208,000	208,000	67.8	445.1	205,800	205,800	135
140	60.0	434.7	190,800	190,800	62.6	438.6	207,000	207,000	66.4	442.9	205,800	205,800	140
145	58.4	431.6	184,500	184,500	61.0	435.8	206,000	206,000	64.9	440.5	205,800	205,800	145
150	56.8	428.3	178,400	178,400	59.5	432.8	204,600	204,600	63.4	437.9	205,800	205,800	150
155	55.1	424.8	172,400	172,400	57.9	429.6	199,000	199,000	61.8	435.2	205,800	205,800	155
160	53.4	421.0	166,500	166,500	56.3	426.2	193,000	193,000	60.3	432.3	205,800	205,800	160
165	51.7	417.0	160,700	160,700	54.6	422.6	186,900	186,900	58.7	429.2	198,800	205,800	165
170	50.0	412.8	155,100	155,100	52.9	418.8	180,900	180,900	57.1	425.9	190,800	205,800	170
175	48.1	408.2	149,700	149,700	51.2	414.7	174,900	174,900	55.5	422.4	183,300	205,800	175
180	46.3	403.4	144,500	144,500	49.4	410.4	169,100	169,100	53.8	418.7	176,200	205,800	180
185	44.4	398.2	139,600	139,600	47.6	405.8	163,300	163,300	52.1	414.8	169,500	201,800	185
190	42.3	392.7	134,900	134,900	45.7	400.8	157,900	157,900	50.3	410.6	163,200	195,900	190
195	40.3	386.8	130,500	130,500	43.7	395.6	152,600	152,600	48.5	406.1	157,200	190,000	195
200	38.1	380.4	126,400	126,400	41.7	389.9	147,500	147,500	46.7	401.4	151,400	184,100	200
205	35.8	373.4	122,600	122,600	39.6	383.8	142,800	142,800	44.7	396.3	146,000	178,300	205
210	33.3	365.8	119,200	119,200	37.4	377.3	138,200	138,200	42.8	390.8	140,800	172,600	210
215	30.7	357.5	116,100	116,100	35.0	370.1	134,000	134,000	40.7	385.0	135,900	167,200	215
220	27.9	348.1	113,400	113,400	32.5	362.3	130,100	130,100	38.5	378.7	131,100	161,800	220
230	21.1	324.9	109,800	109,800	26.9	343.9	123,700	123,700	33.8	364.4	122,200	152,100	230
240	10.3	286.2	109,400	109,400	19.8	319.4	119,500	119,500	28.5	347.0	114,000	143,500	240
250					7.1	273.3	115,300	115,800	21.8	324.5	106,300	137,100	250
260									11.9	288.9	98,900	130,500	260
270													270
280													280
290													290
300													300
310													310
320													320

MLC650 VPC-MAX S-3

ASME B30.5



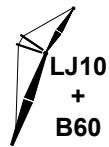
881,800 lb



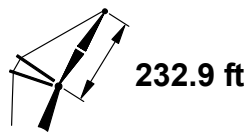
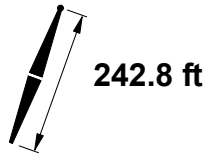
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170	63.6	433.4	166,400	197,100									170
175	62.0	430.7	159,600	197,100									175
180	60.5	427.8	153,200	197,100									180
185	58.9	424.8	147,200	197,100									185
190	57.3	421.5	141,500	197,100									190
195	55.7	418.0	136,000	197,100									195
200	54.0	414.4	130,900	197,100									200
205	52.3	410.5	126,000	197,100	59.0	418.2	106,400	184,300					205
210	50.6	406.3	121,300	197,100	57.4	415.0	102,300	184,300					210
215	48.8	401.9	116,900	197,100	55.7	411.5	98,300	184,300					215
220	46.9	397.1	112,600	197,100	54.1	407.8	94,500	184,300					220
230	43.0	386.7	104,600	196,000	50.6	399.8	87,400	183,200					230
240	38.8	374.7	97,300	185,500	47.0	390.7	80,800	173,200	53.9	399.1	64,800	161,300	240
250	34.2	360.6	90,500	175,800	43.1	380.2	74,800	164,100	50.4	391.0	59,400	152,600	250
260	28.9	343.5	84,200	166,900	38.9	368.2	69,200	155,600	46.8	381.8	54,500	144,700	260
270	22.3	321.4	78,200	158,500	34.3	354.2	63,900	147,800	42.9	371.3	49,900	137,300	270
280	12.8	287.4	72,300	139,900	28.9	337.1	59,000	140,500	38.7	359.2	45,600	130,400	280
290					22.5	315.2	54,300	133,600	34.0	345.0	41,500	124,000	290
300					13.0	281.5	49,700	127,200	28.7	327.8	37,700	118,000	300
310									22.1	305.5	34,000	112,300	310
320									12.4	270.7	30,200	106,900	320

MLC650 VPC-MAX S-3

ASME B30.5



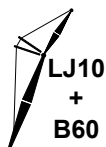
881,800 lb



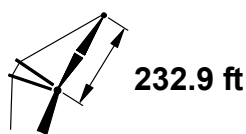
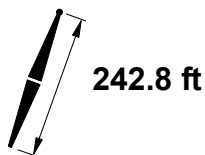
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95	74.7	475.9	182,300	182,300									95
100	73.5	474.4	182,300	182,300									100
105	72.2	472.7	182,100	182,100									105
110	70.9	470.9	181,700	181,700									110
115	69.5	469.0	181,100	181,100	71.8	471.2	181,600	181,600					115
120	68.2	467.0	180,300	180,300	70.4	469.4	181,600	181,600					120
125	66.9	464.8	179,400	179,400	69.1	467.4	181,600	181,600					125
130	65.5	462.5	178,400	178,400	67.8	465.3	181,500	181,500					130
135	64.1	460.0	177,300	177,300	66.4	463.1	181,300	181,300	69.8	466.4	177,500	177,500	135
140	62.8	457.4	176,100	176,100	65.1	460.7	180,800	180,800	68.5	464.4	177,500	177,500	140
145	61.3	454.6	173,200	173,200	63.7	458.2	180,100	180,100	67.1	462.2	177,500	177,500	145
150	59.9	451.7	168,200	168,200	62.3	455.6	179,400	179,400	65.8	459.9	177,500	177,500	150
155	58.5	448.6	163,300	163,300	60.9	452.7	178,600	178,600	64.4	457.5	177,500	177,500	155
160	57.0	445.3	158,300	158,300	59.5	449.7	177,700	177,700	63.0	454.9	177,500	177,500	160
165	55.5	441.8	153,400	153,400	58.0	446.6	176,300	176,300	61.6	452.2	177,500	177,500	165
170	54.0	438.1	148,500	148,500	56.5	443.2	171,500	171,500	60.2	449.3	177,500	177,500	170
175	52.4	434.2	143,700	143,700	55.0	439.7	166,600	166,600	58.8	446.2	177,500	177,500	175
180	50.8	430.1	139,000	139,000	53.5	435.9	161,700	161,700	57.3	442.9	173,900	177,500	180
185	49.2	425.8	134,400	134,400	51.9	432.0	156,800	156,800	55.8	439.5	167,200	177,500	185
190	47.5	421.1	130,000	130,000	50.3	427.8	152,000	152,000	54.3	435.8	160,900	177,500	190
195	45.8	416.2	125,800	125,800	48.7	423.3	147,200	147,200	52.7	432.0	154,900	177,500	195
200	44.0	411.0	121,700	121,700	47.0	418.6	142,500	142,500	51.1	427.9	149,200	175,800	200
205	42.2	405.5	117,800	117,800	45.2	413.6	138,000	138,000	49.5	423.6	143,800	171,100	205
210	40.3	399.5	114,100	114,100	43.5	408.3	133,600	133,600	47.9	419.0	138,700	166,300	210
215	38.3	393.2	110,700	110,700	41.6	402.7	129,500	129,500	46.1	414.2	133,700	161,500	215
220	36.2	386.3	107,500	107,500	39.7	396.6	125,500	125,500	44.4	409.1	129,000	156,800	220
230	31.7	370.8	101,800	101,800	35.5	383.1	118,100	118,100	40.7	397.7	120,300	147,600	230
240	26.4	352.0	97,400	97,400	30.9	367.2	111,700	111,700	36.6	384.7	112,200	138,900	240
250	19.9	327.3	94,700	94,700	25.5	347.6	106,600	106,600	32.1	369.5	104,700	131,100	250
260	9.3	285.6	94,500	94,500	18.6	321.5	103,500	103,500	27.0	351.1	97,700	124,300	260
270					5.9	270.8	97,900	97,900	20.6	327.2	91,100	119,100	270
280									10.9	288.9	84,700	111,500	280
290													290
300													300
310													310
320													320
330													330
340													340

MLC650 VPC-MAX S-3

ASME B30.5



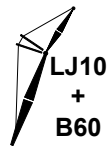
881,800 lb



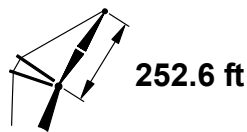
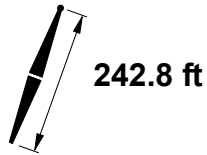
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175	64.6	453.0	156,700	167,600									175
180	63.2	450.4	150,400	167,600									180
185	61.8	447.7	144,400	167,600									185
190	60.4	444.8	138,700	167,600									190
195	59.0	441.7	133,300	167,600									195
200	57.5	438.5	128,200	167,600									200
205	56.0	435.1	123,400	167,600									205
210	54.5	431.5	118,700	167,600									210
215	52.9	427.6	114,300	167,600	59.0	435.2	95,300	157,000					215
220	51.4	423.6	110,100	167,600	57.5	432.0	91,600	157,000					220
230	48.1	414.8	102,200	167,600	54.5	424.9	84,500	157,000					230
240	44.6	404.9	95,000	167,600	51.4	417.1	78,100	157,000					240
250	40.9	393.7	88,300	167,600	48.1	408.3	72,100	157,000	54.4	416.2	56,400	145,000	250
260	36.9	380.8	82,100	165,000	44.7	398.4	66,600	153,400	51.3	408.3	51,600	142,300	260
270	32.5	365.7	76,300	156,700	41.0	387.2	61,500	145,700	48.0	399.5	47,100	135,000	270
280	27.4	347.5	70,800	149,100	37.0	374.3	56,700	138,500	44.5	389.5	42,900	128,200	280
290	21.1	324.1	65,700	141,400	32.5	359.3	52,200	131,800	40.8	378.2	38,900	121,800	290
300	11.8	287.7	60,600	120,000	27.5	341.2	47,900	125,500	36.8	365.3	35,200	115,900	300
310					21.2	317.9	43,800	119,500	32.3	350.1	31,700	110,400	310
320					12.0	281.9	39,700	113,800	27.2	331.8	28,300	105,100	320
330									20.9	308.2	25,000	100,200	330
340									11.4	270.9	21,700	95,400	340

MLC650 VPC-MAX S-3

ASME B30.5



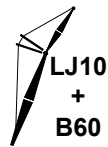
881,800 lb



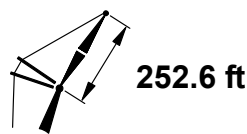
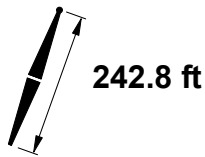
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100	74.8	495.0	159,400	159,400									100
105	73.6	493.4	159,300	159,300									105
110	72.4	491.8	159,000	159,000									110
115	71.2	490.1	158,600	158,600									115
120	70.0	488.2	158,100	158,100	72.0	490.3	158,300	158,300					120
125	68.8	486.2	157,400	157,400	70.8	488.5	158,300	158,300					125
130	67.5	484.1	156,700	156,700	69.6	486.6	158,300	158,300					130
135	66.3	481.9	155,900	155,900	68.4	484.6	158,100	158,100					135
140	65.0	479.5	155,100	155,100	67.2	482.4	157,700	157,700					140
145	63.8	477.0	154,100	154,100	65.9	480.2	157,400	157,400	69.0	483.6	154,700	154,700	145
150	62.5	474.4	153,100	153,100	64.7	477.8	156,900	156,900	67.8	481.5	154,700	154,700	150
155	61.2	471.6	151,300	151,300	63.4	475.2	156,400	156,400	66.6	479.3	154,700	154,700	155
160	59.9	468.6	147,200	147,200	62.1	472.5	155,800	155,800	65.3	477.0	154,700	154,700	160
165	58.6	465.5	143,100	143,100	60.8	469.7	155,200	155,200	64.0	474.5	154,700	154,700	165
170	57.2	462.3	139,000	139,000	59.5	466.7	154,500	154,500	62.8	471.9	154,700	154,700	170
175	55.8	458.8	135,000	135,000	58.1	463.5	153,700	153,700	61.5	469.1	154,700	154,700	175
180	54.4	455.2	130,900	130,900	56.8	460.2	150,900	150,900	60.2	466.2	154,700	154,700	180
185	53.0	451.4	126,900	126,900	55.4	456.7	146,900	146,900	58.8	463.1	154,700	154,700	185
190	51.5	447.4	123,000	123,000	54.0	453.1	142,900	142,900	57.5	459.9	154,700	154,700	190
195	50.1	443.2	119,200	119,200	52.5	449.2	138,800	138,800	56.1	456.5	151,200	154,700	195
200	48.5	438.7	115,500	115,500	51.1	445.1	134,800	134,800	54.7	452.9	145,500	154,700	200
205	47.0	434.0	111,900	111,900	49.6	440.8	130,900	130,900	53.3	449.2	140,200	154,700	205
210	45.4	429.1	108,400	108,400	48.1	436.3	127,000	127,000	51.8	445.2	135,000	154,300	210
215	43.7	423.8	105,000	105,000	46.5	431.5	123,200	123,200	50.4	441.0	130,200	152,100	215
220	42.0	418.2	101,900	101,900	44.9	426.4	119,500	119,500	48.8	436.6	125,500	148,200	220
230	38.5	406.0	96,000	96,000	41.5	415.4	112,400	112,400	45.7	427.0	116,800	140,300	230
240	34.5	391.9	90,700	90,700	37.9	402.9	105,900	105,900	42.4	416.3	108,800	132,700	240
250	30.2	375.5	86,400	86,400	33.9	388.6	100,200	100,200	38.8	404.2	101,400	125,200	250
260	25.1	355.6	83,000	83,000	29.5	371.7	95,200	95,200	35.0	390.4	94,500	118,300	260
270	18.8	329.5	81,200	81,200	24.2	351.0	91,300	91,300	30.7	374.3	88,200	112,100	270
280	8.3	284.6	81,200	81,200	17.6	323.4	89,000	89,000	25.7	354.8	82,200	106,800	280
290					4.6	267.2	80,600	80,600	19.5	329.5	76,500	102,800	290
300									10.0	288.6	70,900	93,600	300
310													310
320													320
330													330
340													340
350													350
360													360

MLC650 VPC-MAX S-3

ASME B30.5



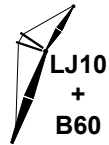
881,800 lb



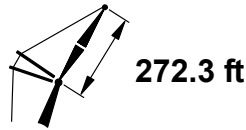
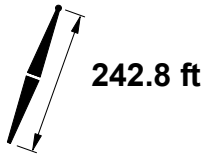
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185	64.2	470.0	140,200	145,400									185
190	62.9	467.4	134,500	145,400									190
195	61.6	464.6	129,200	145,400									195
200	60.3	461.7	124,100	145,400									200
205	59.0	458.7	119,300	145,400									205
210	57.7	455.5	114,700	145,400									210
215	56.3	452.1	110,300	145,400									215
220	54.9	448.5	106,100	145,400									220
230	52.0	440.9	98,300	145,400	57.7	448.9	80,300	135,000					230
240	49.1	432.3	91,100	145,400	54.9	442.0	73,900	135,000					240
250	45.9	422.8	84,500	145,400	52.1	434.3	68,000	135,000					250
260	42.6	412.2	78,400	145,400	49.1	425.8	62,600	135,000	54.8	433.3	47,200	123,400	260
270	39.1	400.2	72,700	145,400	46.0	416.3	57,500	135,000	51.9	425.6	42,700	123,400	270
280	35.2	386.5	67,400	145,400	42.7	405.7	52,800	135,000	49.0	417.0	38,600	123,400	280
290	31.0	370.6	62,400	139,200	39.1	393.8	48,400	128,700	45.8	407.5	34,800	118,600	290
300	26.0	351.4	57,700	132,000	35.3	380.1	44,300	122,500	42.5	396.8	31,100	112,700	300
310	20.0	326.6	53,200	120,200	31.0	364.2	40,400	116,700	39.0	384.8	27,700	107,200	310
320	10.9	287.7	48,700	101,400	26.1	345.1	36,600	111,200	35.1	371.0	24,500	102,100	320
330					20.1	320.4	33,000	106,000	30.8	355.0	21,400	97,200	330
340					11.1	282.0	29,400	101,000	25.9	335.6		92,600	340
350									19.8	310.6		88,200	350
360									10.4	270.8		84,000	360

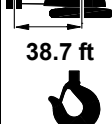
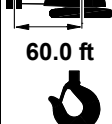
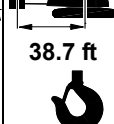
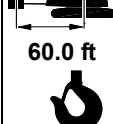
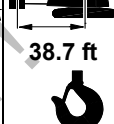
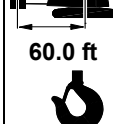
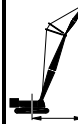
MLC650 VPC-MAX S-3

ASME B30.5



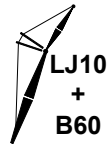
881,800 lb



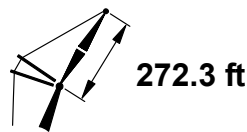
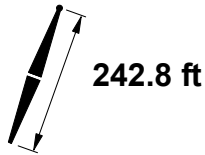
 85°					 83°				 80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105	74.8	514.0	140,000	140,000									105
110	73.7	512.5	139,800	139,800									110
115	72.6	510.9	139,500	139,500									115
120	71.5	509.2	138,800	138,800									120
125	70.4	507.4	138,300	138,300	72.3	509.4	138,500	138,500					125
130	69.3	505.4	138,000	138,000	71.2	507.6	138,500	138,500					130
135	68.1	503.4	137,400	137,400	70.0	505.8	138,400	138,400					135
140	67.0	501.2	136,500	136,500	68.9	503.8	138,300	138,300					140
145	65.8	498.9	135,800	135,800	67.8	501.7	138,000	138,000					145
150	64.7	496.5	135,000	135,000	66.6	499.5	137,700	137,700	69.5	502.8	135,200	135,200	150
155	63.5	494.0	134,200	134,200	65.5	497.2	137,300	137,300	68.4	500.8	135,200	135,200	155
160	62.3	491.3	133,400	133,400	64.3	494.8	136,800	136,800	67.2	498.6	135,200	135,200	160
165	61.1	488.5	132,500	132,500	63.1	492.2	136,300	136,300	66.1	496.4	135,200	135,200	165
170	59.9	485.6	129,100	129,100	61.9	489.5	135,800	135,800	64.9	494.0	135,200	135,200	170
175	58.6	482.5	125,700	125,700	60.7	486.6	135,200	135,200	63.7	491.5	135,200	135,200	175
180	57.4	479.3	122,300	122,300	59.5	483.6	134,600	134,600	62.5	488.8	135,200	135,200	180
185	56.1	475.9	119,000	119,000	58.2	480.5	134,000	134,000	61.3	486.1	135,200	135,200	185
190	54.8	472.3	115,600	115,600	57.0	477.2	133,100	133,100	60.1	483.2	135,200	135,200	190
195	53.5	468.6	112,300	112,300	55.7	473.8	129,800	129,800	58.9	480.1	135,200	135,200	195
200	52.2	464.6	109,100	109,100	54.4	470.2	126,400	126,400	57.6	476.9	135,200	135,200	200
205	50.8	460.5	105,900	105,900	53.1	466.4	123,100	123,100	56.4	473.5	135,200	135,200	205
210	49.4	456.2	102,700	102,700	51.7	462.4	119,800	119,800	55.1	470.0	132,700	135,100	210
215	48.0	451.7	99,700	99,700	50.4	458.2	116,500	116,500	53.8	466.3	127,800	134,800	215
220	46.5	446.9	96,800	96,800	49.0	453.8	113,300	113,300	52.4	462.4	123,200	134,500	220
230	43.5	436.6	91,100	91,100	46.1	444.3	106,900	106,900	49.7	454.0	114,600	132,100	230
240	40.3	425.0	86,000	86,000	43.0	433.8	100,900	100,900	46.8	444.8	106,600	125,600	240
250	36.8	412.1	81,400	81,400	39.8	422.1	95,300	95,300	43.8	434.6	99,300	119,200	250
260	33.1	397.3	77,300	77,300	36.3	408.9	90,200	90,200	40.6	423.2	92,500	112,900	260
270	28.9	380.0	73,800	73,800	32.5	393.7	85,600	85,600	37.2	410.4	86,300	107,000	270
280	24.0	359.0	71,300	71,300	28.2	376.0	81,800	81,800	33.5	395.8	80,400	101,500	280
290	17.8	331.5	70,000	70,000	23.1	354.2	78,700	78,700	29.3	378.8	74,900	96,500	290
300	7.4	283.1	70,000	70,000	16.7	325.1	77,100	77,100	24.5	358.3	69,700	92,300	300
310					3.0	261.2	66,100	66,100	18.5	331.7	64,700	89,300	310
320									9.1	287.9	59,800	79,000	320
330													330
340													340
350													350
360													360
370													370
380													380

MLC650 VPC-MAX S-3

ASME B30.5



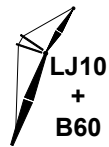
881,800 lb



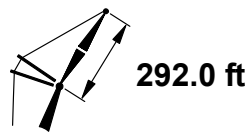
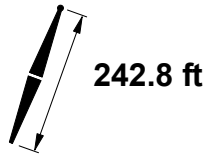
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195	63.9	487.0	126,300	127,400									195
200	62.7	484.3	121,300	127,400									200
205	61.5	481.6	116,500	127,400									205
210	60.3	478.7	111,900	127,400									210
215	59.0	475.6	107,600	127,400									215
220	57.8	472.5	103,400	127,400									220
230	55.2	465.6	95,700	127,400									230
240	52.6	458.1	88,600	127,400	57.8	465.9	71,000	118,000					240
250	49.9	449.8	82,000	127,400	55.3	459.1	65,200	118,000					250
260	47.0	440.6	76,000	127,400	52.6	451.5	59,800	118,000					260
270	44.0	430.5	70,400	127,400	49.9	443.3	54,800	118,000					270
280	40.8	419.1	65,100	127,400	47.1	434.1	50,200	118,000	52.5	442.8	35,700	109,500	280
290	37.4	406.4	60,300	127,400	44.1	424.0	45,900	118,000	49.8	434.4	31,900	109,500	290
300	33.7	392.0	55,700	127,400	40.9	412.7	41,800	118,000	46.9	425.2	28,400	109,500	300
310	29.6	375.2	51,300	122,000	37.5	400.0	38,000	114,700	43.9	415.1	25,000	105,100	310
320	24.9	354.9	47,200	113,900	33.8	385.6	34,400	109,300	40.7	403.7	21,900	100,000	320
330	19.0	328.9	43,200	103,000	29.7	368.8	31,000	104,200	37.3	391.0		95,200	330
340	10.0	287.5	39,300	86,200	25.0	348.6	27,700	99,400	33.6	376.4		90,700	340
350					19.1	322.7	24,500	94,800	29.5	359.5		86,400	350
360					10.2	281.8	21,300	90,300	24.7	339.1		82,300	360
370									18.8	312.8		78,400	370
380									9.6	270.3		74,600	380

MLC650 VPC-MAX S-3

ASME B30.5



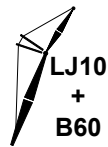
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
110	74.9	533.0	121,300	121,300									110
115	73.8	531.6	120,800	120,800									115
120	72.8	530.0	120,700	120,700									120
125	71.8	528.3	120,100	120,100									125
130	70.7	526.5	119,700	119,700	72.5	528.5	119,600	119,600					130
135	69.7	524.6	119,200	119,200	71.4	526.7	119,600	119,600					135
140	68.6	522.6	118,700	118,700	70.4	524.9	119,400	119,400					140
145	67.6	520.5	118,100	118,100	69.3	523.0	119,200	119,200					145
150	66.5	518.3	117,500	117,500	68.3	521.0	119,000	119,000					150
155	65.4	516.0	116,800	116,800	67.2	518.8	118,600	118,600	69.9	522.0	116,100	116,100	155
160	64.3	513.6	116,100	116,100	66.1	516.6	118,300	118,300	68.8	520.0	116,100	116,100	160
165	63.2	511.0	115,400	115,400	65.1	514.2	117,900	117,900	67.8	517.9	116,100	116,100	165
170	62.1	508.3	114,700	114,700	64.0	511.8	117,400	117,400	66.7	515.7	116,100	116,100	170
175	61.0	505.5	113,900	113,900	62.9	509.2	116,900	116,900	65.6	513.4	116,100	116,100	175
180	59.8	502.6	112,800	112,800	61.7	506.4	116,400	116,400	64.5	511.0	116,100	116,100	180
185	58.7	499.5	110,000	110,000	60.6	503.6	115,900	115,900	63.4	508.5	116,100	116,100	185
190	57.5	496.3	107,300	107,300	59.5	500.6	115,300	115,300	62.3	505.8	116,100	116,100	190
195	56.3	492.9	104,500	104,500	58.3	497.5	114,800	114,800	61.2	503.0	116,100	116,100	195
200	55.1	489.4	101,800	101,800	57.1	494.2	114,200	114,200	60.1	500.1	116,100	116,100	200
205	53.9	485.7	99,000	99,000	56.0	490.8	113,600	113,600	58.9	497.1	115,900	115,900	205
210	52.7	481.8	96,300	96,300	54.7	487.2	111,400	111,400	57.7	493.9	115,600	115,600	210
215	51.4	477.8	93,700	93,700	53.5	483.5	108,700	108,700	56.6	490.5	115,300	115,300	215
220	50.1	473.6	91,100	91,100	52.3	479.6	106,000	106,000	55.4	487.0	115,000	115,000	220
230	47.5	464.6	86,000	86,000	49.7	471.2	100,600	100,600	52.9	479.6	110,600	114,400	230
240	44.7	454.7	81,300	81,300	47.1	462.1	95,400	95,400	50.4	471.4	102,700	113,700	240
250	41.8	443.7	76,800	76,800	44.3	452.0	90,300	90,300	47.8	462.5	95,500	111,900	250
260	38.7	431.5	72,700	72,700	41.3	440.9	85,500	85,500	45.0	452.7	88,800	106,600	260
270	35.4	417.9	69,000	69,000	38.2	428.5	81,000	81,000	42.1	441.8	82,500	101,400	270
280	31.8	402.3	65,800	65,800	34.9	414.6	76,900	76,900	39.0	429.8	76,700	96,500	280
290	27.7	384.1	63,100	63,100	31.2	398.6	73,300	73,300	35.7	416.3	71,300	91,700	290
300	23.0	362.2	61,100	61,100	27.0	380.0	70,200	70,200	32.1	400.9	66,200	87,300	300
310	17.0	333.2	60,200	60,200	22.1	357.2	67,800	67,800	28.1	383.1	61,400	83,300	310
320	6.5	281.2	56,300	56,300	15.8	326.6	64,800	66,700	23.5	361.6	56,900	79,900	320
330									17.7	333.6	52,500	77,600	330
340									8.3	287.0	48,100	64,500	340
350													350
360													360
370													370
380													380
390													390
400													400

MLC650 VPC-MAX S-3

ASME B30.5



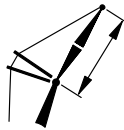
881,800 lb



360°



242.8 ft

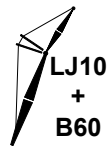


292.0 ft

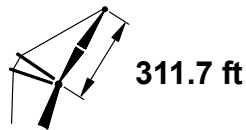
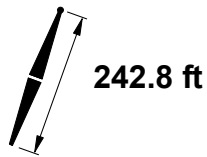
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200	64.7		506.5	108,100	108,100							200
205	63.6		503.9	108,100	108,100							205
210	62.5		501.3	107,600	108,100							210
215	61.3		498.5	103,300	108,100							215
220	60.2		495.6	99,100	108,100							220
230	57.9		489.4	91,400	108,100							230
240	55.5		482.7	84,400	108,100							240
250	53.1		475.2	77,900	108,100	57.9	482.9	60,700	99,800			250
260	50.6		467.1	71,900	108,100	55.6	476.1	55,400	99,800			260
270	47.9		458.2	66,300	108,100	53.1	468.7	50,500	99,800			270
280	45.2		448.5	61,100	108,100	50.6	460.6	45,900	99,800			280
290	42.3		437.7	56,300	108,100	48.0	451.7	41,600	99,800	53.0	459.9	91,400
300	39.3		425.7	51,800	108,100	45.2	442.0	37,600	99,800	50.5	451.8	91,400
310	36.0		412.4	47,500	108,100	42.4	431.2	33,900	99,800	47.8	442.9	91,400
320	32.4		397.1	43,500	108,100	39.3	419.3	30,300	99,800	45.1	433.1	91,400
330	28.4		379.5	39,700	103,700	36.0	405.9	27,000	99,800	42.2	422.3	91,400
340	23.8		358.3	36,100	96,800	32.5	390.8	23,800	96,300	39.1	410.3	87,400
350	18.1		330.9	32,500	86,400	28.5	373.1	20,800	91,800	35.9	396.8	83,100
360	9.2		286.9	29,000	71,300	23.9	352.0		87,500	32.3	381.6	79,200
370						18.2	324.8		83,400	28.3	363.8	75,400
380						9.4	281.3		76,700	23.6	342.5	71,700
390										17.9	314.8	68,300
400										8.8	269.5	64,800

MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.9	552.1	105,900	105,900									115
120	73.9	550.6	105,600	105,600									120
125	73.0	549.0	105,300	105,300									125
130	72.0	547.4	104,800	104,800									130
135	71.0	545.6	104,500	104,500	72.7	547.5	104,300	104,300					135
140	70.0	543.8	103,800	103,800	71.7	545.8	104,200	104,200					140
145	69.1	541.8	103,400	103,400	70.7	544.1	103,800	103,800					145
150	68.1	539.8	102,900	102,900	69.7	542.2	103,600	103,600					150
155	67.1	537.6	102,300	102,300	68.7	540.2	103,300	103,300					155
160	66.0	535.4	101,700	101,700	67.7	538.1	103,100	103,100					160
165	65.0	533.0	101,200	101,200	66.7	535.9	102,700	102,700	69.3	539.2	100,700	100,700	165
170	64.0	530.6	100,500	100,500	65.7	533.7	102,400	102,400	68.3	537.2	100,700	100,700	170
175	63.0	528.0	100,500	100,500	64.7	531.3	102,000	102,000	67.3	535.0	100,700	100,700	175
180	61.9	525.3	99,300	99,300	63.7	528.8	101,500	101,500	66.3	532.8	100,700	100,700	180
185	60.9	522.5	98,600	98,600	62.6	526.1	101,100	101,100	65.2	530.5	100,700	100,700	185
190	59.8	519.5	97,900	97,900	61.6	523.4	100,600	100,600	64.2	528.0	100,700	100,700	190
195	58.7	516.4	96,500	96,500	60.5	520.5	100,100	100,100	63.2	525.5	100,600	100,600	195
200	57.6	513.2	94,200	94,200	59.5	517.6	99,600	99,600	62.1	522.8	100,400	100,400	200
205	56.5	509.9	92,000	92,000	58.4	514.5	99,100	99,100	61.1	520.0	100,300	100,300	205
210	55.4	506.4	89,700	89,700	57.3	511.2	98,600	98,600	60.0	517.1	100,100	100,100	210
215	54.3	502.8	87,400	87,400	56.2	507.8	98,100	98,100	58.9	514.0	99,800	99,800	215
220	53.1	499.0	85,100	85,100	55.1	504.3	97,500	97,500	57.9	510.8	99,600	99,600	220
230	50.8	490.9	80,700	80,700	52.8	496.8	93,700	93,700	55.6	504.1	99,000	99,000	230
240	48.3	482.2	76,400	76,400	50.4	488.6	89,300	89,300	53.4	496.7	98,400	98,400	240
250	45.8	472.6	72,300	72,300	47.9	479.7	84,900	84,900	51.0	488.7	93,200	97,800	250
260	43.1	462.1	68,500	68,500	45.4	470.0	80,600	80,600	48.6	480.0	86,600	97,100	260
270	40.3	450.5	64,800	64,800	42.7	459.4	76,500	76,500	46.0	470.5	80,400	95,100	270
280	37.3	437.7	61,600	61,600	39.8	447.6	72,500	72,500	43.4	460.1	74,600	90,800	280
290	34.1	423.4	58,600	58,600	36.8	434.6	68,900	68,900	40.6	448.7	69,200	86,600	290
300	30.6	407.1	56,000	56,000	33.6	420.0	65,700	65,700	37.6	436.0	64,200	82,400	300
310	26.6	388.1	53,900	53,900	30.0	403.3	62,700	62,700	34.4	421.9	59,500	78,600	310
320	22.0	365.1	52,400	52,400	26.0	383.8	60,300	60,300	31.0	405.8	55,000	75,000	320
330	16.2	334.8	51,900	51,900	21.2	360.0	58,500	58,500	27.1	387.1	50,800	71,900	330
340	5.7	278.6	45,500	45,500	15.0	327.9	54,400	57,700	22.5	364.6	46,800	69,200	340
350									16.8	335.4	42,900	67,400	350
360									7.5	285.6	38,900	53,300	360
370													370
380													380
390													390
400													400
410													410
420													420

MLC650 VPC-MAX S-3

ASME B30.5



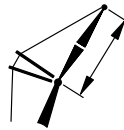
881,800 lb



360°



242.8 ft

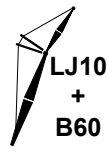


311.7 ft

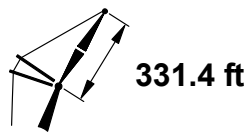
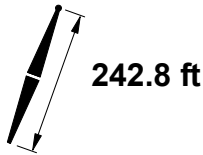
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210	64.4	523.5	93,200	93,200								210
215	63.3	520.9	93,200	93,200								215
220	62.3	518.3	93,200	93,200								220
230	60.2	512.6	88,800	93,200								230
240	58.0	506.4	81,800	93,200								240
250	55.8	499.7	75,300	93,200								250
260	53.5	492.4	69,400	93,200	58.0	499.9	52,600	85,400				260
270	51.2	484.4	63,800	93,200	55.8	493.1	47,700	85,400				270
280	48.7	475.8	58,700	93,200	53.5	485.8	43,200	85,400				280
290	46.2	466.3	53,900	93,200	51.2	477.9	39,000	85,400				290
300	43.6	456.0	49,400	93,200	48.8	469.3	35,000	85,400	53.4	477.1	77,500	300
310	40.8	444.6	45,200	93,200	46.2	459.8	31,300	85,400	51.1	469.1	77,500	310
320	37.8	432.1	41,300	93,200	43.6	449.5	27,800	85,400	48.7	460.4	77,500	320
330	34.7	418.0	37,600	93,200	40.8	438.2	24,500	85,400	46.1	451.0	77,500	330
340	31.2	402.1	34,000	93,200	37.9	425.6	21,400	85,400	43.5	440.6	77,500	340
350	27.3	383.6	30,700	89,200	34.7	411.6		85,400	40.7	429.2	77,500	350
360	22.9	361.4	27,400	83,200	31.3	395.7		85,400	37.7	416.6	77,100	360
370	17.3	332.8	24,300	73,400	27.4	377.3		81,700	34.5	402.5	73,400	370
380	8.5	286.0	21,000	59,700	22.9	355.2		77,800	31.1	386.5	69,800	380
390					17.4	326.7		74,200	27.2	367.9	66,400	390
400					8.7	280.6		64,700	22.7	345.6	63,200	400
410									17.1	316.6	60,100	410
420									8.0	268.4	56,900	420

MLC650 VPC-MAX S-3

ASME B30.5



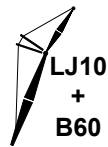
881,800 lb



	85°				83°				80°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
120	74.9	571.1	89,000	89,000									120
125	74.0	569.7	88,700	88,700									125
130	73.1	568.1	88,400	88,400									130
135	72.2	566.5	88,100	88,100									135
140	71.3	564.7	87,700	87,700	72.8	566.6	87,400	87,400					140
145	70.4	562.9	87,300	87,300	71.9	564.9	87,300	87,300					145
150	69.4	561.0	86,900	86,900	71.0	563.2	87,100	87,100					150
155	68.5	559.0	86,500	86,500	70.1	561.3	86,800	86,800					155
160	67.6	556.9	86,000	86,000	69.1	559.4	86,600	86,600					160
165	66.6	554.7	85,600	85,600	68.2	557.4	86,200	86,200					165
170	65.7	552.4	85,000	85,000	67.3	555.3	85,900	85,900	69.6	558.4	84,100	84,100	170
175	64.7	550.0	84,500	84,500	66.3	553.0	85,600	85,600	68.7	556.4	84,100	84,100	175
180	63.7	547.6	84,100	84,100	65.4	550.7	85,300	85,300	67.8	554.3	84,000	84,000	180
185	62.8	544.9	83,500	83,500	64.4	548.3	84,900	84,900	66.8	552.1	84,000	84,000	185
190	61.8	542.2	83,000	83,000	63.4	545.7	84,500	84,500	65.9	549.9	83,900	83,900	190
195	60.8	539.4	82,500	82,500	62.5	543.1	84,100	84,100	64.9	547.5	83,700	83,700	195
200	59.8	536.5	82,000	82,000	61.5	540.4	83,700	83,700	63.9	545.0	83,600	83,600	200
205	58.8	533.4	81,400	81,400	60.5	537.5	83,300	83,300	63.0	542.4	83,400	83,400	205
210	57.7	530.2	80,800	80,800	59.5	534.5	82,900	82,900	62.0	539.7	83,200	83,200	210
215	56.7	526.9	80,200	80,200	58.5	531.4	82,500	82,500	61.0	536.9	83,000	83,000	215
220	55.7	523.5	78,400	78,400	57.4	528.2	82,000	82,000	60.0	534.0	82,800	82,800	220
230	53.5	516.1	74,700	74,700	55.3	521.3	81,200	81,200	58.0	527.8	82,400	82,400	230
240	51.3	508.2	71,100	71,100	53.2	513.9	80,300	80,300	55.9	521.1	81,900	81,900	240
250	49.0	499.7	67,600	67,600	51.0	505.9	78,600	78,600	53.7	513.9	81,300	81,300	250
260	46.7	490.4	64,100	64,100	48.7	497.3	75,100	75,100	51.5	506.0	80,800	80,800	260
270	44.2	480.2	60,900	60,900	46.3	487.8	71,600	71,600	49.3	497.5	76,600	80,200	270
280	41.6	469.2	57,700	57,700	43.8	477.6	68,100	68,100	46.9	488.3	70,900	79,700	280
290	38.9	457.1	54,800	54,800	41.2	466.4	64,800	64,800	44.5	478.3	65,600	79,200	290
300	36.0	443.7	52,200	52,200	38.5	454.1	61,700	61,700	41.9	467.3	60,600	77,200	300
310	32.9	428.7	49,800	49,800	35.6	440.4	58,800	58,800	39.2	455.3	55,900	73,900	310
320	29.5	411.6	47,700	47,700	32.4	425.1	56,200	56,200	36.3	442.0	51,500	69,500	320
330	25.7	391.9	46,000	46,000	28.9	407.8	53,800	53,800	33.2	427.2	47,400	64,600	330
340	21.2	367.9	44,900	44,900	25.0	387.4	51,300	51,300	29.9	410.4	43,400	59,500	340
350	15.4	336.2	41,700	41,700	20.4	362.6	46,700	46,700	26.1	391.0	39,700	54,600	350
360	4.7	275.3	34,300	34,300	14.3	329.0	42,300	42,300	21.7	367.5	36,100	49,600	360
370									16.1	337.0	32,600	45,000	370
380									6.8	283.8	29,000	41,100	380
390													390
400													400
410													410
420													420
430													430
440													440

MLC650 VPC-MAX S-3

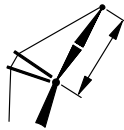
ASME B30.5



881,800 lb



242.8 ft

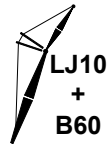


331.4 ft

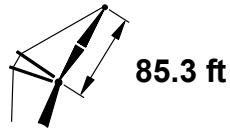
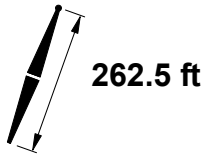
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220	64.1	540.5	77,400	77,400								220
230	62.1	535.2	77,400	77,400								230
240	60.1	529.5	77,400	77,400								240
250	58.1	523.4	71,200	77,400								250
260	56.0	516.7	65,300	77,400								260
270	53.9	509.5	59,800	77,400	58.1	516.8	43,400	70,500				270
280	51.7	501.7	54,700	77,400	56.0	510.2	38,900	70,500				280
290	49.4	493.2	50,000	77,400	53.9	503.0	34,700	70,500				290
300	47.1	484.1	45,500	77,400	51.7	495.2	30,800	70,500				300
310	44.6	474.1	41,400	77,400	49.5	486.7	27,200	70,500	53.8	494.2	63,400	310
320	42.1	463.2	37,500	77,400	47.1	477.6	23,700	70,500	51.6	486.4	63,400	320
330	39.4	451.3	33,800	77,400	44.7	467.6	20,500	70,500	49.3	477.9	63,400	330
340	36.5	438.1	30,300	72,500	42.1	456.7		70,500	47.0	468.7	63,400	340
350	33.5	423.4	27,000	67,500	39.4	444.8		70,500	44.6	458.7	63,400	350
360	30.1	406.7	23,900	62,500	36.6	431.7		70,500	42.0	447.8	63,400	360
370	26.3	387.5	20,900	57,400	33.5	417.0		69,100	39.3	435.8	63,400	370
380	22.0	364.4		52,400	30.2	400.4		64,200	36.4	422.6	63,400	380
390	16.5	334.5		47,500	26.4	381.2		59,200	33.3	407.8	63,300	390
400	7.8	284.8		43,400	22.1	358.2		54,200	30.0	391.1	60,200	400
410					16.6	328.4		49,400	26.2	371.8	57,100	410
420					8.0	279.5		45,200	21.8	348.5	54,200	420
430									16.3	318.3	50,400	430
440									7.3	267.0	46,500	440

MLC650 VPC-MAX S-3

ASME B30.5



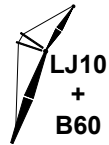
881,800 lb



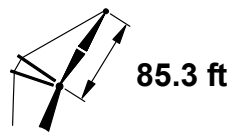
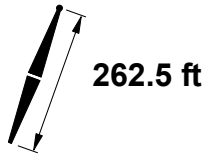
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	73.2	352.3	448,800 d	448,800 d									60
65	69.6	350.4	446,100 d	446,100 d									65
70	65.9	348.0	441,000 c	441,000 c	72.6	351.0	459,900 d	459,900 d					70
75	62.1	345.2	434,600 c	434,600 c	69.0	348.9	450,700 c	450,700 c					75
80	58.1	342.0	426,500 b	426,500 b	65.2	346.5	446,900 c	446,900 c					80
85	53.9	338.2	402,400 b	402,400 b	61.4	343.6	441,600 c	441,600 c					85
90	49.4	333.8	380,400	380,400	57.3	340.3	435,500 b	435,500 b	67.9	346.1	452,200 c	453,200 c	90
95	44.6	328.7	361,900	361,900	53.1	336.4	424,300 b	424,300 b	64.2	343.5	424,600 c	452,600 c	95
100	39.2	322.5	346,800	346,800	48.6	331.9	400,900	400,900	60.3	340.6	399,900 b	448,200 b	100
105	33.1	314.8	335,400	335,400	43.7	326.6	381,100	381,100	56.2	337.1	377,500 b	443,900 b	105
110	25.5	304.7	328,800	328,800	38.2	320.2	364,900	364,900	51.9	333.0	357,200 b	438,900 b	110
115	13.8	288.1	326,000	326,000	31.9	312.2	352,700	352,700	47.2	328.3	338,700	431,300	115
120					23.9	301.4	340,500	345,400	42.2	322.7	321,800	409,600	120
125					10.0	281.4	313,200	313,200	36.5	315.9	306,100	391,900	125
130									29.9	307.3	291,500	378,300	130
135									21.1	295.3	277,700	370,200	135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200

MLC650 VPC-MAX S-3

ASME B30.5



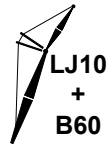
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	62.1	336.8	289,400 b	449,400 b									120
125	58.1	333.5	275,400 b	435,300 b									125
130	53.9	329.8	262,500 b	415,900 b									130
135	49.4	325.4	250,500 b	398,100 b									135
140	44.6	320.2	239,300	381,500									140
145	39.3	314.0	228,800	366,200	59.6	327.6	203,200 b	346,700 b					145
150	33.2	306.4	218,900	351,900	55.4	324.0	194,500 b	333,200 b					150
155	25.6	296.3	209,500	338,400	51.1	319.9	186,400 b	320,600 b					155
160	14.0	279.8	200,200	325,600	46.4	315.0	178,700	308,700					160
165					41.3	309.2	171,400	297,600					165
170					35.5	302.2	164,500	287,200					170
175					28.6	293.2	157,800	277,300	52.1	311.8	138,000	262,200	175
180					19.2	280.1	151,200	267,800	47.5	307.1	132,600	253,400	180
185									42.4	301.5	127,400	245,200	185
190									36.8	294.8	122,400	237,300	190
195									30.2	286.4	117,500	229,800	195
200									21.6	274.5	112,700	222,500	200

MLC650 VPC-MAX S-3

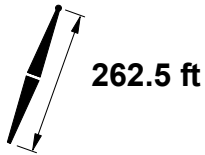
ASME B30.5



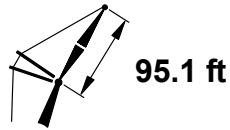
881,800 lb



360°



262.5 ft



95.1 ft

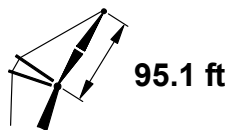
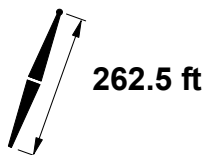
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	71.8	361.0	417,200 c	417,200 c									65
70	68.6	358.9	413,600 c	413,600 c									70
75	65.2	356.5	408,500 c	408,500 c									75
80	61.8	353.7	402,600 b	402,600 b	71.3	359.6	421,000 c	421,000 c					80
85	58.2	350.5	395,100 b	395,100 b	68.0	357.4	419,000 c	419,000 c					85
					64.6	355.0	415,000 b	415,000 b					
90	54.5	346.8	373,600	373,600	61.2	352.1	410,000 b	410,000 b					90
95	50.5	342.6	354,000	354,000	57.6	348.8	404,400 b	404,400 b	67.1	354.6	421,500 b	421,600 b	95
100	46.3	337.7	337,300	337,300	53.8	345.1	396,000	396,000	63.7	352.0	396,800 b	420,200 b	100
105	41.8	332.1	323,100	323,100	49.8	340.7	375,000	375,000	60.2	349.0	374,600 b	417,100 b	105
110	36.8	325.3	311,900	311,900	45.6	335.7	356,900	356,900	56.5	345.6	354,500 b	413,200 b	110
115	30.9	317.1	303,700	303,700	41.0	329.9	341,700	341,700	52.7	341.7	336,100	408,800	115
120	23.7	306.2	299,600	299,600	35.8	322.9	329,400	329,400	48.7	337.2	319,300	404,400	120
125	12.4	288.0	295,400	295,400	29.8	314.3	320,500	320,500	44.3	332.0	303,800	386,300	125
130					22.2	302.7	306,900	315,900	39.6	325.9	289,400	369,500	130
135					8.4	280.4	283,100	283,100	34.2	318.5	276,100	355,800	135
140									27.9	309.3	263,600	345,700	140
145									19.5	296.3	251,700	340,400	145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210

MLC650 VPC-MAX S-3

ASME B30.5



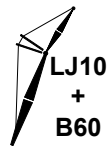
881,800 lb



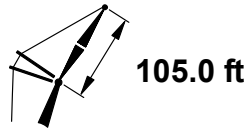
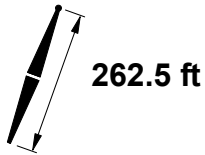
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	61.8	345.2	272,100 b	418,300 b									125
130	58.3	342.0	259,300 b	413,100 b									130
135	54.5	338.4	247,400 b	395,300 b									135
140	50.6	334.1	236,300	378,900									140
145	46.4	329.3	226,000	363,600									145
150	41.9	323.6	216,400	349,500	59.6	336.1	191,100	330,300					150
155	36.8	316.9	207,300	336,200	55.9	332.6	183,000	317,700					155
160	31.0	308.7	198,600	323,800	52.0	328.6	175,500	306,000					160
165	23.8	297.8	190,400	312,000	47.9	324.0	168,300	295,000					165
170	12.6	279.8	182,100	300,800	43.5	318.6	161,600	284,700					170
175					38.7	312.3	155,200	275,000					175
180					33.2	304.7	149,000	265,700	52.9	320.5	129,200	250,700	180
185					26.6	295.0	143,100	257,000	48.9	316.0	124,100	242,500	185
190					17.6	280.8	137,200	248,500	44.5	310.8	119,300	234,700	190
195									39.8	304.7	114,600	227,300	195
200									34.5	297.5	110,200	220,300	200
205									28.2	288.3	105,800	213,600	205
210									20.0	275.6	101,400	207,000	210

MLC650 VPC-MAX S-3

ASME B30.5



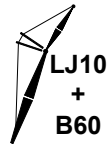
881,800 lb



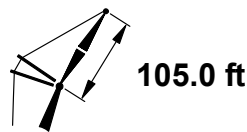
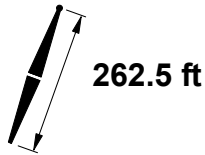
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	73.6	371.4	390,300 c	390,300 c									65
70	70.7	369.6	388,300 c	388,300 c									70
75	67.7	367.4	384,500 c	384,500 c									75
80	64.7	365.0	379,700 b	379,700 b	70.2	368.2	392,500 c	392,500 c					80
85	61.6	362.2	373,500 b	373,500 b	67.2	366.0	390,000 b	390,000 b					85
90	58.3	359.0	368,400	368,400	64.2	363.4	386,300 b	386,300 b					90
95	55.0	355.4	348,800	348,800	61.0	360.6	381,800 b	381,800 b	69.4	365.4	393,000 b	393,000 b	95
100	51.5	351.3	331,300	331,300	57.8	357.3	376,900	376,900	66.4	363.1	393,000 b	393,000 b	100
105	47.7	346.7	316,100	316,100	54.4	353.6	370,900	370,900	63.3	360.5	373,000 b	392,300 b	105
110	43.8	341.4	303,000	303,000	50.8	349.5	352,500	352,500	60.1	357.5	352,900 b	389,200 b	110
115	39.5	335.2	292,100	292,100	47.1	344.7	335,900	335,900	56.8	354.1	334,700	385,700	115
120	34.7	328.0	283,500	283,500	43.0	339.3	321,700	321,700	53.4	350.3	317,900	381,900	120
125	29.1	319.2	277,600	277,600	38.6	333.0	309,900	309,900	49.8	346.0	302,600	377,800	125
130	22.2	307.5	275,400	275,400	33.7	325.5	300,400	300,400	46.0	341.1	288,400	366,100	130
135	11.1	287.8	269,700	269,700	28.0	316.3	292,700	293,900	41.8	335.4	275,200	350,200	135
140					20.7	303.9	279,300	291,300	37.3	328.8	262,900	336,800	140
145					6.8	279.0	257,200	257,200	32.2	320.9	251,500	326,200	145
150									26.2	311.0	240,700	318,500	150
155									18.1	297.1	230,300	315,300	155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220

MLC650 VPC-MAX S-3

ASME B30.5



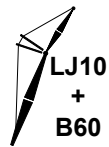
881,800 lb



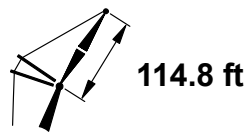
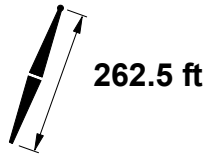
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	64.7	356.5	270,200 b	386,300 b									125
130	61.6	353.7	257,500	386,300									130
135	58.4	350.5	245,700	386,300									135
140	55.0	346.9	234,700	377,200									140
145	51.5	342.9	224,500	362,100									145
150	47.8	338.2	215,000	348,000									150
155	43.8	332.9	206,000	334,800	59.6	344.5	181,100	316,000					155
160	39.5	326.8	197,600	322,500	56.2	341.1	173,600	304,300					160
165	34.7	319.6	189,600	310,900	52.8	337.2	166,600	293,400					165
170	29.2	310.8	182,000	300,000	49.1	332.8	160,000	283,200					170
175	22.3	299.2	174,700	289,700	45.3	327.8	153,700	273,500					175
180	11.3	279.6	167,300	279,800	41.1	322.0	147,700	264,400					180
185					36.5	315.2	142,000	255,800	53.6	329.1	122,200	240,900	185
190					31.3	307.0	136,500	247,600	50.0	324.8	117,500	233,200	190
195					25.0	296.6	131,200	239,800	46.1	319.9	113,000	225,900	195
200					16.3	281.4	125,900	232,200	42.0	314.3	108,700	218,900	200
205									37.6	307.7	104,500	212,300	205
210									32.5	299.9	100,500	206,000	210
215									26.5	290.1	96,500	199,900	215
220									18.6	276.5	92,600	194,000	220

MLC650 VPC-MAX S-3

ASME B30.5



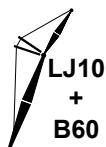
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	72.4	380.1	362,400 c	362,400 c									70
75	69.8	378.2	360,000 b	360,000 b									75
80	67.0	376.0	356,400 b	356,400 b	72.0	378.7	365,300 b	365,300 b					80
85	64.2	373.5	352,100 b	352,100 b	69.3	376.7	364,400 b	364,400 b					85
90	61.4	370.6	347,200	347,200	66.6	374.5	362,100 b	362,100 b					90
95	58.4	367.5	341,100	341,100	63.8	371.9	358,700 b	358,700 b					95
100	55.4	363.9	327,300	327,300	60.9	369.0	354,800	354,800	68.5	373.9	365,500 b	365,500 b	100
105	52.2	360.0	311,400	311,400	57.9	365.8	350,400	350,400	65.8	371.6	365,500 b	365,500 b	105
110	48.9	355.5	297,500	297,500	54.8	362.2	345,200	345,200	63.0	368.9	349,900	364,500	110
115	45.3	350.5	285,300	285,300	51.6	358.2	332,700	332,700	60.1	366.0	331,700	362,000	115
120	41.5	344.8	275,000	275,000	48.3	353.6	317,500	317,500	57.1	362.6	315,100	359,100	120
125	37.4	338.2	266,400	266,400	44.7	348.5	304,200	304,200	53.9	358.9	299,800	355,800	125
130	32.8	330.5	259,800	259,800	40.8	342.6	292,900	292,900	50.7	354.7	285,700	352,300	130
135	27.5	321.1	254,300	254,300	36.7	335.9	283,500	283,500	47.3	350.0	272,600	348,000	135
140	20.9	308.7	250,700	250,700	32.0	327.9	276,100	276,100	43.6	344.7	260,500	333,100	140
145	9.9	287.3	244,400	244,400	26.5	318.1	265,600	269,600	39.7	338.6	249,200	320,200	145
150					19.4	304.9	254,100	265,600	35.4	331.6	238,600	309,500	150
155					5.1	276.7	230,600	230,600	30.5	323.2	228,600	300,500	155
160									24.7	312.7	219,100	292,500	160
165									16.9	297.8	210,000	288,200	165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230

MLC650 VPC-MAX S-3

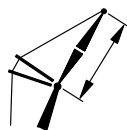
ASME B30.5



881,800 lb



262.5 ft

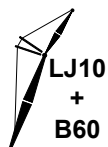


114.8 ft

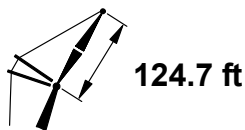
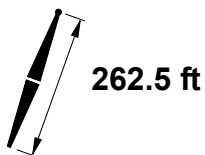
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	64.3	365.0	254,100	358,900									130
135	61.4	362.2	242,400	358,900									135
140	58.5	359.0	231,500	358,900									140
145	55.4	355.5	221,400	358,900									145
150	52.2	351.5	211,900	345,300									150
155	48.9	347.1	203,100	332,200									155
160	45.4	342.1	194,800	320,000	59.5	353.0	170,200	301,500					160
165	41.6	336.4	186,900	308,500	56.5	349.6	163,200	290,600					165
170	37.5	329.8	179,500	297,700	53.4	345.8	156,700	280,400					170
175	32.9	322.1	172,400	287,500	50.1	341.6	150,500	270,900					175
180	27.6	312.7	165,700	277,900	46.7	336.8	144,600	261,800					180
185	20.9	300.3	159,200	268,800	43.0	331.3	139,000	253,300					185
190	10.1	279.2	152,500	259,900	39.0	325.1	133,700	245,200	54.1	337.7	114,000	230,400	190
195					34.6	317.9	128,600	237,500	50.9	333.5	109,600	223,100	195
200					29.6	309.2	123,700	230,100	47.4	328.8	105,400	216,300	200
205					23.6	298.1	118,900	223,100	43.8	323.5	101,300	209,700	205
210					15.1	281.9	114,100	216,300	39.9	317.5	97,400	203,500	210
215									35.6	310.5	93,700	197,500	215
220									30.8	302.2	90,000	191,800	220
230									17.3	277.2	82,800	181,000	230

MLC650 VPC-MAX S-3

ASME B30.5



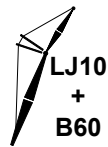
881,800 lb



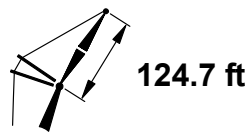
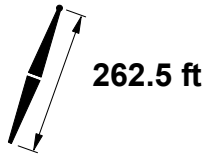
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.9	390.5	340,700 c	340,700 c									70
75	71.4	388.7	339,400 b	339,400 b									75
80	69.0	386.7	336,800 b	336,800 b									80
85	66.4	384.5	333,400 b	333,400 b	71.0	387.3	342,600 b	342,600 b					85
90	63.9	381.9	329,500 b	329,500 b	68.5	385.3	341,400 b	341,400 b					90
95	61.2	379.1	325,200	325,200	66.0	383.0	339,200 b	339,200 b					95
100	58.5	376.0	319,500	319,500	63.4	380.4	336,100	336,100					100
105	55.7	372.5	308,400	308,400	60.8	377.5	332,600	332,600	67.8	382.5	342,900 b	342,900 b	105
110	52.8	368.6	294,100	294,100	58.0	374.3	328,900	328,900	65.3	380.1	342,800	342,800	110
115	49.8	364.3	281,400	281,400	55.2	370.8	325,000	325,000	62.7	377.4	331,800	341,800	115
120	46.6	359.5	270,200	270,200	52.3	366.8	314,000	314,000	60.0	374.4	315,300	339,800	120
125	43.2	354.1	260,500	260,500	49.2	362.4	301,300	301,300	57.3	371.1	300,000	337,300	125
130	39.6	348.0	251,000	251,000	46.0	357.5	289,200	289,200	54.4	367.5	286,000	334,400	130
135	35.7	341.0	242,200	242,200	42.6	352.0	277,800	277,800	51.4	363.4	273,000	331,400	135
140	31.3	332.8	234,900	234,900	38.9	345.8	267,300	267,300	48.3	358.9	260,900	326,400	140
145	26.1	322.9	229,500	229,500	34.9	338.6	257,900	257,900	45.1	353.8	249,700	314,200	145
150	19.7	309.8	227,000	227,000	30.4	330.2	250,000	250,000	41.6	348.1	239,200	302,500	150
155	8.8	286.6	225,200	225,200	25.1	319.8	244,100	244,100	37.8	341.7	229,400	291,500	155
160					18.3	305.8	234,700	241,200	33.7	334.2	220,100	281,500	160
165									29.0	325.3	211,300	272,900	165
170									23.4	314.2	203,000	266,300	170
175									15.8	298.4	194,900	263,000	175
180													180
185													185
190													190
195													195
200													200
205													205
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215													215
220													220
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240													240

MLC650 VPC-MAX S-3

ASME B30.5



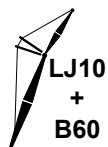
881,800 lb



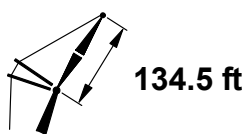
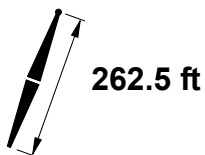
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	63.9	373.5	242,400	336,100									135
140	61.3	370.6	231,600	336,100									140
145	58.6	367.5	221,500	336,100									145
150	55.8	364.0	212,100	336,100									150
155	52.8	360.1	203,300	332,000									155
160	49.8	355.8	195,000	319,800									160
165	46.6	351.0	187,300	308,400	59.5	361.5	163,300	290,400					165
170	43.3	345.7	179,900	297,700	56.8	358.1	156,800	280,200					170
175	39.6	339.6	173,000	287,600	53.9	354.4	150,600	270,700					175
180	35.7	332.6	166,400	278,000	50.9	350.3	144,800	261,700					180
185	31.3	324.4	160,100	269,000	47.8	345.7	139,300	253,200					185
190	26.2	314.5	154,100	260,500	44.5	340.5	134,000	245,100					190
195	19.8	301.4	148,200	252,300	41.0	334.7	129,000	237,500	54.5	346.2	109,700	223,000	195
200	9.0	278.6	142,200	244,400	37.2	328.1	124,200	230,300	51.6	342.2	105,500	216,200	200
205					33.0	320.4	119,600	223,400	48.5	337.7	101,500	209,700	205
210					28.1	311.2	115,200	216,800	45.2	332.6	97,700	203,500	210
215					22.3	299.5	110,900	210,400	41.8	327.0	94,000	197,600	215
220					14.0	282.2	106,500	204,300	38.0	320.6	90,500	191,900	220
230									29.3	304.3	83,700	181,300	230
240									16.2	277.9	77,100	171,400	240

MLC650 VPC-MAX S-3

ASME B30.5



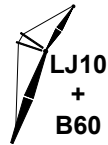
881,800 lb



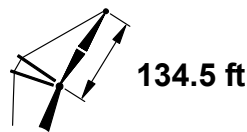
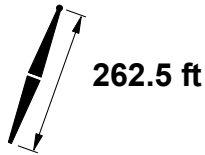
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	72.9	399.2	318,300 b	318,300 b									75
80	70.6	397.4	316,700 b	316,700 b									80
85	68.3	395.3	314,200 b	314,200 b	72.5	397.8	320,400 b	320,400 b					85
90	65.9	393.0	311,000	311,000	70.2	395.9	320,100 b	320,100 b					90
95	63.6	390.4	307,400	307,400	67.9	393.8	318,800	318,800					95
100	61.1	387.6	303,500	303,500	65.5	391.5	316,700	316,700					100
105	58.6	384.5	298,200	298,200	63.1	388.9	314,000	314,000	69.5	393.2	319,600	319,600	105
110	56.0	381.0	286,200	286,200	60.7	386.0	310,900	310,900	67.2	391.0	319,600	319,600	110
115	53.3	377.2	274,400	274,400	58.1	382.8	307,000	307,000	64.9	388.6	319,600	319,600	115
120	50.6	373.0	263,100	263,100	55.5	379.3	303,500	303,500	62.4	385.9	312,300	319,500	120
125	47.7	368.4	252,400	252,400	52.9	375.4	291,800	291,800	60.0	382.9	297,100	317,800	125
130	44.6	363.3	242,300	242,300	50.1	371.2	280,300	280,300	57.4	379.6	283,100	315,700	130
135	41.4	357.5	233,000	233,000	47.1	366.5	269,300	269,300	54.8	376.0	270,200	313,200	135
140	37.9	351.1	224,600	224,600	44.1	361.2	258,900	258,900	52.1	372.1	258,200	310,600	140
145	34.1	343.7	217,300	217,300	40.8	355.4	249,100	249,100	49.2	367.7	247,100	305,100	145
150	29.8	335.1	211,300	211,300	37.2	348.8	240,200	240,200	46.3	362.8	236,600	294,000	150
155	24.9	324.6	207,000	207,000	33.4	341.2	232,200	232,200	43.2	357.4	226,900	283,200	155
160	18.6	310.7	205,300	205,300	29.0	332.3	225,700	225,700	39.8	351.4	217,700	273,000	160
165	7.7	285.7	205,300	205,300	23.9	321.4	220,800	220,800	36.2	344.5	209,100	263,500	165
170					17.3	306.6	214,800	218,800	32.2	336.6	200,900	254,900	170
175									27.7	327.3	193,200	247,600	175
180									22.3	315.5	185,700	242,100	180
185									14.8	298.8	178,500	239,700	185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240
250													250

MLC650 VPC-MAX S-3

ASME B30.5



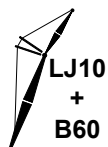
881,800 lb



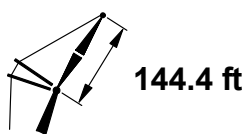
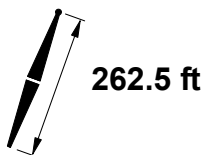
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	63.6	381.9	228,300	313,600									140
145	61.1	379.1	218,300	313,600									145
150	58.6	376.0	208,900	313,600									150
155	56.0	372.5	200,200	313,600									155
160	53.4	368.7	192,000	313,600									160
165	50.6	364.6	184,300	305,900									165
170	47.7	359.9	177,100	295,200	59.5	370.0	153,400	277,400					170
175	44.6	354.8	170,200	285,200	57.0	366.7	147,300	268,000					175
180	41.4	349.1	163,700	275,700	54.3	363.0	141,500	259,000					180
185	37.9	342.6	157,500	266,700	51.6	358.9	136,100	250,600					185
190	34.1	335.3	151,600	258,300	48.7	354.5	130,900	242,600					190
195	29.9	326.6	146,000	250,200	45.8	349.6	126,000	235,000					195
200	25.0	316.2	140,600	242,600	42.6	344.1	121,300	227,800	54.9	354.8	102,000	213,400	200
205	18.7	302.4	135,300	235,200	39.2	337.9	116,800	221,000	52.2	350.8	98,100	207,000	205
210	8.0	277.7	129,800	228,000	35.5	330.9	112,500	214,500	49.4	346.5	94,400	200,800	210
215					31.5	322.8	108,300	208,200	46.4	341.6	90,800	195,000	215
220					26.8	313.1	104,300	202,300	43.3	336.3	87,300	189,400	220
230					13.1	282.4	96,300	190,900	36.4	323.4	80,800	178,900	230
240									27.9	306.3	74,600	169,300	240
250									15.3	278.4	68,600	160,200	250

MLC650 VPC-MAX S-3

ASME B30.5



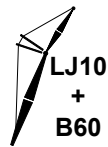
881,800 lb



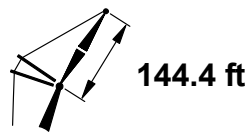
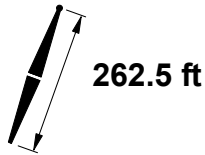
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	74.1	409.6	298,600 b	298,600 b									75
80	72.0	407.9	297,800 b	297,800 b									80
85	69.9	406.0	296,000	296,000									85
90	67.7	403.8	293,600	293,600	71.6	406.5	300,100	300,100					90
95	65.5	401.5	290,800	290,800	69.5	404.5	299,600	299,600					95
100	63.3	398.9	287,500	287,500	67.3	402.4	298,300	298,300					100
105	61.0	396.1	284,100	284,100	65.1	400.0	296,400	296,400					105
110	58.7	392.9	276,500	276,500	62.9	397.3	294,000	294,000	68.9	401.7	299,300	299,300	110
115	56.3	389.5	265,700	265,700	60.6	394.5	290,900	290,900	66.7	399.5	299,300	299,300	115
120	53.8	385.8	255,100	255,100	58.2	391.3	287,800	287,800	64.5	397.1	299,300	299,300	120
125	51.2	381.7	244,900	244,900	55.8	387.8	282,700	282,700	62.2	394.4	295,200	299,100	125
130	48.6	377.2	235,100	235,100	53.3	384.0	272,100	272,100	59.9	391.4	281,200	297,800	130
135	45.8	372.3	225,900	225,900	50.8	379.9	261,700	261,700	57.6	388.1	268,300	296,000	135
140	42.8	366.8	217,200	217,200	48.1	375.3	251,700	251,700	55.1	384.6	256,400	293,900	140
145	39.7	360.8	209,300	209,300	45.3	370.3	242,000	242,000	52.6	380.7	245,300	291,700	145
150	36.4	354.0	202,300	202,300	42.3	364.8	232,900	232,900	50.0	376.4	234,900	286,000	150
155	32.7	346.2	196,100	196,100	39.1	358.6	224,500	224,500	47.3	371.8	225,200	275,900	155
160	28.6	337.1	191,100	191,100	35.7	351.6	216,900	216,900	44.4	366.6	216,100	266,000	160
165	23.8	326.1	187,700	187,700	32.0	343.6	210,200	210,200	41.4	360.9	207,500	256,500	165
170	17.7	311.6	186,600	186,600	27.8	334.3	204,700	204,700	38.2	354.5	199,400	247,600	170
175	6.7	284.4	186,600	186,600	22.8	322.8	200,800	200,800	34.7	347.3	191,800	239,300	175
180					16.4	307.3	197,800	199,400	30.9	339.0	184,600	231,900	180
185									26.5	329.1	177,600	225,700	185
190									21.2	316.8	171,000	221,100	190
195									13.9	299.2	164,500	219,400	195
200													200
205													205
210													210
215													215
220													220
230													230
240													240
250													250
260													260

MLC650 VPC-MAX S-3

ASME B30.5



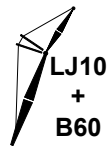
881,800 lb



	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	63.3	390.4	216,100	293,000									145
150	61.0	387.6	206,800	293,000									150
155	58.7	384.5	198,100	293,000									155
160	56.3	381.1	190,000	293,000									160
165	53.8	377.3	182,300	293,000									165
170	51.2	373.2	175,100	293,000									170
175	48.6	368.8	168,300	283,500	59.5	378.5	145,100	266,100					175
180	45.8	363.8	161,900	274,000	57.2	375.2	139,400	257,200					180
185	42.9	358.4	155,800	265,100	54.7	371.5	134,000	248,800					185
190	39.7	352.3	150,000	256,700	52.2	367.6	128,800	240,800					190
195	36.4	345.5	144,400	248,700	49.6	363.3	124,000	233,300					195
200	32.7	337.8	139,100	241,100	46.8	358.5	119,300	226,100					200
205	28.6	328.7	134,100	233,900	43.9	353.3	114,900	219,300					205
210	23.8	317.7	129,200	227,000	40.9	347.4	110,600	212,800	52.7	359.4	92,200	199,000	210
215	17.8	303.3	124,400	220,300	37.6	340.9	106,600	206,700	50.1	355.2	88,700	193,200	215
220	7.0	276.5	119,300	213,800	34.1	333.5	102,700	200,800	47.4	350.5	85,200	187,700	220
230					25.7	314.8	95,200	189,700	41.6	339.7	78,800	177,300	230
240					12.2	282.5	87,900	179,300	34.9	326.2	72,900	167,800	240
250									26.7	308.2	67,200	159,000	250
260									14.4	278.8	61,600	150,600	260

MLC650 VPC-MAX S-3

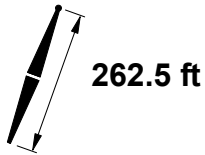
ASME B30.5



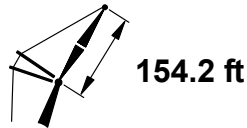
881,800 lb



360°



262.5 ft

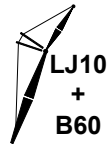


154.2 ft

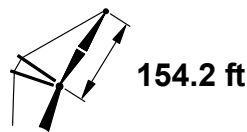
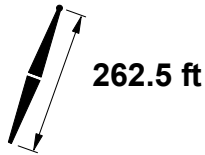
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	73.2	418.3	278,100 b	278,100 b									80
85	71.2	416.5	277,200	277,200									85
90	69.2	414.5	275,500	275,500	72.8	416.9	279,400	279,400					90
95	67.2	412.4	273,400	273,400	70.9	415.1	279,400	279,400					95
100	65.1	410.0	270,800	270,800	68.9	413.1	279,000	279,000					100
105	63.0	407.4	268,000	268,000	66.8	410.9	277,800	277,800					105
110	60.9	404.5	264,400	264,400	64.8	408.5	276,100	276,100					110
115	58.7	401.4	257,000	257,000	62.7	405.8	274,100	274,100	68.3	410.3	278,900	278,900	115
120	56.5	398.0	247,300	247,300	60.5	402.9	271,500	271,500	66.2	408.0	278,900	278,900	120
125	54.2	394.4	237,800	237,800	58.3	399.8	269,300	269,300	64.2	405.6	278,900	278,900	125
130	51.8	390.4	228,500	228,500	56.1	396.3	263,800	263,800	62.1	402.8	278,300	278,800	130
135	49.3	386.0	219,600	219,600	53.7	392.6	254,200	254,200	59.9	399.9	265,500	277,700	135
140	46.8	381.2	211,200	211,200	51.4	388.6	244,900	244,900	57.7	396.6	253,600	276,300	140
145	44.1	376.0	203,200	203,200	48.9	384.1	235,700	235,700	55.4	393.1	242,500	274,600	145
150	41.2	370.3	195,800	195,800	46.3	379.3	227,000	227,000	53.1	389.3	232,200	272,800	150
155	38.2	363.9	189,100	189,100	43.6	374.0	218,600	218,600	50.7	385.1	222,500	268,400	155
160	35.0	356.7	183,100	183,100	40.7	368.1	210,800	210,800	48.2	380.6	213,500	259,300	160
165	31.4	348.6	177,900	177,900	37.7	361.6	203,500	203,500	45.5	375.6	205,000	250,300	165
170	27.5	339.1	173,800	173,800	34.4	354.3	197,000	197,000	42.8	370.2	197,000	241,600	170
175	22.8	327.6	171,100	171,100	30.8	346.0	191,300	191,300	39.9	364.2	189,400	233,300	175
180	16.8	312.3	170,500	170,500	26.7	336.2	186,700	186,700	36.8	357.4	182,200	225,500	180
185	5.7	282.7	170,300	170,300	21.9	324.2	183,500	183,500	33.4	349.9	175,400	218,300	185
190					15.5	307.9	181,600	182,600	29.7	341.2	168,900	211,900	190
195									25.4	330.9	162,700	206,600	195
200									20.3	318.0	156,700	202,800	200
205									13.1	299.4	150,800	201,600	205
210													210
215													215
220													220
230													230
240													240
250													250
260													260
270													270

MLC650 VPC-MAX S-3

ASME B30.5



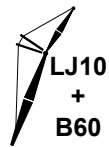
881,800 lb



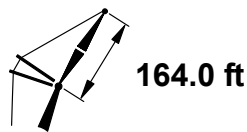
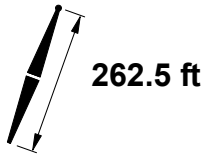
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	63.1	398.9	203,600	272,700									150
155	60.9	396.1	195,000	272,700									155
160	58.7	393.0	186,900	272,700									160
165	56.5	389.6	179,300	272,700									165
170	54.2	385.9	172,100	272,700									170
175	51.8	381.9	165,400	272,700									175
180	49.3	377.5	159,000	271,600	59.5	386.9	136,000	254,500					180
185	46.8	372.8	152,900	262,700	57.3	383.7	130,700	246,100					185
190	44.1	367.6	147,200	254,300	55.0	380.1	125,600	238,200					190
195	41.3	361.8	141,700	246,400	52.7	376.2	120,800	230,700					195
200	38.3	355.4	136,500	238,900	50.2	372.0	116,200	223,600					200
205	35.0	348.3	131,500	231,700	47.7	367.4	111,800	216,800					205
210	31.5	340.2	126,800	224,900	45.1	362.3	107,600	210,400					210
215	27.5	330.7	122,200	218,300	42.3	356.8	103,600	204,300	53.2	368.0	85,300	190,600	215
220	22.8	319.2	117,700	212,100	39.4	350.7	99,800	198,400	50.8	363.9	81,900	185,100	220
230	5.9	275.0	108,600	200,100	32.8	336.1	92,500	187,500	45.7	354.4	75,700	174,800	230
240					24.6	316.5	85,700	177,400	40.0	343.0	69,800	165,300	240
250					11.4	282.4	79,000	167,900	33.6	328.8	64,400	156,600	250
260									25.6	310.0	59,200	148,500	260
270									13.6	279.1	54,000	140,800	270

MLC650 VPC-MAX S-3

ASME B30.5



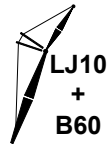
881,800 lb



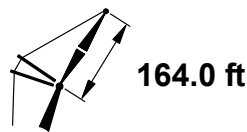
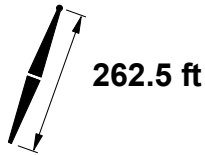
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	74.2	428.6	261,300	261,300									80
85	72.4	427.0	260,900	260,900									85
90	70.5	425.1	259,800	259,800									90
95	68.6	423.1	258,200	258,200	72.1	425.6	262,200	262,200					95
100	66.7	420.9	256,200	256,200	70.2	423.7	262,200	262,200					100
105	64.8	418.5	253,800	253,800	68.3	421.7	261,600	261,600					105
110	62.8	415.9	250,800	250,800	66.4	419.4	260,500	260,500					110
115	60.8	413.0	247,900	247,900	64.4	417.0	258,900	258,900	69.7	421.0	260,300	260,300	115
120	58.8	409.9	239,600	239,600	62.5	414.3	257,100	257,100	67.8	418.9	260,300	260,300	120
125	56.7	406.6	230,800	230,800	60.5	411.4	255,100	255,100	65.8	416.6	260,300	260,300	125
130	54.5	402.9	222,100	222,100	58.4	408.3	252,500	252,500	63.9	414.0	260,300	260,300	130
135	52.3	399.0	213,700	213,700	56.3	404.9	246,800	246,800	61.9	411.3	260,300	260,300	135
140	50.0	394.7	205,500	205,500	54.1	401.2	238,100	238,100	59.9	408.3	252,800	260,300	140
145	47.6	390.1	197,700	197,700	51.9	397.2	229,500	229,500	57.8	405.1	241,800	259,300	145
150	45.1	385.1	190,300	190,300	49.6	392.9	221,200	221,200	55.7	401.7	231,500	257,800	150
155	42.5	379.6	183,400	183,400	47.2	388.2	213,100	213,100	53.5	397.9	221,800	256,200	155
160	39.8	373.5	177,000	177,000	44.7	383.1	205,300	205,300	51.2	393.8	212,800	252,500	160
165	36.9	366.9	171,200	171,200	42.1	377.5	198,000	198,000	48.9	389.4	204,400	244,100	165
170	33.7	359.4	166,100	166,100	39.3	371.3	191,100	191,100	46.5	384.6	196,400	235,900	170
175	30.3	350.9	161,700	161,700	36.3	364.5	184,800	184,800	44.0	379.4	188,900	227,800	175
180	26.4	341.0	158,100	158,100	33.2	356.9	179,100	179,100	41.3	373.6	181,800	220,000	180
185	21.9	329.0	155,900	155,900	29.6	348.2	174,200	174,200	38.5	367.3	175,000	212,600	185
190	16.0	313.0	155,600	155,600	25.7	338.0	170,300	170,300	35.5	360.3	168,600	205,700	190
195	4.5	280.4	155,600	155,600	21.0	325.5	167,600	167,600	32.2	352.4	162,500	199,400	195
200					14.7	308.4	167,000	167,000	28.6	343.3	156,700	193,800	200
205									24.4	332.5	151,100	189,100	205
210									19.4	319.1	145,600	185,900	210
215									12.4	299.6	140,300	185,000	215
220													220
230													230
240													240
250													250
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270													270
280													280

MLC650 VPC-MAX S-3

ASME B30.5



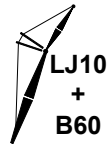
881,800 lb



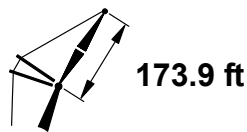
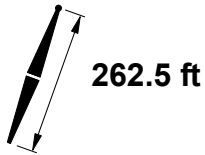
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	64.8	410.0	202,600	252,100									150
155	62.8	407.4	194,000	252,100									155
160	60.8	404.5	185,900	252,100									160
165	58.8	401.4	178,400	252,100									165
170	56.7	398.1	171,200	252,100									170
175	54.5	394.5	164,500	252,100									175
180	52.3	390.5	158,200	252,100									180
185	50.0	386.3	152,100	252,100	59.5	395.4	129,600	240,700					185
190	47.6	381.7	146,400	252,100	57.4	392.2	124,600	237,200					190
195	45.2	376.6	141,000	245,600	55.3	388.6	119,800	229,800					195
200	42.6	371.1	135,900	238,100	53.1	384.8	115,200	222,700					200
205	39.8	365.1	130,900	231,000	50.8	380.7	110,900	216,000					205
210	36.9	358.4	126,200	224,200	48.5	376.2	106,800	209,600					210
215	33.8	350.9	121,700	217,700	46.1	371.3	102,800	203,500					215
220	30.3	342.5	117,400	211,500	43.5	366.0	99,000	197,600	53.6	376.6	80,900	184,200	220
230	21.9	320.6	109,100	199,900	38.0	353.7	91,900	186,800	49.0	368.2	74,700	173,900	230
240	4.8	272.9	100,700	184,100	31.6	338.5	85,200	176,800	44.1	358.2	68,900	164,500	240
250					23.7	318.1	79,000	167,500	38.6	346.2	63,600	155,900	250
260					10.7	282.3	72,700	158,800	32.4	331.3	58,600	147,900	260
270									24.7	311.6	53,800	140,400	270
280									12.8	279.3	49,000	133,300	280

MLC650 VPC-MAX S-3

ASME B30.5



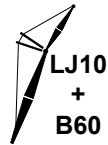
881,800 lb



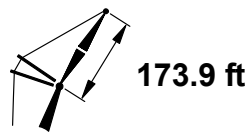
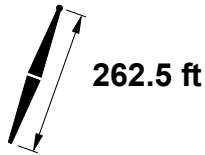
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	73.4	437.3	245,000	245,000									85
90	71.7	435.6	244,300	244,300									90
95	69.9	433.7	243,200	243,200									95
100	68.1	431.7	241,700	241,700	71.4	434.2	245,900	245,900					100
105	66.3	429.4	239,900	239,900	69.6	432.3	245,700	245,700					105
110	64.5	427.0	237,700	237,700	67.8	430.2	245,000	245,000					110
115	62.6	424.3	235,500	235,500	66.0	427.9	244,000	244,000					115
120	60.7	421.5	231,100	231,100	64.2	425.5	242,700	242,700	69.1	429.6	244,000	244,000	120
125	58.8	418.4	223,100	223,100	62.3	422.8	241,100	241,100	67.3	427.4	244,000	244,000	125
130	56.8	415.1	215,100	215,100	60.4	419.9	239,300	239,300	65.5	425.1	244,000	244,000	130
135	54.8	411.5	207,300	207,300	58.5	416.8	237,000	237,000	63.6	422.5	244,000	244,000	135
140	52.7	407.6	199,600	199,600	56.5	413.4	230,600	230,600	61.8	419.8	244,000	244,000	140
145	50.6	403.4	192,200	192,200	54.4	409.7	222,800	222,800	59.9	416.8	238,900	244,000	145
150	48.3	398.9	185,100	185,100	52.3	405.8	215,000	215,000	57.9	413.6	228,700	243,200	150
155	46.0	394.1	178,300	178,300	50.2	401.6	207,400	207,400	55.9	410.2	219,100	242,000	155
160	43.6	388.8	171,900	171,900	47.9	397.0	200,000	200,000	53.8	406.5	210,100	240,700	160
165	41.1	383.0	165,900	165,900	45.6	392.1	192,900	192,900	51.7	402.5	201,700	237,300	165
170	38.5	376.7	160,500	160,500	43.2	386.7	186,100	186,100	49.6	398.2	193,800	229,700	170
175	35.7	369.7	155,500	155,500	40.7	380.9	179,700	179,700	47.3	393.5	186,300	222,200	175
180	32.6	361.9	151,100	151,100	38.0	374.4	173,700	173,700	45.0	388.4	179,200	214,700	180
185	29.2	353.0	147,300	147,300	35.1	367.3	168,200	168,200	42.5	382.9	172,500	207,600	185
190	25.5	342.8	144,500	144,500	32.0	359.4	163,400	163,400	39.9	376.9	166,200	200,700	190
195	21.0	330.2	142,700	142,700	28.6	350.3	159,200	159,200	37.2	370.3	160,100	194,200	195
200	15.3	313.6	142,700	142,700	24.8	339.7	155,900	155,900	34.3	363.0	154,400	188,100	200
205	2.9	276.3	140,100	140,100	20.2	326.6	153,700	153,700	31.1	354.7	148,900	182,600	205
210					14.0	308.8	153,600	153,600	27.6	345.3	143,600	177,800	210
215									23.6	334.1	138,500	173,800	215
220									18.7	320.1	133,600	171,100	220
230													230
240													240
250													250
260													260
270													270
280													280
290													290

MLC650 VPC-MAX S-3

ASME B30.5



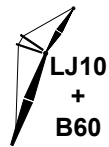
881,800 lb



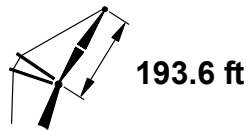
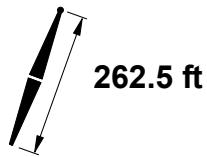
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155	64.5	418.5	190,800	235,500									155
160	62.7	415.9	182,800	235,500									160
165	60.8	413.0	175,200	235,500									165
170	58.8	409.9	168,200	235,500									170
175	56.8	406.6	161,500	235,500									175
180	54.8	403.0	155,200	235,500									180
185	52.7	399.1	149,200	235,500									185
190	50.6	395.0	143,500	235,500	59.5	403.9	121,300	223,700					190
195	48.4	390.5	138,200	235,500	57.6	400.6	116,600	223,700					195
200	46.1	385.6	133,100	235,500	55.5	397.2	112,000	220,100					200
205	43.7	380.3	128,200	228,700	53.5	393.4	107,700	213,400					205
210	41.2	374.6	123,500	222,000	51.4	389.3	103,600	207,100					210
215	38.5	368.2	119,100	215,500	49.2	385.0	99,700	201,000					215
220	35.7	361.3	114,800	209,400	46.9	380.2	96,000	195,200					220
230	29.3	344.6	106,800	197,900	42.1	369.5	88,900	184,400	51.8	381.2	71,400	171,300	230
240	21.1	321.9	99,200	187,300	36.7	356.7	82,400	174,500	47.4	372.3	65,800	162,000	240
250	3.5	269.6	91,400	166,500	30.5	340.8	76,400	165,400	42.6	361.7	60,500	153,500	250
260					22.8	319.5	70,600	156,900	37.3	349.2	55,600	145,500	260
270					10.0	282.0	64,800	148,800	31.3	333.7	51,000	138,200	270
280									23.8	313.2	46,600	131,300	280
290									12.1	279.4	42,100	124,700	290

MLC650 VPC-MAX S-3

ASME B30.5



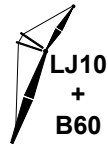
881,800 lb



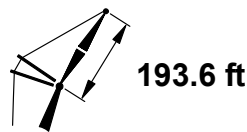
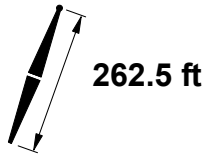
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	73.6	456.4	216,000	216,000									90
95	72.0	454.7	215,600	215,600									95
100	70.5	452.9	214,900	214,900									100
105	68.9	450.9	213,800	213,800	71.8	453.4	216,300	216,300					105
110	67.3	448.8	212,500	212,500	70.2	451.5	216,300	216,300					110
115	65.6	446.5	211,000	211,000	68.6	449.5	216,100	216,100					115
120	64.0	444.0	209,300	209,300	67.0	447.3	215,500	215,500					120
125	62.3	441.3	207,000	207,000	65.4	445.0	214,600	214,600	69.7	448.8	213,400	213,400	125
130	60.6	438.4	201,300	201,300	63.7	442.4	213,600	213,600	68.1	446.7	213,400	213,400	130
135	58.9	435.4	194,800	194,800	62.0	439.7	212,300	212,300	66.5	444.5	213,400	213,400	135
140	57.1	432.1	188,200	188,200	60.3	436.8	211,000	211,000	64.9	442.1	213,400	213,400	140
145	55.3	428.5	181,700	181,700	58.6	433.7	209,100	209,100	63.2	439.5	213,400	213,400	145
150	53.4	424.8	175,300	175,300	56.8	430.4	202,700	202,700	61.5	436.7	213,400	213,400	150
155	51.5	420.8	169,100	169,100	55.0	426.8	196,200	196,200	59.8	433.8	213,400	213,400	155
160	49.6	416.5	163,200	163,200	53.1	423.0	189,800	189,800	58.1	430.6	206,500	213,400	160
165	47.6	411.8	157,400	157,400	51.2	419.0	183,300	183,300	56.3	427.2	198,200	213,400	165
170	45.5	406.9	151,900	151,900	49.2	414.6	177,200	177,200	54.4	423.6	190,300	212,400	170
175	43.3	401.5	146,800	146,800	47.2	409.9	171,100	171,100	52.6	419.7	182,900	210,500	175
180	41.1	395.7	141,900	141,900	45.1	404.9	165,300	165,300	50.6	415.6	175,900	204,200	180
185	38.7	389.5	137,300	137,300	42.9	399.5	159,800	159,800	48.7	411.1	169,200	198,000	185
190	36.2	382.6	133,200	133,200	40.6	393.6	154,500	154,500	46.6	406.3	163,000	191,800	190
195	33.5	375.1	129,500	129,500	38.2	387.2	149,600	149,600	44.5	401.2	157,000	185,600	195
200	30.6	366.7	126,200	126,200	35.7	380.3	145,000	145,000	42.3	395.7	151,300	179,700	200
205	27.4	357.1	123,500	123,500	33.0	372.6	140,900	140,900	40.0	389.7	145,900	174,000	205
210	23.8	346.0	121,500	121,500	30.1	364.0	137,200	137,200	37.6	383.1	140,700	168,600	210
215	19.6	332.6	120,400	120,400	26.8	354.2	134,000	134,000	35.0	376.0	135,800	163,500	215
220	14.0	314.5	120,400	120,400	23.1	342.8	131,700	131,700	32.2	368.1	131,100	158,800	220
230					12.8	309.3	130,300	130,300	25.8	349.0	122,200	150,800	230
240									17.3	321.9	113,800	145,900	240
250													250
260													260
270													270
280													280
290													290
300													300
310													310

MLC650 VPC-MAX S-3

ASME B30.5



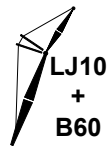
881,800 lb



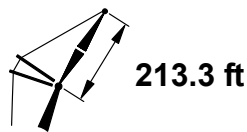
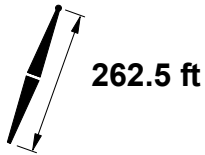
ft	75°				70°				65°				ft
	ft	°	ft	lb	lb	ft	°	ft	lb	lb	ft	°	ft
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165	64.0	435.5	171,000	205,700									165
170	62.3	432.8	164,000	205,700									170
175	60.6	430.0	157,400	205,700									175
180	58.9	426.9	151,200	205,700									180
185	57.1	423.6	145,200	205,700									185
190	55.3	420.1	139,600	205,700									190
195	53.5	416.3	134,300	205,700									195
200	51.6	412.3	129,300	205,700	59.5	420.8	107,700	193,200					200
205	49.6	408.0	124,500	205,700	57.8	417.6	103,500	193,200					205
210	47.6	403.4	119,900	205,700	56.0	414.2	99,400	193,200					210
215	45.5	398.4	115,500	205,700	54.1	410.5	95,600	193,200					215
220	43.3	393.1	111,300	205,700	52.2	406.6	91,900	191,900					220
230	38.7	381.0	103,500	195,000	48.3	397.9	85,000	181,200					230
240	33.5	366.6	96,200	184,600	44.1	387.9	78,600	171,400	52.7	398.5	61,400	158,600	240
250	27.4	348.7	89,500	174,900	39.6	376.2	72,700	162,300	48.8	389.9	56,300	150,100	250
260	19.6	324.2	83,100	166,000	34.5	362.3	67,300	154,000	44.6	380.0	51,600	142,300	260
270					28.6	345.1	62,100	146,300	40.1	368.5	47,100	135,000	270
280					21.2	322.3	57,200	139,000	35.1	354.9	43,000	128,300	280
290					8.7	281.0	52,100	132,100	29.3	338.2	39,000	122,000	290
300									22.2	316.2	35,200	116,000	300
310									10.9	279.4	31,300	110,300	310

MLC650 VPC-MAX S-3

ASME B30.5



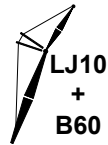
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95	73.8	475.5	188,900	188,900									95
100	72.4	473.8	188,700	188,700									100
105	70.9	472.1	188,200	188,200									105
110	69.5	470.1	187,500	187,500	72.1	472.5	189,000	189,000					110
115	68.0	468.1	186,600	186,600	70.7	470.7	189,000	189,000					115
120	66.6	465.9	185,500	185,500	69.2	468.7	189,000	189,000					120
125	65.1	463.5	184,300	184,300	67.8	466.6	188,700	188,700					125
130	63.6	461.0	182,600	182,600	66.3	464.4	188,200	188,200					130
135	62.0	458.3	181,100	181,100	64.8	462.0	187,400	187,400	68.8	465.9	186,700	186,700	135
140	60.5	455.4	176,100	176,100	63.3	459.4	186,600	186,600	67.4	463.8	186,700	186,700	140
145	58.9	452.3	170,700	170,700	61.8	456.7	185,600	185,600	65.9	461.5	186,700	186,700	145
150	57.3	449.1	165,400	165,400	60.2	453.8	184,500	184,500	64.4	459.1	186,700	186,700	150
155	55.7	445.6	160,100	160,100	58.6	450.7	183,300	183,300	62.9	456.5	186,700	186,700	155
160	54.0	441.9	154,800	154,800	57.0	447.4	178,600	178,600	61.3	453.7	186,700	186,700	160
165	52.3	438.0	149,700	149,700	55.4	443.9	173,300	173,300	59.8	450.7	186,700	186,700	165
170	50.6	433.9	144,700	144,700	53.7	440.2	168,100	168,100	58.2	447.6	186,700	186,700	170
175	48.8	429.4	139,900	139,900	52.0	436.2	162,800	162,800	56.6	444.2	179,400	186,700	175
180	46.9	424.7	135,200	135,200	50.3	432.0	157,700	157,700	54.9	440.7	172,400	186,700	180
185	45.0	419.7	130,700	130,700	48.5	427.5	152,600	152,600	53.2	436.9	165,800	186,000	185
190	43.0	414.3	126,500	126,500	46.6	422.8	147,800	147,800	51.5	432.9	159,600	181,800	190
195	41.0	408.5	122,500	122,500	44.7	417.7	143,000	143,000	49.8	428.6	153,700	176,800	195
200	38.8	402.3	118,800	118,800	42.7	412.2	138,500	138,500	47.9	424.0	148,000	171,600	200
205	36.6	395.5	115,300	115,300	40.6	406.4	134,100	134,100	46.1	419.2	142,700	166,600	205
210	34.2	388.1	112,100	112,100	38.5	400.0	130,100	130,100	44.1	414.0	137,600	161,700	210
215	31.6	380.1	109,300	109,300	36.2	393.2	126,200	126,200	42.1	408.4	132,700	156,700	215
220	28.9	371.1	106,800	106,800	33.8	385.7	122,700	122,700	40.0	402.4	128,000	152,100	220
230	22.4	349.0	103,400	103,400	28.4	368.3	116,600	116,600	35.5	388.9	119,300	143,300	230
240	12.9	315.1	102,700	102,700	21.7	345.7	112,400	112,400	30.4	372.8	111,200	135,500	240
250					11.6	309.6	111,500	111,500	24.3	352.4	103,700	129,300	250
260									16.0	323.4	96,600	125,600	260
270													270
280													280
290													290
300													300
310													310
320													320
330													330

MLC650 VPC-MAX S-3

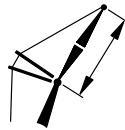
ASME B30.5



881,800 lb



262.5 ft

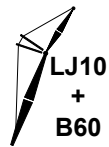


213.3 ft

	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175	63.6	452.5	153,300	179,500									175
180	62.1	449.8	147,100	179,500									180
185	60.5	446.9	141,200	179,500									185
190	58.9	443.8	135,700	179,500									190
195	57.3	440.6	130,400	179,500									195
200	55.7	437.1	125,400	179,500									200
205	54.0	433.5	120,700	179,500									205
210	52.3	429.5	116,100	179,500	59.5	437.8	95,200	168,200					210
215	50.6	425.4	111,800	179,500	57.9	434.6	91,300	168,200					215
220	48.8	421.0	107,700	179,500	56.3	431.2	87,700	168,200					220
230	45.0	411.2	99,900	179,500	53.0	423.8	80,900	168,200					230
240	41.0	400.0	92,800	179,500	49.4	415.4	74,700	168,100					240
250	36.6	387.1	86,200	172,100	45.7	405.9	68,900	159,200	53.3	415.6	52,000	146,700	250
260	31.7	371.6	80,100	163,400	41.8	395.0	63,600	151,000	49.8	407.4	47,400	138,900	260
270	25.9	352.5	74,300	155,200	37.4	382.4	58,600	143,300	46.2	398.0	43,100	131,800	270
280	18.3	326.3	68,800	147,500	32.6	367.5	53,900	136,200	42.2	387.2	39,000	125,100	280
290					27.0	349.1	49,400	129,600	37.9	374.8	35,200	118,900	290
300					19.9	324.7	45,200	123,300	33.2	360.2	31,700	113,100	300
310					7.4	279.5	40,700	117,200	27.7	342.3	28,200	107,700	310
320									20.8	318.8	24,900	102,500	320
330									9.7	278.9	21,400	97,400	330

MLC650 VPC-MAX S-3

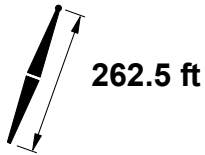
ASME B30.5



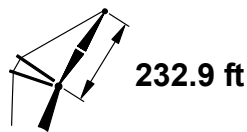
881,800 lb



360°



262.5 ft

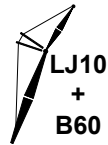


232.9 ft

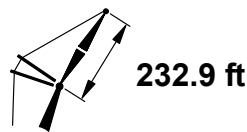
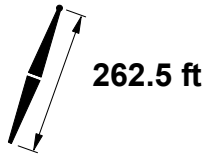
	85°				83°				80°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
100	73.9	494.5	166,700	166,700									100
105	72.6	492.9	166,600	166,600									105
110	71.3	491.2	166,200	166,200									110
115	70.0	489.3	165,700	165,700	72.4	491.6	166,200	166,200					115
120	68.7	487.3	164,900	164,900	71.1	489.8	166,200	166,200					120
125	67.3	485.2	164,000	164,000	69.8	487.9	166,200	166,200					125
130	66.0	482.9	163,000	163,000	68.4	485.9	166,200	166,200					130
135	64.6	480.5	161,900	161,900	67.1	483.7	165,900	165,900					135
140	63.2	477.9	160,700	160,700	65.7	481.4	165,400	165,400	69.4	485.2	163,200	163,200	140
145	61.8	475.2	159,400	159,400	64.4	479.0	164,900	164,900	68.1	483.1	163,200	163,200	145
150	60.4	472.3	155,000	155,000	63.0	476.4	164,100	164,100	66.7	480.9	163,200	163,200	150
155	59.0	469.3	150,600	150,600	61.6	473.6	163,400	163,400	65.4	478.6	163,200	163,200	155
160	57.5	466.0	146,100	146,100	60.2	470.7	162,500	162,500	64.0	476.1	163,200	163,200	160
165	56.0	462.6	141,700	141,700	58.7	467.7	161,400	161,400	62.6	473.4	163,200	163,200	165
170	54.5	459.0	137,300	137,300	57.2	464.4	158,300	158,300	61.2	470.6	163,200	163,200	170
175	53.0	455.2	133,000	133,000	55.8	460.9	153,900	153,900	59.8	467.7	163,200	163,200	175
180	51.4	451.2	128,900	128,900	54.2	457.3	149,600	149,600	58.3	464.6	163,200	163,200	180
185	49.8	446.9	124,700	124,700	52.7	453.4	145,200	145,200	56.8	461.2	163,200	163,200	185
190	48.1	442.4	120,700	120,700	51.1	449.4	140,900	140,900	55.3	457.7	157,200	163,200	190
195	46.4	437.6	116,900	116,900	49.5	445.0	136,600	136,600	53.8	454.0	151,300	163,200	195
200	44.6	432.5	113,300	113,300	47.8	440.5	132,500	132,500	52.2	450.1	145,700	162,600	200
205	42.8	427.0	109,800	109,800	46.1	435.6	128,500	128,500	50.6	446.0	140,400	158,400	205
210	40.9	421.2	106,500	106,500	44.3	430.5	124,500	124,500	49.0	441.6	135,300	154,200	210
215	39.0	415.0	103,300	103,300	42.5	425.0	120,700	120,700	47.3	436.9	130,500	150,000	215
220	36.9	408.4	100,400	100,400	40.6	419.1	117,100	117,100	45.6	432.0	125,900	145,800	220
230	32.5	393.3	95,200	95,200	36.6	406.1	110,400	110,400	42.0	421.2	117,300	137,600	230
240	27.4	375.1	91,200	91,200	32.1	390.8	104,600	104,600	38.1	408.8	109,300	129,900	240
250	21.1	351.8	88,600	88,600	26.9	372.3	99,900	99,900	33.7	394.4	102,000	122,800	250
260	11.9	315.5	88,200	88,200	20.5	348.2	96,800	96,800	28.9	377.2	95,100	116,600	260
270					10.6	309.5	96,200	96,200	23.0	355.6	88,700	111,700	270
280									15.0	324.6	82,500	109,000	280
290													290
300													300
310													310
320													320
330													330
340													340
350													350

MLC650 VPC-MAX S-3

ASME B30.5



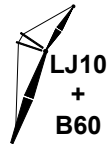
881,800 lb



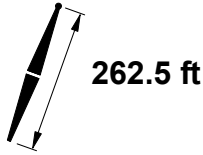
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180	64.6	472.0	144,200	154,700									180
185	63.2	469.5	138,300	154,700									185
190	61.8	466.7	132,800	154,700									190
195	60.4	463.9	127,600	154,700									195
200	59.0	460.8	122,700	154,700									200
205	57.5	457.6	117,900	154,700									205
210	56.0	454.2	113,400	154,700									210
215	54.5	450.6	109,200	154,700									215
220	53.0	446.7	105,100	154,700	59.5	454.8	84,700	144,700					220
230	49.8	438.4	97,400	154,700	56.6	448.2	78,000	144,700					230
240	46.4	429.1	90,400	154,700	53.5	441.0	71,800	144,700					240
250	42.8	418.6	83,900	154,700	50.4	432.8	66,100	144,700					250
260	39.0	406.6	77,900	154,700	47.0	423.7	60,900	144,700	53.9	432.8	44,300	135,700	260
270	34.8	392.7	72,300	152,700	43.5	413.4	56,000	141,200	50.7	424.7	40,100	129,400	270
280	30.1	376.3	67,000	145,200	39.7	401.7	51,400	134,100	47.4	415.7	36,100	122,800	280
290	24.5	356.0	62,000	138,500	35.6	388.2	47,100	127,600	43.9	405.6	32,500	116,700	290
300	17.2	328.1	57,200	132,200	31.0	372.3	43,100	121,400	40.1	394.0	29,000	110,900	300
310					25.6	352.8	39,200	115,700	36.1	380.8	25,700	105,600	310
320					18.7	326.9	35,400	110,200	31.5	365.2	22,600	100,500	320
330					6.3	277.3	31,500	104,900	26.2	346.2		95,700	330
340									19.6	321.2		91,200	340
350									8.7	278.0		86,700	350

MLC650 VPC-MAX S-3

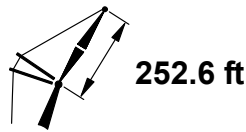
ASME B30.5



881,800 lb



262.5 ft

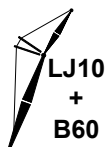


252.6 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105	74.0	513.6	146,400	146,400									105
110	72.8	512.0	146,200	146,200									110
115	71.6	510.3	145,900	145,900									115
120	70.4	508.5	145,400	145,400	72.6	510.6	145,700	145,700					120
125	69.2	506.5	144,900	144,900	71.4	508.9	145,700	145,700					125
130	68.0	504.5	144,200	144,200	70.2	507.1	145,700	145,700					130
135	66.7	502.3	143,400	143,400	69.0	505.1	145,700	145,700					135
140	65.5	500.0	142,500	142,500	67.8	503.0	145,400	145,400					140
145	64.2	497.5	141,600	141,600	66.5	500.8	145,000	145,000	69.9	504.3	142,500	142,500	145
150	62.9	494.9	140,600	140,600	65.3	498.5	144,600	144,600	68.6	502.3	142,500	142,500	150
155	61.6	492.2	139,300	139,300	64.0	496.0	144,000	144,000	67.4	500.2	142,500	142,500	155
160	60.3	489.3	135,700	135,700	62.7	493.4	143,400	143,400	66.2	498.0	142,500	142,500	160
165	59.0	486.2	132,000	132,000	61.4	490.6	142,700	142,700	64.9	495.6	142,500	142,500	165
170	57.7	483.0	128,300	128,300	60.1	487.7	142,000	142,000	63.6	493.1	142,500	142,500	170
175	56.3	479.7	124,600	124,600	58.8	484.6	141,200	141,200	62.4	490.4	142,500	142,500	175
180	54.9	476.1	121,000	121,000	57.4	481.4	139,300	139,300	61.1	487.6	142,500	142,500	180
185	53.5	472.4	117,400	117,400	56.1	478.0	135,700	135,700	59.7	484.6	142,500	142,500	185
190	52.0	468.4	113,900	113,900	54.7	474.4	132,100	132,100	58.4	481.5	142,500	142,500	190
195	50.6	464.3	110,400	110,400	53.2	470.6	128,500	128,500	57.0	478.2	142,500	142,500	195
200	49.1	459.9	107,100	107,100	51.8	466.6	124,900	124,900	55.7	474.8	142,000	142,500	200
205	47.5	455.3	103,800	103,800	50.3	462.4	121,400	121,400	54.3	471.1	136,700	142,500	205
210	45.9	450.4	100,600	100,600	48.8	458.0	117,800	117,800	52.8	467.3	131,700	142,200	210
215	44.3	445.2	97,600	97,600	47.2	453.4	114,500	114,500	51.4	463.3	126,900	140,900	215
220	42.6	439.8	94,700	94,700	45.7	448.4	111,100	111,100	49.9	459.0	122,300	137,400	220
230	39.1	427.8	89,300	89,300	42.3	437.7	104,700	104,700	46.8	449.8	113,700	130,400	230
240	35.2	414.1	84,600	84,600	38.8	425.6	98,800	98,800	43.5	439.5	105,800	123,500	240
250	31.0	398.2	80,600	80,600	34.9	411.7	93,600	93,600	40.1	427.9	98,600	116,900	250
260	26.1	379.0	77,500	77,500	30.6	395.6	89,000	89,000	36.3	414.7	91,900	110,600	260
270	20.0	354.3	75,700	75,700	25.6	376.0	85,400	85,400	32.2	399.5	85,600	105,000	270
280	10.9	315.5	75,600	75,600	19.4	350.6	83,100	83,100	27.5	381.3	79,700	100,100	280
290					9.7	309.0	82,800	82,800	21.8	358.5	74,200	96,200	290
300									14.0	325.6	68,800	94,300	300
310													310
320													320
330													330
340													340
350													350
360													360
370													370

MLC650 VPC-MAX S-3

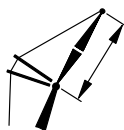
ASME B30.5



881,800 lb



262.5 ft

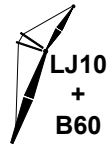


252.6 ft

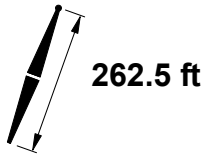
	75°				70°				65°			
	ft	°	ft	lb	lb	ft	lb	lb	ft	°	ft	lb
105												
110												
115												
120												
125												
130												
135												
140												
145												
150												
155												
160												
165												
170												
175												
180												
185												
190	64.2	489.0	128,500	134,800								
195	63.0	486.4	123,300	134,800								
200	61.7	483.7	118,400	134,800								
205	60.4	480.8	113,700	134,800								
210	59.0	477.8	109,300	134,800								
215	57.7	474.6	105,000	134,800								
220	56.3	471.2	101,000	134,800								
230	53.5	463.9	93,400	134,800	59.5	471.7	73,600	125,000				
240	50.6	455.8	86,400	134,800	56.8	465.3	67,500	125,000				
250	47.5	446.8	80,000	134,800	54.0	458.1	61,900	125,000				
260	44.3	436.8	74,100	134,800	51.1	450.2	56,700	125,000				
270	40.9	425.5	68,600	134,800	48.1	441.3	51,900	125,000	54.3	449.9	116,000	
280	37.2	412.8	63,400	134,800	44.9	431.5	47,400	125,000	51.4	442.0	116,000	
290	33.2	398.0	58,600	131,700	41.5	420.5	43,200	124,400	48.4	433.3	113,300	
300	28.6	380.7	54,100	125,600	37.9	408.0	39,300	118,400	45.3	423.6	107,600	
310	23.3	359.2	49,700	120,200	34.0	393.7	35,500	112,700	41.9	412.7	102,300	
320	16.2	329.7	45,500	112,200	29.5	376.9	32,000	107,400	38.3	400.4	97,400	
330					24.3	356.3	28,600	102,300	34.4	386.3	92,700	
340					17.7	328.8	25,300	97,500	30.0	369.8	88,200	
350					5.1	274.2	21,700	92,700	24.9	349.7	84,000	
360									18.5	323.3	80,000	
370									7.7	276.7	76,000	

MLC650 VPC-MAX S-3

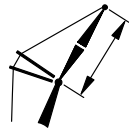
ASME B30.5



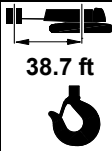
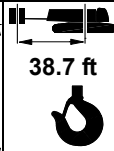
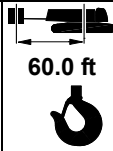
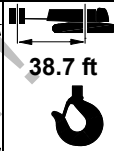
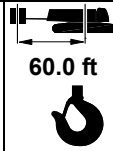
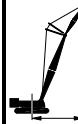
881,800 lb



262.5 ft

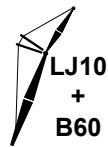


272.3 ft

 85°					 83°				 80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
110	74.1	532.6	129,300	129,300									110
115	73.0	531.1	129,100	129,100									115
120	71.9	529.4	128,700	128,700									120
125	70.8	527.6	128,300	128,300	72.8	529.7	128,500	128,500					125
130	69.6	525.7	127,700	127,700	71.7	528.0	128,500	128,500					130
135	68.5	523.7	126,800	126,800	70.6	526.2	128,500	128,500					135
140	67.4	521.6	126,200	126,200	69.4	524.3	128,100	128,100					140
145	66.2	519.4	125,700	125,700	68.3	522.3	128,100	128,100					145
150	65.1	517.0	124,900	124,900	67.2	520.1	127,500	127,500					150
155	63.9	514.5	123,900	123,900	66.0	517.9	127,100	127,100	69.1	521.5	125,700	125,700	155
160	62.7	511.9	123,000	123,000	64.8	515.5	126,700	126,700	68.0	519.5	125,700	125,700	160
165	61.5	509.1	122,100	122,100	63.7	513.0	126,200	126,200	66.8	517.3	125,700	125,700	165
170	60.3	506.2	119,100	119,100	62.5	510.3	125,600	125,600	65.7	515.0	125,700	125,700	170
175	59.0	503.2	116,000	116,000	61.3	507.6	125,000	125,000	64.5	512.6	125,700	125,700	175
180	57.8	500.0	113,000	113,000	60.1	504.6	124,400	124,400	63.3	510.0	125,700	125,700	180
185	56.5	496.7	109,900	109,900	58.8	501.6	123,700	123,700	62.1	507.4	125,700	125,700	185
190	55.2	493.2	106,900	106,900	57.6	498.4	123,000	123,000	60.9	504.6	125,700	125,700	190
195	53.9	489.5	103,900	103,900	56.3	495.0	120,000	120,000	59.7	501.6	125,700	125,700	195
200	52.6	485.6	100,900	100,900	55.0	491.5	117,000	117,000	58.5	498.5	125,700	125,700	200
205	51.3	481.6	98,000	98,000	53.7	487.7	113,900	113,900	57.2	495.2	125,400	125,400	205
210	49.9	477.3	95,200	95,200	52.4	483.9	110,900	110,900	55.9	491.8	125,100	125,100	210
215	48.5	472.9	92,400	92,400	51.0	479.8	108,000	108,000	54.7	488.2	124,500	124,800	215
220	47.0	468.2	89,700	89,700	49.6	475.5	105,000	105,000	53.3	484.5	119,900	124,400	220
230	44.0	458.0	84,600	84,600	46.8	466.2	99,300	99,300	50.6	476.4	111,400	122,500	230
240	40.9	446.7	79,900	79,900	43.8	456.0	93,900	93,900	47.8	467.5	103,600	116,700	240
250	37.5	434.0	75,600	75,600	40.6	444.6	88,700	88,700	44.9	457.6	96,400	110,900	250
260	33.8	419.6	71,900	71,900	37.1	431.7	84,000	84,000	41.7	446.6	89,800	105,300	260
270	29.6	402.8	68,800	68,800	33.4	417.1	79,900	79,900	38.4	434.3	83,600	99,800	270
280	24.9	382.5	66,500	66,500	29.2	400.1	76,300	76,300	34.8	420.4	77,900	94,900	280
290	19.0	356.5	65,100	65,100	24.4	379.5	73,500	73,500	30.8	404.3	72,500	90,300	290
300	10.1	315.2	65,100	65,100	18.4	352.7	71,800	71,800	26.3	385.2	67,400	86,400	300
310					8.8	308.3	71,200	71,700	20.8	361.1	62,500	83,400	310
320									13.2	326.3	57,800	82,100	320
330													330
340													340
350													350
360													360
370													370
380													380
390													390

MLC650 VPC-MAX S-3

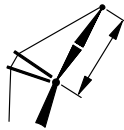
ASME B30.5



881,800 lb



262.5 ft

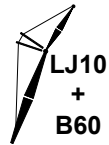


272.3 ft

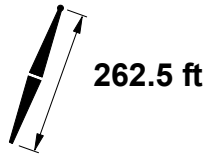
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200	63.9	506.0	115,500	118,800								200
205	62.7	503.4	110,900	118,800								205
210	61.5	500.6	106,400	118,800								210
215	60.3	497.8	102,200	118,800								215
220	59.1	494.7	98,200	118,800								220
230	56.5	488.2	90,700	118,800								230
240	54.0	481.0	83,800	118,800	59.5	488.7	64,500	109,800				240
250	51.3	473.1	77,500	118,800	57.0	482.2	58,900	109,800				250
260	48.5	464.4	71,600	118,800	54.4	475.2	53,800	109,800				260
270	45.6	454.8	66,200	118,800	51.8	467.4	49,100	109,800				270
280	42.5	444.1	61,100	118,800	49.0	458.9	44,700	109,800	54.7	467.0	101,100	280
290	39.2	432.1	56,400	118,800	46.1	449.4	40,500	109,800	52.1	459.3	101,100	290
300	35.7	418.6	51,900	118,800	43.1	438.9	36,700	109,800	49.3	450.8	101,100	300
310	31.8	403.1	47,700	114,100	39.8	427.2	33,100	109,800	46.4	441.5	100,100	310
320	27.4	384.8	43,700	109,200	36.3	414.0	29,600	105,400	43.4	431.1	95,200	320
330	22.2	362.2	39,900	104,800	32.5	398.9	26,400	100,400	40.2	419.5	90,500	330
340	15.3	331.0	36,200	96,000	28.2	381.2	23,300	95,700	36.7	406.5	86,200	340
350					23.2	359.5	20,300	91,300	32.9	391.6	82,000	350
360					16.8	330.5		87,000	28.7	374.2	78,100	360
370					3.7	269.4		82,800	23.8	353.1	74,400	370
380									17.6	325.2	70,800	380
390									6.8	274.9	67,200	390

MLC650 VPC-MAX S-3

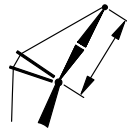
ASME B30.5



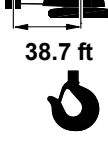
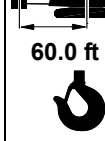
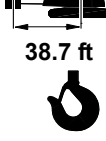
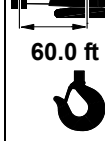
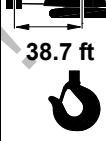
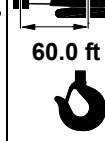
881,800 lb



262.5 ft

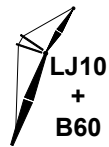


292.0 ft

	 85°					 83°					 80°					
	 ft	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 ft		
115	74.2	551.7	112,500	112,500											115	
120	73.2	550.1	112,300	112,300											120	
125	72.1	548.5	111,800	111,800											125	
130	71.1	546.7	111,200	111,200	73.0	548.8	111,300	111,300							130	
135	70.0	544.9	110,900	110,900	71.9	547.1	111,300	111,300							135	
140	69.0	542.9	110,300	110,300	70.9	545.4	111,200	111,200							140	
145	67.9	540.9	109,700	109,700	69.9	543.5	111,000	111,000							145	
150	66.9	538.7	109,100	109,100	68.8	541.5	110,800	110,800							150	
155	65.8	536.4	108,500	108,500	67.7	539.4	110,500	110,500							155	
160	64.7	534.0	107,800	107,800	66.7	537.2	110,100	110,100	69.6	540.7	108,400	108,400			160	
165	63.6	531.5	107,100	107,100	65.6	534.9	109,700	109,700	68.5	538.7	108,400	108,400			165	
170	62.5	528.9	106,300	106,300	64.5	532.5	109,300	109,300	67.4	536.6	108,400	108,400			170	
175	61.4	526.1	105,600	105,600	63.4	530.0	108,800	108,800	66.4	534.4	108,400	108,400			175	
180	60.2	523.2	104,000	104,000	62.3	527.3	108,300	108,300	65.3	532.1	108,400	108,400			180	
185	59.1	520.2	101,500	101,500	61.2	524.5	107,800	107,800	64.2	529.6	108,400	108,400			185	
190	57.9	517.0	98,900	98,900	60.0	521.6	107,200	107,200	63.1	527.0	108,400	108,400			190	
195	56.7	513.7	96,400	96,400	58.9	518.5	106,700	106,700	62.0	524.3	108,400	108,400			195	
200	55.5	510.2	93,900	93,900	57.7	515.3	106,100	106,100	60.8	521.5	108,400	108,400			200	
205	54.3	506.6	91,400	91,400	56.5	512.0	105,500	105,500	59.7	518.5	108,200	108,200			205	
210	53.1	502.8	88,900	88,900	55.3	508.5	102,900	102,900	58.5	515.5	107,900	107,900			210	
215	51.8	498.8	86,500	86,500	54.1	504.9	100,400	100,400	57.4	512.2	107,700	107,700			215	
220	50.6	494.7	84,100	84,100	52.9	501.0	98,000	98,000	56.2	508.8	107,400	107,400			220	
230	47.9	485.8	79,500	79,500	50.3	492.9	93,100	93,100	53.8	501.6	106,700	106,700			230	
240	45.2	476.0	75,100	75,100	47.7	483.9	88,300	88,300	51.3	493.7	99,700	106,000			240	
250	42.3	465.3	71,000	71,000	45.0	474.1	83,700	83,700	48.7	485.0	92,500	103,700			250	
260	39.3	453.3	67,300	67,300	42.1	463.2	79,300	79,300	46.0	475.5	85,900	99,000			260	
270	36.0	439.9	63,900	63,900	39.0	451.1	75,200	75,200	43.1	465.0	79,800	94,300			270	
280	32.4	424.7	60,900	60,900	35.7	437.6	71,500	71,500	40.1	453.4	74,100	89,800			280	
290	28.4	407.1	58,500	58,500	32.1	422.2	68,100	68,100	36.9	440.5	68,800	85,400			290	
300	23.8	385.9	56,700	56,700	28.1	404.3	65,300	65,300	33.4	425.8	63,800	81,400			300	
310	18.1	358.6	55,800	55,800	23.4	382.7	63,100	63,100	29.6	408.9	59,100	77,800			310	
320	9.3	314.7	55,800	55,800	17.5	354.6	61,900	61,900	25.2	388.8	54,700	74,600			320	
330					8.0	307.2	58,600	61,200	19.8	363.6	50,400	72,300			330	
340										12.4	326.9	46,200	71,400		340	
350															350	
360															360	
370															370	
380															380	
390															390	
400															400	
410															410	

MLC650 VPC-MAX S-3

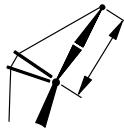
ASME B30.5



881,800 lb



262.5 ft

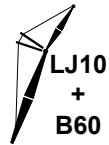


292.0 ft

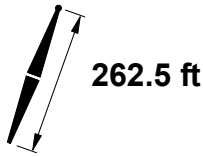
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205	64.7	525.5	101,200	101,200								205
210	63.6	523.0	101,200	101,200								210
215	62.5	520.4	97,800	101,200								215
220	61.4	517.6	93,800	101,200								220
230	59.1	511.7	86,400	101,200								230
240	56.7	505.2	79,500	101,200								240
250	54.3	498.1	73,200	101,200	59.5	505.6	54,400	93,200				250
260	51.9	490.4	67,400	101,200	57.2	499.2	49,300	93,200				260
270	49.3	481.9	62,000	101,200	54.8	492.3	44,600	93,200				270
280	46.6	472.6	57,000	101,200	52.3	484.6	40,300	93,200				280
290	43.8	462.3	52,300	101,200	49.8	476.3	36,200	93,200				290
300	40.8	451.0	47,900	101,200	47.1	467.2	32,400	93,200	52.6	476.5	86,300	300
310	37.7	438.4	43,800	101,200	44.3	457.1	28,800	93,200	50.0	468.2	86,300	310
320	34.3	424.2	39,900	101,200	41.4	446.0	25,500	93,200	47.4	459.2	86,300	320
330	30.5	407.8	36,300	98,900	38.3	433.6	22,300	93,200	44.6	449.2	86,300	330
340	26.3	388.6	32,800	94,900	34.9	419.7		92,600	41.7	438.2	82,800	340
350	21.2	364.9	29,400	91,400	31.2	403.8		88,200	38.6	426.0	78,700	350
360	14.5	332.2	26,100	80,200	27.1	385.2		84,000	35.3	412.3	74,900	360
370					22.2	362.5		80,100	31.6	396.6	71,200	370
380					15.9	332.0		76,300	27.6	378.4	67,700	380
390									22.8	356.2	64,400	390
400									16.7	327.0	61,100	400
410									5.8	272.5	57,900	410

MLC650 VPC-MAX S-3

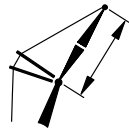
ASME B30.5



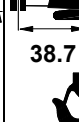
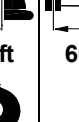
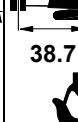
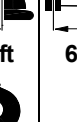
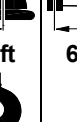
881,800 lb



262.5 ft

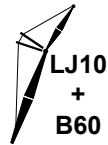


311.7 ft

	85°					83°					80°				
															
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft		
120	74.3	570.7	98,500	98,500									120		
125	73.3	569.2	98,300	98,300									125		
130	72.3	567.6	97,900	97,900									130		
135	71.4	565.9	97,600	97,600									135		
140	70.4	564.0	96,900	96,900									140		
145	69.4	562.1	96,500	96,500	72.2	566.2	97,300	97,300					145		
150	68.4	560.1	95,900	95,900	71.2	564.5	97,200	97,200					150		
155	67.4	558.0	95,400	95,400	70.2	562.6	96,900	96,900					155		
160	66.4	555.8	94,900	94,900	69.2	560.7	96,600	96,600					160		
165	65.4	553.5	94,300	94,300	68.2	558.7	96,400	96,400					165		
170	64.4	551.0	93,700	93,700	67.2	556.5	96,100	96,100	69.9	559.9	94,400	94,400	170		
175	63.3	548.5	93,100	93,100	66.2	554.3	95,700	95,700	68.9	557.9	94,400	94,400	175		
180	62.3	545.8	92,500	92,500	65.2	552.0	95,400	95,400	67.9	555.9	94,400	94,400	180		
185	61.2	543.0	91,800	91,800	64.2	549.5	95,000	95,000	66.9	553.7	94,400	94,400	185		
190	60.2	540.1	91,100	91,100	63.1	546.9	94,600	94,600	65.9	551.5	94,400	94,400	190		
195	59.1	537.1	89,000	89,000	62.1	544.3	94,100	94,100	64.9	549.1	94,400	94,400	195		
200	58.0	534.0	86,900	86,900	61.0	541.5	93,600	93,600	63.9	546.6	94,300	94,300	200		
205	56.9	530.7	84,800	84,800	60.0	538.5	93,100	93,100	62.9	544.0	94,200	94,200	205		
210	55.8	527.2	82,700	82,700	58.9	535.5	92,600	92,600	61.8	541.3	94,100	94,100	210		
215	54.7	523.7	80,600	80,600	57.8	532.3	92,100	92,100	60.8	538.5	93,900	93,900	215		
220	53.5	519.9	78,500	78,500	56.7	529.0	91,600	91,600	59.7	535.5	93,700	93,700	220		
230	51.2	512.0	74,400	74,400	55.6	525.5	90,800	90,800	58.6	532.4	93,500	93,500	230		
240	48.7	503.3	70,400	70,400	53.3	518.2	86,700	86,700	56.4	525.8	92,900	92,900	240		
250	46.2	493.9	66,600	66,600	51.0	510.2	82,500	82,500	54.1	518.7	92,400	92,400	250		
260	43.6	483.6	63,100	63,100	48.5	501.5	78,500	78,500	51.8	510.9	90,200	91,700	260		
270	40.8	472.2	59,800	59,800	46.0	492.0	74,500	74,500	49.4	502.5	83,700	91,000	270		
280	37.8	459.6	56,700	56,700	43.3	481.5	70,700	70,700	46.9	493.3	77,600	88,300	280		
290	34.7	445.6	54,000	54,000	40.5	470.1	67,100	67,100	44.3	483.2	72,000	84,300	290		
300	31.2	429.6	51,700	51,700	37.6	457.4	63,800	63,800	41.6	472.1	66,700	80,500	300		
310	27.4	411.2	49,700	49,700	34.4	443.2	60,800	60,800	38.7	459.9	61,800	76,700	310		
320	22.9	389.0	48,400	48,400	30.9	427.1	58,100	58,100	35.6	446.3	57,100	73,100	320		
330	17.3	360.5	47,800	47,800	27.0	408.3	55,800	55,800	32.2	430.9	52,800	69,800	330		
340	8.5	313.8	47,800	47,800	22.4	385.8	54,200	54,200	28.4	413.2	48,600	66,900	340		
350					16.7	356.4	53,100	53,300	24.2	392.3	44,700	64,500	350		
360					7.2	305.7	48,700	50,200	19.0	365.9	40,900	62,600	360		
370									11.6	327.2	37,100	59,700	370		
380													380		
390													390		
400													400		
410													410		
420													420		
430													430		

MLC650 VPC-MAX S-3

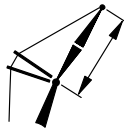
ASME B30.5



881,800 lb



262.5 ft

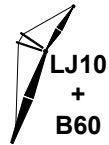


311.7 ft

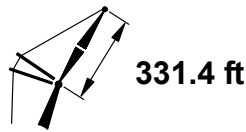
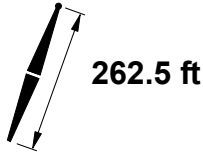
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215	64.4	542.5	87,600	87,600								215
220	63.3	540.0	87,600	87,600								220
230	61.2	534.6	83,600	87,600								230
240	59.1	528.6	76,800	87,600								240
250	56.9	522.2	70,600	87,600								250
260	54.7	515.2	64,800	87,600	59.5	522.6	46,400	80,100				260
270	52.4	507.6	59,500	87,600	57.3	516.2	41,800	80,100				270
280	50.0	499.3	54,500	87,600	55.1	509.3	37,400	80,100				280
290	47.5	490.3	49,900	87,600	52.8	501.8	33,400	80,100				290
300	44.9	480.4	45,500	87,600	50.4	493.7	29,700	80,100				300
310	42.2	469.6	41,500	87,600	48.0	484.8	26,200	80,100	53.0	493.6	73,300	310
320	39.4	457.6	37,600	87,600	45.4	475.1	22,900	80,100	50.7	485.5	73,300	320
330	36.3	444.4	34,000	87,600	42.7	464.4		80,100	48.2	476.7	73,300	330
340	33.0	429.5	30,600	87,600	39.9	452.7		80,100	45.7	467.1	73,300	340
350	29.4	412.4	27,400	85,700	36.9	439.7		80,100	43.0	456.6	73,300	350
360	25.2	392.3	24,200	82,500	33.6	425.1		80,100	40.2	445.0	72,800	360
370	20.3	367.5	21,200	79,300	30.0	408.5		78,200	37.2	432.2	69,100	370
380	13.7	333.1		67,800	26.0	389.0		74,500	34.0	417.8	65,700	380
390					21.3	365.3		71,000	30.5	401.4	62,400	390
400					15.1	333.4		67,600	26.5	382.3	59,300	400
410									21.9	359.1	56,300	410
420									15.9	328.5	53,400	420
430									4.9	269.2	50,400	430

MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
125	74.3	589.8	83,000	83,000									125
130	73.4	588.3	82,900	82,900									130
135	72.5	586.7	82,500	82,500									135
140	71.6	585.0	82,200	82,200									140
145	70.7	583.2	81,900	81,900	72.3	585.3	82,000	82,000					145
150	69.7	581.3	81,500	81,500	71.4	583.6	81,800	81,800					150
155	68.8	579.3	81,100	81,100	70.5	581.8	81,600	81,600					155
160	67.9	577.3	80,700	80,700	69.6	579.9	81,400	81,400					160
165	66.9	575.1	80,300	80,300	68.7	577.9	81,100	81,100					165
170	66.0	572.9	79,800	79,800	67.7	575.8	80,900	80,900					170
175	65.0	570.5	79,300	79,300	66.8	573.6	80,600	80,600	69.3	577.1	79,100	79,100	175
180	64.1	568.0	78,900	78,900	65.8	571.4	80,300	80,300	68.4	575.1	79,100	79,100	180
185	63.1	565.5	78,300	78,300	64.9	569.0	79,900	79,900	67.5	573.0	79,100	79,100	185
190	62.1	562.8	77,800	77,800	63.9	566.5	79,500	79,500	66.5	570.8	79,000	79,000	190
195	61.1	560.0	77,300	77,300	62.9	563.9	79,200	79,200	65.6	568.5	78,900	78,900	195
200	60.1	557.1	76,800	76,800	61.9	561.2	78,800	78,800	64.6	566.1	78,800	78,800	200
205	59.1	554.1	76,300	76,300	61.0	558.4	78,400	78,400	63.6	563.6	78,700	78,700	205
210	58.1	550.9	75,500	75,500	60.0	555.5	78,000	78,000	62.7	561.0	78,600	78,600	210
215	57.1	547.7	73,800	73,800	58.9	552.5	77,600	77,600	61.7	558.3	78,400	78,400	215
220	56.0	544.3	72,100	72,100	57.9	549.3	77,200	77,200	60.7	555.4	78,200	78,200	220
230	53.9	537.0	68,700	68,700	55.8	542.6	76,400	76,400	58.7	549.4	77,800	77,800	230
240	51.7	529.2	65,300	65,300	53.7	535.3	75,500	75,500	56.6	542.8	77,400	77,400	240
250	49.4	520.8	62,000	62,000	51.5	527.4	72,500	72,500	54.5	535.8	76,900	76,900	250
260	47.1	511.6	58,800	58,800	49.2	518.9	69,200	69,200	52.3	528.1	76,400	76,400	260
270	44.6	501.7	55,800	55,800	46.9	509.7	66,000	66,000	50.1	519.9	73,800	75,800	270
280	42.1	490.8	52,900	52,900	44.4	499.7	62,800	62,800	47.7	510.9	68,200	75,300	280
290	39.4	478.8	50,200	50,200	41.9	488.7	59,800	59,800	45.3	501.2	63,000	74,700	290
300	36.5	465.7	47,800	47,800	39.2	476.7	56,900	56,900	42.8	490.6	58,100	71,500	300
310	33.5	451.0	45,600	45,600	36.3	463.4	54,100	54,100	40.1	478.9	53,500	68,400	310
320	30.1	434.3	43,700	43,700	33.2	448.5	51,700	51,700	37.3	466.1	49,200	65,400	320
330	26.4	415.1	42,100	42,100	29.8	431.7	49,500	49,500	34.3	451.9	45,100	62,600	330
340	22.0	392.0	41,000	41,000	26.0	412.2	47,700	47,700	31.1	435.8	41,200	59,900	340
350	16.6	362.2	40,700	40,700	21.6	388.6	46,000	46,400	27.4	417.4	37,600	55,200	350
360	7.8	312.7	38,100	38,100	16.0	357.9	42,100	42,600	23.3	395.5	34,100	50,500	360
370					6.5	303.7	38,200	38,900	18.2	368.0	30,700	45,900	370
380									11.0	327.3	27,300	41,800	380
390													390
400													400
410													410
420													420
430													430
440													440
450													450

MLC650 VPC-MAX S-3

ASME B30.5



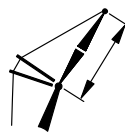
881,800 lb



360°



262.5 ft

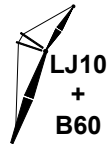


331.4 ft

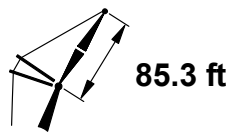
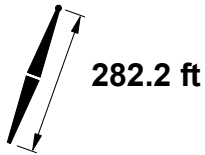
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220												220
230	63.1	557.0	73,000	73,000								230
240	61.1	551.5	72,600	73,000								240
250	59.1	545.6	66,400	73,000								250
260	57.1	539.2	60,700	73,000								260
270	55.0	532.3	55,400	73,000	59.5	539.5	66,300					270
280	52.8	524.7	50,400	73,000	57.5	533.2	66,300					280
290	50.6	516.6	45,900	73,000	55.4	526.4	66,300					290
300	48.3	507.8	41,600	73,000	53.2	519.0	66,300					300
310	45.9	498.3	37,500	73,000	51.0	511.0	66,300					310
320	43.4	487.9	33,800	73,000	48.7	502.3	66,300	53.4	510.8	60,000		320
330	40.8	476.5	30,200	73,000	46.3	492.9	66,300	51.2	502.8	60,000		330
340	38.0	464.0	26,800	73,000	43.9	482.7	66,300	49.0	494.2	60,000		340
350	35.1	450.1	23,600	68,600	41.3	471.5	66,300	46.6	484.9	60,000		350
360	31.8	434.5	20,600	63,900	38.5	459.2	66,300	44.1	474.8	60,000		360
370	28.3	416.7		59,000	35.6	445.6	66,300	41.6	463.7	60,000		370
380	24.3	395.8		54,200	32.4	430.3	66,200	38.8	451.5	60,000		380
390	19.5	369.9		49,300	29.0	412.9	61,500	35.9	438.1	59,300		390
400	13.0	333.9		44,900	25.1	392.7	56,800	32.8	423.0	56,200		400
410					20.5	367.9	51,900	29.4	405.9	53,300		410
420					14.4	334.5	47,500	25.5	386.0	50,400		420
430								21.0	361.9	47,700		430
440								15.2	329.8	45,100		440
450								3.8	264.6	42,400		450

MLC650 VPC-MAX S-3

ASME B30.5



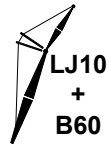
881,800 lb



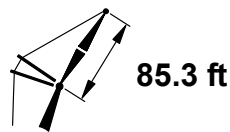
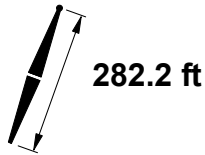
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	74.4	372.6	401,700 d	401,700 d									60
65	70.9	370.7	389,700 d	389,700 d									65
70	67.2	368.5	386,000 c	386,000 c									70
75	63.4	365.9	380,900 c	380,900 c	70.7	369.5	393,300 d	393,300 d					75
80	59.5	362.8	375,100 b	375,100 b	67.0	367.2	390,900 c	390,900 c					80
85	55.3	359.2	368,100 b	368,100 b	63.2	364.6	386,700 c	386,700 c					85
90	51.0	355.0	362,100 b	362,100 b	59.3	361.5	381,600 b	381,600 b					90
95	46.3	350.1	345,300	345,300	55.2	357.9	375,600 b	375,600 b	66.7	364.7	394,300 c	394,300 c	95
100	41.1	344.3	330,700	330,700	50.8	353.7	370,100 b	370,100 b	62.9	362.0	391,500 c	391,500 c	100
105	35.3	337.3	319,400	319,400	46.1	348.8	364,800	364,800	59.0	358.9	370,400 b	388,000 b	105
110	28.4	328.2	311,700	311,700	40.9	342.9	348,900	348,900	54.8	355.3	350,500 b	383,800 b	110
115	18.8	314.9	309,500	309,500	35.1	335.8	336,200	336,200	50.4	351.0	332,300 b	379,300 b	115
120					28.0	326.6	327,300	327,300	45.7	346.0	315,700	375,100	120
125					18.3	313.0	319,900	323,900	40.5	340.1	300,300	371,800	125
130									34.6	332.8	286,100	361,600	130
135									27.4	323.4	272,700	350,800	135
140									17.3	309.2	259,900	345,500	140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210

MLC650 VPC-MAX S-3

ASME B30.5



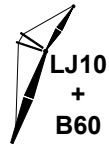
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	62.2	355.8	265,900 b	391,900 b									125
130	58.2	352.6	253,400 b	389,900 b									130
135	54.0	348.9	241,800 b	388,500 b									135
140	49.5	344.5	231,000 b	374,200 b									140
145	44.7	339.3	220,900	359,100									145
150	39.4	333.2	211,400	345,100									150
155	33.3	325.6	202,400	332,000	56.9	343.8	176,100 b	312,000 b					155
160	25.8	315.6	193,800	319,700	52.6	339.9	168,800 b	300,500 b					160
165	14.4	299.3	185,300	307,900	48.1	335.3	162,000 b	289,700 b					165
170					43.1	329.8	155,400	279,600					170
175					37.6	323.3	149,200	270,000					175
180					31.1	315.1	143,200	260,900	55.0	332.4	121,600	244,500	180
185					22.9	303.9	137,300	252,200	50.6	328.1	116,800	236,600	185
190					6.0	279.3	130,800	243,500	45.8	323.2	112,200	229,000	190
195									40.6	317.3	107,800	221,800	195
200									34.7	310.1	103,500	214,900	200
205									27.6	300.7	99,300	208,300	205
210									17.7	286.8	95,000	201,800	210

MLC650 VPC-MAX S-3

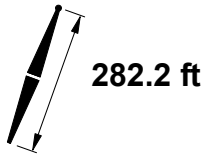
ASME B30.5



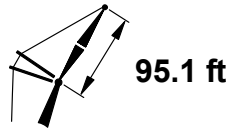
881,800 lb



360°



282.2 ft

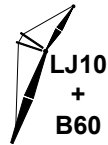


95.1 ft

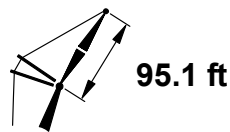
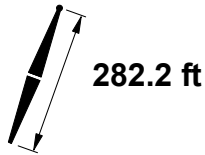
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	72.9	381.2	370,500 d	370,500 d									65
70	69.7	379.3	361,400 c	361,400 c									70
75	66.4	377.0	357,500 c	357,500 c	72.8	380.0	365,800 c	365,800 c					75
80	63.0	374.3	352,700 b	352,700 b	69.6	378.0	365,200 c	365,200 c					80
85	59.5	371.3	347,400 b	347,400 b	66.3	375.7	362,700 c	362,700 c					85
90	55.8	367.8	341,000 b	341,000 b	62.8	373.1	358,700 b	358,700 b					90
95	51.9	363.7	335,600	335,600	59.3	370.0	354,100 b	354,100 b	69.3	375.5	366,800 c	366,800 c	95
100	47.8	359.1	322,600	322,600	55.6	366.5	348,700 b	348,700 b	66.0	373.2	366,500 b	366,500 b	100
105	43.4	353.7	309,000	309,000	51.8	362.4	343,700	343,700	62.6	370.5	363,900 b	363,900 b	105
110	38.6	347.4	297,900	297,900	47.7	357.8	339,200	339,200	59.0	367.4	347,600 b	360,800 b	110
115	33.0	339.7	289,400	289,400	43.2	352.4	327,400	327,400	55.3	363.8	329,500 b	357,000 b	115
120	26.4	330.0	284,100	284,100	38.4	346.0	315,200	315,200	51.5	359.7	313,000	353,000	120
125	17.3	315.6	284,000	284,000	32.8	338.3	305,500	305,500	47.3	355.0	297,800	349,100	125
130					26.1	328.4	299,200	299,200	42.9	349.6	283,800	345,800	130
135					16.8	313.7	289,100	297,900	38.0	343.1	270,700	341,100	135
140									32.3	335.2	258,600	329,900	140
145									25.5	325.1	247,100	321,900	145
150									15.8	309.7	236,000	318,300	150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220

MLC650 VPC-MAX S-3

ASME B30.5



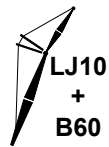
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	61.9	364.3	250,100 b	363,000 b									130
135	58.3	361.1	238,600 b	362,700 b									135
140	54.6	357.4	227,900 b	361,600 b									140
145	50.7	353.2	217,900	356,500									145
150	46.5	348.4	208,600	342,600									150
155	41.9	342.8	199,800	329,600									155
160	36.9	336.1	191,500	317,400	57.2	352.3	165,400	297,600					160
165	31.1	327.9	183,700	306,000	53.4	348.5	158,700	286,900					165
170	24.0	317.1	176,100	295,200	49.4	344.1	152,300	276,900					170
175	12.9	299.4	168,500	284,800	45.1	339.1	146,200	267,400					175
180					40.4	333.1	140,400	258,500					180
185					35.2	326.0	134,900	250,000					185
190					29.1	317.2	129,500	241,900	51.6	336.9	108,800	226,200	190
195					21.2	305.1	124,300	234,200	47.4	332.2	104,500	219,100	195
200									43.0	326.7	100,400	212,400	200
205									38.1	320.3	96,500	205,900	205
210									32.5	312.5	92,600	199,700	210
215									25.8	302.4	88,800	193,800	215
220									16.2	287.3	84,900	187,900	220

MLC650 VPC-MAX S-3

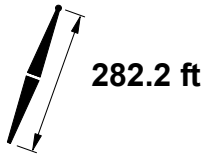
ASME B30.5



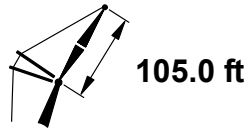
881,800 lb



360°



282.2 ft

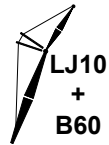


105.0 ft

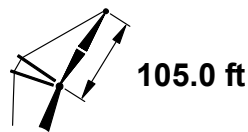
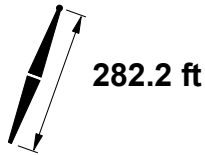
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	74.6	391.6	341,100 d	341,100 d									65
70	71.7	389.9	340,000 c	340,000 c									70
75	68.8	387.8	337,300 c	337,300 c									75
80	65.7	385.5	333,400 b	333,400 b	71.6	388.6	342,900 c	342,900 c					80
85	62.7	382.8	328,500 b	328,500 b	68.6	386.6	341,600 c	341,600 c					85
90	59.5	379.7	323,300 b	323,300 b	65.6	384.2	338,800 b	338,800 b					90
95	56.1	376.3	318,000	318,000	62.5	381.5	335,100 b	335,100 b					95
100	52.7	372.4	314,200	314,200	59.3	378.5	330,600 b	330,600 b	68.4	384.1	343,600 b	343,600 b	100
105	49.0	368.0	302,300	302,300	56.0	375.0	325,900	325,900	65.4	381.7	342,900 b	342,900 b	105
110	45.2	362.9	289,800	289,800	52.5	371.1	321,300	321,300	62.3	379.0	340,600 b	340,600 b	110
115	41.0	357.1	279,300	279,300	48.9	366.6	317,100	317,100	59.1	375.9	328,000 b	337,700 b	115
120	36.4	350.3	270,700	270,700	45.0	361.5	307,700	307,700	55.8	372.4	311,600	334,400	120
125	31.1	342.0	262,800	262,800	40.8	355.7	296,300	296,300	52.3	368.4	296,500	330,800	125
130	24.8	331.6	257,500	257,500	36.2	348.8	285,900	285,900	48.6	363.9	282,600	327,200	130
135	15.9	316.1	256,800	256,800	30.9	340.5	277,300	277,300	44.7	358.8	269,700	323,900	135
140					24.5	329.9	271,200	271,200	40.5	352.8	257,700	318,900	140
145					15.5	314.2	263,700	269,500	35.8	345.9	246,400	308,100	145
150									30.5	337.5	235,900	298,700	150
155									23.9	326.6	225,900	291,500	155
160									14.5	310.1	216,100	288,400	160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230

MLC650 VPC-MAX S-3

ASME B30.5



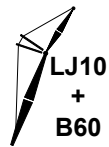
881,800 lb



	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	64.8	375.6	248,100 b	337,800 b									130
135	61.7	372.8	236,700 b	337,800 b									135
140	58.4	369.6	226,100	337,800									140
145	55.1	366.0	216,200	337,800									145
150	51.6	361.9	207,000	337,400									150
155	47.9	357.3	198,400	328,100									155
160	43.9	352.1	190,200	316,100									160
165	39.6	346.0	182,500	304,700	57.4	360.8	156,800	285,200					165
170	34.8	338.8	175,300	294,100	54.0	357.1	150,500	275,300					170
175	29.3	330.0	168,300	284,000	50.4	352.9	144,500	265,900					175
180	22.4	318.4	161,600	274,500	46.6	348.1	138,800	257,000					180
185	11.6	299.2	154,800	265,300	42.6	342.6	133,400	248,600					185
190					38.2	336.2	128,300	240,700					190
195					33.2	328.5	123,300	233,100	52.4	345.5	102,600	217,500	195
200					27.3	319.1	118,500	225,900	48.7	341.0	98,600	210,800	200
205					19.8	306.1	113,800	219,000	44.8	335.9	94,800	204,500	205
210									40.6	330.0	91,100	198,400	210
215									35.9	323.1	87,500	192,600	215
220									30.6	314.7	84,000	187,000	220
230									14.8	287.7	77,000	176,300	230

MLC650 VPC-MAX S-3

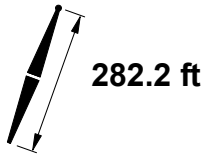
ASME B30.5



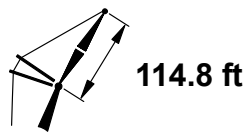
881,800 lb



360°



282.2 ft

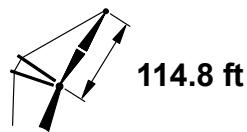
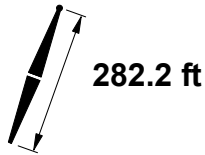
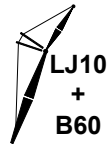


114.8 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.3	400.3	319,200 c	319,200 c									70
75	70.7	398.5	317,500 c	317,500 c									75
80	68.0	396.4	314,500 b	314,500 b									80
85	65.2	394.0	310,800 b	310,800 b	70.6	397.3	320,800 b	320,800 b					85
90	62.4	391.3	306,200 b	306,200 b	67.9	395.1	319,100 b	319,100 b					90
95	59.5	388.2	301,500	301,500	65.1	392.7	316,400 b	316,400 b					95
100	56.4	384.8	296,700	296,700	62.3	390.0	313,000 b	313,000 b					100
105	53.3	381.0	292,100	292,100	59.3	386.9	309,200	309,200	67.7	392.6	321,300 b	321,300 b	105
110	50.0	376.7	280,400	280,400	56.3	383.5	304,600	304,600	64.9	390.2	320,400 b	320,400 b	110
115	46.6	371.9	269,200	269,200	53.2	379.7	300,500	300,500	62.0	387.4	318,600 b	318,600 b	115
120	42.9	366.5	258,900	258,900	49.9	375.4	296,600	296,600	59.1	384.3	308,600	316,100	120
125	38.9	360.2	249,600	249,600	46.4	370.6	285,400	285,400	56.1	380.9	293,600	313,100	125
130	34.5	352.9	241,500	241,500	42.7	365.1	274,600	274,600	52.9	377.0	279,800	309,900	130
135	29.5	344.2	235,100	235,100	38.7	358.8	264,800	264,800	49.6	372.7	267,000	306,600	135
140	23.4	333.0	231,100	231,100	34.3	351.5	256,100	256,100	46.1	367.8	255,100	303,600	140
145	14.8	316.5	231,100	231,100	29.2	342.6	249,000	249,000	42.4	362.3	244,000	297,300	145
150					23.1	331.4	244,200	244,200	38.4	355.9	233,600	287,000	150
155					14.3	314.5	240,200	243,500	33.9	348.5	223,900	277,700	155
160									28.8	339.5	214,600	269,800	160
165									22.5	328.0	205,800	263,900	165
170									13.3	310.3	197,200	262,000	170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240

MLC650 VPC-MAX S-3

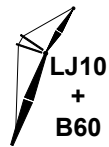
ASME B30.5



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	64.3	384.0	233,300	316,600									135
140	61.5	381.2	222,800	316,600									140
145	58.5	378.1	213,000	316,600									145
150	55.5	374.6	203,800	316,600									150
155	52.3	370.6	195,300	316,300									155
160	49.0	366.2	187,200	313,500									160
165	45.4	361.2	179,700	302,200									165
170	41.7	355.5	172,500	291,700	57.6	369.3	147,000	272,400					170
175	37.6	348.9	165,700	281,700	54.5	365.7	141,100	263,100					175
180	33.0	341.3	159,300	272,300	51.3	361.6	135,500	254,300					180
185	27.7	331.9	153,100	263,400	47.9	357.0	130,300	246,000					185
190	21.1	319.6	147,100	254,900	44.3	351.8	125,200	238,100					190
195	10.4	298.9	140,900	246,700	40.4	345.9	120,400	230,700					195
200					36.2	339.0	115,800	223,600	53.0	354.1	95,100	208,100	200
205					31.4	330.9	111,300	216,800	49.7	349.8	91,400	201,700	205
210					25.8	320.8	107,000	210,300	46.2	345.0	87,800	195,700	210
215					18.5	307.0	102,700	204,000	42.5	339.4	84,300	190,000	215
220									38.5	333.1	81,000	184,500	220
230									29.0	316.8	74,600	174,200	230
240									13.7	287.9	68,200	164,400	240

MLC650 VPC-MAX S-3

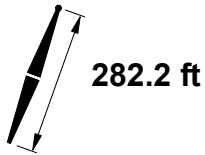
ASME B30.5



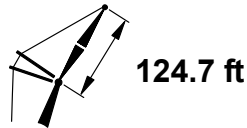
881,800 lb



360°



282.2 ft

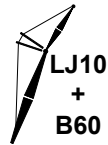


124.7 ft

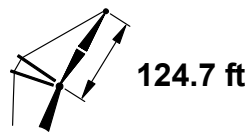
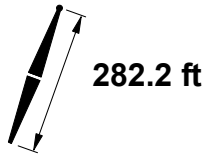
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.7	410.7	306,400 c	306,400 c									70
75	72.3	409.0	300,100 c	300,100 c									75
80	69.8	407.1	298,100 b	298,100 b									80
85	67.3	404.9	295,100 b	295,100 b	72.2	407.8	302,500 b	302,500 b					85
90	64.8	402.5	291,700 b	291,700 b	69.7	405.8	301,700 b	301,700 b					90
95	62.1	399.7	287,300	287,300	67.2	403.7	299,900 b	299,900 b					95
100	59.5	396.7	283,100	283,100	64.7	401.2	297,300 b	297,300 b					100
105	56.7	393.3	278,800	278,800	62.0	398.5	294,200	294,200	69.5	403.3	302,200 b	302,200 b	105
110	53.8	389.6	272,000	272,000	59.4	395.4	290,400	290,400	67.0	401.1	302,200 b	302,200 b	110
115	50.8	385.4	261,200	261,200	56.6	392.0	286,600	286,600	64.5	398.7	301,600	301,600	115
120	47.7	380.8	250,900	250,900	53.7	388.3	282,900	282,900	61.8	395.9	300,000	300,000	120
125	44.4	375.6	241,300	241,300	50.7	384.1	277,300	277,300	59.1	392.8	293,800	297,600	125
130	40.9	369.8	232,500	232,500	47.6	379.5	266,900	266,900	56.4	389.4	280,000	295,000	130
135	37.1	363.2	224,700	224,700	44.3	374.3	256,900	256,900	53.5	385.6	267,300	292,200	135
140	32.8	355.4	217,900	217,900	40.7	368.4	247,600	247,600	50.5	381.4	255,400	289,200	140
145	28.0	346.2	212,700	212,700	36.9	361.7	239,200	239,200	47.3	376.7	244,400	286,400	145
150	22.1	334.4	209,700	209,700	32.6	354.0	231,900	231,900	44.0	371.5	234,100	279,500	150
155	13.7	316.8	209,700	209,700	27.8	344.6	226,000	226,000	40.4	365.6	224,500	269,900	155
160					21.8	332.7	222,200	222,200	36.6	358.8	215,400	260,900	160
165					13.3	314.7	222,200	222,200	32.3	350.9	206,900	252,800	165
170									27.4	341.5	198,700	246,100	170
175									21.3	329.3	190,900	241,300	175
180									12.3	310.3	183,200	240,200	180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240
250													250

MLC650 VPC-MAX S-3

ASME B30.5



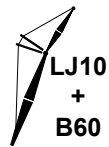
881,800 lb



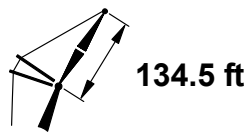
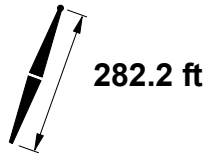
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	64.0	392.5	222,800	296,900									140
145	61.3	389.7	213,000	296,900									145
150	58.6	386.6	203,900	296,900									150
155	55.8	383.1	195,400	296,900									155
160	52.9	379.2	187,400	296,900									160
165	49.9	374.9	179,900	296,900									165
170	46.7	370.2	172,800	291,600									170
175	43.3	364.8	166,200	281,700	57.7	377.8	141,200	262,900					175
180	39.7	358.7	159,800	272,300	54.9	374.2	135,600	254,100					180
185	35.8	351.8	153,800	263,500	52.0	370.3	130,400	245,900					185
190	31.4	343.6	148,000	255,200	48.9	365.8	125,400	238,100					190
195	26.3	333.7	142,400	247,200	45.7	360.9	120,700	230,600					195
200	19.9	320.7	137,000	239,600	42.2	355.3	116,200	223,600					200
205	9.4	298.3	131,400	232,200	38.5	349.0	111,800	216,900	53.6	362.8	91,400	201,600	205
210					34.5	341.7	107,600	210,500	50.6	358.6	87,900	195,700	210
215					29.9	333.1	103,600	204,400	47.4	353.9	84,500	190,000	215
220					24.5	322.4	99,700	198,500	44.1	348.7	81,200	184,500	220
230									36.7	336.0	75,100	174,300	230
240									27.5	318.8	69,200	164,900	240
250									12.6	288.1	63,300	156,000	250

MLC650 VPC-MAX S-3

ASME B30.5



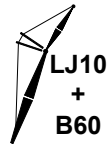
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	73.6	419.4	280,500 b	280,500 b									75
80	71.4	417.6	279,300 b	279,300 b									80
85	69.1	415.6	277,300 b	277,300 b									85
90	66.8	413.4	274,600 b	274,600 b	71.3	416.4	281,900 b	281,900 b					90
95	64.4	410.9	271,500	271,500	69.0	414.4	281,000 b	281,000 b					95
100	62.0	408.2	268,100	268,100	66.7	412.2	279,300	279,300					100
105	59.5	405.2	263,900	263,900	64.3	409.7	277,000	277,000					105
110	56.9	401.8	260,100	260,100	61.9	406.9	274,300	274,300	68.8	411.9	281,800	281,800	110
115	54.3	398.2	252,500	252,500	59.4	403.9	271,300	271,300	66.5	409.6	281,800	281,800	115
120	51.5	394.1	242,800	242,800	56.8	400.6	267,700	267,700	64.1	407.1	281,000	281,000	120
125	48.7	389.6	233,400	233,400	54.2	396.9	264,400	264,400	61.7	404.4	279,600	279,600	125
130	45.7	384.7	224,600	224,600	51.4	392.8	258,500	258,500	59.2	401.3	277,100	277,800	130
135	42.5	379.2	216,400	216,400	48.6	388.3	249,000	249,000	56.6	397.9	264,400	275,600	135
140	39.1	373.0	208,900	208,900	45.6	383.3	239,800	239,800	53.9	394.2	252,600	273,200	140
145	35.4	365.9	202,300	202,300	42.4	377.8	231,200	231,200	51.2	390.1	241,700	270,600	145
150	31.4	357.8	196,700	196,700	39.0	371.6	223,300	223,300	48.3	385.6	231,500	268,200	150
155	26.7	348.0	192,500	192,500	35.3	364.5	216,100	216,100	45.3	380.6	221,900	262,000	155
160	21.0	335.6	190,300	190,300	31.2	356.3	210,000	210,000	42.1	375.0	212,900	253,100	160
165	12.8	317.0	190,300	190,300	26.5	346.5	205,100	205,100	38.7	368.7	204,500	244,600	165
170					20.7	333.9	202,100	202,100	35.0	361.6	196,500	236,900	170
175					12.3	314.8	202,100	202,100	30.9	353.3	188,900	230,000	175
180									26.1	343.3	181,700	224,300	180
185									20.2	330.4	174,700	220,400	185
190									11.4	310.2	167,800	219,900	190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240
250													250
260													260

MLC650 VPC-MAX S-3

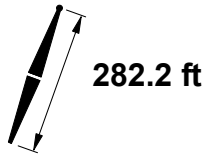
ASME B30.5



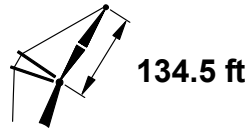
881,800 lb



360°



282.2 ft

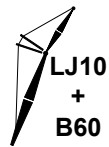


134.5 ft

	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	63.6	401.0	209,700	276,800									145
150	61.2	398.2	200,700	276,800									150
155	58.7	395.1	192,200	276,800									155
160	56.1	391.6	184,300	276,800									160
165	53.4	387.8	176,800	276,800									165
170	50.6	383.7	169,800	276,800									170
175	47.7	379.0	163,200	276,700									175
180	44.7	373.9	156,900	269,900	57.9	386.3	132,200	251,400					180
185	41.5	368.2	151,000	261,200	55.3	382.8	127,100	243,200					185
190	38.0	361.8	145,300	252,900	52.6	378.9	122,100	235,400					190
195	34.2	354.4	139,900	245,000	49.8	374.6	117,500	228,000					195
200	30.0	345.8	134,700	237,500	46.8	369.8	113,000	221,100					200
205	25.1	335.4	129,700	230,300	43.7	364.5	108,800	214,400					205
210	18.8	321.7	124,800	223,500	40.4	358.6	104,700	208,100	54.0	371.3	84,400	192,900	210
215	8.3	297.6	119,700	216,800	36.9	351.9	100,800	202,000	51.3	367.2	81,100	187,300	215
220					32.9	344.2	97,000	196,200	48.4	362.7	77,900	181,900	220
230					23.3	323.9	89,800	185,400	42.2	352.2	71,900	171,800	230
240									35.1	338.8	66,300	162,500	240
250									26.2	320.6	60,900	153,900	250
260									11.7	288.0	55,400	145,700	260

MLC650 VPC-MAX S-3

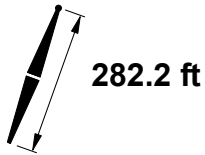
ASME B30.5



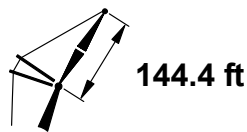
881,800 lb



360°



282.2 ft

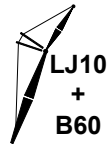


144.4 ft

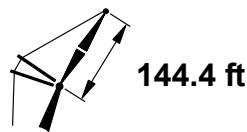
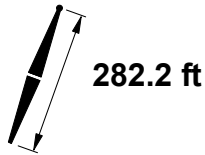
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	74.8	429.7	263,800 b	263,800 b									75
80	72.7	428.1	263,300 b	263,300 b									80
85	70.6	426.2	261,900 b	261,900 b									85
90	68.4	424.2	259,800	259,800	72.6	426.9	265,000 b	265,000 b					90
95	66.3	421.9	257,300	257,300	70.5	425.0	264,800	264,800					95
100	64.0	419.4	254,500	254,500	68.4	423.0	263,700	263,700					100
105	61.8	416.7	251,400	251,400	66.2	420.7	262,100	262,100					105
110	59.5	413.7	247,500	247,500	64.0	418.2	260,000	260,000					110
115	57.1	410.3	244,000	244,000	61.7	415.4	257,500	257,500	68.2	420.5	264,700	264,700	115
120	54.6	406.7	234,900	234,900	59.4	412.4	254,500	254,500	66.0	418.2	264,700	264,700	120
125	52.1	402.8	226,000	226,000	57.0	409.1	251,600	251,600	63.8	415.6	264,000	264,000	125
130	49.5	398.4	217,500	217,500	54.5	405.4	248,600	248,600	61.5	412.8	262,700	262,700	130
135	46.7	393.7	209,400	209,400	52.0	401.5	241,400	241,400	59.2	409.8	261,100	261,100	135
140	43.9	388.4	201,800	201,800	49.4	397.1	232,700	232,700	56.8	406.4	250,700	259,100	140
145	40.8	382.5	194,800	194,800	46.6	392.3	224,400	224,400	54.3	402.8	239,800	257,100	145
150	37.5	376.0	188,400	188,400	43.7	387.0	216,400	216,400	51.8	398.8	229,700	254,800	150
155	34.0	368.6	182,800	182,800	40.7	381.2	208,900	208,900	49.2	394.4	220,100	252,600	155
160	30.1	360.0	178,200	178,200	37.4	374.6	202,100	202,100	46.4	389.6	211,200	246,100	160
165	25.5	349.8	174,700	174,700	33.8	367.1	196,000	196,000	43.5	384.2	202,800	237,900	165
170	20.0	336.8	173,100	173,100	29.9	358.5	190,700	190,700	40.4	378.3	194,900	230,000	170
175	11.9	317.0	173,100	173,100	25.3	348.2	186,700	186,700	37.1	371.7	187,400	222,600	175
180					19.7	335.0	184,400	184,400	33.6	364.2	180,300	215,900	180
185					11.4	314.7	184,400	184,400	29.6	355.4	173,600	209,900	185
190									25.0	345.0	167,100	205,100	190
195									19.2	331.5	160,900	201,900	195
200									10.5	310.0	154,600	201,900	200
205													205
210													210
215													215
220													220
230													230
240													240
250													250
260													260
270													270

MLC650 VPC-MAX S-3

ASME B30.5



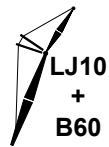
881,800 lb



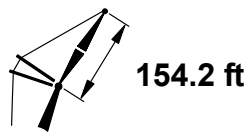
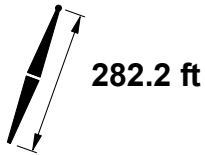
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	63.3	409.5	198,500	259,500									150
155	61.1	406.7	190,100	259,500									155
160	58.7	403.5	182,200	259,500									160
165	56.3	400.1	174,800	259,500									165
170	53.9	396.4	167,800	259,500									170
175	51.3	392.3	161,200	259,500									175
180	48.6	387.9	155,000	259,500									180
185	45.9	383.0	149,100	259,500	58.0	394.8	124,900	241,300					185
190	42.9	377.5	143,500	251,200	55.6	391.3	120,000	233,600					190
195	39.8	371.5	138,200	243,400	53.1	387.5	115,400	226,300					195
200	36.5	364.7	133,100	236,000	50.5	383.3	111,000	219,300					200
205	32.8	357.0	128,200	228,900	47.8	378.7	106,800	212,700					205
210	28.7	347.9	123,500	222,100	45.0	373.6	102,700	206,400					210
215	23.9	337.0	119,000	215,700	42.0	368.0	98,900	200,400	54.4	379.9	78,900	185,500	215
220	17.9	322.6	114,500	209,500	38.8	361.8	95,200	194,700	51.9	375.9	75,700	180,100	220
230					31.6	346.6	88,200	183,900	46.5	366.7	69,800	170,100	230
240					22.2	325.3	81,600	174,000	40.5	355.5	64,300	160,900	240
250									33.7	341.4	59,100	152,500	250
260									25.1	322.3	54,200	144,500	260
270									10.8	287.9	49,100	137,000	270

MLC650 VPC-MAX S-3

ASME B30.5



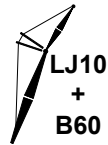
881,800 lb



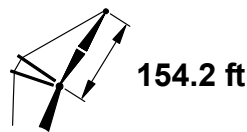
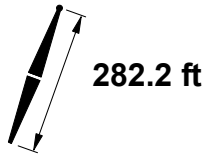
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	73.8	438.4	247,600 b	247,600 b									80
85	71.9	436.7	246,800	246,800									85
90	69.9	434.9	245,400	245,400									90
95	67.9	432.8	243,400	243,400	71.8	435.5	248,800	248,800					95
100	65.8	430.4	241,100	241,100	69.8	433.6	248,400	248,400					100
105	63.8	427.9	238,500	238,500	67.8	431.5	247,300	247,300					105
110	61.6	425.1	235,700	235,700	65.8	429.2	245,800	245,800					110
115	59.5	422.1	232,200	232,200	63.7	426.7	243,800	243,800	69.7	431.1	247,800	247,800	115
120	57.2	418.8	226,900	226,900	61.5	423.9	241,700	241,700	67.6	429.0	247,800	247,800	120
125	55.0	415.3	218,600	218,600	59.4	420.9	239,300	239,300	65.6	426.7	247,800	247,800	125
130	52.6	411.4	210,500	210,500	57.2	417.6	236,300	236,300	63.5	424.1	247,700	247,700	130
135	50.2	407.2	202,700	202,700	54.9	414.0	233,700	233,700	61.4	421.3	246,600	246,600	135
140	47.6	402.5	195,300	195,300	52.5	410.1	225,500	225,500	59.2	418.3	245,200	245,200	140
145	45.0	397.5	188,300	188,300	50.1	405.8	217,600	217,600	57.0	414.9	237,000	243,600	145
150	42.2	391.9	181,700	181,700	47.5	401.2	209,900	209,900	54.7	411.3	226,900	241,800	150
155	39.3	385.8	175,700	175,700	44.9	396.1	202,500	202,500	52.3	407.4	217,400	239,800	155
160	36.1	378.9	170,300	170,300	42.1	390.5	195,600	195,600	49.9	403.1	208,500	237,800	160
165	32.7	371.1	165,600	165,600	39.2	384.4	189,100	189,100	47.3	398.5	200,200	231,200	165
170	28.9	362.2	161,700	161,700	36.0	377.5	183,200	183,200	44.7	393.4	192,300	223,600	170
175	24.5	351.4	158,900	158,900	32.6	369.7	178,000	178,000	41.9	387.7	184,900	216,300	175
180	19.1	337.8	157,800	157,800	28.7	360.6	173,600	173,600	38.9	381.5	177,900	209,300	180
185	11.1	316.9	157,800	157,800	24.3	349.8	170,300	170,300	35.7	374.5	171,200	202,900	185
190					18.8	336.0	168,500	168,500	32.3	366.6	164,900	197,000	190
195					10.6	314.5	168,500	168,500	28.4	357.5	158,800	191,900	195
200									23.9	346.5	153,000	187,800	200
205									18.4	332.4	147,400	185,300	205
210									9.7	309.6	141,700	185,300	210
215													215
220													220
230													230
240													240
250													250
260													260
270													270
280													280

MLC650 VPC-MAX S-3

ASME B30.5



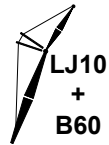
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155	63.1	418.0	186,800	243,200									155
160	61.0	415.1	179,000	243,200									160
165	58.8	412.0	171,600	243,200									165
170	56.5	408.7	164,700	243,200									170
175	54.2	405.0	158,200	243,200									175
180	51.9	401.0	152,000	243,200									180
185	49.4	396.6	146,200	243,200									185
190	46.8	391.9	140,600	243,200	58.1	403.3	116,600	230,900					190
195	44.1	386.7	135,400	241,000	55.8	399.9	112,100	223,600					195
200	41.3	381.0	130,300	233,600	53.5	396.1	107,700	216,700					200
205	38.3	374.6	125,500	226,600	51.1	392.0	103,600	210,100					205
210	35.1	367.5	121,000	219,900	48.6	387.5	99,600	203,900					210
215	31.5	359.4	116,500	213,500	46.0	382.6	95,800	197,900					215
220	27.6	349.9	112,300	207,400	43.3	377.3	92,200	192,200	54.8	388.5	72,300	177,400	220
230	17.0	323.4	104,100	195,900	37.3	364.8	85,300	181,600	50.0	380.3	66,500	167,500	230
240					30.4	348.9	78,900	171,800	44.8	370.5	61,100	158,400	240
250					21.3	326.6	72,900	162,700	39.0	358.7	56,100	150,000	250
260									32.4	343.9	51,300	142,200	260
270									24.1	323.9	46,800	135,000	270
280									10.0	287.5	42,100	127,900	280

MLC650 VPC-MAX S-3

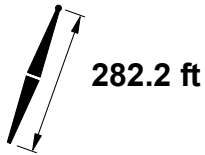
ASME B30.5



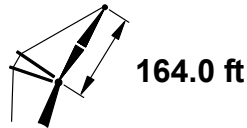
881,800 lb



360°



282.2 ft

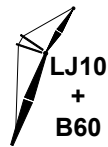


164.0 ft

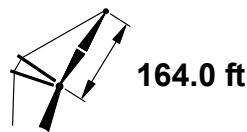
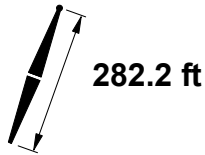
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	74.8	448.8	233,300 b	233,300 b									80
85	73.0	447.2	233,000	233,000									85
90	71.2	445.4	232,000	232,000									90
95	69.3	443.4	230,500	230,500	72.9	446.0	234,100	234,100					95
100	67.4	441.3	228,700	228,700	71.1	444.2	234,100	234,100					100
105	65.5	439.0	226,500	226,500	69.2	442.2	233,600	233,600					105
110	63.5	436.4	224,100	224,100	67.3	440.1	232,500	232,500					110
115	61.5	433.6	221,100	221,100	65.4	437.7	231,100	231,100					115
120	59.5	430.6	218,300	218,300	63.4	435.2	229,300	229,300	69.1	439.7	233,100	233,100	120
125	57.4	427.3	211,900	211,900	61.4	432.4	227,400	227,400	67.2	437.5	233,100	233,100	125
130	55.2	423.8	204,400	204,400	59.4	429.3	225,300	225,300	65.2	435.2	233,100	233,100	130
135	53.0	420.0	197,000	197,000	57.3	426.1	222,600	222,600	63.3	432.6	232,900	232,900	135
140	50.8	415.8	189,800	189,800	55.2	422.5	219,000	219,000	61.3	429.8	232,000	232,000	140
145	48.4	411.4	183,000	183,000	53.0	418.7	211,500	211,500	59.2	426.7	230,800	230,800	145
150	46.0	406.5	176,500	176,500	50.7	414.5	204,300	204,300	57.1	423.5	226,100	229,300	150
155	43.4	401.1	170,300	170,300	48.3	410.0	197,100	197,100	55.0	419.9	216,700	227,700	155
160	40.8	395.3	164,600	164,600	45.9	405.1	190,300	190,300	52.8	416.0	207,800	226,100	160
165	37.9	388.8	159,400	159,400	43.3	399.8	183,800	183,800	50.5	411.8	199,500	224,300	165
170	34.8	381.7	154,700	154,700	40.6	393.9	177,700	177,700	48.2	407.3	191,700	217,900	170
175	31.5	373.5	150,600	150,600	37.8	387.4	172,100	172,100	45.7	402.4	184,300	210,900	175
180	27.8	364.2	147,300	147,300	34.7	380.2	166,900	166,900	43.1	397.0	177,400	204,100	180
185	23.5	353.0	145,100	145,100	31.4	372.0	162,300	162,300	40.4	391.1	170,800	197,500	185
190	18.3	338.8	144,300	144,300	27.7	362.6	158,600	158,600	37.6	384.5	164,500	191,400	190
195	10.4	316.7	144,300	144,300	23.3	351.4	155,800	155,800	34.5	377.3	158,500	185,700	195
200					18.0	337.0	154,400	154,400	31.1	369.0	152,800	180,500	200
205					9.9	314.2	154,400	154,400	27.3	359.5	147,400	176,000	205
210									23.0	348.0	142,100	172,400	210
215									17.5	333.3	137,000	170,300	215
220									8.9	309.1	131,700	170,300	220
230													230
240													240
250													250
260													260
270													270
280													280
290													290

MLC650 VPC-MAX S-3

ASME B30.5



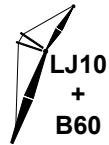
881,800 lb



ft	75°				70°				65°				ft
	ft	°	ft	lb	lb	ft	°	ft	lb	lb	ft	°	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155	64.9	429.1	185,800	226,200									155
160	62.9	426.4	178,000	226,200									160
165	60.9	423.6	170,700	226,200									165
170	58.8	420.5	163,800	226,200									170
175	56.7	417.2	157,300	226,200									175
180	54.6	413.5	151,100	226,200									180
185	52.3	409.6	145,300	226,200									185
190	50.1	405.4	139,800	226,200									190
195	47.7	400.8	134,600	226,200	58.2	411.8	111,000	219,000					195
200	45.2	395.7	129,600	226,200	56.0	408.4	106,700	215,800					200
205	42.6	390.3	124,900	225,900	53.9	404.7	102,600	209,200					205
210	39.9	384.2	120,300	219,200	51.6	400.6	98,600	203,000					210
215	37.0	377.6	116,000	212,900	49.3	396.3	94,900	197,100					215
220	33.8	370.1	111,800	206,800	46.9	391.6	91,300	191,400					220
230	26.5	351.8	103,900	195,500	41.8	380.8	84,500	180,800	52.8	393.1	65,400	166,600	230
240	16.2	324.1	96,400	185,000	36.0	367.6	78,300	171,100	48.2	384.4	60,100	157,500	240
250					29.2	351.1	72,400	162,200	43.2	374.1	55,200	149,200	250
260					20.4	327.8	66,800	153,800	37.6	361.7	50,600	141,500	260
270									31.2	346.3	46,200	134,300	270
280									23.1	325.4	42,000	127,600	280
290									9.3	287.1	37,600	121,100	290

MLC650 VPC-MAX S-3

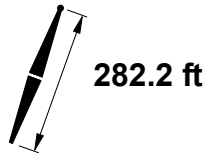
ASME B30.5



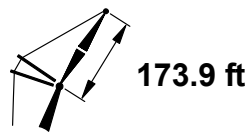
881,800 lb



360°



282.2 ft

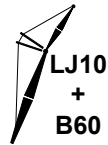


173.9 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	74.0	457.5	219,200	219,200									85
90	72.3	455.9	218,700	218,700									90
95	70.5	454.0	217,700	217,700									95
100	68.7	452.0	216,200	216,200	72.2	454.6	220,000	220,000					100
105	67.0	449.8	214,500	214,500	70.5	452.8	219,900	219,900					105
110	65.1	447.5	212,500	212,500	68.7	450.8	219,300	219,300					110
115	63.3	444.9	210,400	210,400	66.9	448.6	218,300	218,300					115
120	61.4	442.1	208,000	208,000	65.1	446.2	217,000	217,000					120
125	59.5	439.1	204,500	204,500	63.2	443.6	215,400	215,400	68.5	448.3	218,900	218,900	125
130	57.5	435.8	197,600	197,600	61.3	440.8	213,700	213,700	66.7	446.1	218,900	218,900	130
135	55.5	432.3	190,700	190,700	59.4	437.8	211,800	211,800	64.9	443.7	218,900	218,900	135
140	53.4	428.6	184,000	184,000	57.4	434.6	209,300	209,300	63.1	441.1	218,700	218,700	140
145	51.3	424.5	177,400	177,400	55.4	431.1	204,900	204,900	61.2	438.3	218,000	218,000	145
150	49.1	420.1	171,200	171,200	53.3	427.3	198,100	198,100	59.2	435.2	216,900	216,900	150
155	46.8	415.4	165,200	165,200	51.2	423.2	191,500	191,500	57.3	432.0	213,900	215,700	155
160	44.5	410.2	159,500	159,500	49.0	418.8	185,000	185,000	55.3	428.4	205,100	214,300	160
165	42.0	404.7	154,200	154,200	46.8	414.0	178,700	178,700	53.2	424.6	196,800	212,900	165
170	39.4	398.5	149,200	149,200	44.4	408.9	172,700	172,700	51.1	420.5	189,000	211,400	170
175	36.6	391.8	144,800	144,800	41.9	403.3	166,900	166,900	48.9	416.1	181,700	205,100	175
180	33.7	384.3	140,700	140,700	39.3	397.1	161,700	161,700	46.6	411.3	174,800	198,700	180
185	30.4	375.8	137,300	137,300	36.5	390.4	156,700	156,700	44.2	406.1	168,200	192,400	185
190	26.8	366.1	134,500	134,500	33.6	382.8	152,200	152,200	41.7	400.5	162,000	186,300	190
195	22.7	354.5	132,700	132,700	30.3	374.3	148,400	148,400	39.1	394.3	156,100	180,600	195
200	17.5	339.6	132,300	132,300	26.7	364.5	145,100	145,100	36.3	387.5	150,400	175,100	200
205	9.6	316.3	132,300	132,300	22.5	352.8	142,800	142,800	33.3	379.9	145,000	170,100	205
210					17.3	337.8	141,900	141,900	30.0	371.3	139,900	165,600	210
215					9.2	313.8	141,900	141,900	26.4	361.4	134,900	161,700	215
220									22.1	349.4	130,100	158,700	220
230									8.2	308.4	120,600	157,000	230
240													240
250													250
260													260
270													270
280													280
290													290
300													300

MLC650 VPC-MAX S-3

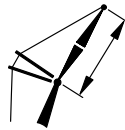
ASME B30.5



881,800 lb



282.2 ft

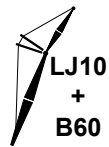


173.9 ft

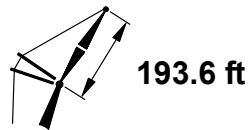
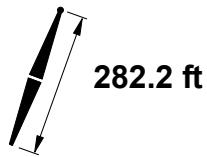
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160	64.5	437.6	174,700	211,900									160
165	62.7	434.9	167,400	211,900									165
170	60.8	432.1	160,600	211,900									170
175	58.9	429.0	154,200	211,900									175
180	56.9	425.7	148,100	211,900									180
185	54.9	422.1	142,300	211,900									185
190	52.8	418.2	136,800	211,900									190
195	50.6	414.1	131,600	211,900									195
200	48.4	409.6	126,700	211,900	58.2	420.3	103,400	204,300					200
205	46.1	404.7	122,000	211,900	56.3	416.9	99,300	204,300					205
210	43.7	399.4	117,500	211,900	54.2	413.2	95,400	200,400					210
215	41.2	393.7	113,200	210,600	52.1	409.3	91,700	194,500					215
220	38.6	387.4	109,100	204,600	49.9	405.0	88,200	188,900					220
230	32.7	372.7	101,400	193,300	45.4	395.4	81,500	178,400					230
240	25.6	353.6	94,200	183,000	40.4	384.1	75,300	168,800	51.1	397.6	56,800	154,900	240
250	15.5	324.7	87,200	173,300	34.8	370.4	69,600	159,900	46.6	388.5	51,900	146,700	250
260					28.2	353.1	64,200	151,700	41.8	377.6	47,400	139,100	260
270					19.6	328.9	59,100	144,000	36.4	364.7	43,200	132,000	270
280									30.1	348.5	39,200	125,400	280
290									22.3	326.8	35,300	119,100	290
300									8.5	286.5	31,100	113,100	300

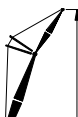
MLC650 VPC-MAX S-3

ASME B30.5



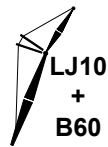
881,800 lb



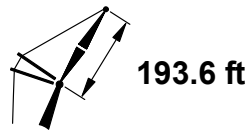
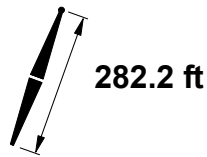
	 85°					 83°					 80°					
	 ft	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 ft		
90	74.1	476.6	192,600	192,600											90	
95	72.6	474.9	192,300	192,300											95	
100	71.0	473.2	191,600	191,600											100	
105	69.4	471.2	190,700	190,700	72.5	473.7	193,000	193,000							105	
110	67.8	469.2	189,500	189,500	71.0	472.0	193,000	193,000							110	
115	66.2	466.9	188,100	188,100	69.4	470.0	192,800	192,800							115	
120	64.6	464.5	186,500	186,500	67.8	467.9	192,200	192,200							120	
125	62.9	461.8	184,900	184,900	66.1	465.7	191,400	191,400							125	
130	61.2	459.0	182,700	182,700	64.5	463.2	190,400	190,400	69.2	467.5	191,400	191,400			130	
135	59.5	456.0	179,000	179,000	62.8	460.6	189,200	189,200	67.6	465.4	191,400	191,400			135	
140	57.7	452.8	173,300	173,300	61.1	457.8	187,900	187,900	66.0	463.1	191,400	191,400			140	
145	55.9	449.4	167,700	167,700	59.4	454.8	186,500	186,500	64.4	460.7	191,400	191,400			145	
150	54.1	445.7	162,100	162,100	57.6	451.6	185,000	185,000	62.7	458.0	191,400	191,400			150	
155	52.2	441.8	156,600	156,600	55.8	448.1	180,700	180,700	61.0	455.2	191,300	191,300			155	
160	50.3	437.6	151,400	151,400	54.0	444.4	175,100	175,100	59.3	452.2	190,600	190,600			160	
165	48.3	433.1	146,200	146,200	52.1	440.5	169,700	169,700	57.5	448.9	189,700	189,700			165	
170	46.2	428.2	141,400	141,400	50.2	436.3	164,300	164,300	55.7	445.5	185,400	188,800			170	
175	44.1	423.0	136,700	136,700	48.2	431.7	159,000	159,000	53.9	441.8	178,200	187,800			175	
180	41.8	417.4	132,400	132,400	46.1	426.9	153,800	153,800	52.0	437.8	171,300	186,800			180	
185	39.5	411.3	128,300	128,300	44.0	421.7	148,900	148,900	50.0	433.6	164,800	183,000			185	
190	37.0	404.7	124,600	124,600	41.8	416.0	144,200	144,200	48.0	429.0	158,600	177,600			190	
195	34.4	397.4	121,100	121,100	39.4	409.9	139,700	139,700	46.0	424.1	152,800	172,300			195	
200	31.6	389.3	118,200	118,200	36.9	403.2	135,600	135,600	43.8	418.9	147,200	167,200			200	
205	28.5	380.2	115,600	115,600	34.3	395.9	131,800	131,800	41.6	413.2	142,000	162,200			205	
210	25.1	369.7	113,600	113,600	31.5	387.8	128,400	128,400	39.2	407.1	136,900	157,300			210	
215	21.1	357.2	112,400	112,400	28.4	378.6	125,500	125,500	36.8	400.3	132,100	152,700			215	
220	16.1	341.1	112,400	112,400	25.0	368.1	123,100	123,100	34.1	393.0	127,400	148,400			220	
230					15.9	339.2	121,000	121,000	28.2	375.5	118,700	141,000			230	
240									20.6	352.0	110,600	135,800			240	
250									6.7	306.4	102,500	134,700			250	
260															260	
270															270	
280															280	
290															290	
300															300	
310															310	
320															320	

MLC650 VPC-MAX S-3

ASME B30.5



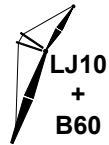
881,800 lb



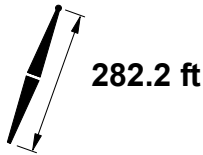
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170	64.0	454.6	156,300	185,100									170
175	62.4	451.9	149,900	185,100									175
180	60.7	449.0	143,900	185,100									180
185	58.9	446.0	138,200	185,100									185
190	57.1	442.7	132,800	185,100									190
195	55.3	439.2	127,700	185,100									195
200	53.5	435.4	122,800	185,100									200
205	51.6	431.4	118,200	185,100									205
210	49.6	427.1	113,700	185,100	58.4	437.3	91,000	177,000					210
215	47.6	422.5	109,500	185,100	56.6	433.9	87,400	177,000					215
220	45.5	417.5	105,500	185,100	54.8	430.3	83,900	177,000					220
230	41.1	406.4	97,900	185,100	51.0	422.4	77,400	175,000					230
240	36.2	393.3	90,900	180,200	47.0	413.3	71,400	165,500					240
250	30.7	377.4	84,400	170,700	42.7	402.8	65,800	156,800	52.0	414.9	47,500	143,200	250
260	23.9	356.9	78,300	162,000	38.0	390.4	60,600	148,700	48.1	406.2	43,200	135,700	260
270	14.2	325.7	72,400	153,800	32.7	375.6	55,800	141,200	43.9	396.0	39,100	128,700	270
280					26.4	357.0	51,200	134,200	39.3	384.2	35,300	122,200	280
290					18.2	330.9	46,700	127,500	34.2	370.2	31,600	116,100	290
300									28.2	352.8	28,200	110,500	300
310									20.7	329.4	24,800	105,100	310
320									7.1	284.8	21,100	99,700	320

MLC650 VPC-MAX S-3

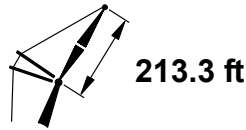
ASME B30.5



881,800 lb



282.2 ft

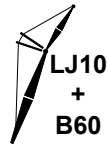


213.3 ft

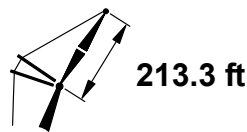
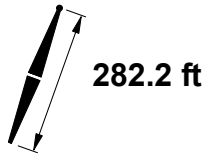
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95	74.2	495.6	170,600	170,600									95
100	72.8	494.0	170,400	170,400									100
105	71.4	492.3	169,900	169,900									105
110	70.0	490.4	169,200	169,200	72.8	492.8	170,800	170,800					110
115	68.5	488.4	168,300	168,300	71.4	491.1	170,800	170,800					115
120	67.1	486.2	167,200	167,200	69.9	489.2	170,800	170,800					120
125	65.6	483.9	166,000	166,000	68.5	487.2	170,400	170,400					125
130	64.1	481.5	164,400	164,400	67.0	485.0	169,900	169,900					130
135	62.6	478.8	162,900	162,900	65.5	482.7	169,100	169,100	69.8	486.7	168,800	168,800	135
140	61.0	476.0	161,300	161,300	64.0	480.2	168,300	168,300	68.4	484.7	168,800	168,800	140
145	59.5	473.0	156,600	156,600	62.5	477.6	167,300	167,300	66.9	482.5	168,800	168,800	145
150	57.9	469.8	151,900	151,900	61.0	474.7	166,200	166,200	65.4	480.2	168,800	168,800	150
155	56.3	466.4	147,100	147,100	59.4	471.7	165,100	165,100	63.9	477.7	168,800	168,800	155
160	54.6	462.8	142,500	142,500	57.8	468.5	163,500	163,500	62.4	475.0	168,800	168,800	160
165	52.9	459.0	137,900	137,900	56.2	465.1	159,200	159,200	60.9	472.2	168,800	168,800	165
170	51.2	454.9	133,500	133,500	54.5	461.5	154,600	154,600	59.3	469.1	168,600	168,600	170
175	49.4	450.6	129,200	129,200	52.8	457.7	150,000	150,000	57.7	465.9	167,900	167,900	175
180	47.6	446.0	125,000	125,000	51.1	453.6	145,400	145,400	56.1	462.5	167,200	167,200	180
185	45.7	441.0	121,100	121,100	49.3	449.3	141,000	141,000	54.4	458.9	161,300	166,500	185
190	43.7	435.8	117,200	117,200	47.5	444.6	136,700	136,700	52.7	455.0	155,200	165,600	190
195	41.7	430.1	113,700	113,700	45.6	439.7	132,400	132,400	51.0	450.9	149,400	162,800	195
200	39.6	424.1	110,300	110,300	43.7	434.4	128,400	128,400	49.2	446.6	143,900	158,300	200
205	37.4	417.5	107,200	107,200	41.6	428.8	124,400	124,400	47.4	441.9	138,600	153,900	205
210	35.0	410.4	104,200	104,200	39.5	422.7	120,800	120,800	45.5	437.0	133,600	149,500	210
215	32.5	402.5	101,700	101,700	37.3	416.1	117,400	117,400	43.5	431.6	128,900	145,200	215
220	29.9	393.9	99,400	99,400	34.9	408.9	114,100	114,100	41.5	425.9	124,300	141,000	220
230	23.6	372.9	96,100	96,100	29.7	392.4	108,600	108,600	37.1	413.2	115,700	133,200	230
240	15.0	342.3	95,300	95,300	23.5	371.3	104,600	104,600	32.2	398.1	107,900	126,100	240
250					14.7	340.4	103,400	103,400	26.5	379.4	100,500	120,300	250
260									19.3	354.3	93,600	116,400	260
270									5.3	303.3	86,600	115,700	270
280													280
290													290
300													300
310													310
320													320
330													330
340													340

MLC650 VPC-MAX S-3

ASME B30.5



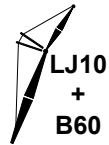
881,800 lb



	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180	63.6	471.5	139,700	163,200									180
185	62.1	468.8	134,100	163,200									185
190	60.5	466.0	128,700	163,200									190
195	59.0	462.9	123,600	163,200									195
200	57.4	459.7	118,800	163,200									200
205	55.7	456.2	114,200	163,200									205
210	54.1	452.5	109,900	163,200									210
215	52.4	448.6	105,700	163,200									215
220	50.6	444.5	101,700	163,200	58.5	454.2	79,600	155,100					220
230	47.0	435.4	94,300	163,200	55.2	447.4	73,200	155,100					230
240	43.1	424.9	87,400	163,200	51.8	439.7	67,300	155,100					240
250	38.9	412.9	81,000	163,000	48.3	430.9	61,800	153,500					250
260	34.3	398.9	75,100	155,000	44.5	421.0	56,800	145,500	52.8	432.1	38,800	132,200	260
270	29.0	381.8	69,600	147,700	40.4	409.6	52,100	138,100	49.2	423.7	34,800	125,300	270
280	22.5	359.9	64,400	141,300	35.9	396.3	47,600	131,200	45.5	414.1	31,100	118,900	280
290	13.1	326.4	59,200	136,800	30.9	380.4	43,500	124,800	41.5	403.1	27,600	113,000	290
300					24.9	360.6	39,500	118,700	37.2	390.4	24,400	107,400	300
310					16.9	332.7	35,600	113,000	32.3	375.3	21,200	102,100	310
320									26.6	356.7		97,200	320
330									19.4	331.7		92,500	330
340									5.8	282.1		87,700	340

MLC650 VPC-MAX S-3

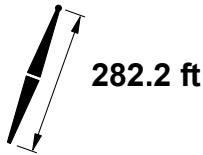
ASME B30.5



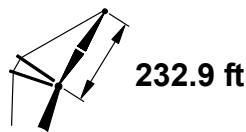
881,800 lb



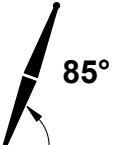
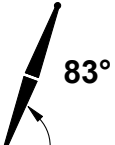
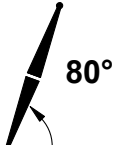
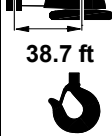
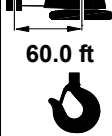
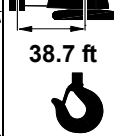
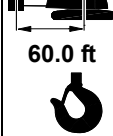
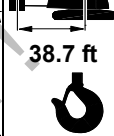
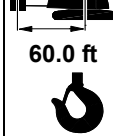
360°



282.2 ft

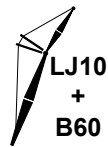


232.9 ft

 85°					 83°					 80°					
															
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft		
100	74.3	514.7	151,300	151,300									100		
105	73.0	513.1	151,200	151,200									105		
110	71.8	511.4	150,800	150,800									110		
115	70.4	509.6	150,300	150,300	73.0	511.9	151,000	151,000					115		
120	69.1	507.6	149,600	149,600	71.7	510.2	151,000	151,000					120		
125	67.8	505.5	148,900	148,900	70.4	508.4	151,000	151,000					125		
130	66.4	503.3	148,000	148,000	69.1	506.4	151,000	151,000					130		
135	65.1	501.0	147,000	147,000	67.7	504.3	150,600	150,600					135		
140	63.7	498.4	145,900	145,900	66.4	502.1	150,100	150,100					140		
145	62.3	495.8	144,600	144,600	65.0	499.7	149,600	149,600	69.0	503.9	149,000	149,000	145		
150	60.9	492.9	142,000	142,000	63.7	497.2	148,900	148,900	67.6	501.8	149,000	149,000	150		
155	59.5	490.0	138,000	138,000	62.3	494.5	148,100	148,100	66.3	499.6	149,000	149,000	155		
160	58.0	486.8	134,100	134,100	60.8	491.7	147,200	147,200	64.9	497.2	149,000	149,000	160		
165	56.5	483.4	130,100	130,100	59.4	488.7	146,400	146,400	63.5	494.6	149,000	149,000	165		
170	55.0	479.9	126,300	126,300	58.0	485.5	145,300	145,300	62.1	492.0	149,000	149,000	170		
175	53.5	476.1	122,400	122,400	56.5	482.2	141,400	141,400	60.7	489.1	149,000	149,000	175		
180	51.9	472.2	118,700	118,700	55.0	478.6	137,500	137,500	59.3	486.1	148,900	148,900	180		
185	50.3	468.0	115,000	115,000	53.4	474.9	133,600	133,600	57.8	482.9	148,500	148,500	185		
190	48.7	463.6	111,500	111,500	51.9	470.9	129,800	129,800	56.4	479.5	148,400	148,400	190		
195	47.0	458.9	108,000	108,000	50.3	466.7	126,000	126,000	54.8	476.0	147,000	147,400	195		
200	45.2	453.9	104,700	104,700	48.6	462.2	122,300	122,300	53.3	472.2	141,500	146,800	200		
205	43.4	448.5	101,600	101,600	46.9	457.5	118,700	118,700	51.7	468.2	136,300	145,800	205		
210	41.6	442.9	98,600	98,600	45.2	452.5	115,200	115,200	50.1	464.0	131,300	142,000	210		
215	39.7	436.8	95,800	95,800	43.4	447.2	111,800	111,800	48.5	459.5	126,600	138,400	215		
220	37.6	430.3	93,100	93,100	41.5	441.5	108,600	108,600	46.8	454.8	122,100	134,700	220		
230	33.3	415.7	88,400	88,400	37.6	428.9	102,500	102,500	43.2	444.4	113,600	127,400	230		
240	28.3	398.2	84,700	84,700	33.2	414.2	97,300	97,300	39.4	432.6	105,800	120,500	240		
250	22.3	375.9	82,200	82,200	28.2	396.6	93,000	93,000	35.3	418.9	98,600	114,100	250		
260	13.9	343.3	81,800	81,800	22.2	374.3	89,900	89,900	30.6	402.8	92,000	108,500	260		
270					13.7	341.3	89,100	89,100	25.1	383.0	85,700	103,900	270		
280									18.1	356.3	79,700	100,900	280		
290									3.6	298.4	73,500	99,300	290		
300													300		
310													310		
320													320		
330													330		
340													340		
350													350		
360													360		

MLC650 VPC-MAX S-3

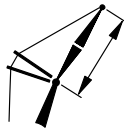
ASME B30.5



881,800 lb



282.2 ft

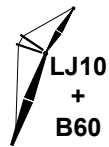


232.9 ft

	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185	64.7	491.1	131,100	141,700								185
190	63.3	488.5	125,800	141,700								190
195	61.9	485.8	120,700	141,700								195
200	60.5	482.9	115,900	141,700								200
205	59.0	479.9	111,400	141,700								205
210	57.6	476.7	107,100	141,700								210
215	56.1	473.2	102,900	141,700								215
220	54.5	469.6	99,000	141,700								220
230	51.4	461.8	91,600	141,700	58.6	471.2	70,100	134,300				230
240	48.1	453.0	84,800	141,700	55.6	464.5	64,300	134,300				240
250	44.7	443.1	78,600	141,700	52.5	456.9	58,900	134,300				250
260	41.0	431.9	72,800	141,700	49.3	448.5	53,900	134,300				260
270	37.0	419.1	67,400	141,300	45.9	439.0	49,300	134,300	53.3	449.3	122,800	270
280	32.6	404.1	62,300	134,700	42.3	428.2	45,000	129,000	50.2	441.1	116,500	280
290	27.5	386.0	57,600	128,600	38.4	416.0	41,000	122,700	46.8	431.9	110,600	290
300	21.2	362.7	53,000	123,500	34.1	401.8	37,200	116,700	43.3	421.6	105,100	300
310	12.0	326.7	48,500	120,400	29.3	384.9	33,500	111,200	39.5	409.8	99,900	310
320					23.6	363.8	30,100	105,900	35.3	396.2	95,100	320
330					15.8	334.1	26,600	100,800	30.7	380.1	90,500	330
340									25.2	360.3	86,200	340
350									18.2	333.8	82,000	350
360									4.3	278.1	77,800	360

MLC650 VPC-MAX S-3

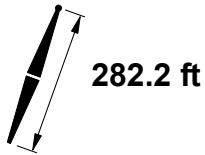
ASME B30.5



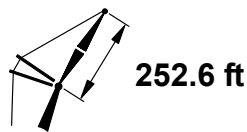
881,800 lb



360°



282.2 ft

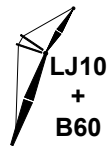


252.6 ft

	85°				83°				80°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
105	74.4	533.7	133,600	133,600									105
110	73.2	532.2	133,500	133,500									110
115	72.0	530.5	133,100	133,100									115
120	70.8	528.7	132,700	132,700									120
125	69.6	526.8	132,300	132,300	72.0	529.3	133,200	133,200					125
130	68.4	524.8	131,600	131,600	70.8	527.5	133,200	133,200					130
135	67.2	522.7	130,800	130,800	69.6	525.6	133,100	133,100					135
140	65.9	520.4	130,000	130,000	68.3	523.6	132,900	132,900					140
145	64.7	518.0	129,000	129,000	67.1	521.4	132,500	132,500					145
150	63.4	515.4	128,000	128,000	65.9	519.1	132,100	132,100	69.5	523.1	130,800	130,800	150
155	62.1	512.7	127,000	127,000	64.6	516.7	131,600	131,600	68.2	521.1	130,800	130,800	155
160	60.8	509.9	124,300	124,300	63.3	514.2	131,000	131,000	67.0	518.9	130,800	130,800	160
165	59.5	506.9	120,900	120,900	62.0	511.5	130,200	130,200	65.8	516.6	130,800	130,800	165
170	58.1	503.8	117,700	117,700	60.7	508.6	129,500	129,500	64.5	514.2	130,800	130,800	170
175	56.8	500.4	114,400	114,400	59.4	505.6	128,600	128,600	63.2	511.6	130,800	130,800	175
180	55.4	497.0	111,100	111,100	58.1	502.5	127,800	127,800	61.9	508.9	130,800	130,800	180
185	54.0	493.3	107,900	107,900	56.7	499.2	124,600	124,600	60.6	506.1	130,800	130,800	185
190	52.5	489.4	104,700	104,700	55.3	495.7	121,400	121,400	59.3	503.1	130,800	130,800	190
195	51.1	485.3	101,600	101,600	53.9	492.0	118,100	118,100	58.0	499.9	130,600	130,600	195
200	49.6	481.0	98,600	98,600	52.5	488.1	114,900	114,900	56.6	496.5	130,600	130,600	200
205	48.1	476.5	95,600	95,600	51.0	484.0	111,800	111,800	55.2	493.0	129,700	129,700	205
210	46.5	471.7	92,800	92,800	49.5	479.7	108,600	108,600	53.8	489.3	127,600	129,600	210
215	44.9	466.7	90,000	90,000	48.0	475.2	105,600	105,600	52.4	485.4	122,900	129,000	215
220	43.2	461.3	87,400	87,400	46.4	470.4	102,500	102,500	50.9	481.3	118,400	126,400	220
230	39.7	449.6	82,600	82,600	43.1	459.9	96,800	96,800	47.9	472.5	110,000	120,300	230
240	35.9	436.2	78,300	78,300	39.6	448.2	91,500	91,500	44.7	462.5	102,300	114,100	240
250	31.7	420.7	74,600	74,600	35.9	434.8	86,700	86,700	41.3	451.4	95,200	108,100	250
260	27.0	402.2	71,800	71,800	31.7	419.2	82,600	82,600	37.6	438.8	88,600	102,600	260
270	21.2	378.7	70,000	70,000	26.9	400.6	79,200	79,200	33.7	424.4	82,500	97,400	270
280	13.0	344.0	69,800	69,800	21.0	377.0	76,900	76,900	29.2	407.3	76,800	93,000	280
290					12.8	341.9	76,500	76,500	23.9	386.4	71,300	89,300	290
300									17.1	358.1	66,200	87,100	300
310													310
320													320
330													330
340													340
350													350
360													360
370													370
380													380

MLC650 VPC-MAX S-3

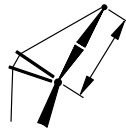
ASME B30.5



881,800 lb



282.2 ft

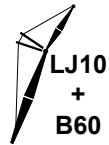


252.6 ft

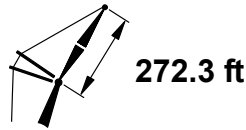
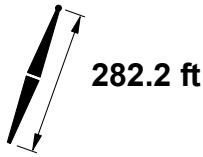
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb
105												
110												
115												
120												
125												
130												
135												
140												
145												
150												
155												
160												
165												
170												
175												
180												
185												
190												
195	64.3	508.1	116,400	124,100								
200	63.0	505.5	111,600	124,100								
205	61.7	502.8	107,100	124,100								
210	60.4	499.9	102,800	124,100								
215	59.1	496.8	98,700	124,100								
220	57.7	493.6	94,800	124,100								
230	54.9	486.7	87,500	124,100								
240	52.1	479.0	80,800	124,100	58.6	488.2	59,800	114,900				
250	49.1	470.5	74,600	124,100	55.9	481.5	54,500	114,900				
260	46.0	461.1	68,900	124,100	53.1	474.1	49,600	114,900				
270	42.7	450.4	63,600	124,100	50.1	465.9	45,100	114,900				
280	39.1	438.5	58,700	124,100	47.1	456.7	40,900	114,900	53.8	466.4	108,100	
290	35.3	424.8	54,000	121,900	43.8	446.6	36,900	114,900	50.9	458.5	107,100	
300	31.0	408.9	49,700	116,500	40.4	435.1	33,200	113,600	47.9	449.6	101,700	
310	26.1	389.8	45,500	111,500	36.7	422.1	29,700	108,100	44.7	439.7	96,600	
320	20.1	365.2	41,500	107,400	32.6	407.0	26,400	102,900	41.3	428.6	91,800	
330	11.1	326.8	37,500	102,700	27.9	389.2	23,200	98,000	37.7	416.0	87,300	
340					22.4	366.8	20,200	93,400	33.7	401.6	83,100	
350					14.9	335.3		88,900	29.2	384.6	79,000	
360									24.0	363.7	75,200	
370									17.2	335.6	71,500	
380									2.1	269.8	67,600	

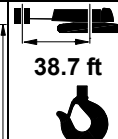
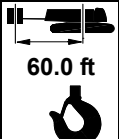
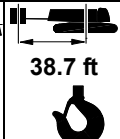
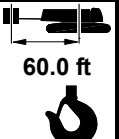
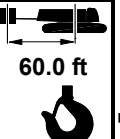
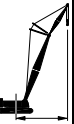
MLC650 VPC-MAX S-3

ASME B30.5



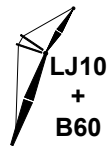
881,800 lb



 85°					 83°				 80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
110	74.5	552.8	118,600	118,600									110
115	73.4	551.2	118,500	118,500									115
120	72.3	549.6	118,100	118,100									120
125	71.2	547.8	117,600	117,600									125
130	70.0	546.0	117,200	117,200	72.2	548.4	118,200	118,200					130
135	68.9	544.0	116,600	116,600	71.1	546.6	118,100	118,100					135
140	67.8	541.9	115,900	115,900	70.0	544.8	117,900	117,900					140
145	66.6	539.7	115,200	115,200	68.9	542.8	117,600	117,600					145
150	65.5	537.4	114,400	114,400	67.7	540.7	117,300	117,300					150
155	64.3	535.0	113,500	113,500	66.6	538.5	116,900	116,900	69.9	542.3	115,600	115,600	155
160	63.1	532.4	112,700	112,700	65.4	536.2	116,400	116,400	68.8	540.3	115,600	115,600	160
165	61.9	529.7	111,800	111,800	64.2	533.7	115,900	115,900	67.6	538.2	115,600	115,600	165
170	60.7	526.9	109,100	109,100	63.1	531.2	115,300	115,300	66.5	536.0	115,600	115,600	170
175	59.5	523.9	106,300	106,300	61.9	528.4	114,600	114,600	65.3	533.7	115,600	115,600	175
180	58.2	520.7	103,600	103,600	60.6	525.6	114,000	114,000	64.1	531.2	115,600	115,600	180
185	57.0	517.4	100,800	100,800	59.4	522.6	113,300	113,300	63.0	528.6	115,600	115,600	185
190	55.7	514.0	98,100	98,100	58.2	519.5	112,500	112,500	61.8	525.9	115,600	115,600	190
195	54.4	510.4	95,400	95,400	56.9	516.2	110,100	110,100	60.6	523.0	115,600	115,600	195
200	53.1	506.6	92,700	92,700	55.6	512.7	107,400	107,400	59.3	520.0	115,500	115,500	200
205	51.7	502.6	90,000	90,000	54.3	509.1	104,700	104,700	58.1	516.9	115,200	115,200	205
210	50.4	498.4	87,500	87,500	53.0	505.3	102,000	102,000	56.8	513.6	114,800	114,800	210
215	49.0	494.0	85,000	85,000	51.7	501.3	99,300	99,300	55.5	510.1	114,400	114,400	215
220	47.5	489.4	82,500	82,500	50.3	497.1	96,700	96,700	54.2	506.4	114,000	114,000	220
230	44.6	479.4	77,900	77,900	47.5	488.1	91,500	91,500	51.6	498.6	107,600	112,700	230
240	41.4	468.4	73,700	73,700	44.5	478.1	86,600	86,600	48.8	490.0	100,000	107,500	240
250	38.1	455.9	69,700	69,700	41.3	467.0	81,900	81,900	45.9	480.5	93,000	102,300	250
260	34.4	441.8	66,400	66,400	38.0	454.5	77,700	77,700	42.8	469.9	86,500	97,300	260
270	30.4	425.4	63,500	63,500	34.3	440.4	73,900	73,900	39.6	458.1	80,400	92,400	270
280	25.8	405.9	61,300	61,300	30.3	424.0	70,600	70,600	36.1	444.8	74,800	87,900	280
290	20.2	381.2	60,100	60,100	25.7	404.4	68,000	68,000	32.2	429.5	69,500	83,800	290
300	12.1	344.4	60,000	60,000	20.0	379.5	66,300	66,300	27.9	411.5	64,600	80,200	300
310					11.9	342.3	66,000	66,000	22.8	389.5	59,800	77,300	310
320									16.2	359.7	55,300	75,700	320
330													330
340													340
350													350
360													360
370													370
380													380
390													390

MLC650 VPC-MAX S-3

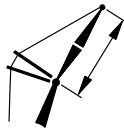
ASME B30.5



881,800 lb



282.2 ft

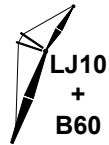


272.3 ft

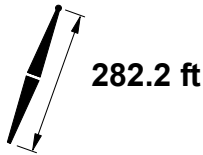
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205	63.9	525.1	104,100	109,800								205
210	62.7	522.5	99,900	109,800								210
215	61.5	519.7	95,800	109,800								215
220	60.3	516.8	92,000	109,800								220
230	57.8	510.6	84,700	109,800								230
240	55.3	503.8	78,100	109,800								240
250	52.7	496.2	72,000	109,800	58.7	505.1	51,500	101,300				250
260	49.9	488.0	66,300	109,800	56.2	498.5	46,700	101,300				260
270	47.1	478.8	61,100	109,800	53.6	491.2	42,200	101,300				270
280	44.1	468.7	56,200	109,800	50.9	483.2	38,100	101,300				280
290	40.9	457.4	51,700	109,800	48.1	474.4	34,200	101,300	54.3	483.6	94,400	290
300	37.5	444.7	47,400	109,800	45.1	464.6	30,500	101,300	51.6	475.7	94,400	300
310	33.8	430.3	43,400	105,700	42.0	453.7	27,100	101,300	48.8	467.1	94,300	310
320	29.7	413.5	39,600	101,200	38.7	441.6	23,900	100,900	45.9	457.6	89,500	320
330	25.0	393.4	35,900	97,200	35.1	427.8	20,900	96,100	42.9	447.1	85,100	330
340	19.1	367.5	32,400	93,900	31.2	411.9		91,500	39.6	435.3	80,900	340
350	10.3	326.7	28,900	87,400	26.7	393.1		87,200	36.1	422.0	76,900	350
360					21.3	369.6		83,100	32.3	406.7	73,200	360
370					14.0	336.3		79,200	28.0	388.8	69,600	370
380									22.9	366.9	66,200	380
390									16.3	337.2	62,900	390

MLC650 VPC-MAX S-3

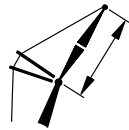
ASME B30.5



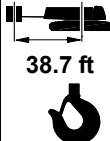
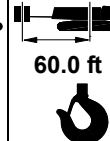
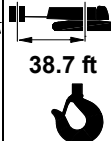
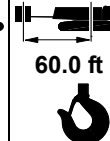
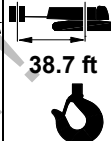
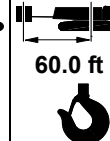
881,800 lb



282.2 ft



292.0 ft

85°					83°					80°						
ft	°	ft	38.7 ft lb	60.0 ft lb		°	ft	38.7 ft lb	60.0 ft lb		°	ft	38.7 ft lb	60.0 ft lb	ft	
115	74.5	571.8	103,600	103,600												115
120	73.5	570.3	103,500	103,500												120
125	72.5	568.7	103,100	103,100												125
130	71.4	567.0	102,700	102,700												130
135	70.4	565.1	102,200	102,200		72.4	567.5	102,900	102,900							135
140	69.3	563.2	101,700	101,700		71.4	565.7	102,800	102,800							140
145	68.3	561.2	101,100	101,100		70.4	563.9	102,600	102,600							145
150	67.2	559.1	100,500	100,500		69.3	562.0	102,400	102,400							150
155	66.1	556.8	99,900	99,900		68.2	560.0	102,300	102,300							155
160	65.1	554.5	99,200	99,200		67.2	557.8	101,700	101,700							160
165	64.0	552.0	98,500	98,500		66.1	555.6	101,300	101,300		69.2	559.5	100,500	100,500		165
170	62.9	549.4	97,800	97,800		65.0	553.2	100,900	100,900		68.2	557.5	100,500	100,500		170
175	61.7	546.7	97,000	97,000		63.9	550.7	100,400	100,400		67.1	555.3	100,500	100,500		175
180	60.6	543.8	95,200	95,200		62.8	548.1	99,900	99,900		66.0	553.1	100,500	100,500		180
185	59.5	540.8	92,800	92,800		61.7	545.4	99,400	99,400		64.9	550.7	100,500	100,500		185
190	58.3	537.7	90,500	90,500		60.6	542.5	98,800	98,800		63.8	548.2	100,500	100,500		190
195	57.1	534.4	88,200	88,200		59.4	539.6	98,200	98,200		62.7	545.6	100,400	100,400		195
200	56.0	531.0	86,000	86,000		58.3	536.4	97,600	97,600		61.6	542.8	100,300	100,300		200
205	54.7	527.5	83,700	83,700		57.1	533.2	96,600	96,600		60.5	540.0	100,100	100,100		205
210	53.5	523.7	81,400	81,400		55.9	529.7	94,400	94,400		59.3	537.0	99,800	99,800		210
215	52.3	519.8	79,200	79,200		54.7	526.2	92,200	92,200		58.2	533.8	99,500	99,500		215
220	51.0	515.7	77,000	77,000		53.5	522.4	89,900	89,900		57.0	530.5	99,200	99,200		220
230	48.4	507.0	72,800	72,800		51.0	514.4	85,400	85,400		54.6	523.5	98,500	98,500		230
240	45.7	497.4	68,900	68,900		48.4	505.7	81,100	81,100		52.1	515.9	96,000	97,700		240
250	42.8	486.8	65,100	65,100		45.6	496.1	76,900	76,900		49.6	507.5	89,000	95,400		250
260	39.8	475.1	61,700	61,700		42.8	485.4	72,900	72,900		46.9	498.2	82,600	91,100		260
270	36.6	462.0	58,700	58,700		39.7	473.7	69,200	69,200		44.1	488.1	76,600	86,800		270
280	33.1	447.1	55,900	55,900		36.5	460.5	65,800	65,800		41.2	476.9	71,000	82,700		280
290	29.2	429.9	53,700	53,700		33.0	445.6	62,700	62,700		38.0	464.4	65,800	78,800		290
300	24.7	409.5	52,000	52,000		29.1	428.4	60,100	60,100		34.6	450.4	60,900	75,100		300
310	19.2	383.5	51,100	51,100		24.6	407.9	58,100	58,100		30.9	434.4	56,300	71,800		310
320	11.3	344.6	51,100	51,100		19.1	381.8	56,800	56,800		26.7	415.5	52,000	69,000		320
330						11.1	342.4	56,600	56,600		21.8	392.4	47,800	66,700		330
340											15.4	361.1	43,800	65,400		340
350																350
360																360
370																370
380																380
390																390
400																400
410																410

MLC650 VPC-MAX S-3

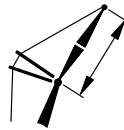
ASME B30.5



881,800 lb



282.2 ft

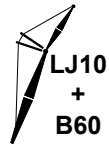


292.0 ft

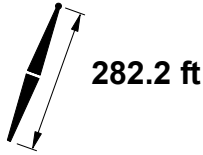
ft	75°				70°				65°				ft
	ft	°	ft	lb	lb	ft	lb	lb	ft	°	ft	lb	
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210	64.7	544.6	94,000	94,000									210
215	63.6	542.1	91,300	94,000									215
220	62.5	539.4	87,500	94,000									220
230	60.3	533.8	80,300	94,000									230
240	57.9	527.6	73,700	94,000									240
250	55.6	520.8	67,700	94,000									250
260	53.1	513.4	62,100	94,000	58.7	522.1	42,100	86,400					260
270	50.6	505.3	56,900	94,000	56.4	515.5	37,700	86,400					270
280	48.0	496.4	52,100	94,000	54.0	508.3	33,600	86,400					280
290	45.2	486.7	47,600	94,000	51.5	500.5	29,700	86,400					290
300	42.4	475.9	43,400	94,000	48.9	491.9	26,200	86,400	54.6	500.6	79,500		300
310	39.3	464.0	39,400	94,000	46.2	482.5	22,800	86,400	52.2	493.0	79,500		310
320	36.0	450.7	35,700	94,000	43.4	472.1		86,400	49.6	484.6	79,500		320
330	32.5	435.5	32,100	91,300	40.4	460.6		86,400	46.9	475.4	79,500		330
340	28.5	417.9	28,800	87,700	37.2	447.7		86,400	44.1	465.3	77,500		340
350	23.9	396.8	25,600	84,500	33.7	433.2		84,000	41.2	454.1	73,500		350
360	18.2	369.6	22,400	81,900	29.9	416.6		80,000	38.1	441.6	69,800		360
370	9.5	326.2		72,400	25.6	396.8		76,200	34.7	427.6	66,300		370
380					20.4	372.2		72,500	31.0	411.6	63,000		380
390					13.2	337.1		69,000	26.8	392.8	59,800		390
400									21.9	369.8	56,700		400
410									15.5	338.6	53,800		410

MLC650 VPC-MAX S-3

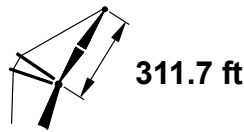
ASME B30.5



881,800 lb



282.2 ft



311.7 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
120	74.6	590.8	89,000	89,000									120
125	73.6	589.3	88,800	88,800									125
130	72.7	587.8	88,600	88,600									130
135	71.7	586.1	88,300	88,300									135
140	70.7	584.3	87,900	87,900	72.6	586.5	88,200	88,200					140
145	69.7	582.4	87,600	87,600	71.6	584.9	88,100	88,100					145
150	68.7	580.4	87,100	87,100	70.7	583.1	88,000	88,000					150
155	67.7	578.3	86,700	86,700	69.7	581.2	87,800	87,800					155
160	66.7	576.2	86,200	86,200	68.7	579.2	87,600	87,600					160
165	65.7	573.9	85,700	85,700	67.7	577.1	87,300	87,300					165
170	64.7	571.5	85,200	85,200	66.7	574.9	87,000	87,000	69.6	578.7	85,800	85,800	170
175	63.7	569.0	84,600	84,600	65.7	572.6	86,700	86,700	68.6	576.7	85,800	85,800	175
180	62.6	566.4	84,000	84,000	64.7	570.2	86,300	86,300	67.6	574.6	85,800	85,800	180
185	61.6	563.6	83,500	83,500	63.6	567.7	86,000	86,000	66.6	572.4	85,800	85,800	185
190	60.5	560.8	82,900	82,900	62.6	565.1	85,600	85,600	65.6	570.1	85,800	85,800	190
195	59.5	557.8	81,500	81,500	61.6	562.4	85,100	85,100	64.6	567.7	85,800	85,800	195
200	58.4	554.7	79,600	79,600	60.5	559.5	84,700	84,700	63.6	565.2	85,800	85,800	200
205	57.3	551.4	77,700	77,700	59.4	556.5	84,200	84,200	62.5	562.5	85,600	85,600	205
210	56.2	548.0	75,900	75,900	58.3	553.4	83,800	83,800	61.5	559.8	85,500	85,500	210
215	55.1	544.5	74,000	74,000	57.2	550.1	83,300	83,300	60.4	556.9	85,300	85,300	215
220	53.9	540.8	72,100	72,100	56.1	546.8	82,800	82,800	59.3	553.9	85,100	85,100	220
230	51.6	533.0	68,500	68,500	53.9	539.5	79,700	79,700	57.2	547.5	84,600	84,600	230
240	49.2	524.5	64,900	64,900	51.5	531.7	76,000	76,000	54.9	540.6	84,100	84,100	240
250	46.7	515.2	61,500	61,500	49.1	523.2	72,400	72,400	52.6	533.0	83,500	83,500	250
260	44.0	505.0	58,300	58,300	46.6	513.8	68,800	68,800	50.2	524.8	80,300	82,900	260
270	41.3	493.8	55,200	55,200	44.0	503.7	65,500	65,500	47.8	515.9	74,300	81,300	270
280	38.4	481.5	52,400	52,400	41.2	492.5	62,200	62,200	45.2	506.1	68,800	77,900	280
290	35.2	467.7	49,900	49,900	38.3	480.1	59,200	59,200	42.5	495.4	63,600	74,500	290
300	31.8	452.1	47,800	47,800	35.2	466.3	56,400	56,400	39.7	483.6	58,800	71,200	300
310	28.0	434.2	46,000	46,000	31.8	450.7	53,900	53,900	36.6	470.5	54,300	68,000	310
320	23.7	412.8	44,600	44,600	28.0	432.7	51,800	51,800	33.4	455.8	50,000	65,000	320
330	18.4	385.7	44,100	44,100	23.6	411.2	50,200	50,200	29.8	439.0	46,000	62,300	330
340	10.6	344.6	44,100	44,100	18.3	383.9	49,200	49,200	25.7	419.3	42,100	60,000	340
350					10.4	342.3	47,300	49,200	20.9	395.1	38,400	58,200	350
360									14.6	362.3	34,800	57,300	360
370													370
380													380
390													390
400													400
410													410
420													420
430													430

MLC650 VPC-MAX S-3

ASME B30.5



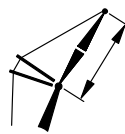
881,800 lb



360°



282.2 ft

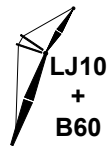


311.7 ft

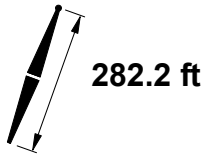
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220	64.4	561.6	80,100	80,100								220
230	62.3	556.4	77,500	80,100								230
240	60.2	550.7	70,900	80,100								240
250	58.0	544.6	64,900	80,100								250
260	55.8	537.8	59,400	80,100								260
270	53.6	530.5	54,300	80,100	58.8	539.1	73,300					270
280	51.2	522.6	49,500	80,100	56.6	532.5	73,300					280
290	48.8	514.0	45,000	80,100	54.3	525.4	73,300					290
300	46.3	504.5	40,900	80,100	52.0	517.7	73,300					300
310	43.6	494.2	37,000	80,100	49.6	509.3	73,300	55.0	517.7	66,800		310
320	40.8	482.9	33,300	80,100	47.1	500.2	73,300	52.7	510.2	66,800		320
330	37.9	470.3	29,800	80,100	44.5	490.2	73,300	50.3	502.0	66,800		330
340	34.7	456.3	26,600	80,100	41.8	479.2	73,300	47.8	493.0	66,800		340
350	31.3	440.4	23,400	79,600	38.9	467.1	73,300	45.2	483.3	66,800		350
360	27.4	422.0	20,400	76,800	35.8	453.6	73,300	42.6	472.6	66,800		360
370	23.0	399.9		74,200	32.5	438.4	73,300	39.7	460.8	64,200		370
380	17.4	371.5		72,100	28.8	421.0	70,700	36.7	447.7	60,900		380
390	8.7	325.4		61,100	24.6	400.4	67,300	33.4	433.0	57,800		390
400					19.5	374.6	64,000	29.8	416.2	54,800		400
410					12.5	337.7	60,800	25.8	396.6	51,900		410
420								21.0	372.5	49,200		420
430								14.7	339.8	46,500		430

MLC650 VPC-MAX S-3

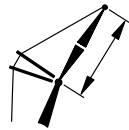
ASME B30.5



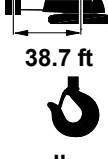
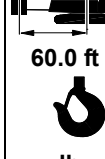
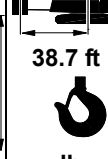
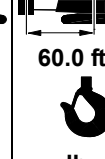
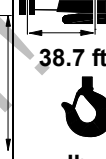
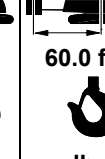
881,800 lb



282.2 ft



331.4 ft

 85°					 83°					 80°					
 ft	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 ft		
			 38.7 ft	 60.0 ft			 38.7 ft	 60.0 ft			 38.7 ft	 60.0 ft			
125	74.6	609.9	77,200	77,200										125	
130	73.7	608.4	76,900	76,900										130	
135	72.8	606.8	76,700	76,700										135	
140	71.9	605.2	76,400	76,400										140	
145	71.0	603.4	76,200	76,200	72.8	605.6	76,200	76,200						145	
150	70.1	601.6	75,800	75,800	71.9	604.0	76,200	76,200						150	
155	69.1	599.6	75,500	75,500	71.0	602.2	76,000	76,000						155	
160	68.2	597.6	75,000	75,000	70.0	600.3	75,800	75,800						160	
165	67.3	595.5	74,600	74,600	69.1	598.4	75,600	75,600						165	
170	66.3	593.2	74,200	74,200	68.2	596.4	75,400	75,400						170	
175	65.4	590.9	73,700	73,700	67.2	594.2	75,100	75,100	70.0	597.8	73,700	73,700		175	
180	64.4	588.5	73,200	73,200	66.3	592.0	74,800	74,800	69.0	595.9	73,700	73,700		180	
185	63.4	586.0	72,800	72,800	65.3	589.7	74,500	74,500	68.1	593.9	73,700	73,700		185	
190	62.5	583.3	72,200	72,200	64.4	587.3	74,100	74,100	67.2	591.7	73,700	73,700		190	
195	61.5	580.6	71,700	71,700	63.4	584.7	73,800	73,800	66.2	589.5	73,700	73,700		195	
200	60.5	577.7	71,200	71,200	62.4	582.1	73,500	73,500	65.3	587.1	73,700	73,700		200	
205	59.5	574.7	70,300	70,300	61.4	579.3	73,100	73,100	64.3	584.7	73,600	73,600		205	
210	58.5	571.6	68,800	68,800	60.4	576.5	72,700	72,700	63.3	582.2	73,400	73,400		210	
215	57.4	568.4	67,200	67,200	59.4	573.5	72,300	72,300	62.3	579.5	73,300	73,300		215	
220	56.4	565.1	65,600	65,600	58.4	570.4	71,900	71,900	61.4	576.8	73,100	73,100		220	
230	54.3	557.9	62,400	62,400	56.3	563.8	71,000	71,000	59.4	570.9	72,800	72,800		230	
240	52.1	550.2	59,400	59,400	54.2	556.6	69,200	69,200	57.3	564.5	72,300	72,300		240	
250	49.8	541.9	56,300	56,300	52.0	548.9	66,200	66,200	55.2	557.6	71,900	71,900		250	
260	47.5	532.9	53,400	53,400	49.8	540.6	63,100	63,100	53.0	550.2	71,300	71,300		260	
270	45.1	523.0	50,600	50,600	47.4	531.5	60,100	60,100	50.8	542.2	70,500	70,800		270	
280	42.5	512.3	47,900	47,900	45.0	521.7	57,200	57,200	48.5	533.4	65,000	70,200		280	
290	39.9	500.6	45,500	45,500	42.5	511.0	54,400	54,400	46.2	524.0	59,900	68,300		290	
300	37.0	487.6	43,300	43,300	39.8	499.2	51,700	51,700	43.7	513.7	55,100	65,400		300	
310	34.0	473.2	41,300	41,300	37.0	486.2	49,300	49,300	41.1	502.4	50,600	62,600		310	
320	30.7	457.0	39,500	39,500	33.9	471.8	47,000	47,000	38.3	490.0	46,400	59,900		320	
330	27.0	438.2	38,100	38,100	30.6	455.5	45,100	45,100	35.4	476.3	42,400	57,300		330	
340	22.8	415.9	37,100	37,100	27.0	436.7	43,400	43,400	32.2	460.9	38,600	54,900		340	
350	17.6	387.6	36,700	36,700	22.7	414.3	42,100	42,100	28.7	443.4	35,100	52,700		350	
360	9.9	344.3	36,700	36,700	17.5	385.8	40,600	41,500	24.8	422.8	31,600	50,800		360	
370					9.7	341.9	36,800	39,000	20.1	397.7	28,300	46,600		370	
380									13.9	363.3	25,100	42,400		380	
390														390	
400														400	
410														410	
420														420	
430														430	
440														440	
450														450	

MLC650 VPC-MAX S-3

ASME B30.5



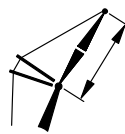
881,800 lb



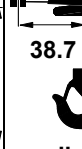
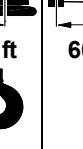
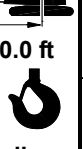
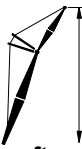
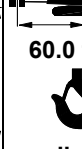
360°



282.2 ft

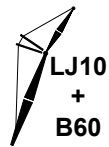


331.4 ft

	75°				70°				65°			
												
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220												220
230	64.1	578.6	68,300	68,300								230
240	62.2	573.4	66,600	68,300								240
250	60.2	567.7	60,700	68,300								250
260	58.1	561.5	55,200	68,300								260
270	56.1	554.9	50,100	68,300								270
280	53.9	547.7	45,400	68,300	58.8	556.0	61,800					280
290	51.7	539.9	41,000	68,300	56.8	549.5	61,800					290
300	49.5	531.4	36,800	68,300	54.7	542.5	61,800					300
310	47.1	522.3	33,000	68,300	52.5	534.9	61,800					310
320	44.7	512.3	29,300	68,300	50.3	526.7	61,800					320
330	42.1	501.4	25,900	68,300	47.9	517.8	61,800	53.1	527.3	56,400		330
340	39.4	489.5	22,700	68,300	45.5	508.1	61,800	50.9	519.3	56,400		340
350	36.6	476.4		68,300	43.0	497.6	61,800	48.6	510.6	56,400		350
360	33.5	461.7		64,500	40.4	486.1	61,800	46.2	501.1	56,400		360
370	30.2	445.1		60,000	37.6	473.4	61,800	43.7	490.8	56,400		370
380	26.4	425.9		55,400	34.6	459.3	61,800	41.1	479.6	56,400		380
390	22.1	402.9		50,800	31.4	443.4	61,800	38.4	467.2	54,600		390
400	16.7	373.2		46,400	27.8	425.2	58,700	35.4	453.5	51,600		400
410	8.0	324.4		42,500	23.7	403.7	54,200	32.3	438.1	48,800		410
420					18.7	376.8	49,700	28.8	420.6	46,100		420
430					11.8	338.1	45,500	24.8	400.2	43,500		430
440								20.1	375.1	41,000		440
450								14.0	340.8	38,600		450

MLC650 VPC-MAX S-3

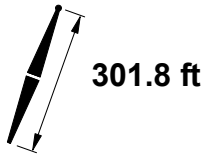
ASME B30.5



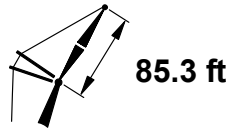
881,800 lb



360°



301.8 ft

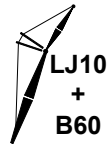


85.3 ft

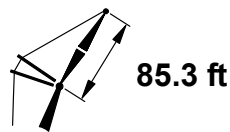
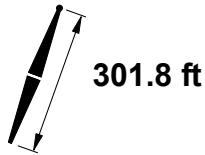
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	72.1	391.0	348,700 d	348,700 d									65
70	68.5	388.9	336,900 d	336,900 d									70
75	64.7	386.4	333,200 c	333,200 c	72.4	390.0	352,400 d	352,400 d					75
80	60.8	383.5	328,500 c	328,500 c	68.8	387.9	340,300 d	340,300 d					80
85	56.8	380.1	323,000 b	323,000 b	65.1	385.5	337,700 c	337,700 c					85
90	52.5	376.2	319,300 b	319,300 b	61.2	382.6	333,800 c	333,800 c					90
95	47.9	371.5	313,300 b	313,300 b	57.2	379.2	329,100 b	329,100 b	69.3	385.7	341,700 c	341,700 c	95
100	43.0	366.1	309,800	309,800	52.9	375.3	325,000 b	325,000 b	65.6	383.3	340,800 c	340,800 c	100
105	37.4	359.5	303,400	303,400	48.4	370.8	319,900 b	319,900 b	61.7	380.5	338,400 c	338,400 c	105
110	30.9	351.2	295,100	295,100	43.5	365.4	316,300	316,300	57.7	377.2	335,400 b	335,400 b	110
115	22.6	339.9	290,900	290,900	38.0	359.0	314,000	314,000	53.5	373.4	326,400 b	331,300 b	115
120					31.6	350.9	309,000	309,000	49.0	368.9	310,100 b	327,500 b	120
125					23.6	340.0	302,800	302,800	44.1	363.7	295,000	324,000	125
130					8.8	318.7	300,700	302,800	38.7	357.3	281,100	321,400	130
135									32.5	349.5	268,000	320,500	135
140									24.7	339.1	255,800	319,900	140
145									12.1	321.0	243,700	316,900	145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220

MLC650 VPC-MAX S-3

ASME B30.5



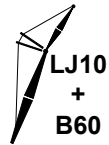
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	62.3	374.9	245,100 b	338,500 b									130
135	58.3	371.7	233,900 b	337,600 b									135
140	54.1	368.0	223,400 b	335,400 b									140
145	49.6	363.6	213,700 b	333,000 b									145
150	44.8	358.5	204,500	330,800									150
155	39.5	352.3	195,900	326,000									155
160	33.4	344.8	187,700	314,000	58.3	363.5	159,900 b	292,900 b					160
165	26.0	334.8	179,800	302,600	54.1	359.8	153,300 b	282,400 b					165
170	14.7	318.8	172,000	291,700	49.7	355.5	147,100 b	272,500 b					170
175					44.9	350.3	141,300	263,200					175
180					39.6	344.2	135,600	254,400					180
185					33.5	336.7	130,200	246,000					185
190					26.1	326.8	124,900	238,000	53.5	348.9	102,900 b	221,400 b	190
195					14.9	311.0	119,500	230,300	49.0	344.4	98,800	214,400	195
200									44.1	339.2	94,900	207,800	200
205									38.8	332.9	91,100	201,500	205
210									32.5	325.1	87,400	195,400	210
215									24.8	314.7	83,700	189,600	215
220									12.3	296.7	79,700	183,700	220

MLC650 VPC-MAX S-3

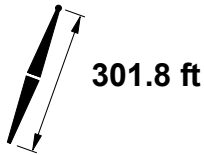
ASME B30.5



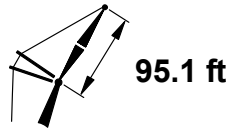
881,800 lb



360°



301.8 ft

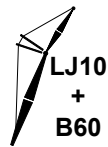


95.1 ft

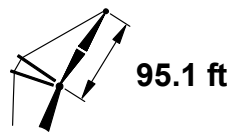
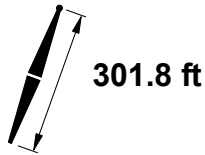
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	74.0	401.4	319,100 d	319,100 d									65
70	70.8	399.6	317,200 d	317,200 d									70
75	67.5	397.4	314,400 c	314,400 c									75
80	64.2	394.9	310,500 c	310,500 c	71.1	398.6	319,800 c	319,800 c					80
85	60.7	392.0	306,100 b	306,100 b	67.9	396.4	318,300 c	318,300 c					85
90	57.1	388.6	300,800 b	300,800 b	64.5	393.9	315,400 c	315,400 c					90
95	53.3	384.8	296,800 b	296,800 b	61.0	391.1	311,600 b	311,600 b					95
100	49.3	380.4	291,600	291,600	57.4	387.8	307,500 b	307,500 b	68.3	394.2	320,100 c	320,100 c	100
105	45.0	375.3	288,000	288,000	53.6	384.0	303,400 b	303,400 b	64.9	391.8	319,000 c	319,000 c	105
110	40.3	369.3	279,300	279,300	49.7	379.6	298,500	298,500	61.5	388.9	316,900 b	316,900 b	110
115	35.0	362.2	270,500	270,500	45.4	374.6	294,900	294,900	57.9	385.7	313,700 b	313,700 b	115
120	28.9	353.3	263,800	263,800	40.8	368.7	292,200	292,200	54.1	382.0	307,300 b	310,100 b	120
125	20.9	341.0	260,400	260,400	35.6	361.7	284,200	284,200	50.2	377.7	292,400	306,400	125
130					29.5	353.0	276,500	276,500	46.0	372.8	278,600	303,100	130
135					21.8	341.2	271,800	271,800	41.4	367.0	265,800	300,200	135
140					7.1	317.2	271,800	271,800	36.3	360.2	253,900	298,500	140
145									30.4	351.7	242,600	295,000	145
150									23.0	340.5	232,000	288,800	150
155									10.6	320.6	221,400	287,100	155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230

MLC650 VPC-MAX S-3

ASME B30.5



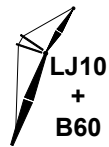
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	62.0	383.4	230,500 b	316,400 b									135
140	58.4	380.2	220,100 b	316,100 b									140
145	54.7	376.5	210,500 b	315,000 b									145
150	50.7	372.3	201,500	312,400									150
155	46.6	367.5	193,000	310,200									155
160	42.0	361.9	185,000	308,300									160
165	37.0	355.2	177,400	300,400	58.4	372.0	149,800 b	279,500 b					165
170	31.3	347.0	170,200	289,800	54.7	368.4	143,700	269,700					170
175	24.1	336.3	163,300	279,800	50.8	364.2	138,000	260,500					175
180	13.2	318.9	156,300	270,200	46.6	359.4	132,500	251,800					180
185					42.1	353.8	127,300	243,600					185
190					37.1	347.1	122,300	235,700					190
195					31.3	339.0	117,400	228,300	54.2	357.5	95,300	211,600	195
200					24.3	328.3	112,700	221,100	50.2	353.2	91,500	205,100	200
205					13.5	311.1	107,800	214,200	46.0	348.3	87,800	198,900	205
210									41.4	342.5	84,300	192,900	210
215									36.3	335.7	80,900	187,200	215
220									30.4	327.3	77,500	181,800	220
230									10.8	296.3	70,500	171,100	230

MLC650 VPC-MAX S-3

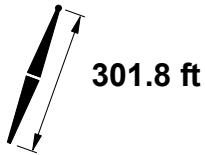
ASME B30.5



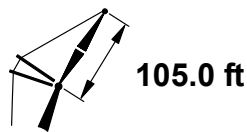
881,800 lb



360°



301.8 ft

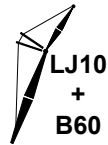


105.0 ft

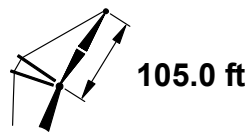
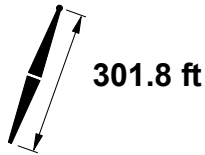
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	72.7	410.1	298,900 c	298,900 c									70
75	69.8	408.2	297,100 c	297,100 c									75
80	66.8	405.9	294,100 c	294,100 c									80
85	63.7	403.4	290,300 b	290,300 b	73.0	409.1	300,700 c	300,700 c					85
90	60.6	400.4	286,100 b	286,100 b	70.1	407.2	300,300 c	300,300 c					90
					67.1	404.9	298,400 c	298,400 c					
95	57.3	397.1	281,100 b	281,100 b	64.0	402.4	295,400 b	295,400 b					95
100	53.9	393.4	276,600	276,600	60.9	399.5	291,900 b	291,900 b					100
105	50.3	389.1	272,600	272,600	57.6	396.3	287,900 b	287,900 b	67.5	402.7	300,700 b	300,700 b	105
110	46.5	384.3	267,700	267,700	54.2	392.6	283,600	283,600	64.4	400.2	299,400 b	299,400 b	110
115	42.5	378.8	258,000	258,000	50.7	388.4	279,700	279,700	61.3	397.4	297,100 b	297,100 b	115
120	38.0	372.3	249,300	249,300	46.9	383.6	276,200	276,200	58.0	394.2	294,300 b	294,300 b	120
125	33.0	364.7	242,100	242,100	42.9	378.1	272,500	272,500	54.7	390.5	290,900	291,200	125
130	27.1	355.1	236,700	236,700	38.5	371.8	263,300	263,300	51.1	386.4	277,200	287,800	130
135	19.5	342.0	234,500	234,500	33.5	364.3	255,300	255,300	47.4	381.7	264,600	284,600	135
140					27.8	354.9	249,000	249,000	43.4	376.4	252,800	281,800	140
145					20.4	342.3	245,500	245,500	39.0	370.1	241,800	279,700	145
150					5.1	314.8	245,500	245,500	34.2	362.8	231,500	274,500	150
155									28.6	353.8	221,700	267,200	155
160									21.5	341.7	212,400	262,200	160
165									9.2	319.9	203,100	261,600	165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240

MLC650 VPC-MAX S-3

ASME B30.5



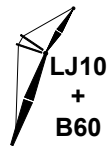
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	64.8	394.6	228,500 b	297,000 b									135
140	61.7	391.8	218,300 b	297,000 b									140
145	58.5	388.7	208,700 b	297,000 b									145
150	55.1	385.1	199,700	295,700									150
155	51.6	381.0	191,400	294,100									155
160	47.9	376.4	183,500	292,100									160
165	44.0	371.2	176,100	290,200									165
170	39.7	365.1	169,100	288,400	58.5	380.5	141,800	268,000					170
175	34.9	357.9	162,400	278,700	55.2	377.0	136,100	258,800					175
180	29.4	349.2	156,000	269,400	51.7	372.9	130,700	250,200					180
185	22.6	337.7	149,800	260,500	48.0	368.3	125,600	242,100					185
190	11.9	318.8	143,500	252,000	44.0	363.1	120,700	234,300					190
195					39.7	357.0	116,100	227,000					195
200					35.0	349.8	111,600	220,000	54.7	366.0	89,500	203,400	200
205					29.5	341.1	107,200	213,300	51.2	361.9	86,000	197,300	205
210					22.7	329.7	102,900	206,900	47.4	357.2	82,500	191,400	210
215					12.2	311.1	98,500	200,600	43.4	351.9	79,200	185,800	215
220									39.1	345.7	76,000	180,400	220
230									28.6	329.3	69,900	170,300	230
240									9.4	295.7	63,400	160,600	240

MLC650 VPC-MAX S-3

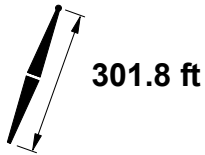
ASME B30.5



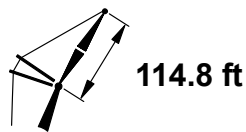
881,800 lb



360°



301.8 ft

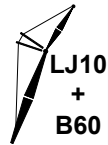


114.8 ft

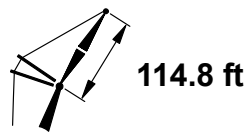
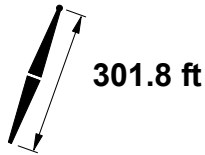
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.2	420.5	279,600 c	279,600 c									70
75	71.6	418.7	279,600 c	279,600 c									75
80	68.9	416.7	276,100 b	276,100 b									80
85	66.2	414.4	273,200 b	273,200 b	71.9	417.7	280,500 c	280,500 c					85
90	63.4	411.8	269,700 b	269,700 b	69.2	415.7	279,600 b	279,600 b					90
95	60.5	408.9	265,600 b	265,600 b	66.4	413.5	277,600 b	277,600 b					95
100	57.5	405.6	262,500	262,500	63.6	410.9	274,900 b	274,900 b					100
105	54.4	402.0	257,500	257,500	60.8	408.0	271,500 b	271,500 b	69.5	413.5	280,400 b	280,400 b	105
110	51.2	397.9	253,800	253,800	57.8	404.8	268,300	268,300	66.8	411.2	280,200 b	280,200 b	110
115	47.8	393.2	247,800	247,800	54.7	401.1	264,300	264,300	64.0	408.7	278,900 b	278,900 b	115
120	44.2	388.0	238,800	238,800	51.5	397.1	260,800	260,800	61.1	405.9	277,000 b	277,000 b	120
125	40.3	382.1	230,500	230,500	48.1	392.5	257,600	257,600	58.2	402.7	274,400	274,400	125
130	36.0	375.2	223,400	223,400	44.5	387.3	253,100	253,100	55.1	399.1	271,700	271,700	130
135	31.3	367.0	217,300	217,300	40.7	381.5	244,400	244,400	51.9	395.1	261,700	268,700	135
140	25.6	356.8	213,200	213,200	36.5	374.7	236,600	236,600	48.6	390.6	250,100	265,900	140
145	18.2	342.9	211,900	211,900	31.8	366.6	230,000	230,000	45.0	385.5	239,200	263,200	145
150					26.2	356.7	224,900	224,900	41.2	379.7	229,000	261,100	150
155					19.1	343.3	222,400	222,400	37.0	373.1	219,400	255,900	155
160									32.4	365.2	210,400	248,600	160
165									27.0	355.6	201,900	242,500	165
170									20.1	342.8	193,700	238,500	170
175									8.0	319.0	185,300	238,500	175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240
250													250

MLC650 VPC-MAX S-3

ASME B30.5



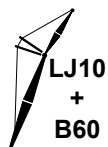
881,800 lb



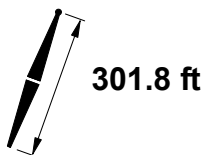
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	64.4	403.1	214,800	276,100									140
145	61.5	400.3	205,300	276,100									145
150	58.6	397.2	196,400	276,100									150
155	55.5	393.6	188,100	275,800									155
160	52.4	389.7	180,400	274,500									160
165	49.0	385.3	173,000	272,900									165
170	45.5	380.3	166,100	271,300									170
175	41.7	374.6	159,600	269,700	58.6	389.0	132,600	256,000					175
180	37.6	368.1	153,300	267,100	55.6	385.5	127,300	247,400					180
185	33.1	360.4	147,400	258,300	52.4	381.6	122,300	239,300					185
190	27.8	351.1	141,700	250,000	49.1	377.1	117,500	231,700					190
195	21.2	338.9	136,100	242,100	45.6	372.2	112,900	224,400					195
200	10.8	318.5	130,400	234,400	41.8	366.5	108,500	217,500					200
205					37.7	360.0	104,300	210,900					205
210					33.2	352.4	100,300	204,600	51.9	370.6	79,000	188,600	210
215					27.9	343.1	96,400	198,600	48.6	366.1	75,800	183,100	215
220					21.3	331.0	92,500	192,800	45.0	361.0	72,700	177,800	220
230									37.1	348.6	66,900	167,900	230
240									27.0	331.2	61,300	158,700	240
250									8.1	294.8	55,300	149,800	250

MLC650 VPC-MAX S-3

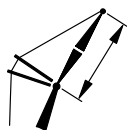
ASME B30.5



881,800 lb



301.8 ft

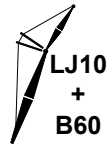


124.7 ft

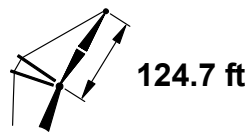
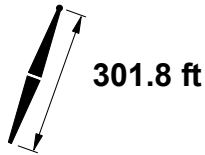
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	73.1	429.2	263,700 c	263,700 c									75
80	70.7	427.4	262,200 b	262,200 b									80
85	68.2	425.3	260,000 b	260,000 b									85
90	65.6	422.9	257,100 b	257,100 b	70.9	426.3	264,900 b	264,900 b					90
95	63.1	420.3	253,600 b	253,600 b	68.4	424.3	263,700 b	263,700 b					95
100	60.4	417.4	250,000	250,000	65.9	422.0	261,700 b	261,700 b					100
105	57.7	414.1	246,200	246,200	63.3	419.4	259,100 b	259,100 b					105
110	54.8	410.5	242,600	242,600	60.7	416.5	256,000	256,000	68.7	422.0	265,100 b	265,100 b	110
115	51.9	406.5	239,100	239,100	57.9	413.3	253,100	253,100	66.2	419.8	264,600 b	264,600 b	115
120	48.8	402.1	231,300	231,300	55.1	409.7	249,400	249,400	63.6	417.2	263,400	263,400	120
125	45.6	397.1	223,000	223,000	52.2	405.7	246,200	246,200	61.0	414.3	261,500	261,500	125
130	42.1	391.5	215,200	215,200	49.1	401.3	243,200	243,200	58.3	411.2	261,500	261,500	130
135	38.4	385.2	208,200	208,200	45.9	396.4	237,100	237,100	55.5	407.6	256,800	256,800	135
140	34.3	377.8	202,100	202,100	42.5	390.9	229,000	229,000	52.5	403.7	250,400	254,100	140
145	29.7	369.2	197,200	197,200	38.8	384.6	221,500	221,500	49.5	399.4	239,600	251,500	145
150	24.3	358.4	193,900	193,900	34.7	377.4	214,900	214,900	46.3	394.5	229,500	249,000	150
155	17.1	343.6	193,300	193,300	30.2	368.9	209,300	209,300	42.9	389.1	220,000	246,900	155
160					24.9	358.4	205,200	205,200	39.3	382.9	211,100	240,900	160
165					18.0	344.2	203,400	203,400	35.3	375.9	202,700	233,700	165
170									30.8	367.5	194,800	227,400	170
175									25.6	357.4	187,200	222,200	175
180									19.0	343.8	179,900	219,000	180
185									6.7	317.6	172,300	219,000	185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240
250													250
260													260

MLC650 VPC-MAX S-3

ASME B30.5



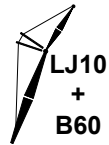
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	64.0	411.6	205,300	260,800									145
150	61.4	408.8	196,500	260,800									150
155	58.7	405.7	188,200	260,800									155
160	55.9	402.2	180,500	260,700									160
165	53.0	398.3	173,200	259,600									165
170	49.9	394.0	166,400	258,400									170
175	46.8	389.3	159,900	256,900									175
180	43.4	383.9	153,700	255,400	58.7	397.5	127,300	247,200					180
185	39.8	377.9	147,900	254,100	55.9	394.0	122,300	239,100					185
190	35.9	370.9	142,300	250,200	53.0	390.2	117,600	231,500					190
195	31.5	362.8	137,000	242,400	50.0	385.9	113,100	224,300					195
200	26.4	352.9	131,900	235,000	46.8	381.1	108,800	217,400					200
205	20.0	340.0	126,900	227,900	43.4	375.8	104,700	210,900					205
210	9.7	318.1	121,700	220,900	39.8	369.8	100,700	204,700					210
215					35.9	362.8	96,900	198,800	52.6	379.2	75,900	183,000	215
220					31.6	354.7	93,200	193,100	49.5	374.9	72,800	177,700	220
230					20.2	332.1	86,100	182,300	42.9	364.6	67,100	167,900	230
240									35.3	351.4	61,800	158,900	240
250									25.7	332.9	56,600	150,400	250
260									6.9	293.5	51,100	142,200	260

MLC650 VPC-MAX S-3

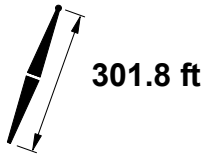
ASME B30.5



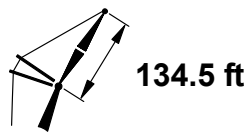
881,800 lb



360°



301.8 ft

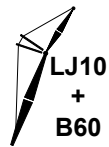


134.5 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	74.4	439.5	248,400 c	248,400 c									75
80	72.2	437.9	247,500 b	247,500 b									80
85	69.9	436.0	245,800 b	245,800 b									85
90	67.6	433.8	243,600 b	243,600 b	72.4	436.8	249,400 b	249,400 b					90
95	65.2	431.4	240,900 b	240,900 b	70.1	434.9	248,800 b	248,800 b					95
100	62.8	428.8	237,600	237,600	67.8	432.8	247,400 b	247,400 b					100
105	60.3	425.9	234,200	234,200	65.4	430.5	245,500	245,500					105
110	57.8	422.6	231,400	231,400	63.0	427.8	243,100	243,100					110
115	55.2	419.1	227,500	227,500	60.6	424.9	240,200	240,200	68.1	430.6	249,000	249,000	115
120	52.5	415.2	223,000	223,000	58.0	421.7	237,600	237,600	65.7	428.3	248,500	248,500	120
125	49.7	410.8	214,900	214,900	55.4	418.2	234,300	234,300	63.3	425.7	247,400	247,400	125
130	46.7	406.1	207,200	207,200	52.7	414.3	231,300	231,300	60.9	422.8	245,600	245,600	130
135	43.6	400.8	200,000	200,000	49.9	410.1	228,600	228,600	58.4	419.7	243,700	243,700	135
140	40.3	394.8	193,300	193,300	47.0	405.3	221,100	221,100	55.8	416.2	241,500	241,500	140
145	36.7	388.1	187,400	187,400	43.9	400.1	213,600	213,600	53.1	412.4	236,700	239,000	145
150	32.8	380.4	182,300	182,300	40.6	394.2	206,500	206,500	50.3	408.1	226,700	236,700	150
155	28.4	371.2	178,300	178,300	37.1	387.6	200,100	200,100	47.4	403.5	217,300	234,400	155
160	23.1	359.9	175,800	175,800	33.2	379.9	194,500	194,500	44.3	398.3	208,500	232,400	160
165	16.1	344.3	175,700	175,700	28.8	371.0	189,800	189,800	41.1	392.5	200,200	225,800	165
170					23.7	359.9	186,500	186,500	37.6	385.9	192,400	218,900	170
175					16.9	344.9	185,300	185,300	33.7	378.5	185,000	212,600	175
180									29.4	369.7	177,900	207,200	180
185									24.4	359.0	171,100	202,800	185
190									17.9	344.7	164,600	200,300	190
195									5.4	315.7	157,700	200,300	195
200													200
205													205
210													210
215													215
220													220
230													230
240													240
250													250
260													260
270													270

MLC650 VPC-MAX S-3

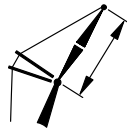
ASME B30.5



881,800 lb



301.8 ft

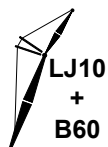


134.5 ft

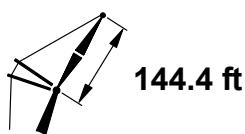
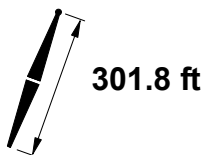
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	63.7	420.1	193,100	244,600									150
155	61.2	417.2	184,900	244,600									155
160	58.7	414.1	177,200	244,600									160
165	56.1	410.7	170,000	244,600									165
170	53.5	406.9	163,200	244,400									170
175	50.7	402.8	156,800	243,300									175
180	47.8	398.2	150,700	242,000									180
185	44.8	393.0	145,000	240,700	58.8	406.0	118,800	236,300					185
190	41.5	387.3	139,500	239,500	56.2	402.6	114,200	228,800					190
195	38.1	380.9	134,300	238,500	53.5	398.8	109,700	221,600					195
200	34.3	373.6	129,300	232,700	50.7	394.6	105,500	214,800					200
205	30.1	365.0	124,500	225,800	47.8	390.0	101,400	208,300					205
210	25.2	354.6	119,900	219,100	44.8	384.9	97,600	202,200					210
215	19.0	341.0	115,300	212,700	41.6	379.2	93,900	196,300					215
220	8.7	317.4	110,600	206,400	38.1	372.8	90,300	190,700	53.1	387.8	69,300	175,000	220
230					30.1	357.0	83,500	180,100	47.4	379.0	63,800	165,300	230
240					19.1	333.1	77,000	170,300	41.1	368.0	58,600	156,300	240
250									33.8	354.0	53,700	148,100	250
260									24.4	334.5	49,000	140,300	260
270									5.6	291.7	43,800	132,700	270

MLC650 VPC-MAX S-3

ASME B30.5



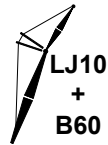
881,800 lb



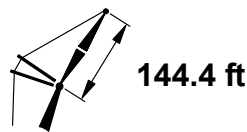
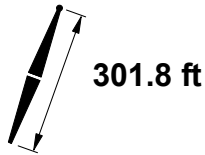
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	73.4	448.3	233,700 b	233,700 b									80
85	71.3	446.5	232,600 b	232,600 b									85
90	69.2	444.5	230,900 b	230,900 b									90
95	67.0	442.3	228,700	228,700	71.5	445.5	234,800 b	234,800 b					95
100	64.8	439.9	226,200	226,200	69.4	443.5	234,100	234,100					100
105	62.6	437.3	223,100	223,100	67.2	441.4	232,700	232,700					105
110	60.3	434.3	220,000	220,000	65.0	439.0	230,800	230,800					110
115	57.9	431.1	216,900	216,900	62.8	436.3	228,600	228,600	69.7	441.3	234,300	234,300	115
120	55.5	427.6	213,900	213,900	60.5	433.4	226,200	226,200	67.5	439.1	234,300	234,300	120
125	53.0	423.8	207,800	207,800	58.1	430.2	223,300	223,300	65.3	436.8	233,900	233,900	125
130	50.4	419.6	200,400	200,400	55.7	426.8	220,600	220,600	63.1	434.2	232,800	232,800	130
135	47.7	415.0	193,300	193,300	53.2	422.9	217,900	217,900	60.8	431.3	231,300	231,300	135
140	44.9	409.9	186,600	186,600	50.6	418.8	214,200	214,200	58.4	428.1	229,600	229,600	140
145	41.9	404.2	180,300	180,300	48.0	414.2	206,900	206,900	56.0	424.7	227,600	227,600	145
150	38.7	398.0	174,700	174,700	45.1	409.2	199,900	199,900	53.6	420.9	224,800	225,400	150
155	35.2	390.9	169,600	169,600	42.2	403.6	193,300	193,300	51.0	416.8	215,500	223,300	155
160	31.5	382.7	165,300	165,300	39.0	397.4	187,300	187,300	48.3	412.3	206,700	221,200	160
165	27.2	373.2	162,100	162,100	35.6	390.4	181,700	181,700	45.5	407.3	198,500	219,100	165
170	22.1	361.3	160,100	160,100	31.8	382.4	176,900	176,900	42.6	401.8	190,700	212,300	170
175	15.2	344.8	160,100	160,100	27.6	373.0	172,900	172,900	39.4	395.7	183,400	205,800	175
180					22.6	361.4	170,300	170,300	36.0	388.8	176,400	199,800	180
185					16.0	345.6	169,600	169,600	32.3	380.9	169,800	194,300	185
190									28.2	371.7	163,500	189,600	190
195									23.3	360.5	157,400	186,000	195
200									17.0	345.5	151,500	184,000	200
205									3.8	312.5	145,200	184,000	205
210													210
215													215
220													220
230													230
240													240
250													250
260													260
270													270
280													280

MLC650 VPC-MAX S-3

ASME B30.5



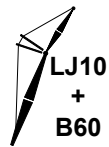
881,800 lb



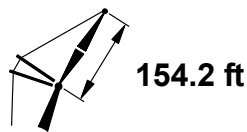
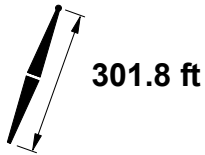
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155	63.4	428.6	182,700	230,100									155
160	61.1	425.7	175,100	230,100									160
165	58.8	422.6	167,900	230,100									165
170	56.4	419.2	161,100	230,100									170
175	53.9	415.5	154,800	230,100									175
180	51.3	411.4	148,800	229,500									180
185	48.7	407.0	143,100	228,500									185
190	45.9	402.1	137,600	227,300	58.8	414.5	111,900	222,100					190
195	43.0	396.6	132,500	226,200	56.4	411.1	107,500	219,800					195
200	39.9	390.6	127,600	225,300	53.9	407.4	103,300	213,000					200
205	36.5	383.8	122,900	224,200	51.4	403.3	99,300	206,600					205
210	32.9	376.1	118,400	217,600	48.7	398.8	95,500	200,400					210
215	28.8	367.1	114,000	211,300	45.9	393.9	91,900	194,600					215
220	24.0	356.2	109,800	205,300	43.0	388.5	88,400	189,000					220
230	7.7	316.5	101,300	193,700	36.6	375.7	81,800	178,600	51.0	392.3	61,600	163,500	230
240					28.9	359.1	75,600	169,000	45.5	382.8	56,500	154,600	240
250					18.1	334.0	69,600	160,000	39.4	371.2	51,700	146,500	250
260									32.4	356.5	47,200	138,900	260
270									23.3	336.1	42,900	131,800	270
280									4.1	288.9	38,000	124,700	280

MLC650 VPC-MAX S-3

ASME B30.5



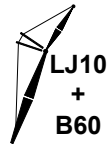
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	74.5	458.6	220,200 b	220,200 b									80
85	72.6	457.0	219,600 b	219,600 b									85
90	70.6	455.1	218,400	218,400									90
95	68.6	453.1	216,600	216,600	72.8	455.9	221,100 b	221,100 b					95
100	66.5	450.9	214,600	214,600	70.8	454.1	220,800	220,800					100
105	64.5	448.4	212,100	212,100	68.8	452.1	219,900	219,900					105
110	62.4	445.7	209,300	209,300	66.7	449.9	218,600	218,600					110
115	60.2	442.8	206,600	206,600	64.7	447.5	216,800	216,800					115
120	58.0	439.6	203,800	203,800	62.6	444.8	214,700	214,700	69.0	449.9	220,400	220,400	120
125	55.8	436.1	200,500	200,500	60.4	441.9	212,400	212,400	67.0	447.7	220,400	220,400	125
130	53.4	432.4	193,500	193,500	58.2	438.7	210,000	210,000	64.9	445.3	219,900	219,900	130
135	51.0	428.3	186,700	186,700	56.0	435.3	207,500	207,500	62.8	442.6	218,900	218,900	135
140	48.5	423.8	180,200	180,200	53.7	431.5	205,100	205,100	60.7	439.8	217,600	217,600	140
145	45.9	418.9	174,000	174,000	51.3	427.5	200,200	200,200	58.5	436.6	216,000	216,000	145
150	43.2	413.5	168,300	168,300	48.8	423.0	193,600	193,600	56.3	433.2	214,200	214,200	150
155	40.3	407.6	162,900	162,900	46.2	418.2	187,100	187,100	54.0	429.5	212,300	212,300	155
160	37.2	401.0	158,000	158,000	43.5	412.8	180,900	180,900	51.6	425.5	203,900	210,500	160
165	33.9	393.5	153,700	153,700	40.6	406.9	175,200	175,200	49.1	421.1	195,800	208,600	165
170	30.2	385.0	150,100	150,100	37.5	400.4	169,900	169,900	46.5	416.3	188,100	205,900	170
175	26.1	375.0	147,400	147,400	34.2	393.1	165,200	165,200	43.8	411.0	180,800	199,600	175
180	21.1	362.6	146,000	146,000	30.6	384.7	161,000	161,000	41.0	405.2	173,900	193,500	180
185	14.4	345.3	146,000	146,000	26.5	374.8	157,700	157,700	37.9	398.8	167,400	187,700	185
190					21.6	362.7	155,600	155,600	34.7	391.5	161,200	182,500	190
195					15.2	346.1	155,300	155,300	31.1	383.3	155,200	177,700	195
200									27.1	373.7	149,600	173,700	200
205									22.3	361.9	144,100	170,700	205
210									16.2	346.1	138,700	169,200	210
215													215
220													220
230													230
240													240
250													250
260													260
270													270
280													280

MLC650 VPC-MAX S-3

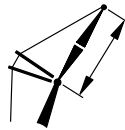
ASME B30.5



881,800 lb



301.8 ft

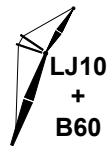


154.2 ft

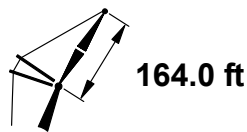
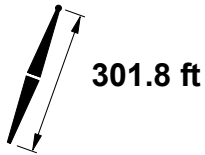
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160	63.1	437.0	171,700	216,000									160
165	61.0	434.2	164,600	216,000									165
170	58.8	431.1	157,900	216,000									170
175	56.6	427.7	151,600	216,000									175
180	54.3	424.1	145,600	216,000									180
185	51.9	420.1	140,000	216,000									185
190	49.4	415.7	134,600	215,300									190
195	46.9	411.0	129,500	214,400	58.9	423.0	104,100	207,800					195
200	44.2	405.8	124,700	213,400	56.6	419.6	100,000	207,800					200
205	41.4	400.1	120,100	212,500	54.3	415.9	96,000	203,900					205
210	38.4	393.7	115,600	211,800	51.9	412.0	92,300	197,800					210
215	35.1	386.6	111,400	209,100	49.5	407.6	88,700	192,000					215
220	31.6	378.5	107,300	203,100	46.9	402.9	85,200	186,500					220
230	23.0	357.7	99,500	191,900	41.4	392.0	78,700	176,200	54.0	405.0	58,100	160,800	230
240	6.8	315.3	91,600	181,300	35.2	378.5	72,700	166,700	49.1	396.6	53,100	152,000	240
250					27.7	361.1	67,000	157,900	43.8	386.5	48,500	143,900	250
260					17.3	334.8	61,500	149,600	38.0	374.3	44,100	136,400	260
270									31.1	358.8	40,000	129,400	270
280									22.4	337.5	36,000	122,900	280

MLC650 VPC-MAX S-3

ASME B30.5



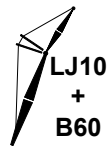
881,800 lb



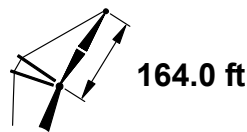
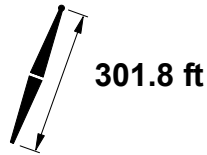
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	73.6	467.3	207,700 b	207,700 b									85
90	71.8	465.6	206,900	206,900									90
95	69.9	463.7	205,700	205,700									95
100	68.0	461.7	204,000	204,000	72.0	464.6	208,700	208,700					100
105	66.1	459.4	202,000	202,000	70.1	462.7	208,200	208,200					105
110	64.2	456.9	199,600	199,600	68.2	460.7	207,300	207,300					110
115	62.2	454.2	197,100	197,100	66.3	458.4	206,000	206,000					115
120	60.2	451.3	195,300	195,300	64.4	455.9	204,400	204,400					120
125	58.1	448.1	192,000	192,000	62.4	453.3	202,600	202,600	68.5	458.4	207,900	207,900	125
130	56.0	444.7	187,600	187,600	60.4	450.4	200,600	200,600	66.6	456.2	207,800	207,800	130
135	53.8	440.9	181,300	181,300	58.3	447.2	198,100	198,100	64.6	453.8	207,300	207,300	135
140	51.6	436.9	174,900	174,900	56.2	443.8	195,900	195,900	62.6	451.1	206,400	206,400	140
145	49.2	432.5	168,900	168,900	54.0	440.1	193,600	193,600	60.6	448.2	205,300	205,300	145
150	46.8	427.8	163,200	163,200	51.8	436.1	188,100	188,100	58.6	445.1	203,900	203,900	150
155	44.3	422.6	157,700	157,700	49.5	431.8	181,900	181,900	56.5	441.7	202,300	202,300	155
160	41.7	417.0	152,700	152,700	47.1	427.1	176,000	176,000	54.3	438.1	200,600	200,600	160
165	38.9	410.7	148,000	148,000	44.6	421.9	170,200	170,200	52.1	434.1	195,100	198,900	165
170	35.9	403.8	143,800	143,800	42.0	416.3	164,800	164,800	49.8	429.8	187,400	197,200	170
175	32.7	396.0	140,100	140,100	39.2	410.2	159,700	159,700	47.4	425.2	180,100	194,300	175
180	29.1	387.2	137,000	137,000	36.2	403.3	155,100	155,100	44.9	420.1	173,300	188,500	180
185	25.1	376.7	134,800	134,800	33.0	395.6	150,900	150,900	42.3	414.6	166,800	182,700	185
190	20.2	363.8	133,700	133,700	29.5	386.9	147,300	147,300	39.5	408.5	160,700	177,300	190
195	13.7	345.6	133,700	133,700	25.5	376.6	144,600	144,600	36.6	401.7	154,800	172,200	195
200					20.8	364.0	142,700	142,700	33.4	394.2	149,200	167,500	200
205					14.4	346.6	142,700	142,700	30.0	385.5	143,900	163,200	205
210									26.0	375.5	138,800	159,800	210
215									21.4	363.2	133,800	157,100	215
220									15.4	346.7	128,900	155,900	220
230													230
240													240
250													250
260													260
270													270
280													280
290													290

MLC650 VPC-MAX S-3

ASME B30.5



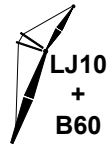
881,800 lb



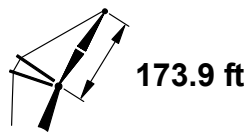
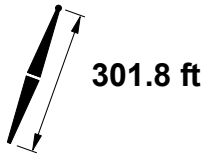
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160	64.9	448.1	170,700	202,100									160
165	62.9	445.5	163,600	202,100									165
170	60.9	442.7	156,900	202,100									170
175	58.9	439.6	150,600	202,100									175
180	56.8	436.2	144,700	202,100									180
185	54.6	432.6	139,100	202,100									185
190	52.4	428.7	133,800	202,100									190
195	50.1	424.5	128,700	202,100									195
200	47.7	419.9	123,900	202,100	58.9	431.4	98,900	194,900					200
205	45.3	414.9	119,300	201,800	56.8	428.1	95,000	194,900					205
210	42.7	409.4	114,900	200,900	54.6	424.5	91,200	194,900					210
215	39.9	403.4	110,700	200,200	52.4	420.6	87,700	191,100					215
220	37.0	396.7	106,700	199,100	50.1	416.3	84,300	185,600					220
230	30.5	380.8	99,100	189,200	45.3	406.7	77,900	175,400					230
240	22.1	359.1	92,000	181,100	40.0	395.3	71,900	165,900	52.1	409.6	52,000	151,100	240
250	5.8	313.8	84,700	171,300	33.9	381.2	66,400	157,200	47.4	400.7	47,500	143,100	250
260					26.7	363.0	61,200	149,100	42.3	390.1	43,200	135,600	260
270					16.5	335.5	56,100	141,500	36.6	377.2	39,200	128,700	270
280									30.0	361.1	35,400	122,300	280
290									21.5	338.8	31,700	116,200	290

MLC650 VPC-MAX S-3

ASME B30.5



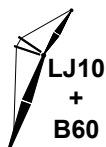
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	74.6	477.6	195,800 b	195,800 b									85
90	72.9	476.0	195,400	195,400									90
95	71.1	474.3	194,500	194,500									95
100	69.4	472.3	193,200	193,200									100
105	67.6	470.2	191,600	191,600	71.3	473.2	196,300	196,300					105
110	65.8	467.9	189,700	189,700	69.5	471.3	195,800	195,800					110
115	63.9	465.4	187,700	187,700	67.7	469.2	194,900	194,900					115
120	62.0	462.7	185,600	185,600	65.9	466.9	193,700	193,700					120
125	60.1	459.8	182,900	182,900	64.1	464.4	192,200	192,200	69.8	469.1	195,200	195,200	125
130	58.2	456.6	180,600	180,600	62.2	461.7	190,500	190,500	68.0	467.0	195,200	195,200	130
135	56.2	453.2	175,100	175,100	60.3	458.8	188,700	188,700	66.2	464.7	195,200	195,200	135
140	54.1	449.5	169,100	169,100	58.4	455.7	186,900	186,900	64.3	462.3	195,000	195,000	140
145	52.0	445.6	163,400	163,400	56.4	452.3	184,500	184,500	62.5	459.6	194,200	194,200	145
150	49.9	441.3	157,900	157,900	54.3	448.7	182,000	182,000	60.6	456.7	193,200	193,200	150
155	47.6	436.7	152,600	152,600	52.2	444.7	176,200	176,200	58.6	453.6	191,900	191,900	155
160	45.3	431.7	147,600	147,600	50.1	440.5	170,500	170,500	56.6	450.2	190,700	190,700	160
165	42.9	426.2	142,900	142,900	47.9	435.9	165,000	165,000	54.6	446.6	189,100	189,100	165
170	40.3	420.3	138,500	138,500	45.5	431.0	159,700	159,700	52.5	442.7	184,600	187,600	170
175	37.6	413.8	134,400	134,400	43.1	425.6	154,600	154,600	50.4	438.5	177,400	186,100	175
180	34.7	406.6	130,800	130,800	40.6	419.7	149,900	149,900	48.1	434.0	170,600	182,900	180
185	31.6	398.5	127,700	127,700	37.9	413.2	145,500	145,500	45.8	429.1	164,200	177,500	185
190	28.1	389.2	125,100	125,100	35.0	406.1	141,400	141,400	43.4	423.8	158,100	172,200	190
195	24.2	378.3	123,200	123,200	31.9	398.1	137,800	137,800	40.9	418.0	152,300	167,100	195
200	19.4	364.9	122,400	122,400	28.5	389.0	134,800	134,800	38.2	411.6	146,800	162,300	200
205	13.0	345.8	122,400	122,400	24.6	378.3	132,500	132,500	35.4	404.5	141,500	157,700	205
210					19.9	365.1	131,100	131,100	32.3	396.7	136,400	153,600	210
215					13.7	346.9	131,100	131,100	28.9	387.7	131,600	150,000	215
220									25.1	377.2	126,900	147,000	220
230									14.7	347.2	117,900	144,000	230
240													240
250													250
260													260
270													270
280													280
290													290
300													300

MLC650 VPC-MAX S-3

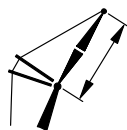
ASME B30.5



881,800 lb



301.8 ft

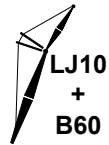


173.9 ft

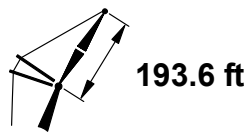
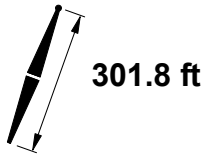
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165	64.6	456.6	160,300	189,800									165
170	62.7	454.0	153,700	189,800									170
175	60.8	451.1	147,400	189,800									175
180	58.9	448.1	141,500	189,800									180
185	56.9	444.7	136,000	189,800									185
190	54.9	441.2	130,700	189,800									190
195	52.8	437.3	125,700	189,800									195
200	50.7	433.2	120,900	189,800									200
205	48.5	428.7	116,300	189,800	58.9	439.9	91,600	182,300					205
210	46.2	423.8	112,000	189,800	56.9	436.6	87,900	182,300					210
215	43.8	418.6	107,900	189,700	54.9	433.0	84,400	182,300					215
220	41.3	412.8	103,900	189,000	52.8	429.2	81,000	182,300					220
230	35.8	399.6	96,400	184,000	48.5	420.6	74,700	172,900					230
240	29.4	383.0	89,500	175,000	43.8	410.4	68,900	163,500	54.6	422.1	48,600	148,400	240
250	21.3	360.4	82,900	167,900	38.7	398.4	63,500	154,900	50.4	414.0	44,100	140,400	250
260	4.8	311.7	76,100	160,600	32.8	383.7	58,400	146,900	45.9	404.6	39,900	133,100	260
270					25.7	364.8	53,600	139,400	40.9	393.5	36,000	126,300	270
280					15.7	336.2	48,800	132,400	35.4	380.1	32,400	119,900	280
290									29.0	363.2	28,800	113,900	290
300									20.6	340.0	25,400	108,300	300

MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	74.7	496.7	172,600	172,600									90
95	73.1	495.1	172,300	172,300									95
100	71.6	493.4	171,700	171,700									100
105	70.0	491.5	170,800	170,800									105
110	68.4	489.5	169,700	169,700	71.7	492.4	173,000	173,000					110
115	66.8	487.3	168,400	168,400	70.1	490.5	172,800	172,800					115
120	65.1	484.9	166,900	166,900	68.5	488.5	172,200	172,200					120
125	63.5	482.4	165,300	165,300	66.9	486.3	171,400	171,400					125
130	61.8	479.6	163,300	163,300	65.3	483.9	170,400	170,400					130
135	60.1	476.7	161,500	161,500	63.6	481.4	169,300	169,300	68.7	486.2	171,900	171,900	135
140	58.3	473.6	158,700	158,700	61.9	478.7	167,800	167,800	67.1	484.1	171,900	171,900	140
145	56.5	470.2	153,800	153,800	60.2	475.8	166,600	166,600	65.5	481.8	171,900	171,900	145
150	54.7	466.6	148,900	148,900	58.5	472.7	164,800	164,800	63.8	479.2	171,600	171,600	150
155	52.8	462.8	144,100	144,100	56.7	469.3	163,200	163,200	62.2	476.5	171,000	171,000	155
160	50.9	458.7	139,400	139,400	54.9	465.8	160,700	160,700	60.4	473.7	170,300	170,300	160
165	49.0	454.3	134,900	134,900	53.0	461.9	155,900	155,900	58.7	470.6	169,400	169,400	165
170	46.9	449.5	130,600	130,600	51.1	457.9	151,100	151,100	56.9	467.3	168,500	168,500	170
175	44.8	444.5	126,500	126,500	49.2	453.5	146,500	146,500	55.1	463.7	167,300	167,300	175
180	42.6	439.0	122,500	122,500	47.1	448.8	141,900	141,900	53.3	459.9	166,200	166,200	180
185	40.3	433.1	118,900	118,900	45.0	443.8	137,600	137,600	51.4	455.9	160,700	165,000	185
190	37.9	426.6	115,500	115,500	42.8	438.3	133,400	133,400	49.4	451.6	154,700	163,100	190
195	35.3	419.5	112,400	112,400	40.6	432.4	129,500	129,500	47.4	446.9	148,900	158,500	195
200	32.6	411.8	109,700	109,700	38.1	426.0	125,700	125,700	45.3	441.9	143,500	154,100	200
205	29.6	403.0	107,400	107,400	35.6	419.1	122,300	122,300	43.1	436.5	138,300	149,600	205
210	26.3	393.1	105,500	105,500	32.9	411.3	119,200	119,200	40.8	430.7	133,300	145,400	210
215	22.6	381.4	104,200	104,200	29.9	402.7	116,500	116,500	38.5	424.4	128,600	141,400	215
220	18.0	366.8	103,900	103,900	26.7	392.9	114,200	114,200	35.9	417.5	124,100	137,500	220
230					18.5	367.2	111,700	111,700	30.3	401.3	115,500	130,800	230
240									23.5	380.5	107,600	125,700	240
250									13.4	348.0	100,000	123,800	250
260													260
270													270
280													280
290													290
300													300
310													310
320													320

MLC650 VPC-MAX S-3

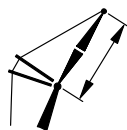
ASME B30.5



881,800 lb



301.8 ft

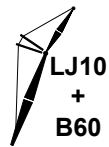


193.6 ft

	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175	64.1	473.6	143,100	166,500									175
180	62.4	471.0	137,200	166,500									180
185	60.7	468.1	131,700	166,500									185
190	59.0	465.0	126,500	166,500									190
195	57.2	461.7	121,600	166,500									195
200	55.4	458.2	116,800	166,500									200
205	53.5	454.5	112,400	166,500									205
210	51.6	450.5	108,100	166,500									210
215	49.7	446.2	104,000	166,500	59.0	456.9	79,900	159,000					215
220	47.7	441.6	100,100	166,500	57.2	453.6	76,600	159,000					220
230	43.4	431.3	92,800	166,500	53.6	446.4	70,400	159,000					230
240	38.8	419.3	86,100	166,100	49.7	438.1	64,700	159,000					240
250	33.6	405.0	79,800	158,100	45.6	428.5	59,400	151,600					250
260	27.6	387.1	74,000	151,000	41.2	417.4	54,600	143,700	51.4	431.4	35,500	129,600	260
270	19.8	362.8	68,400	145,400	36.3	404.4	50,000	136,400	47.4	422.4	31,700	122,800	270
280					30.8	388.5	45,700	129,600	43.1	412.0	28,200	116,600	280
290					24.1	368.1	41,500	123,200	38.5	399.9	24,900	110,800	290
300					14.4	337.2	37,400	117,200	33.3	385.4	21,700	105,300	300
310									27.1	367.2		100,100	310
320									19.2	342.3		95,200	320

MLC650 VPC-MAX S-3

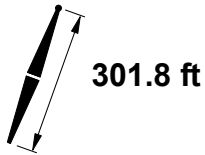
ASME B30.5



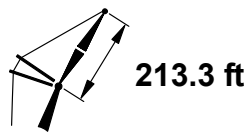
881,800 lb



360°



301.8 ft

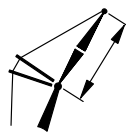
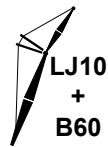


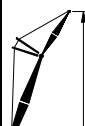
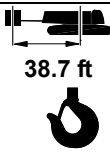
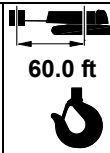
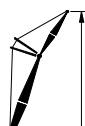
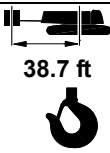
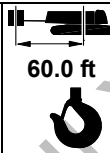
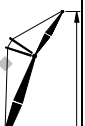
213.3 ft

85°					83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95	74.7	515.7	153,500	153,500									95
100	73.3	514.2	153,300	153,300									100
105	71.9	512.5	152,800	152,800									105
110	70.5	510.7	152,200	152,200									110
115	69.0	508.7	151,300	151,300	72.0	511.5	153,800	153,800					115
120	67.6	506.6	150,200	150,200	70.6	509.7	153,600	153,600					120
125	66.1	504.4	149,100	149,100	69.2	507.7	153,300	153,300					125
130	64.6	501.9	147,800	147,800	67.7	505.6	152,700	152,700					130
135	63.1	499.3	146,200	146,200	66.2	503.4	152,000	152,000					135
140	61.6	496.6	144,700	144,700	64.8	501.0	151,100	151,100	69.4	505.5	152,400	152,400	140
145	60.0	493.7	143,200	143,200	63.2	498.4	150,000	150,000	67.9	503.4	152,400	152,400	145
150	58.4	490.5	139,000	139,000	61.7	495.7	148,900	148,900	66.4	501.2	152,400	152,400	150
155	56.8	487.2	134,900	134,900	60.2	492.7	147,700	147,700	64.9	498.8	152,400	152,400	155
160	55.2	483.7	130,700	130,700	58.6	489.6	146,400	146,400	63.4	496.2	152,300	152,300	160
165	53.5	479.9	126,700	126,700	57.0	486.3	145,100	145,100	61.9	493.5	151,800	151,800	165
170	51.8	476.0	122,800	122,800	55.3	482.8	141,700	141,700	60.4	490.6	151,200	151,200	170
175	50.0	471.7	118,900	118,900	53.7	479.1	137,700	137,700	58.8	487.5	150,600	150,600	175
180	48.2	467.2	115,200	115,200	51.9	475.1	133,700	133,700	57.2	484.3	149,800	149,800	180
185	46.3	462.4	111,700	111,700	50.2	470.9	129,800	129,800	55.5	480.8	148,900	148,900	185
190	44.4	457.2	108,300	108,300	48.4	466.4	125,900	125,900	53.9	477.1	148,000	148,000	190
195	42.4	451.7	105,100	105,100	46.5	461.6	122,100	122,100	52.2	473.1	145,400	147,100	195
200	40.3	445.8	102,000	102,000	44.6	456.5	118,600	118,600	50.4	469.0	140,000	145,200	200
205	38.1	439.4	99,200	99,200	42.6	451.1	115,100	115,100	48.6	464.5	134,900	141,300	205
210	35.9	432.5	96,600	96,600	40.5	445.2	111,800	111,800	46.8	459.8	130,000	137,500	210
215	33.4	424.9	94,300	94,300	38.4	438.8	108,700	108,700	44.8	454.7	125,300	133,800	215
220	30.8	416.6	92,200	92,200	36.1	432.0	105,800	105,800	42.9	449.3	120,800	130,100	220
230	24.8	396.6	89,100	89,100	31.1	416.2	100,700	100,700	38.6	437.2	112,400	123,200	230
240	16.8	368.5	88,300	88,300	25.1	396.5	97,000	97,000	34.0	422.9	104,700	116,900	240
250					17.3	369.0	95,200	95,200	28.6	405.7	97,500	111,500	250
260									22.0	383.4	90,800	107,600	260
270									12.3	348.4	84,200	106,400	270
280													280
290													290
300													300
310													310
320													320
330													330
340													340

MLC650 VPC-MAX S-3

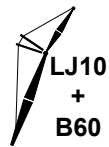
ASME B30.5



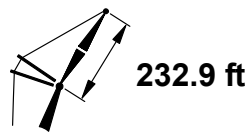
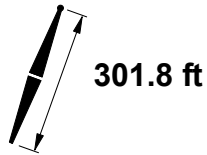
 75°					 70°					 65°				
	 ft	 °	 ft	 lb		 lb	 °	 ft	 lb		 lb	 °	 ft	 lb
95													95	
100													100	
105													105	
110													110	
115													115	
120													120	
125													125	
130													130	
135													135	
140													140	
145													145	
150													150	
155													155	
160													160	
165													165	
170													170	
175													175	
180													180	
185	63.6	490.6	127,500	147,400									185	
190	62.1	487.9	122,300	147,400									190	
195	60.6	485.0	117,400	147,400									195	
200	59.0	482.0	112,700	147,400									200	
205	57.4	478.7	108,300	147,400									205	
210	55.8	475.3	104,100	147,400									210	
215	54.1	471.6	100,100	147,400									215	
220	52.4	467.7	96,200	147,400									220	
230	48.9	459.2	89,000	147,400	57.4	470.6	66,100	139,900					230	
240	45.1	449.4	82,400	147,400	54.1	463.5	60,500	139,900					240	
250	41.1	438.3	76,300	147,400	50.7	455.4	55,300	139,900					250	
260	36.7	425.4	70,600	142,900	47.0	446.3	50,500	139,900					260	
270	31.8	410.0	65,300	136,300	43.2	436.0	46,100	133,300	52.2	448.6	119,400		270	
280	26.0	390.9	60,200	130,500	39.0	424.0	41,900	126,600	48.6	440.0	113,200		280	
290	18.5	364.9	55,400	126,100	34.4	410.0	38,000	120,300	44.9	430.2	107,500		290	
300					29.1	393.0	34,300	114,500	40.8	419.0	102,100		300	
310					22.6	371.2	30,700	108,900	36.4	405.9	97,000		310	
320					13.3	338.0	27,000	103,600	31.4	390.3	92,300		320	
330									25.6	370.9	87,800		330	
340									17.9	344.2	83,400		340	

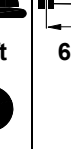
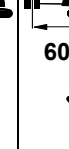
MLC650 VPC-MAX S-3

ASME B30.5



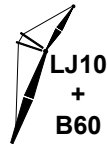
881,800 lb



	 85°					 83°					 80°					
	 ft	 °	 ft	 lb	 lb	 ft	 lb	 lb	 lb	 ft	 lb	 lb	 lb	 ft		
100	74.8	534.8	136,700	136,700											100	
105	73.5	533.3	136,600	136,600											105	
110	72.2	531.6	136,200	136,200											110	
115	70.9	529.8	135,700	135,700											115	
120	69.6	527.9	135,100	135,100	72.3	530.6	136,700	136,700							120	
125	68.2	525.9	134,300	134,300	71.0	528.8	136,600	136,600							125	
130	66.9	523.7	133,300	133,300	69.7	526.9	136,400	136,400							130	
135	65.6	521.4	132,300	132,300	68.4	524.9	136,100	136,100							135	
140	64.2	518.9	131,100	131,100	67.0	522.7	135,600	135,600							140	
145	62.8	516.3	130,200	130,200	65.7	520.4	135,000	135,000	69.9	524.6	134,800	134,800			145	
150	61.4	513.5	128,700	128,700	64.3	518.0	134,300	134,300	68.5	522.6	134,800	134,800			150	
155	60.0	510.6	126,200	126,200	62.9	515.4	133,500	133,500	67.2	520.5	134,800	134,800			155	
160	58.5	507.5	122,700	122,700	61.5	512.6	132,400	132,400	65.9	518.2	134,800	134,800			160	
165	57.0	504.2	119,200	119,200	60.1	509.7	131,400	131,400	64.5	515.8	134,800	134,800			165	
170	55.5	500.7	115,700	115,700	58.7	506.6	130,500	130,500	63.1	513.2	134,800	134,800			170	
175	54.0	497.1	112,300	112,300	57.2	503.3	129,400	129,400	61.7	510.5	134,700	134,700			175	
180	52.5	493.2	109,000	109,000	55.7	499.9	125,900	125,900	60.3	507.6	134,300	134,300			180	
185	50.9	489.1	105,700	105,700	54.2	496.2	122,500	122,500	58.8	504.5	133,800	133,800			185	
190	49.2	484.7	102,500	102,500	52.6	492.4	119,100	119,100	57.4	501.2	133,300	133,300			190	
195	47.6	480.1	99,400	99,400	51.0	488.3	115,800	115,800	55.9	497.8	132,600	132,600			195	
200	45.8	475.2	96,500	96,500	49.4	483.9	112,500	112,500	54.4	494.2	131,900	131,900			200	
205	44.1	470.0	93,700	93,700	47.7	479.4	109,300	109,300	52.8	490.4	131,200	131,200			205	
210	42.2	464.5	91,000	91,000	46.0	474.5	106,200	106,200	51.2	486.3	127,600	130,100			210	
215	40.3	458.5	88,400	88,400	44.2	469.3	103,100	103,100	49.6	482.0	122,900	126,800			215	
220	38.3	452.2	86,000	86,000	42.4	463.8	100,200	100,200	47.9	477.4	118,500	123,600			220	
230	34.1	438.0	81,800	81,800	38.5	451.6	94,800	94,800	44.5	467.5	110,200	117,300			230	
240	29.2	421.0	78,400	78,400	34.3	437.5	90,000	90,000	40.8	456.2	102,600	111,200			240	
250	23.5	399.8	76,100	76,100	29.5	420.7	86,100	86,100	36.7	443.2	95,600	105,500			250	
260	15.7	369.9	75,600	75,600	23.8	399.8	83,200	83,200	32.3	428.1	89,000	100,500			260	
270					16.2	370.5	82,100	82,100	27.1	409.7	82,900	96,200			270	
280									20.8	386.0	77,100	93,100			280	
290									11.2	348.5	71,400	92,300			290	
300															300	
310															310	
320															320	
330															330	
340															340	
350															350	
360															360	

MLC650 VPC-MAX S-3

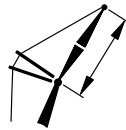
ASME B30.5



881,800 lb



301.8 ft

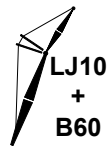


232.9 ft

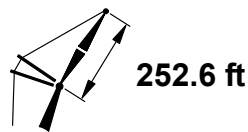
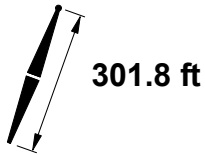
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190	64.7	510.1	119,200	128,900								190
195	63.3	507.6	114,400	128,900								195
200	61.9	504.9	109,800	128,900								200
205	60.5	502.0	105,400	128,900								205
210	59.0	498.9	101,200	128,900								210
215	57.6	495.7	97,200	128,900								215
220	56.1	492.3	93,400	128,900								220
230	53.0	484.9	86,300	128,900								230
240	49.8	476.6	79,700	128,900	57.6	487.6	57,400	122,000				240
250	46.5	467.3	73,700	128,900	54.6	480.6	52,300	122,000				250
260	42.9	456.8	68,100	128,900	51.5	472.8	47,600	122,000				260
270	39.1	444.9	62,900	128,900	48.2	464.0	43,200	122,000				270
280	34.9	431.0	58,100	124,100	44.7	454.1	39,200	122,000	52.8	465.8	110,700	280
290	30.2	414.7	53,500	118,600	41.1	442.9	35,300	118,200	49.6	457.5	105,000	290
300	24.6	394.4	49,100	113,900	37.1	430.1	31,800	112,400	46.2	448.1	99,700	300
310	17.4	366.8	44,900	110,300	32.6	415.2	28,300	107,000	42.7	437.5	94,700	310
320					27.6	397.1	25,100	101,800	38.8	425.5	90,100	320
330					21.4	374.0	21,900	97,000	34.6	411.5	85,700	330
340					12.3	338.4		92,300	29.8	394.9	81,500	340
350									24.2	374.3	77,500	350
360									16.8	345.9	73,700	360

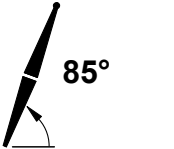
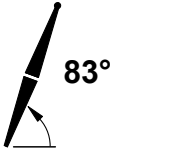
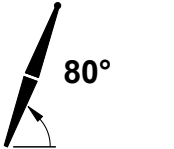
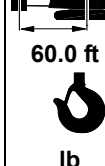
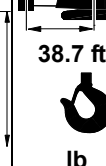
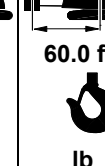
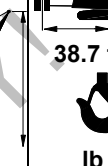
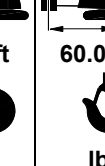
MLC650 VPC-MAX S-3

ASME B30.5



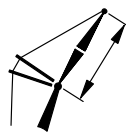
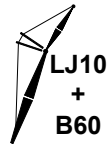
881,800 lb



																
 ft	 °	 ft	 38.7 ft lb	 60.0 ft lb		 °	 ft	 38.7 ft lb	 60.0 ft lb		 °	 ft	 38.7 ft lb	 60.0 ft lb	 ft	
105	74.8	553.8	121,100	121,100												105
110	73.6	552.3	121,000	121,000												110
115	72.4	550.7	120,700	120,700												115
120	71.2	549.0	120,400	120,400												120
125	70.0	547.1	119,900	119,900	72.6	549.6	120,900	120,900								125
130	68.8	545.1	119,200	119,200	71.4	547.9	120,900	120,900								130
135	67.6	543.0	118,400	118,400	70.1	546.1	120,800	120,800								135
140	66.3	540.8	117,700	117,700	68.9	544.1	120,500	120,500								140
145	65.1	538.4	116,700	116,700	67.7	542.0	120,200	120,200								145
150	63.8	535.9	116,000	116,000	66.5	539.8	119,700	119,700								150
155	62.5	533.3	114,700	114,700	65.2	537.4	119,100	119,100	69.1	541.9	119,100	119,100	119,100	119,100		155
160	61.2	530.5	113,400	113,400	63.9	535.0	118,600	118,600	67.9	539.8	119,100	119,100	119,100	119,100		160
165	59.9	527.6	110,500	110,500	62.7	532.3	117,900	117,900	66.6	537.6	119,100	119,100	119,100	119,100		165
170	58.6	524.5	107,500	107,500	61.4	529.6	117,200	117,200	65.4	535.2	119,100	119,100	119,100	119,100		170
175	57.2	521.2	104,600	104,600	60.1	526.6	116,200	116,200	64.1	532.8	119,100	119,100	119,100	119,100		175
180	55.9	517.8	101,700	101,700	58.7	523.6	115,400	115,400	62.8	530.2	119,100	119,100	119,100	119,100		180
185	54.5	514.2	98,800	98,800	57.4	520.3	113,900	113,900	61.5	527.4	118,900	118,900	118,900	118,900		185
190	53.0	510.4	95,900	95,900	56.0	516.9	111,000	111,000	60.2	524.5	118,600	118,600	118,600	118,600		190
195	51.6	506.4	93,200	93,200	54.6	513.3	108,200	108,200	58.9	521.5	118,200	118,200	118,200	118,200		195
200	50.1	502.1	90,400	90,400	53.2	509.5	105,300	105,300	57.5	518.2	117,800	117,800	117,800	117,800		200
205	48.6	497.7	87,800	87,800	51.7	505.5	102,400	102,400	56.2	514.8	117,300	117,300	117,300	117,300		205
210	47.0	493.0	85,200	85,200	50.2	501.3	99,600	99,600	54.8	511.3	116,800	116,800	116,800	116,800		210
215	45.4	488.0	82,700	82,700	48.7	496.9	96,900	96,900	53.4	507.5	116,200	116,200	116,200	116,200		215
220	43.8	482.8	80,400	80,400	47.2	492.2	94,200	94,200	51.9	503.6	114,800	115,600	115,600	115,600		220
230	40.3	471.3	76,000	76,000	43.9	482.1	89,100	89,100	48.9	495.0	106,500	110,100	110,100	110,100		230
240	36.6	458.2	72,100	72,100	40.5	470.7	84,300	84,300	45.8	485.4	99,000	104,700	104,700	104,700		240
250	32.5	443.2	68,800	68,800	36.8	457.7	80,000	80,000	42.5	474.8	92,000	99,500	99,500	99,500		250
260	27.8	425.2	66,200	66,200	32.7	442.7	76,200	76,200	38.9	462.7	85,600	94,500	94,500	94,500		260
270	22.3	402.8	64,600	64,600	28.1	425.0	73,100	73,100	35.1	448.9	79,600	89,900	89,900	89,900		270
280	14.7	371.1	64,300	64,300	22.6	402.9	70,900	70,900	30.8	432.9	74,000	85,900	85,900	85,900		280
290					15.2	371.8	70,300	70,300	25.8	413.5	68,700	82,500	82,500	82,500		290
300										19.7	388.4	63,700	80,200	80,200		300
310										10.3	348.3	58,700	79,700	79,700		310
320																320
330																330
340																340
350																350
360																360
370																370
380																380

MLC650 VPC-MAX S-3

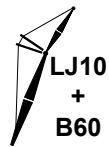
ASME B30.5



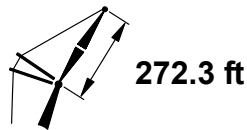
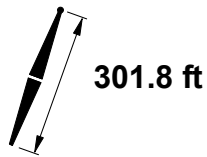
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb
105												
110												
115												
120												
125												
130												
135												
140												
145												
150												
155												
160												
165												
170												
175												
180												
185												
190												
195												
200	64.3	527.1	105,300	113,300								
205	63.0	524.6	101,000	113,300								
210	61.7	521.8	96,800	113,300								
215	60.4	518.9	92,900	113,300								
220	59.1	515.9	89,100	113,300								
230	56.4	509.3	82,100	113,300								
240	53.6	502.1	75,600	113,300								
250	50.6	494.0	69,700	113,300	57.8	504.6	47,800	106,400				
260	47.6	485.0	64,200	113,300	55.0	497.7	43,200	106,400				
270	44.4	475.0	59,000	113,300	52.1	490.0	38,900	106,400				
280	41.0	463.8	54,300	113,300	49.2	481.5	34,900	106,400				
290	37.3	451.0	49,800	112,000	46.0	472.0	31,200	106,400	53.4	483.0	98,000	
300	33.3	436.4	45,600	107,100	42.7	461.5	27,700	106,400	50.4	474.9	96,200	
310	28.7	419.1	41,600	102,700	39.2	449.5	24,400	103,800	47.4	465.8	91,300	
320	23.4	397.7	37,800	98,800	35.4	435.9	21,300	98,800	44.2	455.8	86,700	
330	16.4	368.4	34,100	96,100	31.1	420.0		94,000	40.7	444.4	82,400	
340					26.2	401.0		89,600	37.1	431.6	78,300	
350					20.2	376.5		85,300	33.0	416.8	74,400	
360					11.3	338.6		81,100	28.4	399.2	70,700	
370									23.0	377.5	67,200	
380									15.8	347.4	63,800	

MLC650 VPC-MAX S-3

ASME B30.5



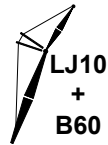
881,800 lb



85°					83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
110	74.9	572.9	107,900	107,900									110
115	73.8	571.4	107,700	107,700									115
120	72.7	569.8	107,500	107,500									120
125	71.5	568.1	107,200	107,200									125
130	70.4	566.3	106,600	106,600	72.8	568.7	107,600	107,600					130
135	69.3	564.3	106,200	106,200	71.6	567.0	107,600	107,600					135
140	68.2	562.3	105,600	105,600	70.5	565.2	107,500	107,500					140
145	67.0	560.1	104,900	104,900	69.4	563.3	107,200	107,200					145
150	65.9	557.8	104,100	104,100	68.3	561.3	107,000	107,000					150
155	64.7	555.4	103,300	103,300	67.1	559.1	106,600	106,600					155
160	63.5	552.9	102,500	102,500	66.0	556.9	106,200	106,200	69.5	561.0	105,700	105,700	160
165	62.3	550.3	101,600	101,600	64.8	554.5	105,700	105,700	68.4	559.0	105,700	105,700	165
170	61.1	547.5	99,600	99,600	63.6	552.0	105,000	105,000	67.3	556.9	105,700	105,700	170
175	59.9	544.5	97,000	97,000	62.4	549.3	104,400	104,400	66.1	554.6	105,700	105,700	175
180	58.7	541.4	94,600	94,600	61.2	546.5	103,700	103,700	64.9	552.3	105,700	105,700	180
185	57.4	538.2	92,100	92,100	60.0	543.6	103,000	103,000	63.8	549.8	105,700	105,700	185
190	56.1	534.8	89,700	89,700	58.8	540.5	102,300	102,300	62.6	547.1	105,700	105,700	190
195	54.8	531.2	87,200	87,200	57.5	537.3	100,600	100,600	61.4	544.4	105,500	105,500	195
200	53.5	527.5	84,800	84,800	56.3	533.9	98,200	98,200	60.2	541.5	105,200	105,200	200
205	52.2	523.6	82,400	82,400	55.0	530.4	95,700	95,700	58.9	538.4	104,900	104,900	205
210	50.8	519.5	80,100	80,100	53.7	526.7	93,300	93,300	57.7	535.2	104,500	104,500	210
215	49.4	515.2	77,800	77,800	52.3	522.8	90,900	90,900	56.4	531.9	104,100	104,100	215
220	48.0	510.6	75,600	75,600	51.0	518.7	88,600	88,600	55.1	528.3	103,600	103,600	220
230	45.1	500.8	71,400	71,400	48.2	509.9	83,900	83,900	52.5	520.8	102,500	102,500	230
240	42.0	490.0	67,500	67,500	45.2	500.1	79,500	79,500	49.8	512.4	96,600	98,300	240
250	38.6	477.8	64,100	64,100	42.1	489.3	75,300	75,300	46.9	503.2	89,700	93,700	250
260	35.1	464.0	61,000	61,000	38.8	477.2	71,400	71,400	43.9	493.0	83,400	89,200	260
270	31.1	448.1	58,400	58,400	35.2	463.5	68,000	68,000	40.7	481.7	77,500	84,900	270
280	26.6	429.2	56,400	56,400	31.3	447.7	65,000	65,000	37.3	468.9	71,900	80,900	280
290	21.2	405.6	55,300	55,300	26.8	429.0	62,600	62,600	33.6	454.4	66,800	77,200	290
300	13.9	372.1	55,100	55,100	21.5	405.7	60,900	60,900	29.4	437.4	61,900	73,900	300
310					14.3	372.9	60,600	60,600	24.7	417.0	57,300	71,200	310
320									18.7	390.6	52,900	69,500	320
330									9.5	347.8	48,500	69,200	330
340													340
350													350
360													360
370													370
380													380
390													390
400													400

MLC650 VPC-MAX S-3

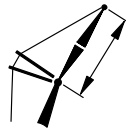
ASME B30.5



881,800 lb



301.8 ft

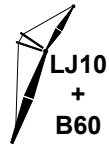


272.3 ft

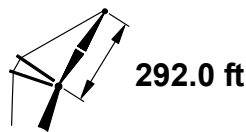
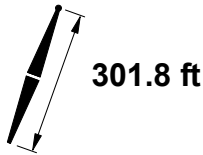
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220												220
230												230
240												240
250												250
260												260
270												270
280												280
290												290
300												300
310												310
320												320
330												330
340												340
350												350
360												360
370												370
380												380
390												390
400												400

MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



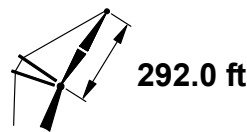
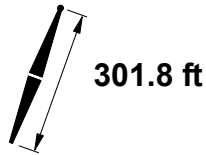
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.9	591.9	92,600	92,600									115
120	73.9	590.4	92,500	92,500									120
125	72.8	588.9	92,300	92,300									125
130	71.8	587.2	92,000	92,000									130
135	70.8	585.4	91,800	91,800	72.9	587.8	92,100	92,100					135
140	69.7	583.5	91,400	91,400	71.9	586.1	92,100	92,100					140
145	68.6	581.5	90,800	90,800	70.9	584.4	92,100	92,100					145
150	67.6	579.4	90,300	90,300	69.8	582.5	91,900	91,900					150
155	66.5	577.2	89,800	89,800	68.8	580.5	91,700	91,700					155
160	65.4	574.9	89,200	89,200	67.7	578.4	91,500	91,500					160
165	64.3	572.5	88,600	88,600	66.6	576.2	91,100	91,100	69.9	580.2	90,100	90,100	165
170	63.2	569.9	87,900	87,900	65.5	573.9	90,700	90,700	68.9	578.3	90,100	90,100	170
175	62.1	567.2	87,200	87,200	64.4	571.5	90,300	90,300	67.8	576.2	90,100	90,100	175
180	61.0	564.4	86,500	86,500	63.3	568.9	89,800	89,800	66.8	574.0	90,100	90,100	180
185	59.9	561.5	84,600	84,600	62.2	566.3	89,300	89,300	65.7	571.7	90,100	90,100	185
190	58.7	558.4	82,600	82,600	61.1	563.5	88,800	88,800	64.6	569.3	90,100	90,100	190
195	57.5	555.2	80,600	80,600	60.0	560.5	88,200	88,200	63.5	566.8	90,100	90,100	195
200	56.4	551.8	78,500	78,500	58.8	557.5	87,700	87,700	62.4	564.1	90,100	90,100	200
205	55.2	548.3	76,600	76,600	57.7	554.3	87,100	87,100	61.3	561.3	89,900	89,900	205
210	53.9	544.6	74,500	74,500	56.5	550.9	86,100	86,100	60.1	558.4	89,700	89,700	210
215	52.7	540.8	72,600	72,600	55.3	547.4	84,100	84,100	59.0	555.4	89,400	89,400	215
220	51.4	536.8	70,700	70,700	54.1	543.8	82,200	82,200	57.8	552.2	89,100	89,100	220
230	48.9	528.2	66,900	66,900	51.6	535.9	78,300	78,300	55.4	545.4	88,400	88,400	230
240	46.2	518.7	63,300	63,300	49.0	527.4	74,400	74,400	53.0	537.9	87,700	87,700	240
250	43.3	508.3	60,000	60,000	46.3	518.0	70,700	70,700	50.5	529.8	85,700	86,900	250
260	40.3	496.8	56,900	56,900	43.5	507.6	67,100	67,100	47.8	520.9	79,400	83,300	260
270	37.1	483.9	54,000	54,000	40.5	496.2	63,800	63,800	45.1	511.1	73,600	79,600	270
280	33.7	469.4	51,600	51,600	37.3	483.4	60,700	60,700	42.2	500.3	68,100	76,000	280
290	29.9	452.7	49,500	49,500	33.9	468.9	57,900	57,900	39.1	488.3	63,000	72,600	290
300	25.5	432.9	47,900	47,900	30.1	452.3	55,500	55,500	35.8	474.8	58,200	69,400	300
310	20.3	408.2	47,000	47,000	25.7	432.7	53,600	53,600	32.2	459.5	53,700	66,400	310
320	13.1	372.8	47,000	47,000	20.6	408.3	52,300	52,300	28.2	441.7	49,500	63,800	320
330					13.5	373.8	52,100	52,100	23.6	420.3	45,400	61,600	330
340									17.8	392.6	41,500	60,300	340
350									8.7	347.0	37,600	60,100	350
360													360
370													370
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400													400
410													410
420													420

MLC650 VPC-MAX S-3

ASME B30.5



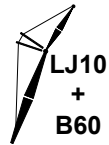
881,800 lb



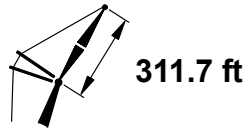
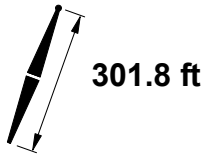
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215	64.7	563.6	84,800	84,800								215
220	63.6	561.1	81,600	84,800								220
230	61.4	555.7	74,700	84,800								230
240	59.1	549.8	68,400	84,800								240
250	56.8	543.4	62,500	84,800								250
260	54.4	536.3	57,100	84,800								260
270	51.9	528.5	52,100	84,800	58.0	538.5	79,100					270
280	49.3	520.1	47,500	84,800	55.6	531.7	79,100					280
290	46.7	510.8	43,200	84,800	53.2	524.4	79,100					290
300	43.9	500.6	39,100	84,800	50.7	516.3	79,100					300
310	40.9	489.3	35,300	84,800	48.0	507.4	79,100	54.2	517.2	72,900		310
320	37.7	476.7	31,700	84,800	45.3	497.7	79,100	51.7	509.5	72,900		320
330	34.3	462.5	28,300	83,900	42.4	487.0	79,100	49.2	500.9	72,900		330
340	30.6	446.2	25,100	80,700	39.4	475.0	79,100	46.5	491.6	72,500		340
350	26.3	427.1	22,000	77,900	36.1	461.7	79,100	43.7	481.3	68,800		350
360	21.3	403.5		75,400	32.5	446.6	76,300	40.7	469.9	65,200		360
370	14.6	371.0		73,700	28.6	429.0	72,500	37.5	457.2	61,800		370
380					24.0	408.0	69,000	34.1	442.9	58,600		380
390					18.3	380.9	65,600	30.3	426.5	55,600		390
400					9.7	338.1	62,300	26.0	407.1	52,600		400
410								20.9	383.1	49,800		410
420								14.1	349.7	47,000		420

MLC650 VPC-MAX S-3

ASME B30.5



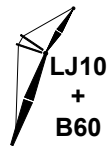
881,800 lb



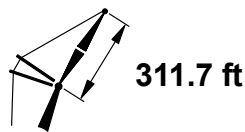
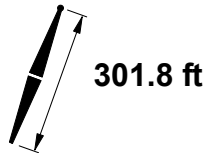
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
120	74.9	611.0	81,900	81,900									120
125	73.9	609.5	81,800	81,800									125
130	73.0	607.9	81,500	81,500									130
135	72.0	606.3	81,100	81,100									135
140	71.0	604.5	80,800	80,800									140
145	70.1	602.7	80,500	80,500	72.1	605.2	81,100	81,100					145
150	69.1	600.7	80,100	80,100	71.1	603.5	81,000	81,000					150
155	68.1	598.7	79,600	79,600	70.2	601.6	80,800	80,800					155
160	67.1	596.5	79,200	79,200	69.2	599.7	80,600	80,600					160
165	66.1	594.3	78,700	78,700	68.2	597.7	80,400	80,400					165
170	65.1	591.9	78,100	78,100	67.2	595.5	80,100	80,100					170
175	64.0	589.5	77,600	77,600	66.2	593.3	79,800	79,800	69.3	597.4	79,100	79,100	175
180	63.0	586.9	77,000	77,000	65.2	590.9	79,500	79,500	68.3	595.4	79,100	79,100	180
185	62.0	584.2	76,400	76,400	64.1	588.5	79,100	79,100	67.3	593.3	79,100	79,100	185
190	60.9	581.4	75,600	75,600	63.1	585.9	78,700	78,700	66.3	591.1	79,100	79,100	190
195	59.8	578.4	74,000	74,000	62.1	583.2	78,200	78,200	65.3	588.7	79,100	79,100	195
200	58.8	575.4	72,200	72,200	61.0	580.4	77,800	77,800	64.3	586.3	79,100	79,100	200
205	57.7	572.2	70,500	70,500	59.9	577.5	77,300	77,300	63.2	583.7	78,900	78,900	205
210	56.6	568.8	68,800	68,800	58.9	574.4	76,800	76,800	62.2	581.1	78,800	78,800	210
215	55.4	565.3	67,100	67,100	57.8	571.3	76,300	76,300	61.1	578.3	78,600	78,600	215
220	54.3	561.7	65,400	65,400	56.7	567.9	75,700	75,700	60.1	575.4	78,400	78,400	220
230	52.0	554.0	62,100	62,100	54.4	560.9	72,400	72,400	57.9	569.2	77,900	77,900	230
240	49.6	545.6	58,800	58,800	52.1	553.2	69,000	69,000	55.7	562.4	77,300	77,300	240
250	47.1	536.4	55,700	55,700	49.7	544.8	65,800	65,800	53.4	555.1	76,700	76,700	250
260	44.5	526.4	52,800	52,800	47.2	535.7	62,600	62,600	51.1	547.1	76,000	76,000	260
270	41.8	515.5	50,100	50,100	44.6	525.7	59,500	59,500	48.6	538.4	71,200	74,000	270
280	38.9	503.3	47,500	47,500	41.9	514.8	56,500	56,500	46.1	528.9	65,800	70,800	280
290	35.8	489.8	45,200	45,200	39.0	502.7	53,800	53,800	43.4	518.6	60,800	67,700	290
300	32.4	474.6	43,300	43,300	35.9	489.3	51,300	51,300	40.7	507.2	56,100	64,700	300
310	28.7	457.1	41,600	41,600	32.6	474.2	49,000	49,000	37.7	494.5	51,600	61,900	310
320	24.5	436.4	40,400	40,400	28.9	456.8	47,100	47,100	34.5	480.4	47,400	59,200	320
330	19.4	410.5	39,800	39,800	24.7	436.3	45,500	45,500	31.0	464.4	43,500	56,800	330
340	12.3	373.3	39,800	39,800	19.7	410.8	44,600	44,600	27.2	445.8	39,700	54,700	340
350					12.8	374.5	44,500	44,500	22.7	423.4	36,200	53,000	350
360									17.0	394.4	32,700	52,000	360
370									7.9	345.9	29,100	51,900	370
380													380
390													390
400													400
410													410
420													420
430													430
440													440

MLC650 VPC-MAX S-3

ASME B30.5



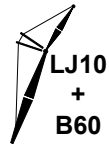
881,800 lb



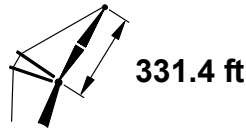
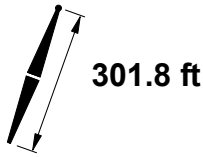
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220												220
230	63.4	578.1	71,800	74,000								230
240	61.3	572.7	65,500	74,000								240
250	59.2	566.8	59,700	74,000								250
260	57.0	560.3	54,400	74,000								260
270	54.7	553.4	49,500	74,000								270
280	52.4	545.8	44,900	74,000	58.1	555.5	68,300					280
290	50.0	537.5	40,600	74,000	55.9	548.8	68,300					290
300	47.6	528.5	36,600	74,000	53.6	541.5	68,300					300
310	45.0	518.6	32,800	74,000	51.2	533.6	68,300					310
320	42.3	507.8	29,300	74,000	48.8	524.9	68,300	54.6	534.3	62,200		320
330	39.4	495.9	25,900	74,000	46.3	515.5	68,300	52.3	526.7	62,200		330
340	36.4	482.7	22,800	74,000	43.7	505.2	68,300	49.9	518.4	62,200		340
350	33.1	467.8		72,500	40.9	493.9	68,300	47.4	509.3	62,200		350
360	29.4	450.8		69,900	37.9	481.4	68,300	44.8	499.4	62,200		360
370	25.3	430.8		67,600	34.8	467.4	68,300	42.1	488.5	59,600		370
380	20.4	406.1		65,600	31.3	451.5	67,100	39.2	476.5	56,500		380
390	13.9	372.0		64,400	27.5	433.2	63,800	36.2	463.2	53,500		390
400					23.0	411.2	60,600	32.8	448.2	50,600		400
410					17.5	382.9	57,000	29.2	431.0	47,800		410
420					9.0	337.5	53,300	25.0	410.7	45,200		420
430								20.1	385.6	42,700		430
440								13.3	350.5	40,100		440

MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



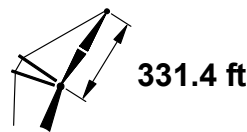
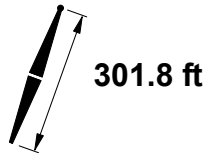
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
125	74.9	630.0	71,000	71,000									125
130	74.0	628.5	70,900	70,900									130
135	73.1	627.0	70,700	70,700									135
140	72.2	625.4	70,400	70,400									140
145	71.3	623.6	70,100	70,100									145
150	70.4	621.8	69,800	69,800	72.3	624.3	70,200	70,200					150
155	69.5	619.9	69,500	69,500	71.4	622.6	70,100	70,100					155
160	68.5	617.9	69,100	69,100	70.5	620.8	70,000	70,000					160
165	67.6	615.8	68,700	68,700	69.5	618.9	69,800	69,800					165
170	66.6	613.6	68,200	68,200	68.6	616.9	69,600	69,600					170
175	65.7	611.3	68,200	68,200	67.7	614.8	69,300	69,300					175
180	64.7	609.0	67,300	67,300	66.7	612.6	69,100	69,100	69.7	616.6	68,200	68,200	180
185	63.8	606.5	66,900	66,900	65.8	610.4	68,800	68,800	68.7	614.6	68,200	68,200	185
190	62.8	603.9	66,300	66,300	64.8	608.0	68,400	68,400	67.8	612.6	68,200	68,200	190
195	61.8	601.1	65,800	65,800	63.9	605.5	68,100	68,100	66.9	610.4	68,200	68,200	195
200	60.8	598.3	65,000	65,000	62.9	602.9	67,700	67,700	65.9	608.1	68,200	68,200	200
205	59.8	595.4	63,600	63,600	61.9	600.2	67,300	67,300	65.0	605.8	68,100	68,100	205
210	58.8	592.3	62,200	62,200	60.9	597.4	67,000	67,000	64.0	603.3	68,000	68,000	210
215	57.8	589.1	60,700	60,700	59.9	594.5	66,600	66,600	63.0	600.7	67,900	67,900	215
220	56.7	585.8	59,300	59,300	58.9	591.4	66,200	66,200	62.0	598.0	67,700	67,700	220
230	54.6	578.8	56,400	56,400	56.8	584.9	65,300	65,300	60.0	592.3	67,300	67,300	230
240	52.5	571.2	53,500	53,500	54.7	577.9	62,600	62,600	58.0	586.1	66,800	66,800	240
250	50.2	563.0	50,700	50,700	52.6	570.4	59,900	59,900	55.9	579.4	66,400	66,400	250
260	47.9	554.1	48,100	48,100	50.3	562.2	57,100	57,100	53.8	572.2	65,800	65,800	260
270	45.5	544.4	45,500	45,500	48.0	553.3	54,300	54,300	51.6	564.4	65,200	65,200	270
280	43.0	533.8	43,100	43,100	45.6	543.7	51,600	51,600	49.3	555.9	62,000	64,400	280
290	40.3	522.3	40,900	40,900	43.1	533.2	49,100	49,100	47.0	546.7	57,000	61,800	290
300	37.5	509.6	38,800	38,800	40.5	521.7	46,700	46,700	44.5	536.7	52,300	59,200	300
310	34.5	495.4	37,000	37,000	37.7	509.0	44,500	44,500	42.0	525.8	47,900	56,700	310
320	31.3	479.5	35,400	35,400	34.7	494.9	42,400	42,400	39.3	513.8	43,800	54,200	320
330	27.7	461.3	34,100	34,100	31.5	479.1	40,600	40,600	36.4	500.5	39,900	51,900	330
340	23.6	439.7	33,100	33,100	27.9	461.0	39,000	39,000	33.3	485.8	36,200	49,700	340
350	18.6	412.7	32,800	32,800	23.8	439.6	37,900	37,900	30.0	469.0	32,700	47,700	350
360	11.6	373.6	32,800	32,800	18.9	413.0	37,200	37,200	26.2	449.7	29,400	46,000	360
370					12.1	374.9	35,500	37,200	21.8	426.3	26,100	44,700	370
380									16.3	396.0	23,000	42,700	380
390									7.2	344.3		39,200	390
400													400
410													410
420													420
430													430
440													440
450													450
460													460

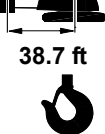
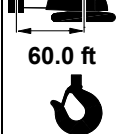
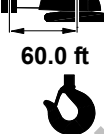
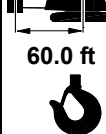
MLC650 VPC-MAX S-3

ASME B30.5



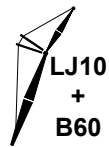
881,800 lb



	 75°				 70°				 65°				
 ft	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 60.0 ft  lb	 °	 ft	 60.0 ft  lb	 ft		
125											125		
130											130		
135											135		
140											140		
145											145		
150											150		
155											155		
160											160		
165											165		
170											170		
175											175		
180											180		
185											185		
190											190		
195											195		
200											200		
205											205		
210											210		
215											215		
220											220		
230											230		
240	63.1	595.1	61,100	63,300							240		
250	61.2	589.7	55,400	63,300							250		
260	59.2	583.7	50,100	63,300							260		
270	57.1	577.3	45,200	63,300							270		
280	55.0	570.4	40,700	63,300							280		
290	52.9	562.9	36,400	63,300	58.2	572.5	57,700				290		
300	50.6	554.8	32,500	63,300	56.1	565.8	57,700				300		
310	48.3	546.0	28,700	63,300	54.0	558.6	57,700				310		
320	45.9	536.5	25,300	63,300	51.8	550.8	57,700				320		
330	43.4	526.1	22,000	63,300	49.5	542.4	57,700	54.9	551.4	51,700	330		
340	40.8	514.8		63,300	47.2	533.2	57,700	52.7	543.9	51,700	340		
350	38.1	502.3		63,300	44.7	523.3	57,700	50.5	535.7	51,700	350		
360	35.1	488.4		63,300	42.2	512.5	57,700	48.2	526.9	51,700	360		
370	31.9	472.9		60,300	39.5	500.6	57,700	45.8	517.3	51,700	370		
380	28.4	455.1		56,100	36.6	487.4	57,700	43.3	506.8	51,700	380		
390	24.4	434.2		51,900	33.6	472.8	57,700	40.7	495.4	50,200	390		
400	19.6	408.5		47,600	30.2	456.2	56,800	37.9	482.8	47,300	400		
410	13.2	372.7		43,500	26.5	437.1	53,300	34.9	468.9	44,600	410		
420					22.2	414.2	49,900	31.7	453.2	42,100	420		
430					16.8	384.6	46,500	28.1	435.3	39,500	430		
440					8.3	336.5	43,100	24.1	414.2	36,800	440		
450								19.3	388.0	34,100	450		
460								12.6	351.1	31,500	460		

MLC650 VPC-MAX S-3

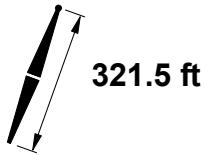
ASME B30.5



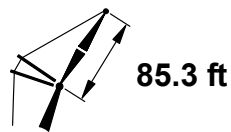
881,800 lb



360°



321.5 ft

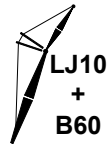


85.3 ft

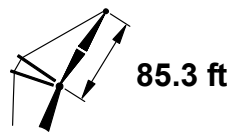
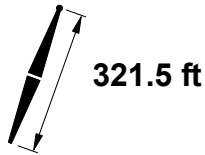
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	73.3	411.2	308,500 d	308,500 d									65
70	69.7	409.3	294,800 d	294,800 d									70
75	66.0	406.9	292,300 d	292,300 d									75
80	62.2	404.2	288,700 c	288,700 c									80
85	58.2	400.9	284,700 c	284,700 c									85
90	54.0	397.2	279,900 b	279,900 b									90
95	49.5	392.8	278,000 b	278,000 b									95
100	44.7	387.7	275,300	275,300									100
105	39.4	381.5	270,000	270,000									105
110	33.3	373.9	269,500	269,500									110
115	25.8	363.9	264,100	264,100									115
120	14.4	347.6	263,500	263,500									120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220

MLC650 VPC-MAX S-3

ASME B30.5



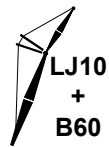
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	62.3	394.0	224,000 c	294,500 c									135
140	58.3	390.8	213,900 b	292,700 b									140
145	54.2	387.0	204,500 b	291,400 b									145
150	49.7	382.7	195,800 b	288,600 b									150
155	44.9	377.6	187,500	287,200									155
160	39.6	371.5	179,700	284,600									160
165	33.5	363.9	172,200	283,100	59.7	383.2	142,500 b	273,500 b					165
170	26.1	354.1	165,100	279,500	55.6	379.7	136,700 b	264,000 b					170
175	15.0	338.3	157,900	270,300	51.3	375.5	131,200 b	255,000 b					175
180					46.6	370.7	125,900 b	246,400 b					180
185					41.5	365.0	120,900	238,400					185
190					35.7	358.0	116,100	230,700					190
195					28.9	349.1	111,400	223,400					195
200					19.6	336.3	106,600	216,300	52.0	365.3	84,000 b	199,100 b	200
205									47.4	360.6	80,500 b	193,000 b	205
210									42.4	355.0	77,200	187,300	210
215									36.8	348.3	74,000	181,700	215
220									30.2	339.8	70,800	176,400	220

MLC650 VPC-MAX S-3

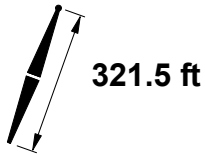
ASME B30.5



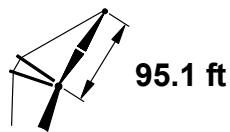
881,800 lb



360°



321.5 ft

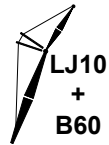


95.1 ft

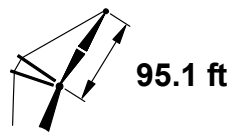
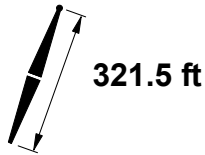
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	71.9	419.9	276,300 d	276,300 d									70
75	68.7	417.8	274,000 c	274,000 c									75
80	65.3	415.4	271,300 c	271,300 c	72.7	419.0	276,800 d	276,800 d					80
85	61.9	412.6	267,800 c	267,800 c	69.4	417.0	276,700 c	276,700 c					85
90	58.3	409.4	264,100 b	264,100 b	66.1	414.7	274,900 c	274,900 c					90
95	54.6	405.8	260,800 b	260,800 b	62.7	412.0	272,200 c	272,200 c					95
100	50.7	401.6	257,900	257,900	59.2	408.9	268,900 b	268,900 b					100
105	46.5	396.7	252,500	252,500	55.5	405.4	265,400 b	265,400 b	67.2	412.9	277,100 c	277,100 c	105
110	41.9	391.1	250,100	250,100	51.6	401.3	261,400	261,400	63.8	410.3	275,600 c	275,600 c	110
115	36.9	384.4	247,300	247,300	47.5	396.6	260,000	260,000	60.4	407.3	273,300 b	273,300 b	115
120	31.1	376.2	241,000	241,000	43.0	391.2	255,300	255,300	56.7	404.0	270,600 b	270,600 b	120
125	24.0	365.4	237,000	237,000	38.1	384.8	253,500	253,500	52.9	400.1	267,600 b	267,600 b	125
130	12.9	347.7	237,000	237,000	32.6	377.0	252,400	252,400	48.9	395.6	264,400	264,400	130
135					25.8	367.0	247,200	247,200	44.5	390.4	259,500	261,600	135
140					16.3	351.9	245,300	245,300	39.8	384.4	247,900	259,400	140
145									34.5	377.1	237,000	258,100	145
150									28.2	368.0	226,700	258,100	150
155									20.0	355.2	216,800	258,000	155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230

MLC650 VPC-MAX S-3

ASME B30.5



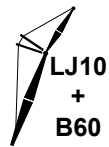
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	62.0	402.4	210,500 b	273,500 b									140
145	58.5	399.3	201,200 b	273,500 b									145
150	54.7	395.6	192,500 b	271,300 b									150
155	50.8	391.4	184,400	269,500									155
160	46.6	386.6	176,700	268,100									160
165	42.1	381.0	169,500	265,500									165
170	37.1	374.4	162,600	263,900	59.7	391.7	133,100 b	261,000 b					170
175	31.4	366.2	156,100	263,100	56.0	388.2	127,700 b	252,100 b					175
180	24.3	355.6	149,700	256,000	52.2	384.2	122,600	243,700					180
185	13.5	338.4	143,300	247,700	48.1	379.6	117,700	235,700					185
190					43.7	374.3	113,000	228,200					190
195					38.9	368.1	108,500	221,000					195
200					33.4	360.5	104,200	214,100					200
205					26.9	350.9	100,000	207,600	52.9	373.9	77,000	190,200	205
210					18.1	337.1	95,700	201,200	48.8	369.5	73,800	184,500	210
215									44.5	364.3	70,700	179,100	215
220									39.8	358.2	67,700	173,900	220
230									28.2	341.8	61,900	164,100	230

MLC650 VPC-MAX S-3

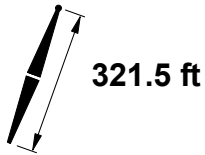
ASME B30.5



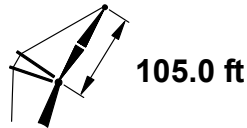
881,800 lb



360°



321.5 ft

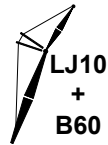


105.0 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.7	430.3	262,000 d	262,000 d									70
75	70.8	428.5	262,000 c	262,000 c									75
80	67.8	426.3	257,300 c	257,300 c									80
85	64.8	423.9	254,400 c	254,400 c									85
90	61.7	421.1	251,000 b	251,000 b									90
95	58.4	417.9	247,100 b	247,100 b									95
100	55.1	414.3	243,300	243,300									100
105	51.6	410.3	241,500	241,500									105
110	47.9	405.7	236,400	236,400									110
115	43.9	400.4	233,800	233,800									115
120	39.6	394.3	228,600	228,600									120
125	34.8	387.1	222,000	222,000									125
130	29.3	378.3	216,900	216,900									130
135	22.4	366.7	214,000	214,000									135
140	11.6	347.5	214,000	214,000									140
145													145
150													150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240

MLC650 VPC-MAX S-3

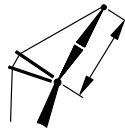
ASME B30.5



881,800 lb



321.5 ft

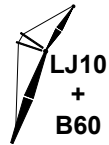


105.0 ft

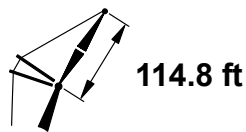
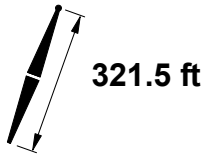
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	64.9	413.7	208,500 b	257,200 b									140
145	61.8	410.9	199,300 b	257,200 b									145
150	58.6	407.8	190,700 b	257,000 b									150
155	55.2	404.2	182,600 b	255,700 b									155
160	51.7	400.1	175,100	254,300									160
165	48.0	395.5	168,000	252,200									165
170	44.0	390.3	161,200	250,400									170
175	39.8	384.2	154,900	248,700	59.7	400.2	125,700	250,400					175
180	35.0	377.1	148,800	247,500	56.4	396.7	120,600	242,000					180
185	29.5	368.4	142,900	245,900	52.9	392.9	115,800	234,100					185
190	22.7	357.0	137,200	238,800	49.3	388.5	111,300	226,600					190
195	12.2	338.4	131,500	231,500	45.4	383.5	106,900	219,500					195
200					41.3	377.7	102,700	212,800					200
205					36.7	371.0	98,700	206,400					205
210					31.5	362.9	94,800	200,200	53.5	382.6	71,800	182,900	210
215					25.3	352.6	91,000	194,300	49.9	378.3	68,800	177,500	215
220					16.7	337.7	87,100	188,500	46.1	373.4	65,900	172,400	220
230									37.5	361.2	60,400	162,800	230
240									26.4	343.5	55,100	153,800	240

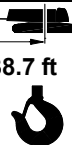
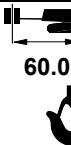
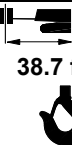
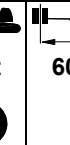
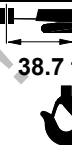
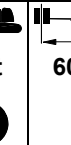
MLC650 VPC-MAX S-3

ASME B30.5



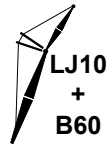
881,800 lb



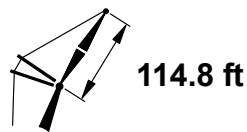
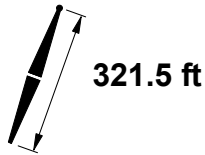
 85°					 83°					 80°					
 ft	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 ft		
75	72.5	439.0	244,900 c	244,900 c										75	
80	69.8	437.1	243,300 c	243,300 c										80	
85	67.1	434.9	241,100 b	241,100 b										85	
90	64.3	432.4	238,200 b	238,200 b	70.5	436.2	245,800 c	245,800 c						90	
95	61.5	429.6	235,000 b	235,000 b	67.8	434.1	244,500 b	244,500 b						95	
100	58.5	426.4	231,200	231,200	65.0	431.7	242,400 b	242,400 b						100	
105	55.5	422.9	227,700	227,700	62.1	429.0	239,700 b	239,700 b						105	
110	52.3	418.9	224,300	224,300	59.2	425.9	236,800	236,800	68.7	432.2	245,800 b	245,800 b		110	
115	49.0	414.5	221,200	221,200	56.2	422.5	234,000	234,000	65.9	429.9	245,300 b	245,300 b		115	
120	45.4	409.5	218,600	218,600	53.1	418.6	231,500	231,500	63.1	427.2	243,700 b	243,700 b		120	
125	41.7	403.8	211,400	211,400	49.8	414.3	227,200	227,200	60.2	424.3	241,700 b	241,700 b		125	
130	37.6	397.3	204,900	204,900	46.3	409.4	224,500	224,500	57.2	421.0	239,200	239,200		130	
135	33.0	389.6	199,500	199,500	42.6	403.9	222,300	222,300	54.1	417.3	236,700	236,700		135	
140	27.7	380.2	195,400	195,400	38.6	397.6	217,000	217,000	50.9	413.1	235,000	235,000		140	
145	21.1	368.0	193,300	193,300	34.1	390.2	210,900	210,900	47.5	408.4	231,400	231,400		145	
150	10.4	347.2	193,300	193,300	29.0	381.3	206,000	206,000	43.8	403.2	223,200	229,100		150	
155					22.8	369.9	202,700	202,700	39.9	397.1	213,900	227,300		155	
160					13.8	352.6	202,400	202,400	35.6	390.1	205,100	226,100		160	
165									30.8	381.8	196,800	221,700		165	
170									25.0	371.4	188,900	217,100		170	
175									17.4	356.9	181,200	214,600		175	
180														180	
185														185	
190														190	
195														195	
200														200	
205														205	
210														210	
215														215	
220														220	
230														230	
240														240	
250														250	

MLC650 VPC-MAX S-3

ASME B30.5



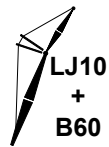
881,800 lb



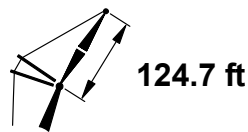
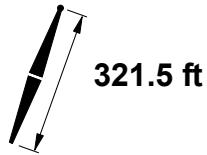
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	64.4	422.2	195,800 b	241,900 b									145
150	61.6	419.4	187,200	241,900									150
155	58.6	416.2	179,300	241,900									155
160	55.6	412.7	171,800	240,700									160
165	52.4	408.8	164,800	239,700									165
170	49.1	404.4	158,100	237,500									170
175	45.6	399.4	151,900	235,900									175
180	41.8	393.7	145,900	234,200	59.7	408.6	117,000	235,600					180
185	37.7	387.2	140,200	232,900	56.7	405.3	112,300	231,300					185
190	33.2	379.6	134,800	232,000	53.5	401.5	107,800	223,900					190
195	27.9	370.3	129,600	228,700	50.3	397.2	103,600	216,800					195
200	21.4	358.2	124,500	222,300	46.8	392.5	99,500	210,200					200
205	11.1	338.2	119,200	215,700	43.1	387.0	95,600	203,800					205
210					39.2	380.9	91,800	197,700					210
215					34.8	373.7	88,200	191,900	54.1	391.1	65,200	174,700	215
220					29.8	365.0	84,600	186,400	50.8	387.0	62,400	169,600	220
230					15.5	338.2	77,600	175,700	43.8	377.0	57,100	160,200	230
240									35.6	364.0	52,100	151,400	240
250									25.0	345.2	47,300	143,200	250

MLC650 VPC-MAX S-3

ASME B30.5



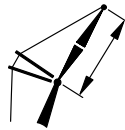
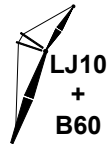
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	73.9	449.4	239,500 c	239,500 c									75
80	71.5	447.6	231,500 c	231,500 c									80
85	69.0	445.6	229,800 b	229,800 b									85
90	66.5	443.4	227,400 b	227,400 b	72.1	446.8	233,300 c	233,300 c					90
95	64.0	440.9	224,700 b	224,700 b	69.6	444.8	232,600 b	232,600 b					95
100	61.3	438.0	221,400 b	221,400 b	67.1	442.6	231,100 b	231,100 b					100
105	58.6	434.9	218,100	218,100	64.6	440.2	229,000 b	229,000 b					105
110	55.8	431.4	214,900	214,900	61.9	437.4	226,500 b	226,500 b					110
115	52.9	427.6	211,700	211,700	59.2	434.4	223,600	223,600	68.0	440.7	232,800 b	232,800 b	115
120	49.9	423.3	208,800	208,800	56.5	431.0	220,600	220,600	65.4	438.4	232,000 b	232,000 b	120
125	46.7	418.5	204,500	204,500	53.6	427.2	217,700	217,700	62.8	435.7	230,600 b	230,600 b	125
130	43.3	413.1	197,600	197,600	50.6	423.0	214,900	214,900	60.1	432.8	228,700	228,700	130
135	39.7	407.0	191,500	191,500	47.5	418.4	212,300	212,300	57.4	429.5	226,500	226,500	135
140	35.8	400.1	186,000	186,000	44.1	413.1	210,100	210,100	54.6	425.8	224,100	224,100	140
145	31.4	391.9	181,400	181,400	40.6	407.2	203,500	203,500	51.6	421.8	221,700	221,700	145
150	26.3	382.0	178,100	178,100	36.7	400.5	197,600	197,600	48.5	417.3	219,300	219,300	150
155	19.9	369.1	176,700	176,700	32.5	392.7	192,400	192,400	45.3	412.3	214,400	217,100	155
160	9.3	346.6	176,700	176,700	27.6	383.3	188,200	188,200	41.8	406.6	205,700	215,300	160
165					21.6	371.2	185,600	185,600	38.0	400.2	197,500	213,900	165
170					12.8	352.7	185,600	185,600	33.9	392.8	189,700	208,500	170
175									29.3	383.9	182,400	203,500	175
180									23.7	373.0	175,300	199,600	180
185									16.3	357.5	168,400	197,800	185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240
250													250
260													260

MLC650 VPC-MAX S-3

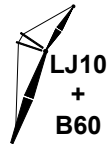
ASME B30.5



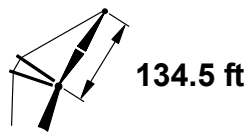
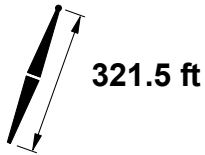
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	64.1	430.7	187,200	228,900									150
155	61.4	427.8	179,300	228,900									155
160	58.7	424.7	171,900	228,800									160
165	55.9	421.3	164,900	228,100									165
170	53.0	417.4	158,300	226,900									170
175	50.0	413.1	152,100	225,400									175
180	46.8	408.4	146,200	223,900									180
185	43.5	403.0	140,600	222,400	59.6	417.1	112,300	221,900					185
190	39.9	397.0	135,300	221,000	56.9	413.8	107,800	221,900					190
195	35.9	390.1	130,200	220,000	54.0	410.1	103,600	216,700					195
200	31.6	382.0	125,300	219,400	51.0	405.9	99,600	210,100					200
205	26.5	372.2	120,600	215,200	47.9	401.4	95,700	203,700					205
210	20.2	359.3	116,000	209,500	44.6	396.2	92,100	197,700					210
215	10.0	337.8	111,200	203,400	41.1	390.4	88,500	192,000					215
220					37.3	383.8	85,100	186,500	54.5	399.7	62,400	169,500	220
230					28.3	367.1	78,600	176,200	48.5	391.2	57,200	160,100	230
240					14.5	338.6	72,100	166,500	41.7	380.5	52,400	151,400	240
250									33.9	366.6	47,800	143,400	250
260									23.7	346.7	43,300	135,900	260

MLC650 VPC-MAX S-3

ASME B30.5



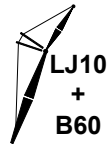
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	72.9	458.1	218,800 c	218,800 c									80
85	70.7	456.2	217,500 b	217,500 b									85
90	68.4	454.2	215,700 b	215,700 b									90
95	66.0	451.9	213,400 b	213,400 b	71.2	455.4	219,700 b	219,700 b					95
100	63.6	449.3	210,700	210,700	68.9	453.4	218,800 b	218,800 b					100
105	61.2	446.5	207,700	207,700	66.6	451.2	217,200 b	217,200 b					105
110	58.7	443.4	204,600	204,600	64.2	448.7	215,100	215,100					110
115	56.1	439.9	201,600	201,600	61.8	445.9	212,900	212,900	69.7	451.4	219,400 b	219,400 b	115
120	53.4	436.2	198,700	198,700	59.3	442.9	210,000	210,000	67.3	449.3	219,200 b	219,200 b	120
125	50.6	432.0	196,000	196,000	56.7	439.5	207,400	207,400	65.0	446.9	218,300	218,300	125
130	47.7	427.4	190,000	190,000	54.0	435.8	204,700	204,700	62.6	444.2	217,000	217,000	130
135	44.7	422.3	183,700	183,700	51.3	431.7	202,100	202,100	60.1	441.2	215,200	215,200	135
140	41.5	416.5	177,800	177,800	48.4	427.2	199,700	199,700	57.6	438.0	213,300	213,300	140
145	38.0	410.1	172,600	172,600	45.4	422.2	196,100	196,100	54.9	434.4	211,000	211,000	145
150	34.2	402.7	167,900	167,900	42.2	416.6	189,900	189,900	52.2	430.4	208,800	208,800	150
155	30.0	394.2	164,100	164,100	38.8	410.4	184,100	184,100	49.4	426.1	206,600	206,600	155
160	25.1	383.7	161,500	161,500	35.1	403.3	179,000	179,000	46.4	421.3	203,000	204,600	160
165	18.8	370.0	160,700	160,700	31.0	395.0	174,500	174,500	43.3	415.9	194,900	202,800	165
170	8.3	345.9	160,700	160,700	26.3	385.1	171,200	171,200	40.0	409.9	187,200	200,900	170
175					20.5	372.4	169,200	169,200	36.4	403.1	180,000	195,300	175
180					11.8	352.7	169,200	169,200	32.4	395.2	173,100	190,200	180
185									27.9	385.9	166,600	185,800	185
190									22.6	374.4	160,300	182,700	190
195									15.3	358.1	154,100	181,300	195
200													200
205													205
210													210
215													215
220													220
230													230
240													240
250													250
260													260
270													270

MLC650 VPC-MAX S-3

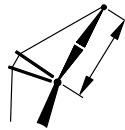
ASME B30.5



881,800 lb



321.5 ft

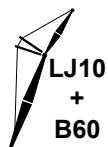


134.5 ft

	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155	63.7	439.1	175,900	215,400									155
160	61.3	436.3	168,500	215,400									160
165	58.8	433.2	161,600	215,400									165
170	56.2	429.8	155,000	214,700									170
175	53.5	426.0	148,900	213,800									175
180	50.8	421.9	143,100	212,600									180
185	47.9	417.3	137,600	211,200									185
190	44.8	412.2	132,300	209,800	59.6	425.6	104,300	208,100					190
195	41.6	406.5	127,300	208,500	57.1	422.3	100,100	208,100					195
200	38.1	400.1	122,500	207,400	54.4	418.6	96,200	207,300					200
205	34.4	392.8	118,000	206,600	51.7	414.6	92,400	201,100					205
210	30.2	384.2	113,600	205,900	48.9	410.2	88,800	195,100					210
215	25.3	373.9	109,300	200,800	45.9	405.3	85,300	189,400					215
220	19.1	360.4	105,100	195,500	42.7	399.8	82,000	184,000					220
230					35.7	386.7	75,700	173,800	52.2	404.3	53,700	157,300	230
240					27.0	369.0	69,700	164,400	46.4	395.1	49,000	148,800	240
250					13.5	338.9	63,800	155,500	39.9	383.7	44,600	140,900	250
260									32.4	369.1	40,400	133,500	260
270									22.5	348.1	36,300	126,600	270

MLC650 VPC-MAX S-3

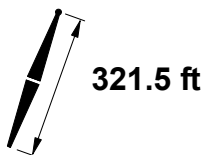
ASME B30.5



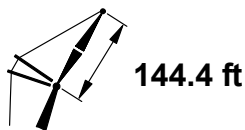
881,800 lb



360°



321.5 ft

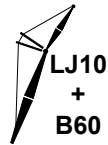


144.4 ft

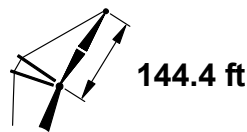
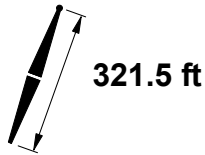
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	74.1	468.4	207,000 b	207,000 b									80
85	72.0	466.7	206,100 b	206,100 b									85
90	69.9	464.8	204,700 b	204,700 b									90
95	67.8	462.7	202,900 b	202,900 b									95
100	65.6	460.4	200,600	200,600	72.5	465.9	207,700 b	207,700 b					100
					70.4	464.0	207,200 b	207,200 b					
105	63.3	457.8	198,200	198,200	68.3	462.0	206,100	206,100					105
110	61.1	455.0	195,300	195,300	66.1	459.7	204,500	204,500					110
115	58.7	451.9	192,500	192,500	63.9	457.2	202,600	202,600					115
120	56.3	448.5	189,800	189,800	61.6	454.4	200,600	200,600					120
125	53.9	444.7	187,100	187,100	59.3	451.3	198,600	198,600	69.0	460.0	207,000	207,000	125
									66.8	457.8	206,700	206,700	
130	51.3	440.7	183,500	183,500	56.9	448.0	195,400	195,400	64.6	455.4	205,900	205,900	130
135	48.6	436.2	177,300	177,300	54.4	444.4	193,000	193,000	62.4	452.7	204,600	204,600	135
140	45.8	431.3	171,500	171,500	51.9	440.4	190,600	190,600	60.0	449.7	203,000	203,000	140
145	42.9	425.8	166,000	166,000	49.3	436.0	188,400	188,400	57.7	446.5	201,300	201,300	145
150	39.8	419.8	160,900	160,900	46.5	431.2	183,500	183,500	55.3	442.9	199,700	199,700	150
155	36.5	413.0	156,400	156,400	43.6	425.9	177,800	177,800	52.7	439.1	197,200	197,200	155
160	32.8	405.3	152,500	152,500	40.6	420.0	172,300	172,300	50.1	434.8	195,200	195,200	160
165	28.7	396.3	149,300	149,300	37.3	413.4	167,400	167,400	47.4	430.2	193,100	193,300	165
170	23.9	385.3	147,200	147,200	33.7	405.9	162,900	162,900	44.6	425.0	185,500	191,600	170
175	17.9	370.9	146,800	146,800	29.7	397.2	159,300	159,300	41.6	419.3	178,300	189,000	175
180	7.3	344.9	146,800	146,800	25.1	386.8	156,400	156,400	38.4	413.0	171,600	183,600	180
185					19.5	373.5	155,000	155,000	34.9	405.8	165,100	178,700	185
190					11.0	352.6	155,000	155,000	31.1	397.6	159,000	174,200	190
195									26.7	387.8	153,100	170,500	195
200									21.5	375.7	147,400	167,900	200
205									14.4	358.5	141,800	167,000	205
210													210
215													215
220													220
230													230
240													240
250													250
260													260
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280													280

MLC650 VPC-MAX S-3

ASME B30.5



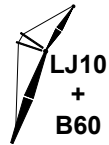
881,800 lb



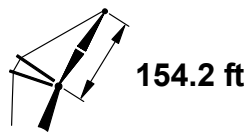
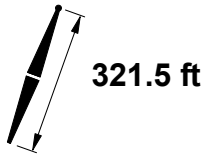
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160	63.4	447.6	166,300	203,000									160
165	61.1	444.8	159,400	203,000									165
170	58.8	441.7	152,900	203,000									170
175	56.4	438.3	146,800	202,700									175
180	53.9	434.6	141,000	202,100									180
185	51.4	430.5	135,500	200,900									185
190	48.7	426.1	130,300	199,700									190
195	46.0	421.2	125,400	198,500	59.6	434.1	97,900	195,600					195
200	43.0	415.8	120,700	197,300	57.2	430.8	93,900	195,600					200
205	39.9	409.7	116,200	196,200	54.8	427.2	90,200	195,600					205
210	36.6	403.0	111,900	195,300	52.3	423.2	86,600	193,300					210
215	33.0	395.3	107,700	194,800	49.7	418.9	83,200	187,700					215
220	28.9	386.3	103,700	192,900	46.9	414.2	79,900	182,300					220
230	18.2	361.3	96,000	183,400	41.0	403.2	73,700	172,200					230
240					34.2	389.3	68,000	162,900	50.1	408.7	46,800	147,000	240
250					25.9	370.8	62,500	154,300	44.6	398.9	42,500	139,200	250
260					12.6	339.0	57,000	146,100	38.3	386.8	38,400	132,000	260
270									31.0	371.4	34,600	125,200	270
280									21.5	349.4	30,800	118,800	280

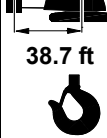
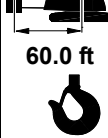
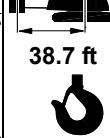
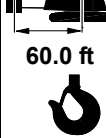
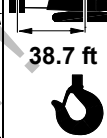
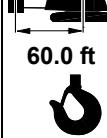
MLC650 VPC-MAX S-3

ASME B30.5



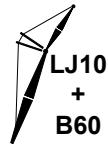
881,800 lb



 85°					 83°					 80°						
 ft	 °	 ft	 38.7 ft  lb	 60.0 ft  lb		 °	 ft	 38.7 ft  lb	 60.0 ft  lb		 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 ft	
85	73.2	477.2	198,800 b	198,800 b												85
90	71.3	475.4	193,800 b	193,800 b												90
95	69.3	473.4	192,300	192,300												95
100	67.2	471.3	190,500	190,500	71.7	474.5	195,600 b	195,600 b								100
105	65.2	468.9	188,400	188,400	69.7	472.6	195,000	195,000								105
110	63.1	466.3	186,000	186,000	67.7	470.5	193,900	193,900								110
115	61.0	463.4	183,500	183,500	65.7	468.2	192,300	192,300								115
120	58.8	460.4	180,900	180,900	63.6	465.6	190,600	190,600								120
125	56.5	457.0	178,400	178,400	61.5	462.8	188,400	188,400	68.4	468.6	195,000	195,000				125
130	54.2	453.3	175,900	175,900	59.3	459.8	186,200	186,200	66.4	466.3	194,600	194,600				130
135	51.9	449.3	171,000	171,000	57.1	456.5	184,000	184,000	64.3	463.8	193,800	193,800				135
140	49.4	445.0	165,300	165,300	54.8	452.9	181,700	181,700	62.2	461.1	192,600	192,600				140
145	46.8	440.2	159,900	159,900	52.4	449.0	179,500	179,500	60.0	458.2	191,200	191,200				145
150	44.1	435.0	154,800	154,800	50.0	444.7	177,300	177,300	57.8	455.0	189,500	189,500				150
155	41.3	429.3	150,000	150,000	47.4	440.1	171,700	171,700	55.5	451.5	187,800	187,800				155
160	38.3	422.9	145,600	145,600	44.8	435.0	166,300	166,300	53.2	447.7	186,000	186,000				160
165	35.1	415.8	141,800	141,800	42.0	429.4	161,200	161,200	50.8	443.5	184,200	184,200				165
170	31.5	407.7	138,500	138,500	39.0	423.2	156,500	156,500	48.3	439.0	182,400	182,400				170
175	27.6	398.2	135,900	135,900	35.9	416.2	152,200	152,200	45.7	434.1	175,700	180,800				175
180	22.9	386.8	134,300	134,300	32.4	408.4	148,400	148,400	42.9	428.6	168,900	177,600				180
185	17.0	371.7	134,100	134,100	28.6	399.3	145,300	145,300	40.0	422.6	162,600	172,500				185
190	6.4	343.5	134,100	134,100	24.1	388.4	142,900	142,900	36.9	416.0	156,500	167,700				190
195					18.6	374.5	141,900	141,900	33.6	408.4	150,700	163,400				195
200					10.1	352.3	141,900	141,900	29.9	399.8	145,200	159,600				200
205									25.7	389.6	139,900	156,400				205
210										20.6	376.9	134,700	154,300			210
215										13.6	358.8	129,600	153,700			215
220																220
230																230
240																240
250																250
260																260
270																270
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290																290

MLC650 VPC-MAX S-3

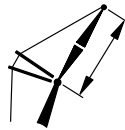
ASME B30.5



881,800 lb



321.5 ft

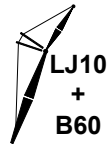


154.2 ft

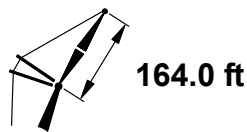
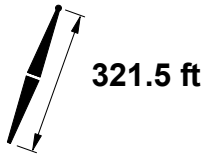
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165	63.2	456.1	156,000	191,000									165
170	61.0	453.3	149,600	191,000									170
175	58.9	450.2	143,500	191,000									175
180	56.6	446.8	137,800	191,000									180
185	54.3	443.2	132,400	190,300									185
190	51.9	439.2	127,200	189,500									190
195	49.5	434.8	122,400	188,500									195
200	46.9	430.1	117,700	187,400	59.6	442.5	90,500	183,400					200
205	44.3	424.9	113,300	186,400	57.4	439.3	86,800	183,400					205
210	41.4	419.2	109,000	185,300	55.1	435.7	83,200	183,400					210
215	38.4	412.9	105,000	184,500	52.8	431.9	79,900	183,400					215
220	35.2	405.8	101,000	183,800	50.3	427.7	76,600	179,700					220
230	27.7	388.3	93,600	178,700	45.2	418.0	70,600	169,700					230
240	17.3	362.1	86,600	171,500	39.5	406.4	65,000	160,500	53.2	421.5	43,300	144,300	240
250					32.9	391.9	59,700	152,000	48.3	412.9	39,100	136,600	250
260					24.8	372.4	54,700	144,100	42.9	402.5	35,200	129,400	260
270					11.8	339.1	49,600	136,500	36.9	389.8	31,500	122,700	270
280									29.8	373.6	27,900	116,500	280
290									20.5	350.6	24,400	110,600	290

MLC650 VPC-MAX S-3

ASME B30.5



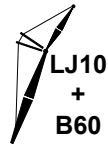
881,800 lb



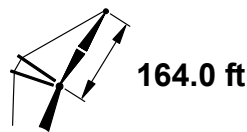
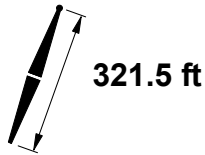
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	74.3	487.5	182,800 b	182,800 b									85
90	72.4	485.8	182,800 b	182,800 b									90
95	70.6	484.0	181,100	181,100									95
100	68.7	482.0	179,700	179,700	72.9	485.0	183,200 b	183,200 b					100
105	66.8	479.8	178,000	178,000	71.0	483.2	183,000	183,000					105
110	64.8	477.4	176,200	176,200	69.1	481.2	182,300	182,300					110
115	62.9	474.8	174,200	174,200	67.2	479.1	181,200	181,200					115
120	60.9	471.9	171,800	171,800	65.3	476.7	179,900	179,900					120
125	58.8	468.8	169,600	169,600	63.3	474.1	178,200	178,200	69.8	479.2	182,400	182,400	125
130	56.7	465.5	167,300	167,300	61.3	471.3	176,400	176,400	67.9	477.1	182,400	182,400	130
135	54.6	461.9	165,100	165,100	59.3	468.3	174,500	174,500	65.9	474.8	182,100	182,100	135
140	52.3	457.9	160,500	160,500	57.2	465.0	172,500	172,500	64.0	472.3	181,300	181,300	140
145	50.1	453.7	155,300	155,300	55.1	461.5	170,500	170,500	62.0	469.6	181,300	181,300	145
150	47.7	449.1	150,300	150,300	52.9	457.6	168,600	168,600	60.0	466.7	179,100	179,100	150
155	45.2	444.1	145,500	145,500	50.6	453.4	166,700	166,700	57.9	463.5	177,600	177,600	155
160	42.6	438.6	141,000	141,000	48.2	448.9	161,700	161,700	55.8	460.0	176,100	176,100	160
165	39.9	432.6	136,800	136,800	45.8	444.0	156,700	156,700	53.6	456.3	174,500	174,500	165
170	37.0	425.9	133,100	133,100	43.2	438.6	152,000	152,000	51.4	452.2	172,900	172,900	170
175	33.8	418.4	129,700	129,700	40.5	432.7	147,500	147,500	49.0	447.8	171,400	171,400	175
180	30.4	410.0	126,900	126,900	37.7	426.2	143,300	143,300	46.6	443.0	168,300	169,900	180
185	26.5	400.1	124,700	124,700	34.6	419.0	139,500	139,500	44.1	437.8	162,000	167,800	185
190	22.0	388.2	123,400	123,400	31.2	410.8	136,200	136,200	41.4	432.1	156,000	163,100	190
195	16.2	372.4	123,400	123,400	27.5	401.3	133,500	133,500	38.6	425.8	150,200	158,500	195
200	5.4	341.7	123,400	123,400	23.2	389.9	131,600	131,600	35.6	418.8	144,800	154,300	200
205					17.8	375.3	130,800	130,800	32.4	410.9	139,600	150,500	205
210					9.4	351.9	130,800	130,800	28.8	401.9	134,600	147,100	210
215									24.7	391.3	129,800	144,400	215
220									19.7	378.0	125,100	142,600	220
230													230
240													240
250													250
260													260
270													270
280													280
290													290
300													300

MLC650 VPC-MAX S-3

ASME B30.5



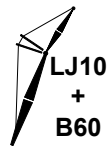
881,800 lb



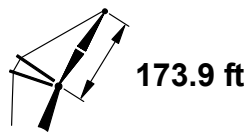
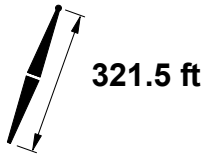
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165	64.9	467.2	154,900	177,900									165
170	63.0	464.6	148,500	177,900									170
175	60.9	461.7	142,500	177,900									175
180	58.9	458.7	136,800	177,900									180
185	56.8	455.3	131,400	177,900									185
190	54.6	451.7	126,300	177,900									190
195	52.4	447.8	121,500	177,600									195
200	50.1	443.6	116,800	176,800									200
205	47.8	439.0	112,400	175,900	59.6	451.0	85,600	171,400					205
210	45.3	434.0	108,200	175,000	57.5	447.8	82,100	171,400					210
215	42.7	428.5	104,200	174,100	55.4	444.3	78,800	171,400					215
220	40.0	422.5	100,400	173,300	53.2	440.5	75,600	171,400					220
230	34.0	408.4	93,100	172,100	48.6	431.9	69,600	168,800					230
240	26.7	390.2	86,300	165,800	43.6	421.7	64,100	159,700					240
250	16.5	362.8	79,800	158,900	38.1	409.5	58,900	151,300	51.3	426.1	38,000	135,700	250
260					31.7	394.3	54,100	143,500	46.6	416.9	34,200	128,500	260
270					23.8	374.0	49,500	136,200	41.4	405.9	30,500	121,900	270
280					11.1	339.0	44,700	129,200	35.6	392.6	27,100	115,800	280
290									28.7	375.7	23,800	110,000	290
300									19.7	351.8	20,600	104,500	300

MLC650 VPC-MAX S-3

ASME B30.5



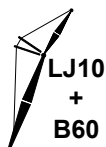
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	73.5	496.2	175,500	175,500									90
95	71.7	494.5	171,400	171,400									95
100	70.0	492.6	170,400	170,400									100
105	68.2	490.6	169,000	169,000	72.1	493.6	172,800	172,800					105
110	66.4	488.3	167,500	167,500	70.4	491.8	172,400	172,400					110
115	64.5	485.9	165,700	165,700	68.6	489.8	171,700	171,700					115
120	62.7	483.3	163,900	163,900	66.8	487.6	170,600	170,600					120
125	60.8	480.4	161,600	161,600	65.0	485.2	169,400	169,400					125
130	58.9	477.3	159,600	159,600	63.1	482.6	167,900	167,900	69.2	487.8	172,000	172,000	130
135	56.9	474.0	157,500	157,500	61.2	479.8	166,500	166,500	67.4	485.7	171,900	171,900	135
140	54.9	470.4	154,800	154,800	59.3	476.8	164,400	164,400	65.6	483.3	171,500	171,500	140
145	52.8	466.6	149,900	149,900	57.3	473.5	162,600	162,600	63.7	480.8	170,900	170,900	145
150	50.6	462.4	145,100	145,100	55.3	470.0	160,800	160,800	61.9	478.1	170,000	170,000	150
155	48.4	457.9	140,400	140,400	53.3	466.2	159,000	159,000	60.0	475.1	168,800	168,800	155
160	46.1	453.0	136,000	136,000	51.1	462.1	156,300	156,300	58.0	472.0	167,500	167,500	160
165	43.7	447.8	131,800	131,800	48.9	457.7	151,500	151,500	56.0	468.5	166,200	166,200	165
170	41.2	442.0	127,900	127,900	46.7	452.9	146,900	146,900	54.0	464.8	164,800	164,800	170
175	38.6	435.7	124,300	124,300	44.3	447.8	142,500	142,500	51.8	460.8	163,300	163,300	175
180	35.7	428.7	121,000	121,000	41.8	442.1	138,300	138,300	49.7	456.5	161,900	161,900	180
185	32.7	421.0	118,100	118,100	39.2	436.0	134,300	134,300	47.4	451.9	159,300	160,500	185
190	29.4	412.2	115,700	115,700	36.4	429.2	130,700	130,700	45.1	446.9	153,300	157,900	190
195	25.6	401.9	113,900	113,900	33.4	421.6	127,400	127,400	42.6	441.4	147,600	153,500	195
200	21.2	389.5	113,000	113,000	30.2	413.0	124,600	124,600	40.1	435.4	142,200	149,300	200
205	15.5	373.0	113,000	113,000	26.5	403.2	122,300	122,300	37.4	428.8	137,100	145,300	205
210	4.2	339.2	113,000	113,000	22.3	391.4	120,700	120,700	34.4	421.5	132,200	141,500	210
215					17.0	376.2	120,200	120,200	31.3	413.3	127,500	138,200	215
220					8.7	351.3	120,200	120,200	27.8	404.0	122,900	135,300	220
230									18.9	379.1	114,300	131,500	230
240													240
250													250
260													260
270													270
280													280
290													290
300													300
310													310

MLC650 VPC-MAX S-3

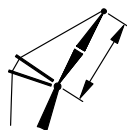
ASME B30.5



881,800 lb



321.5 ft

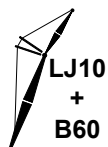


173.9 ft

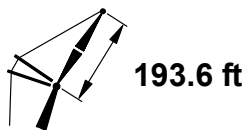
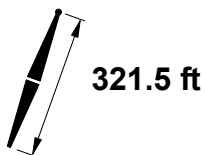
ft	75°				70°				65°				ft
	ft	°	ft	lb	lb	ft	°	ft	lb	lb	ft	°	ft
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170	64.6	475.7	145,200	167,400									170
175	62.8	473.1	139,200	167,400									175
180	60.9	470.2	133,500	167,400									180
185	58.9	467.1	128,200	167,400									185
190	57.0	463.8	123,100	167,400									190
195	54.9	460.3	118,300	167,400									195
200	52.9	456.4	113,700	167,400									200
205	50.7	452.3	109,400	166,900									205
210	48.5	447.8	105,200	166,200	59.6	459.5	78,700	160,700					210
215	46.2	442.9	101,300	165,400	57.6	456.3	75,400	160,700					215
220	43.8	437.7	97,500	164,600	55.6	452.8	72,300	160,700					220
230	38.7	425.7	90,300	163,100	51.5	445.0	66,400	160,700					230
240	32.8	411.0	83,700	160,300	47.0	435.9	60,900	157,200					240
250	25.8	392.0	77,500	153,500	42.2	425.3	55,900	148,800	53.9	438.7	34,500	133,000	250
260	15.8	363.5	71,500	148,800	36.8	412.5	51,100	141,100	49.6	430.4	30,800	125,900	260
270					30.7	396.6	46,700	133,900	45.1	420.7	27,200	119,400	270
280					23.0	375.5	42,400	127,200	40.0	409.2	23,900	113,300	280
290					10.4	338.8	38,000	120,700	34.4	395.3	20,800	107,600	290
300									27.7	377.7		102,200	300
310									18.9	352.8		97,100	310

MLC650 VPC-MAX S-3

ASME B30.5



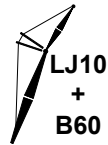
881,800 lb



85°					83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95	73.7	515.3	153,800	153,800									95
100	72.1	513.6	153,300	153,300									100
105	70.5	511.8	152,400	152,400									105
110	68.9	509.8	151,400	151,400	72.5	512.7	154,300	154,300					110
115	67.3	507.7	150,200	150,200	70.9	511.0	154,100	154,100					115
120	65.7	505.4	148,800	148,800	69.3	509.0	153,600	153,600					120
125	64.0	502.9	147,300	147,300	67.7	506.9	152,800	152,800					125
130	62.4	500.2	145,500	145,500	66.1	504.6	151,900	151,900					130
135	60.7	497.3	143,800	143,800	64.4	502.2	150,700	150,700	69.8	507.0	153,100	153,100	135
140	58.9	494.3	142,000	142,000	62.8	499.6	149,400	149,400	68.2	505.0	153,100	153,100	140
145	57.1	491.0	140,100	140,100	61.1	496.7	148,400	148,400	66.6	502.8	153,100	153,100	145
150	55.3	487.5	135,800	135,800	59.3	493.7	146,600	146,600	65.0	500.4	152,800	152,800	150
155	53.5	483.7	131,600	131,600	57.6	490.5	145,100	145,100	63.3	497.8	152,200	152,200	155
160	51.6	479.7	127,500	127,500	55.8	487.0	143,600	143,600	61.6	495.0	151,400	151,400	160
165	49.6	475.4	123,600	123,600	53.9	483.3	142,000	142,000	59.9	492.1	150,600	150,600	165
170	47.6	470.8	119,700	119,700	52.0	479.4	138,100	138,100	58.2	488.9	149,600	149,600	170
175	45.5	465.9	116,100	116,100	50.1	475.2	134,000	134,000	56.4	485.6	148,500	148,500	175
180	43.4	460.5	112,600	112,600	48.1	470.6	130,000	130,000	54.5	481.9	147,400	147,400	180
185	41.1	454.8	109,300	109,300	46.0	465.8	126,200	126,200	52.7	478.1	146,200	146,200	185
190	38.8	448.5	106,400	106,400	43.9	460.5	122,500	122,500	50.7	473.9	145,000	145,000	190
195	36.2	441.7	103,600	103,600	41.7	454.9	119,000	119,000	48.8	469.5	143,800	143,800	195
200	33.6	434.1	101,100	101,100	39.3	448.7	115,700	115,700	46.7	464.7	138,800	140,900	200
205	30.7	425.7	98,900	98,900	36.8	442.0	112,600	112,600	44.6	459.6	133,800	137,000	205
210	27.5	416.3	97,200	97,200	34.2	434.7	109,800	109,800	42.4	454.1	128,900	133,300	210
215	23.9	405.2	96,000	96,000	31.4	426.5	107,300	107,300	40.1	448.1	124,300	129,700	215
220	19.7	391.9	95,400	95,400	28.3	417.3	105,200	105,200	37.7	441.6	119,900	126,400	220
230					20.8	394.0	102,500	102,500	32.3	426.7	111,600	120,200	230
240					7.3	349.6	102,300	102,300	26.0	407.7	103,900	115,300	240
250									17.5	380.9	96,500	112,600	250
260													260
270													270
280													280
290													290
300													300
310													310
320													320
330													330

MLC650 VPC-MAX S-3

ASME B30.5



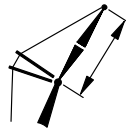
881,800 lb



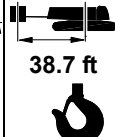
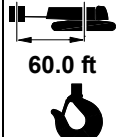
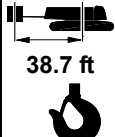
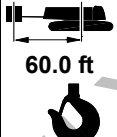
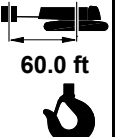
360°



321.5 ft

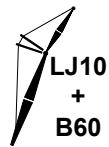


193.6 ft

	 75°				 70°				 65°				
 ft	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 60.0 ft  lb	 ft	
95												95	
100												100	
105												105	
110												110	
115												115	
120												120	
125												125	
130												130	
135												135	
140												140	
145												145	
150												150	
155												155	
160												160	
165												165	
170												170	
175												175	
180	64.1	492.7	129,100	148,700								180	
185	62.4	490.0	123,800	148,700								185	
190	60.7	487.2	118,800	148,700								190	
195	59.0	484.1	114,100	148,700								195	
200	57.2	480.8	109,600	148,700								200	
205	55.4	477.3	105,300	148,700								205	
210	53.6	473.6	101,200	148,700								210	
215	51.7	469.6	97,300	148,700								215	
220	49.7	465.3	93,500	148,700	59.6	476.5	67,700	141,700				220	
230	45.6	455.8	86,600	147,500	56.0	469.8	61,900	141,700				230	
240	41.2	444.7	80,100	146,300	52.3	462.3	56,600	141,700				240	
250	36.3	431.6	74,100	144,600	48.4	453.6	51,700	141,700				250	
260	30.8	415.8	68,500	138,200	44.2	443.6	47,100	137,900	54.5	455.8	122,300	260	
270	24.1	395.4	63,200	132,700	39.7	431.9	42,900	130,800	50.7	447.8	115,900	270	
280	14.5	364.5	58,100	129,400	34.6	418.1	38,800	124,200	46.7	438.6	109,900	280	
290					28.8	401.0	35,000	118,100	42.4	428.0	104,300	290	
300					21.4	378.3	31,300	112,300	37.6	415.5	99,100	300	
310					9.1	338.0	27,400	106,600	32.3	400.5	94,200	310	
320									26.0	381.5	89,500	320	
330									17.5	354.6	85,000	330	

MLC650 VPC-MAX S-3

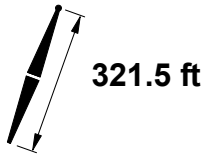
ASME B30.5



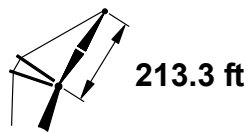
881,800 lb



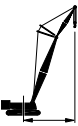
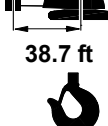
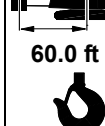
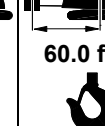
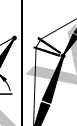
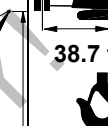
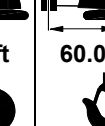
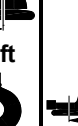
360°



321.5 ft

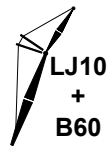


213.3 ft

 85°					 83°					 80°					
 ft	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 ft		
100	73.8	534.3	137,200	137,200										100	
105	72.4	532.7	136,800	136,800										105	
110	71.0	530.9	136,100	136,100										110	
115	69.5	529.0	135,300	135,300	72.7	531.8	137,500	137,500						115	
120	68.1	527.0	134,300	134,300	71.3	530.1	137,500	137,500						120	
125	66.6	524.8	133,200	133,200	69.9	528.2	137,100	137,100						125	
130	65.1	522.4	131,900	131,900	68.4	526.2	136,600	136,600						130	
135	63.6	519.9	130,500	130,500	67.0	524.0	135,800	135,800						135	
140	62.1	517.2	129,400	129,400	65.5	521.7	135,000	135,000						140	
145	60.5	514.3	127,700	127,700	64.0	519.2	133,900	133,900	68.9	524.2	136,400	136,400		145	
150	59.0	511.2	126,200	126,200	62.5	516.5	132,800	132,800	67.4	522.1	136,400	136,400		150	
155	57.4	508.0	122,800	122,800	60.9	513.7	132,100	132,100	66.0	519.8	136,300	136,300		155	
160	55.7	504.5	119,200	119,200	59.3	510.7	130,500	130,500	64.5	517.4	136,000	136,000		160	
165	54.1	500.9	115,600	115,600	57.7	507.5	129,200	129,200	63.0	514.8	135,500	135,500		165	
170	52.4	497.0	112,100	112,100	56.1	504.1	127,900	127,900	61.4	512.0	134,900	134,900		170	
175	50.6	492.8	108,700	108,700	54.5	500.5	125,500	125,500	59.9	509.0	134,200	134,200		175	
180	48.8	488.4	105,400	105,400	52.8	496.6	122,000	122,000	58.3	505.9	133,300	133,300		180	
185	47.0	483.7	102,300	102,300	51.0	492.5	118,500	118,500	56.7	502.6	132,500	132,500		185	
190	45.1	478.7	99,300	99,300	49.3	488.2	115,100	115,100	55.0	499.0	131,500	131,500		190	
195	43.1	473.3	96,400	96,400	47.4	483.5	111,800	111,800	53.3	495.2	130,600	130,600		195	
200	41.1	467.5	93,700	93,700	45.5	478.6	108,600	108,600	51.6	491.2	129,600	129,600		200	
205	38.9	461.3	91,200	91,200	43.6	473.3	105,500	105,500	49.8	487.0	128,600	128,600		205	
210	36.7	454.5	88,800	88,800	41.5	467.6	102,600	102,600	48.0	482.4	125,500	125,500		210	
215	34.3	447.2	86,700	86,700	39.4	461.5	99,800	99,800	46.2	477.6	120,900	122,200		215	
220	31.7	439.1	84,800	84,800	37.2	454.9	97,200	97,200	44.2	472.4	116,600	119,000		220	
230	25.9	420.0	81,900	81,900	32.3	439.8	92,600	92,600	40.1	460.9	108,400	112,800		230	
240	18.4	393.9	80,800	80,800	26.7	421.2	89,100	89,100	35.6	447.5	100,800	107,300		240	
250					19.4	396.3	87,200	87,200	30.5	431.4	93,800	102,400		250	
260					5.9	347.1	87,200	87,200	24.5	411.2	87,300	98,600		260	
270									16.3	382.5	81,000	96,600		270	
280														280	
290														290	
300														300	
310														310	
320														320	
330														330	
340														340	
350														350	

MLC650 VPC-MAX S-3

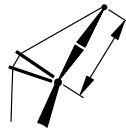
ASME B30.5



881,800 lb



321.5 ft

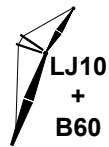


213.3 ft

	75°				70°				65°			
	ft	°	ft	lb	lb	ft	lb	lb	ft	°	ft	lb
100												
105												
110												
115												
120												
125												
130												
135												
140												
145												
150												
155												
160												
165												
170												
175												
180												
185												
190	63.7	509.7	114,500	132,100								
195	62.2	507.0	109,800	132,100								
200	60.6	504.1	105,300	132,100								
205	59.0	501.1	101,100	132,100								
210	57.4	497.8	97,100	132,100								
215	55.8	494.4	93,200	132,100								
220	54.1	490.7	89,500	132,100								
230	50.7	482.7	82,600	132,100	59.6	493.4	57,400	125,200				
240	47.1	473.6	76,300	131,900	56.4	486.9	52,200	125,200				
250	43.2	463.2	70,400	130,900	53.0	479.5	47,400	125,200				
260	39.0	451.2	65,000	130,000	49.5	471.1	43,000	125,200				
270	34.4	437.2	59,900	124,500	45.8	461.6	38,800	125,200	55.0	472.9	112,300	
280	29.1	420.2	55,100	119,200	41.8	450.7	34,900	121,100	51.6	465.1	106,400	
290	22.6	398.4	50,600	114,900	37.5	438.2	31,300	115,000	48.0	456.3	100,900	
300	13.3	365.3	46,100	112,300	32.7	423.3	27,800	109,400	44.2	446.3	95,800	
310					27.1	405.0	24,500	104,000	40.1	434.7	90,900	
320					20.1	380.8	21,300	99,000	35.6	421.3	86,400	
330					7.9	336.8		94,000	30.5	405.2	82,100	
340									24.4	385.0	78,000	
350									16.2	356.2	74,100	

MLC650 VPC-MAX S-3

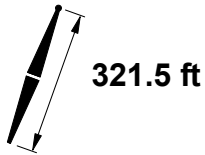
ASME B30.5



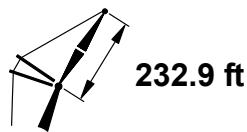
881,800 lb



360°



321.5 ft

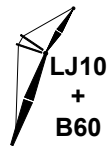


232.9 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105	73.9	553.4	122,600	122,600									105
110	72.6	551.8	122,300	122,300									110
115	71.3	550.1	121,800	121,800									115
120	70.0	548.2	121,200	121,200	72.9	550.9	122,700	122,700					120
125	68.7	546.2	120,400	120,400	71.6	549.2	122,700	122,700					125
130	67.4	544.1	119,600	119,600	70.3	547.4	122,500	122,500					130
135	66.0	541.8	118,600	118,600	69.0	545.4	122,100	122,100					135
140	64.7	539.4	117,600	117,600	67.7	543.3	121,600	121,600					140
145	63.3	536.8	116,300	116,300	66.3	541.1	121,000	121,000					145
150	61.9	534.1	115,100	115,100	65.0	538.7	120,300	120,300	69.5	543.4	121,300	121,300	150
155	60.5	531.2	113,900	113,900	63.6	536.2	119,400	119,400	68.1	541.4	121,300	121,300	155
160	59.0	528.2	111,500	111,500	62.2	533.5	118,600	118,600	66.8	539.2	121,300	121,300	160
165	57.6	525.0	108,400	108,400	60.8	530.6	117,500	117,500	65.4	536.8	121,300	121,300	165
170	56.1	521.6	105,300	105,300	59.4	527.6	116,500	116,500	64.1	534.4	121,100	121,100	170
175	54.5	518.0	102,300	102,300	57.9	524.5	115,500	115,500	62.7	531.7	120,700	120,700	175
180	53.0	514.2	99,300	99,300	56.4	521.1	114,400	114,400	61.3	528.9	120,300	120,300	180
185	51.4	510.1	96,400	96,400	54.9	517.5	111,500	111,500	59.8	526.0	119,700	119,700	185
190	49.8	505.9	93,500	93,500	53.4	513.8	108,500	108,500	58.4	522.9	119,100	119,100	190
195	48.1	501.3	90,800	90,800	51.8	509.8	105,500	105,500	56.9	519.6	118,500	118,500	195
200	46.4	496.5	88,200	88,200	50.2	505.6	102,600	102,600	55.4	516.1	117,600	117,600	200
205	44.7	491.4	85,600	85,600	48.5	501.1	99,700	99,700	53.9	512.4	116,900	116,900	205
210	42.9	486.0	83,200	83,200	46.8	496.4	97,000	97,000	52.3	508.5	116,100	116,100	210
215	41.0	480.2	81,000	81,000	45.1	491.4	94,300	94,300	50.7	504.3	115,300	115,300	215
220	39.0	474.0	78,900	78,900	43.3	486.0	91,700	91,700	49.1	500.0	112,600	112,600	220
230	34.8	460.2	75,000	75,000	39.5	474.2	86,900	86,900	45.7	490.4	106,100	106,900	230
240	30.1	443.8	71,900	71,900	35.3	460.6	82,600	82,600	42.1	479.6	98,600	101,600	240
250	24.5	423.5	69,800	69,800	30.7	444.6	79,000	79,000	38.2	467.3	91,800	96,500	250
260	17.3	395.8	69,200	69,200	25.3	424.9	76,300	76,300	33.9	452.9	85,400	92,000	260
270					18.3	398.4	74,900	74,900	29.0	435.8	79,400	88,100	270
280					4.5	343.4	74,900	74,900	23.2	414.4	73,800	85,100	280
290									15.2	383.8	68,400	83,800	290
300													300
310													310
320													320
330													330
340													340
350													350
360													360
370													370

MLC650 VPC-MAX S-3

ASME B30.5



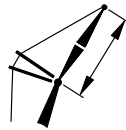
881,800 lb



360°



321.5 ft

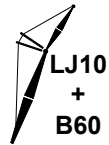


232.9 ft

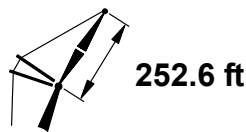
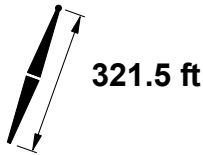
	75°				70°				65°			
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195	64.7	529.2	106,700	116,200								195
200	63.3	526.6	102,300	116,200								200
205	61.9	523.9	98,100	116,200								205
210	60.5	521.1	94,100	116,200								210
215	59.1	518.0	90,300	116,200								215
220	57.6	514.8	86,600	116,200								220
230	54.6	507.8	79,800	116,200								230
240	51.5	500.0	73,600	116,200	59.6	510.4	49,000	109,900				240
250	48.2	491.2	67,800	116,200	56.6	503.9	44,300	109,900				250
260	44.8	481.3	62,400	116,200	53.6	496.6	39,900	109,900				260
270	41.1	470.2	57,500	116,200	50.4	488.5	35,800	109,900				270
280	37.1	457.4	52,800	113,000	47.1	479.4	32,100	109,900				280
290	32.6	442.4	48,500	108,300	43.6	469.1	28,500	109,900	52.3	482.3	98,400	290
300	27.6	424.4	44,300	103,900	39.8	457.4	25,200	107,200	49.1	473.8	93,300	300
310	21.4	401.2	40,300	100,400	35.7	444.0	22,000	102,000	45.7	464.3	88,500	310
320	12.3	365.7	36,400	98,500	31.1	428.2		97,000	42.0	453.5	84,100	320
330					25.7	408.8		92,400	38.1	441.1	79,900	330
340					18.9	383.0		87,900	33.8	426.8	75,900	340
350					6.8	334.9		83,500	29.0	409.6	72,100	350
360									23.1	388.1	68,500	360
370									15.2	357.5	65,000	370

MLC650 VPC-MAX S-3

ASME B30.5



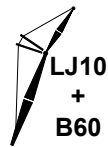
881,800 lb



85°					83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
110	74.0	572.5	108,900	108,900									110
115	72.9	570.9	108,700	108,700									115
120	71.7	569.2	108,300	108,300									120
125	70.4	567.4	107,800	107,800									125
130	69.2	565.4	107,200	107,200	71.9	568.3	108,900	108,900					130
135	68.0	563.4	106,500	106,500	70.7	566.5	108,800	108,800					135
140	66.8	561.2	105,600	105,600	69.5	564.6	108,500	108,500					140
145	65.5	558.9	104,700	104,700	68.3	562.6	108,100	108,100					145
150	64.3	556.4	103,900	103,900	67.1	560.4	107,600	107,600					150
155	63.0	553.8	102,800	102,800	65.8	558.1	107,000	107,000	69.9	562.6	107,200	107,200	155
160	61.7	551.1	101,800	101,800	64.6	555.7	106,400	106,400	68.7	560.6	107,200	107,200	160
165	60.4	548.2	100,100	100,100	63.3	553.2	105,800	105,800	67.5	558.5	107,200	107,200	165
170	59.1	545.2	97,500	97,500	62.0	550.5	104,900	104,900	66.2	556.2	107,200	107,200	170
175	57.7	542.0	94,900	94,900	60.7	547.6	104,100	104,100	65.0	553.9	107,200	107,200	175
180	56.3	538.6	92,200	92,200	59.4	544.6	103,300	103,300	63.7	551.4	107,200	107,200	180
185	54.9	535.0	89,600	89,600	58.0	541.4	102,400	102,400	62.4	548.7	106,800	106,800	185
190	53.5	531.3	87,200	87,200	56.7	538.1	100,700	100,700	61.1	545.9	106,500	106,500	190
195	52.1	527.4	84,700	84,700	55.3	534.6	98,200	98,200	59.8	543.0	106,000	106,000	195
200	50.6	523.2	82,200	82,200	53.9	530.9	95,700	95,700	58.5	539.8	105,500	105,500	200
205	49.1	518.9	79,800	79,800	52.4	527.0	93,100	93,100	57.1	536.6	105,000	105,000	205
210	47.6	514.2	77,600	77,600	51.0	522.9	90,700	90,700	55.7	533.1	104,400	104,400	210
215	46.0	509.4	75,400	75,400	49.5	518.6	88,100	88,100	54.3	529.5	103,800	103,800	215
220	44.4	504.2	73,200	73,200	47.9	514.1	85,800	85,800	52.9	525.7	103,200	103,200	220
230	40.9	493.0	69,300	69,300	44.7	504.2	81,200	81,200	50.0	517.4	100,000	100,000	230
240	37.3	480.2	65,800	65,800	41.4	493.1	77,000	77,000	46.9	508.2	95,000	95,200	240
250	33.2	465.5	62,800	62,800	37.7	480.5	73,000	73,000	43.6	497.9	88,200	90,500	250
260	28.7	448.2	60,500	60,500	33.7	466.1	69,700	69,700	40.2	486.4	81,900	86,100	260
270	23.3	426.7	58,900	58,900	29.3	449.1	66,800	66,800	36.4	473.3	76,100	82,000	270
280	16.3	397.4	58,500	58,500	24.0	428.3	64,800	64,800	32.3	458.1	70,600	78,400	280
290					17.3	400.2	63,900	63,900	27.6	440.0	65,400	75,200	290
300					2.6	336.4	63,900	63,900	22.0	417.3	60,600	73,000	300
310									14.3	384.8	55,800	72,100	310
320													320
330													330
340													340
350													350
360													360
370													370
380													380
390													390

MLC650 VPC-MAX S-3

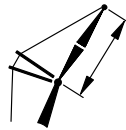
ASME B30.5



881,800 lb



321.5 ft

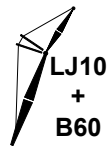


252.6 ft

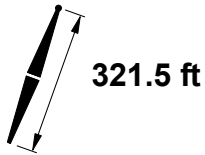
	75°				70°				65°			
	ft	°	ft	lb	lb	ft	lb	lb	ft	°	ft	lb
110												
115												
120												
125												
130												
135												
140												
145												
150												
155												
160												
165												
170												
175												
180												
185												
190												
195												
200												
205	64.3	546.2	93,600	102,500								
210	63.0	543.6	89,600	102,500								
215	61.7	540.9	85,900	102,500								
220	60.4	538.0	82,300	102,500								
230	57.8	531.8	75,500	102,500								
240	55.0	524.9	69,300	102,500								
250	52.1	517.2	63,700	102,500	59.6	527.3	39,700	96,000				
260	49.2	508.7	58,400	102,500	56.9	520.9	35,400	96,000				
270	46.0	499.3	53,500	102,500	54.1	513.7	31,400	96,000				
280	42.7	488.7	48,900	102,500	51.2	505.8	27,700	96,000				
290	39.2	476.8	44,700	101,600	48.2	497.0	24,200	96,000				
300	35.4	463.1	40,700	97,500	45.0	487.2	21,000	96,000	52.9	499.5	89,600	300
310	31.1	447.3	36,900	93,500	41.6	476.2		96,000	49.9	491.3	85,000	310
320	26.2	428.2	33,300	89,900	38.0	463.8		93,900	46.9	482.1	80,600	320
330	20.3	403.8	29,800	87,100	34.0	449.5		89,300	43.6	471.8	76,500	330
340	11.4	365.9	26,200	85,800	29.6	432.7		85,000	40.1	460.2	72,600	340
350					24.4	412.2		80,900	36.4	447.1	68,900	350
360					17.8	385.0		76,900	32.3	431.9	65,400	360
370					5.7	332.3		72,100	27.6	413.8	62,000	370
380									21.9	391.1	58,800	380
390									14.2	358.5	55,700	390

MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



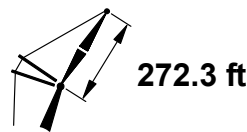
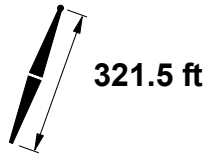
85°					83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.1	591.5	97,300	97,300									115
120	73.0	589.9	97,000	97,000									120
125	71.9	588.3	96,700	96,700									125
130	70.8	586.5	96,300	96,300									130
135	69.7	584.6	95,800	95,800	72.2	587.4	97,100	97,100					135
140	68.5	582.6	95,100	95,100	71.1	585.6	97,000	97,000					140
145	67.4	580.5	94,400	94,400	69.9	583.8	96,800	96,800					145
150	66.3	578.3	93,800	93,800	68.8	581.8	96,500	96,500					150
155	65.1	575.9	92,900	92,900	67.7	579.7	96,200	96,200					155
160	63.9	573.4	92,100	92,100	66.5	577.5	95,700	95,700					160
165	62.7	570.8	91,300	91,300	65.4	575.2	95,100	95,100	69.2	579.8	95,700	95,700	165
170	61.5	568.0	90,100	90,100	64.2	572.7	94,700	94,700	68.1	577.8	95,700	95,700	170
175	60.3	565.2	87,900	87,900	63.0	570.1	93,900	93,900	66.9	575.6	95,700	95,700	175
180	59.1	562.1	85,600	85,600	61.8	567.4	93,300	93,300	65.7	573.3	95,700	95,700	180
185	57.8	558.9	83,400	83,400	60.6	564.6	92,600	92,600	64.6	570.9	95,600	95,600	185
190	56.6	555.6	81,100	81,100	59.4	561.6	91,800	91,800	63.4	568.3	95,400	95,400	190
195	55.3	552.1	78,900	78,900	58.1	558.4	91,100	91,100	62.2	565.7	95,100	95,100	195
200	54.0	548.4	76,800	76,800	56.9	555.1	89,000	89,000	61.0	562.9	94,800	94,800	200
205	52.7	544.6	74,600	74,600	55.6	551.6	86,800	86,800	59.8	559.9	94,400	94,400	205
210	51.3	540.5	72,600	72,600	54.3	548.0	84,600	84,600	58.5	556.8	94,000	94,000	210
215	49.9	536.3	70,600	70,600	53.0	544.2	82,400	82,400	57.3	553.6	93,500	93,500	215
220	48.5	531.8	68,500	68,500	51.6	540.2	80,300	80,300	56.0	550.1	93,000	93,000	220
230	45.6	522.2	64,800	64,800	48.8	531.6	76,200	76,200	53.4	542.8	92,000	92,000	230
240	42.5	511.5	61,400	61,400	45.9	522.1	72,200	72,200	50.7	534.8	89,100	89,100	240
250	39.2	499.6	58,200	58,200	42.9	511.5	68,400	68,400	47.9	525.9	85,000	85,000	250
260	35.7	486.1	55,500	55,500	39.6	499.8	65,000	65,000	44.9	516.0	79,600	81,000	260
270	31.8	470.6	53,100	53,100	36.1	486.5	61,900	61,900	41.8	505.1	73,900	77,200	270
280	27.4	452.3	51,200	51,200	32.3	471.2	59,200	59,200	38.5	492.8	68,500	73,500	280
290	22.2	429.7	50,100	50,100	28.0	453.3	56,900	56,900	34.9	478.9	63,500	70,200	290
300	15.4	398.7	49,900	49,900	22.9	431.4	55,400	55,400	30.9	462.9	58,700	67,200	300
310					16.3	401.8	54,900	54,900	26.4	443.9	54,300	64,800	310
320									20.9	420.0	50,000	63,000	320
330									13.4	385.7	45,800	62,600	330
340													340
350													350
360													360
370													370
380													380
390													390
400													400
410													410

MLC650 VPC-MAX S-3

ASME B30.5



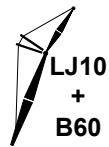
881,800 lb



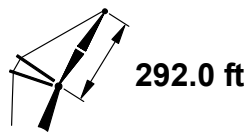
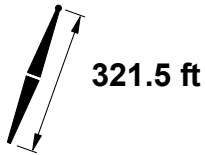
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215	64.0	563.2	82,800	91,200								215
220	62.8	560.6	79,200	91,200								220
230	60.4	555.0	72,500	91,200								230
240	57.9	548.8	66,400	91,200								240
250	55.3	541.9	60,800	91,200								250
260	52.7	534.4	55,600	91,200	59.6	544.3	85,000					260
270	50.0	526.1	50,800	91,200	57.1	537.9	85,000					270
280	47.1	517.0	46,300	91,200	54.5	530.8	85,000					280
290	44.1	506.9	42,100	91,200	51.8	523.1	85,000					290
300	41.0	495.7	38,200	91,200	49.1	514.5	85,000					300
310	37.6	483.0	34,500	88,000	46.2	505.1	85,000	53.4	516.7	78,700		310
320	33.9	468.6	31,000	84,500	43.1	494.6	85,000	50.7	508.6	78,200		320
330	29.8	451.9	27,700	81,200	39.9	483.0	85,000	47.9	499.7	74,100		330
340	25.1	431.8	24,500	78,300	36.4	469.8	82,900	44.9	489.9	70,300		340
350	19.3	406.1	21,400	76,000	32.6	454.7	78,900	41.8	478.9	66,600		350
360	10.5	365.8		75,100	28.3	437.0	74,700	38.5	466.7	63,200		360
370					23.3	415.5	70,500	34.9	452.8	59,900		370
380					16.9	386.7	66,400	30.9	436.7	56,800		380
390					4.5	328.5	62,000	26.4	417.7	53,800		390
400								20.9	393.8	51,000		400
410								13.3	359.3	48,100		410

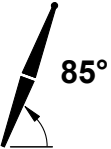
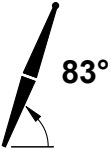
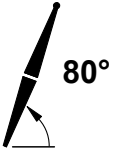
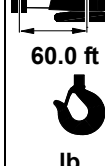
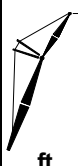
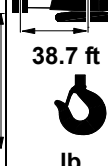
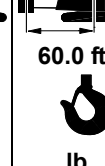
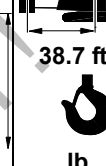
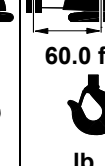
MLC650 VPC-MAX S-3

ASME B30.5



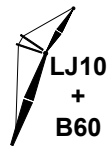
881,800 lb



 85°					 83°					 80°					
 ft	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 ft		
120	74.2	610.6	83,600	83,600									120		
125	73.2	609.0	83,500	83,500									125		
130	72.2	607.4	83,200	83,200									130		
135	71.1	605.6	82,900	82,900									135		
140	70.1	603.8	82,500	82,500	72.4	606.5	83,400	83,400					140		
145	69.0	601.8	82,200	82,200	71.4	604.8	83,300	83,300					145		
150	68.0	599.8	81,600	81,600	70.3	602.9	83,200	83,200					150		
155	66.9	597.6	81,000	81,000	69.3	601.0	83,000	83,000					155		
160	65.8	595.3	80,600	80,600	68.2	599.0	82,700	82,700					160		
165	64.7	592.9	80,000	80,000	67.1	596.8	82,400	82,400					165		
170	63.6	590.4	79,300	79,300	66.1	594.6	82,000	82,000	69.6	599.0	81,800	81,800	170		
175	62.5	587.8	78,600	78,600	65.0	592.2	81,700	81,700	68.6	597.0	81,800	81,800	175		
180	61.4	585.0	77,900	77,900	63.9	589.7	81,200	81,200	67.5	594.9	81,800	81,800	180		
185	60.3	582.1	76,200	76,200	62.8	587.1	80,800	80,800	66.4	592.7	81,800	81,800	185		
190	59.1	579.1	74,300	74,300	61.7	584.4	80,100	80,100	65.3	590.3	81,800	81,800	190		
195	57.9	575.9	72,500	72,500	60.5	581.5	79,600	79,600	64.2	587.9	81,700	81,700	195		
200	56.8	572.6	70,700	70,700	59.4	578.5	79,100	79,100	63.1	585.3	81,500	81,500	200		
205	55.6	569.1	68,900	68,900	58.2	575.4	78,500	78,500	62.0	582.6	81,400	81,400	205		
210	54.4	565.5	67,100	67,100	57.0	572.1	77,500	77,500	60.9	579.8	81,100	81,100	210		
215	53.1	561.7	65,300	65,300	55.9	568.7	75,800	75,800	59.8	576.9	80,900	80,900	215		
220	51.9	557.8	63,600	63,600	54.7	565.1	74,000	74,000	58.6	573.8	80,500	80,500	220		
230	49.3	549.3	60,200	60,200	52.2	557.4	70,500	70,500	56.3	567.2	79,800	79,800	230		
240	46.6	540.0	56,900	56,900	49.6	549.0	67,100	67,100	53.8	559.9	79,100	79,100	240		
250	43.8	529.8	53,900	53,900	47.0	539.9	63,700	63,700	51.3	552.1	78,200	78,200	250		
260	40.9	518.5	51,100	51,100	44.2	529.7	60,500	60,500	48.7	543.4	75,000	75,000	260		
270	37.7	505.9	48,600	48,600	41.2	518.6	57,500	57,500	46.0	533.9	69,900	71,700	270		
280	34.3	491.6	46,400	46,400	38.1	506.1	54,700	54,700	43.2	523.5	64,600	68,600	280		
290	30.5	475.4	44,500	44,500	34.7	492.1	52,200	52,200	40.2	511.9	59,600	65,400	290		
300	26.3	456.2	43,000	43,000	31.0	476.1	50,000	50,000	37.0	499.0	55,000	62,600	300		
310	21.3	432.5	42,200	42,200	26.8	457.3	48,200	48,200	33.5	484.3	50,600	59,800	310		
320	14.6	399.9	42,200	42,200	21.9	434.3	47,000	47,000	29.7	467.5	46,400	57,500	320		
330					15.5	403.2	46,800	46,800	25.3	447.5	42,500	55,500	330		
340									20.0	422.5	38,700	54,100	340		
350									12.6	386.3	35,000	53,800	350		
360													360		
370													370		
380													380		
390													390		
400													400		
410													410		
420													420		
430													430		

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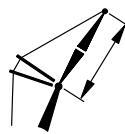
881,800 lb



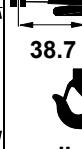
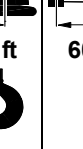
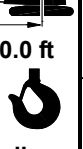
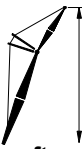
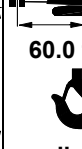
360°



321.5 ft

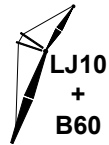


292.0 ft

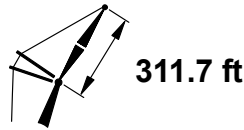
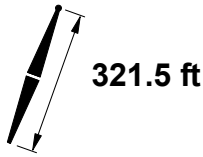
	75°				70°				65°			
												
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220												220
230												230
240												240
250												250
260												260
270												270
280												280
290												290
300												300
310												310
320												320
330												330
340												340
350												350
360												360
370												370
380												380
390												390
400												400
410												410
420												420
430												430

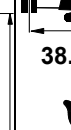
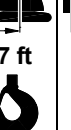
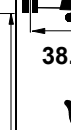
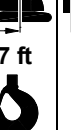
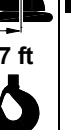
MLC650 VPC-MAX S-3

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881,800 lb



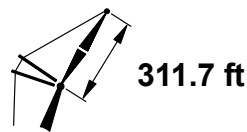
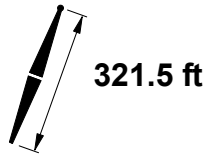
	85°					83°				80°				
														
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
125		74.3	629.6	74,100	74,100									125
130		73.3	628.1	73,900	73,900									130
135		72.4	626.5	73,700	73,700									135
140		71.4	624.7	73,500	73,500									140
145		70.4	622.9	73,100	73,100	72.6	625.6	73,700	73,700					145
150		69.4	621.0	73,100	73,100	71.6	623.9	73,700	73,700					150
155		68.4	619.0	72,300	72,300	70.6	622.1	73,500	73,500					155
160		67.4	616.9	71,900	71,900	69.6	620.2	73,300	73,300					160
165		66.4	614.7	71,300	71,300	68.7	618.2	73,100	73,100					165
170		65.4	612.4	70,800	70,800	67.7	616.1	72,800	72,800					170
175		64.4	609.9	70,300	70,300	66.7	613.9	72,600	72,600	70.0	618.2	71,900	71,900	175
180		63.4	607.4	69,800	69,800	65.6	611.6	72,300	72,300	69.0	616.2	71,900	71,900	180
185		62.3	604.7	69,200	69,200	64.6	609.2	71,800	71,800	68.0	614.2	71,900	71,900	185
190		61.3	602.0	67,900	67,900	63.6	606.7	71,400	71,400	67.0	612.0	71,900	71,900	190
195		60.2	599.1	66,400	66,400	62.6	604.1	71,000	71,000	66.0	609.7	71,900	71,900	195
200		59.1	596.0	64,800	64,800	61.5	601.3	70,600	70,600	65.0	607.4	71,900	71,900	200
205		58.0	592.9	63,300	63,300	60.5	598.5	70,100	70,100	63.9	604.9	71,900	71,900	205
210		56.9	589.6	61,700	61,700	59.4	595.5	69,600	69,600	62.9	602.3	71,700	71,700	210
215		55.8	586.2	60,200	60,200	58.3	592.3	69,100	69,100	61.9	599.6	71,500	71,500	215
220		54.7	582.6	58,600	58,600	57.2	589.1	68,000	68,000	60.8	596.8	71,300	71,300	220
230		52.4	575.0	55,600	55,600	55.0	582.2	65,000	65,000	58.7	590.7	70,800	70,800	230
240		50.0	566.7	52,600	52,600	52.7	574.6	62,000	62,000	56.5	584.2	70,200	70,200	240
250		47.5	557.7	49,800	49,800	50.3	566.4	59,000	59,000	54.2	577.0	69,500	69,500	250
260		44.9	547.8	47,200	47,200	47.8	557.5	56,100	56,100	51.9	569.3	68,800	68,800	260
270		42.2	537.0	44,700	44,700	45.3	547.7	53,400	53,400	49.5	560.9	66,400	66,400	270
280		39.4	525.1	42,400	42,400	42.6	537.1	50,700	50,700	47.0	551.7	62,300	63,600	280
290		36.3	511.8	40,400	40,400	39.7	525.3	48,200	48,200	44.4	541.6	57,300	60,800	290
300		33.0	496.9	38,500	38,500	36.7	512.2	45,900	45,900	41.6	530.6	52,700	58,100	300
310		29.4	479.9	37,100	37,100	33.4	497.5	43,900	43,900	38.7	518.4	48,400	55,500	310
320		25.3	459.9	36,000	36,000	29.8	480.7	42,100	42,100	35.6	504.8	44,400	53,100	320
330		20.4	435.1	35,400	35,400	25.8	461.1	40,700	40,700	32.3	489.5	40,500	50,900	330
340		13.8	400.8	35,400	35,400	21.0	437.1	39,800	39,800	28.5	471.9	36,900	49,000	340
350						14.7	404.4	39,600	39,600	24.3	451.0	33,400	47,400	350
360										19.1	424.8	30,000	46,400	360
370										11.9	386.7	26,700	46,100	370
380														380
390														390
400														400
410														410
420														420
430														430
440														440
450														450

MLC650 VPC-MAX S-3

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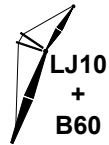
881,800 lb



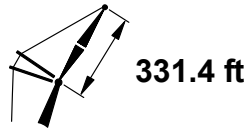
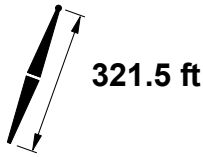
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220												220
230	64.4	599.7	65,000	67,500								230
240	62.4	594.5	59,000	67,500								240
250	60.2	588.9	53,500	67,500								250
260	58.1	582.7	48,400	67,500								260
270	55.9	576.0	43,700	67,500								270
280	53.6	568.7	39,300	67,500	59.5	578.2	62,200					280
290	51.3	560.8	35,200	67,500	57.4	571.9	62,200					290
300	48.8	552.2	31,400	67,500	55.1	565.0	62,200					300
310	46.3	542.8	27,800	67,500	52.8	557.5	62,200					310
320	43.7	532.5	24,400	67,500	50.5	549.3	62,200					320
330	40.9	521.1	21,300	67,500	48.0	540.5	62,200	54.2	550.9	57,200		330
340	37.9	508.6		67,500	45.4	530.8	62,200	51.9	543.2	57,200		340
350	34.8	494.6		65,100	42.8	520.1	62,200	49.5	534.7	57,200		350
360	31.3	478.8		62,800	39.9	508.5	62,200	47.0	525.5	57,200		360
370	27.5	460.4		60,600	36.9	495.5	62,200	44.4	515.5	54,200		370
380	23.0	438.4		58,700	33.7	480.9	60,000	41.6	504.4	51,200		380
390	17.5	410.1		57,400	30.1	464.3	56,300	38.7	492.2	48,400		390
400	9.0	364.8		55,800	26.1	445.0	52,800	35.6	478.6	45,600		400
410					21.4	421.3	49,400	32.2	463.3	43,000		410
420					15.3	389.6	46,000	28.5	445.7	40,300		420
430								24.3	424.8	37,500		430
440								19.1	398.5	34,900		440
450								11.8	360.3	32,200		450

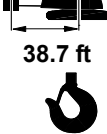
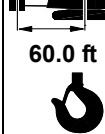
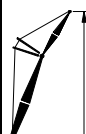
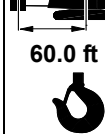
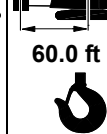
MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



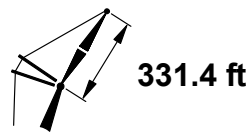
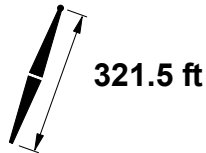
 85°					 83°					 80°					
 ft	 °	 ft	 38.7 ft lb	 60.0 ft lb	 °	 ft	 38.7 ft lb	 60.0 ft lb	 °	 ft	 38.7 ft lb	 60.0 ft lb	 ft		
130	74.3	648.7	64,700	64,700										130	
135	73.4	647.1	64,500	64,500										135	
140	72.5	645.5	64,200	64,200										140	
145	71.6	643.8	63,900	63,900										145	
150	70.7	642.1	63,600	63,600	72.7	644.6	64,100	64,100						150	
155	69.8	640.2	63,300	63,300	71.8	643.0	64,000	64,000						155	
160	68.8	638.2	62,900	62,900	70.9	641.2	63,800	63,800						160	
165	67.9	636.2	62,500	62,500	70.0	639.3	63,700	63,700						165	
170	67.0	634.0	62,100	62,100	69.1	637.4	63,500	63,500						170	
175	66.0	631.7	61,600	61,600	68.1	635.4	63,300	63,300						175	
180	65.1	629.4	61,100	61,100	67.2	633.2	63,000	63,000						180	
185	64.1	626.9	60,700	60,700	66.2	631.0	62,700	62,700	69.4	635.4	62,200	62,200		185	
190	63.1	624.4	60,200	60,200	65.3	628.7	62,400	62,400	68.4	633.4	62,200	62,200		190	
195	62.2	621.7	59,400	59,400	64.3	626.2	62,100	62,100	67.5	631.3	62,200	62,200		195	
200	61.2	618.9	58,100	58,100	63.4	623.7	61,700	61,700	66.6	629.1	62,200	62,200		200	
205	60.2	616.0	56,800	56,800	62.4	621.0	61,300	61,300	65.6	626.8	62,200	62,200		205	
210	59.2	613.0	55,400	55,400	61.4	618.3	60,900	60,900	64.6	624.4	62,200	62,200		210	
215	58.1	609.9	54,100	54,100	60.4	615.4	60,500	60,500	63.7	621.9	62,000	62,000		215	
220	57.1	606.6	52,800	52,800	59.4	612.4	60,100	60,100	62.7	619.3	61,800	61,800		220	
230	55.0	599.7	50,200	50,200	57.3	606.1	58,400	58,400	60.7	613.7	61,400	61,400		230	
240	52.8	592.2	47,500	47,500	55.2	599.2	55,900	55,900	58.7	607.7	60,900	60,900		240	
250	50.6	584.0	45,000	45,000	53.1	591.8	53,400	53,400	56.6	601.2	60,400	60,400		250	
260	48.3	575.3	42,600	42,600	50.9	583.7	50,900	50,900	54.5	594.1	59,800	59,800		260	
270	45.9	565.7	40,300	40,300	48.6	575.0	48,400	48,400	52.4	586.5	59,200	59,200		270	
280	43.4	555.3	38,000	38,000	46.2	565.6	45,900	45,900	50.1	578.2	57,500	57,500		280	
290	40.8	544.0	36,100	36,100	43.7	555.3	43,600	43,600	47.8	569.3	53,500	55,200		290	
300	38.0	531.5	34,200	34,200	41.1	544.1	41,400	41,400	45.4	559.6	48,900	52,800		300	
310	35.1	517.6	32,500	32,500	38.4	531.7	39,400	39,400	42.9	549.0	44,600	50,500		310	
320	31.9	502.0	31,000	31,000	35.4	518.0	37,500	37,500	40.2	537.4	40,600	48,300		320	
330	28.3	484.2	29,900	29,900	32.3	502.6	35,900	35,900	37.4	524.6	36,800	46,100		330	
340	24.3	463.3	29,000	29,000	28.8	485.2	34,500	34,500	34.4	510.4	33,200	44,200		340	
350	19.6	437.5	28,700	28,700	24.8	464.7	33,400	33,400	31.1	494.4	29,800	42,300		350	
360	13.1	401.6	28,700	28,700	20.2	439.6	32,700	32,700	27.5	476.0	26,600	40,800		360	
370					14.0	405.5	32,700	32,700	23.4	454.3	23,500	39,600		370	
380									18.4	426.9	20,500	38,800		380	
390									11.2	386.8		38,700		390	
400														400	
410														410	
420														420	
430														430	
440														440	
450														450	
460														460	
470														470	

MLC650 VPC-MAX S-3

ASME B30.5



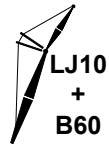
881,800 lb



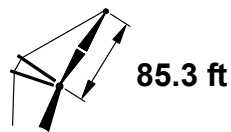
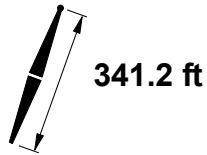
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220												220
230												230
240	64.1	616.7	54,500	57,900								240
250	62.2	611.5	49,100	57,900								250
260	60.2	605.8	44,000	57,900								260
270	58.2	599.7	39,400	57,900								270
280	56.1	593.0	35,000	57,900								280
290	54.0	585.8	31,000	57,900	59.5	595.1	52,600					290
300	51.8	578.0	27,200	57,900	57.5	588.8	52,600					300
310	49.5	569.6	23,700	57,900	55.4	582.0	52,600					310
320	47.2	560.5	20,300	57,900	53.3	574.6	52,600					320
330	44.7	550.5		57,900	51.0	566.6	52,600					330
340	42.2	539.7		57,900	48.8	558.0	52,600	54.5	568.0	47,500		340
350	39.5	527.8		57,900	46.4	548.6	52,600	52.3	560.4	47,500		350
360	36.6	514.7		57,000	43.9	538.4	52,600	50.1	552.1	47,500		360
370	33.6	500.0		55,100	41.3	527.2	52,600	47.8	543.2	47,500		370
380	30.2	483.5		53,200	38.6	514.9	52,600	45.4	533.4	47,500		380
390	26.5	464.3		51,400	35.7	501.3	52,300	42.8	522.8	44,600		390
400	22.2	441.4		48,100	32.5	486.1	48,800	40.2	511.2	41,600		400
410	16.8	411.9		44,300	29.1	468.8	45,500	37.4	498.4	38,800		410
420	8.3	363.8		40,800	25.2	448.6	42,300	34.4	484.2	36,100		420
430					20.6	424.0	39,200	31.1	468.2	33,400		430
440					14.6	390.8	36,100	27.5	449.8	30,900		440
450								23.4	428.0	28,400		450
460								18.3	400.7	25,900		460
470								11.1	360.4	23,400		470

MLC650 VPC-MAX S-3

ASME B30.5



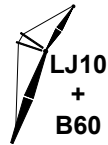
881,800 lb



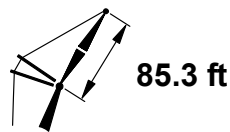
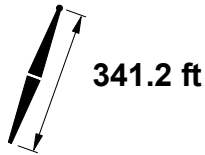
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	74.5	431.4	271,500 d	271,500 d									65
70	71.0	429.6	267,400 d	267,400 d									70
75	67.3	427.4	262,700 d	262,700 d									75
80	63.5	424.8	252,000 c	252,000 c	72.3	429.0	270,400 d	270,400 d					80
85	59.6	421.7	248,900 c	248,900 c	68.7	426.9	266,600 d	266,600 d					85
90	55.5	418.2	245,700 b	245,700 b	64.9	424.4	254,900 d	254,900 d					90
95	51.1	414.0	243,100 b	243,100 b	61.1	421.5	252,500 c	252,500 c					95
100	46.4	409.1	238,700 b	238,700 b	57.0	418.2	249,600 c	249,600 c					100
105	41.3	403.4	236,300	236,300	52.7	414.3	247,000 b	247,000 b	66.9	423.0	256,500 c	256,500 c	105
110	35.5	396.3	235,200	235,200	48.2	409.7	242,900 b	242,900 b	63.1	420.3	255,300 c	255,300 c	110
115	28.6	387.3	235,200	235,200	43.2	404.3	240,200	240,200	59.2	417.2	253,200 c	253,200 c	115
120	19.2	374.2	235,200	235,200	37.7	397.7	238,500	238,500	55.1	413.6	250,500 b	250,500 b	120
125					31.3	389.6	238,100	238,100	50.7	409.4	247,800 b	247,800 b	125
130					23.2	378.5	238,100	238,100	45.9	404.5	246,400 b	246,400 b	130
135					7.3	355.5	238,100	238,100	40.8	398.6	244,700	244,700	135
140									34.9	391.4	241,100	241,100	140
145									27.8	382.2	234,000	241,100	145
150									18.0	368.4	223,500	241,100	150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230

MLC650 VPC-MAX S-3

ASME B30.5



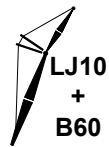
881,800 lb



	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	62.4	413.0	205,500 c	253,700 c									140
145	58.4	409.9	196,400 c	253,000 c									145
150	54.2	406.1	188,000 b	251,400 b									150
155	49.8	401.8	180,000 b	248,600 b									155
160	45.0	396.7	172,500 b	247,800 b									160
165	39.7	390.6	165,400	244,800									165
170	33.7	383.1	158,600	243,600									170
175	26.3	373.3	152,100	242,000	57.1	399.5	122,200 b	247,400 b					175
180	15.3	357.7	145,500	233,500	52.8	395.5	117,300 b	239,300 b					180
185					48.3	391.0	112,600 b	231,500 b					185
190					43.3	385.6	108,100	224,100					190
195					37.8	379.1	103,700	217,000					195
200					31.4	371.0	99,500	210,200					200
205					23.3	359.9	95,300	203,700	54.9	385.9	71,100 b	185,400 b	205
210					7.9	337.6	90,500	197,100	50.5	381.6	68,100 b	179,900 b	210
215									45.8	376.7	65,200 b	174,600 b	215
220									40.6	370.7	62,300	169,500	220
230									27.6	354.2	56,700	159,900	230

MLC650 VPC-MAX S-3

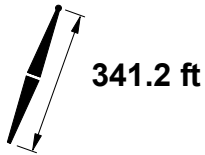
ASME B30.5



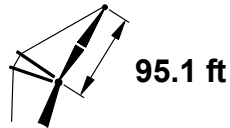
881,800 lb



360°



341.2 ft

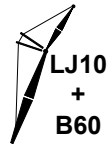


95.1 ft

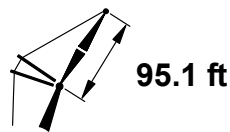
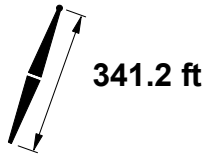
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.0	440.1	252,900 d	252,900 d									70
75	69.8	438.2	249,100 d	249,100 d									75
80	66.5	435.9	238,600 c	238,600 c									80
85	63.1	433.2	235,900 c	235,900 c	71.0	437.6	252,500 d	252,500 d					85
90	59.6	430.2	232,800 b	232,800 b	67.7	435.4	241,200 c	241,200 c					90
95	55.9	426.7	229,800 b	229,800 b	64.4	432.9	239,300 c	239,300 c					95
100	52.0	422.7	225,900 b	225,900 b	60.9	430.0	236,700 c	236,700 c					100
105	47.9	418.1	225,200	225,200	57.3	426.7	234,000 b	234,000 b	69.5	433.8	241,700 c	241,700 c	105
110	43.5	412.7	220,300	220,300	53.5	422.9	231,600 b	231,600 b	66.2	431.5	241,400 c	241,400 c	110
115	38.7	406.4	218,500	218,500	49.5	418.5	227,400	227,400	62.8	428.8	240,000 c	240,000 c	115
120	33.2	398.8	218,100	218,100	45.2	413.5	224,700	224,700	59.2	425.7	237,800 b	237,800 b	120
125	26.7	389.1	215,500	215,500	40.6	407.5	222,600	222,600	55.5	422.2	235,300 b	235,300 b	125
130	17.6	375.0	214,300	214,300	35.3	400.5	221,400	221,400	51.7	418.1	232,500 b	232,500 b	130
135					29.3	391.7	221,400	221,400	47.5	413.4	229,800	229,800	135
140					21.5	379.7	221,400	221,400	43.1	408.0	227,400	227,400	140
145					5.0	352.9	221,400	221,400	38.2	401.6	225,600	225,600	145
150									32.7	393.8	221,800	224,700	150
155									25.9	383.9	212,300	224,700	155
160									16.5	368.9	203,000	224,700	160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240

MLC650 VPC-MAX S-3

ASME B30.5



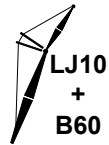
881,800 lb



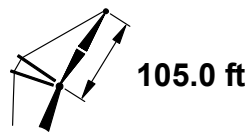
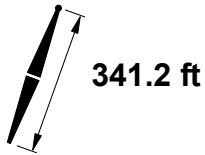
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	62.1	421.5	192,900 b	238,400 b									145
150	58.5	418.3	184,600 b	237,300 b									150
155	54.8	414.7	176,700 b	235,900 b									155
160	50.9	410.5	169,400 b	234,300 b									160
165	46.7	405.7	162,400	233,300									165
170	42.2	400.1	155,800	230,400									170
175	37.2	393.5	149,600	228,800									175
180	31.5	385.4	143,500	227,800	57.3	408.0	113,700 b	232,500 b					180
185	24.4	374.8	137,700	224,000	53.5	404.2	109,100 b	228,700 b					185
190	13.8	357.9	131,800	216,500	49.6	399.8	104,700	221,400					190
195					45.3	394.8	100,600	214,400					195
200					40.6	388.9	96,500	207,800					200
205					35.4	381.8	92,600	201,400					205
210					29.4	373.1	88,800	195,400					210
215					21.6	361.2	85,000	189,500	51.5	390.3	61,600	171,800	215
220					5.9	335.6	80,600	183,400	47.4	385.6	58,900	166,800	220
230									38.0	373.8	53,700	157,400	230
240									25.7	355.9	48,600	148,700	240

MLC650 VPC-MAX S-3

ASME B30.5



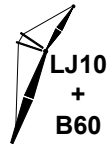
881,800 lb



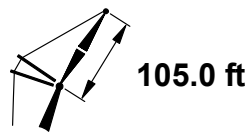
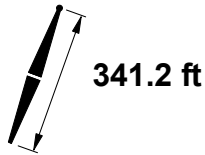
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.7	450.5	239,800 d	239,800 d									70
75	71.8	448.7	236,600 d	236,600 d									75
80	68.8	446.7	226,500 c	226,500 c									80
85	65.8	444.4	224,300 c	224,300 c	72.9	448.1	239,300 d	239,300 d					85
90	62.7	441.7	221,600 b	221,600 b	69.9	446.1	228,600 c	228,600 c					90
95	59.6	438.7	218,700 b	218,700 b	67.0	443.9	227,300 c	227,300 c					95
100	56.2	435.2	215,900 b	215,900 b	63.9	441.4	225,300 c	225,300 c					100
105	52.8	431.3	213,600	213,600	60.7	438.5	222,800 b	222,800 b					105
110	49.2	426.9	208,900	208,900	57.5	435.2	220,300 b	220,300 b	68.6	442.3	228,500 c	228,500 c	110
115	45.3	421.9	206,400	206,400	54.1	431.5	218,100	218,100	65.5	440.0	227,700 b	227,700 b	115
120	41.1	416.1	204,400	204,400	50.5	427.3	213,800	213,800	62.4	437.3	226,200 b	226,200 b	120
125	36.5	409.3	203,000	203,000	46.7	422.5	211,100	211,100	59.2	434.2	224,100 b	224,100 b	125
130	31.3	401.1	198,200	198,200	42.7	417.0	208,900	208,900	55.9	430.7	221,800 b	221,800 b	130
135	25.0	390.8	195,000	195,000	38.3	410.6	207,400	207,400	52.5	426.8	219,900	219,900	135
140	16.3	375.6	194,500	194,500	33.3	403.0	206,700	206,700	48.8	422.3	216,600	216,600	140
145					27.5	393.6	203,800	203,800	44.9	417.2	214,300	214,300	145
150					20.0	380.8	201,400	201,400	40.7	411.3	212,300	212,300	150
155									36.0	404.4	211,000	211,000	155
160									30.7	396.1	202,800	210,500	160
165									24.3	385.4	194,400	210,500	165
170									15.1	369.4	186,200	210,500	170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
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240													240
250													250

MLC650 VPC-MAX S-3

ASME B30.5



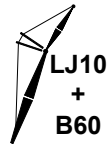
881,800 lb



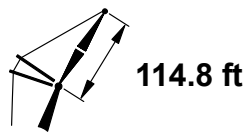
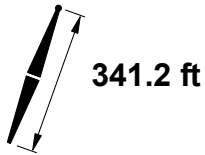
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	65.0	432.8	190,900 b	224,700 b									145
150	61.8	430.0	182,600 b	224,700 b									150
155	58.6	426.8	174,900 b	224,000 b									155
160	55.3	423.3	167,600 b	223,200 b									160
165	51.8	419.2	160,700	221,600									165
170	48.1	414.7	154,300	219,300									170
175	44.1	409.4	148,100	217,600									175
180	39.8	403.4	142,300	216,000									180
185	35.1	396.2	136,700	214,700	57.5	416.5	107,100	219,500					185
190	29.6	387.6	131,300	214,100	54.1	412.8	102,800	219,500					190
195	22.9	376.2	126,100	208,700	50.6	408.6	98,700	212,800					195
200	12.5	357.9	120,800	201,900	46.8	403.8	94,800	206,300					200
205					42.8	398.3	91,000	200,000					205
210					38.3	391.9	87,400	194,100					210
215					33.4	384.4	83,900	188,400					215
220					27.6	375.0	80,400	182,900	52.3	399.0	56,900	165,200	220
230									44.8	389.4	51,900	156,000	230
240									35.9	376.6	47,200	147,400	240
250									24.1	357.4	42,600	139,400	250

MLC650 VPC-MAX S-3

ASME B30.5



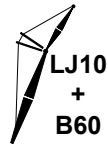
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	73.4	459.2	224,000 c	224,000 c									75
80	70.8	457.4	214,300 c	214,300 c									80
85	68.1	455.3	212,700 c	212,700 c									85
90	65.3	452.9	210,400 b	210,400 b	71.8	456.7	215,800 c	215,800 c					90
95	62.5	450.2	207,700 b	207,700 b	69.1	454.7	215,800 c	215,800 c					95
100	59.5	447.1	205,000 b	205,000 b	66.3	452.4	213,700 b	213,700 b					100
105	56.5	443.7	201,500	201,500	63.5	449.9	211,500 b	211,500 b					105
110	53.4	439.9	200,100	200,100	60.6	446.9	209,200 b	209,200 b					110
115	50.1	435.7	195,700	195,700	57.7	443.7	207,000	207,000	67.8	450.9	215,300 b	215,300 b	115
120	46.7	430.9	193,200	193,200	54.6	440.0	204,900	204,900	65.0	448.5	214,300 b	214,300 b	120
125	43.0	425.5	191,100	191,100	51.4	436.0	200,700	200,700	62.2	445.7	212,800 b	212,800 b	125
130	39.0	419.2	187,700	187,700	48.0	431.4	198,100	198,100	59.3	442.7	210,800 b	210,800 b	130
135	34.6	412.0	182,700	182,700	44.4	426.2	195,900	195,900	56.2	439.2	208,500	208,500	135
140	29.6	403.3	178,800	178,800	40.5	420.3	194,200	194,200	53.1	435.4	207,000	207,000	140
145	23.6	392.3	176,300	176,300	36.3	413.5	193,100	193,100	49.8	431.1	205,100	205,100	145
150	15.1	376.0	176,300	176,300	31.6	405.4	188,300	188,300	46.3	426.2	201,500	201,500	150
155					26.0	395.4	184,800	184,800	42.6	420.7	199,500	199,500	155
160					18.7	381.7	183,100	183,100	38.6	414.4	198,000	198,000	160
165									34.2	407.1	192,200	197,100	165
170									29.1	398.2	184,500	197,000	170
175									22.9	386.8	177,100	194,300	175
180									14.0	369.7	169,800	193,000	180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240
250													250
260													260

MLC650 VPC-MAX S-3

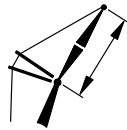
ASME B30.5



881,800 lb



341.2 ft

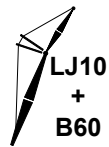


114.8 ft

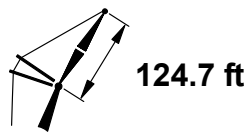
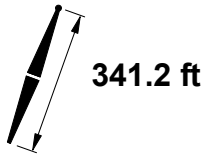
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	64.5	441.2	179,000 b	212,000 b									150
155	61.6	438.4	171,400	212,000									155
160	58.7	435.3	164,200	210,900									160
165	55.7	431.8	157,400	209,900									165
170	52.5	427.9	151,000	208,900									170
175	49.2	423.5	145,000	207,700									175
180	45.6	418.5	139,200	205,600									180
185	41.9	412.9	133,800	203,600									185
190	37.8	406.4	128,600	202,200	57.7	425.0	99,200	206,600					190
195	33.3	398.8	123,600	201,200	54.6	421.3	95,200	206,400					195
200	28.0	389.5	118,800	199,600	51.4	417.3	91,400	203,500					200
205	21.5	377.5	114,100	193,700	48.0	412.7	87,700	197,400					205
210	11.4	357.8	109,200	187,700	44.4	407.5	84,200	191,500					210
215					40.6	401.6	80,800	185,900					215
220					36.4	394.8	77,500	180,500					220
230					26.1	376.7	71,200	170,300	49.7	403.3	48,400	153,200	230
240									42.5	392.9	43,900	144,800	240
250									34.0	379.2	39,600	137,000	250
260									22.7	358.8	35,300	129,700	260

MLC650 VPC-MAX S-3

ASME B30.5



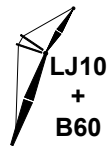
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	74.8	469.5	206,900 c	206,900 c									75
80	72.4	467.9	206,900 c	206,900 c									80
85	69.9	466.0	203,000 c	203,000 c									85
90	67.4	463.8	201,200 b	201,200 b									90
95	64.8	461.4	198,900 b	198,900 b	70.8	465.3	205,000 c	205,000 c					95
100	62.2	458.6	196,300 b	196,300 b	68.3	463.3	204,000 b	204,000 b					100
105	59.5	455.6	193,400	193,400	65.8	460.9	202,300 b	202,300 b					105
110	56.8	452.3	190,500	190,500	63.2	458.3	200,300 b	200,300 b					110
115	53.9	448.5	187,700	187,700	60.5	455.4	197,800 b	197,800 b	69.7	461.6	204,600 b	204,600 b	115
120	50.9	444.4	185,000	185,000	57.8	452.2	196,100	196,100	67.2	459.4	204,300 b	204,300 b	120
125	47.8	439.8	182,600	182,600	55.0	448.6	192,600	192,600	64.6	456.9	203,300 b	203,300 b	125
130	44.5	434.6	180,600	180,600	52.0	444.6	190,100	190,100	62.0	454.2	201,800 b	201,800 b	130
135	41.0	428.8	175,600	175,600	49.0	440.2	187,700	187,700	59.3	451.1	200,000	200,000	135
140	37.2	422.2	170,700	170,700	45.8	435.3	185,600	185,600	56.5	447.8	197,800	197,800	140
145	33.0	414.5	166,500	166,500	42.3	429.7	183,700	183,700	53.6	444.0	195,600	195,600	145
150	28.1	405.3	163,300	163,300	38.6	423.4	181,200	181,200	50.6	439.8	193,400	193,400	150
155	22.3	393.6	161,500	161,500	34.6	416.1	176,400	176,400	47.5	435.2	191,300	191,300	155
160	14.0	376.3	161,500	161,500	30.0	407.6	172,400	172,400	44.2	429.9	189,400	189,400	160
165					24.6	397.0	169,600	169,600	40.6	424.1	187,800	187,800	165
170					17.6	382.5	168,400	168,400	36.8	417.3	185,200	186,600	170
175									32.5	409.5	178,100	186,000	175
180									27.6	400.1	171,200	182,100	180
185									21.7	388.1	164,600	179,300	185
190									12.9	369.8	158,000	178,500	190
195													195
200													200
205													205
210													210
215													215
220													220
230													230
240													240
250													250
260													260
270													270

MLC650 VPC-MAX S-3

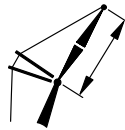
ASME B30.5



881,800 lb



341.2 ft

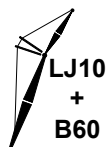


124.7 ft

	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155	64.1	449.7	171,300	200,800									155
160	61.5	446.9	164,200	200,800									160
165	58.8	443.8	157,400	200,200									165
170	56.0	440.3	151,100	199,200									170
175	53.1	436.5	145,100	198,600									175
180	50.1	432.2	139,400	196,600									180
185	46.9	427.5	134,100	195,100									185
190	43.5	422.2	129,000	193,600									190
195	39.9	416.1	124,100	192,200	57.9	433.5	95,200	196,100					195
200	36.0	409.2	119,400	191,100	55.0	429.9	91,400	196,100					200
205	31.7	401.2	114,900	190,500	52.1	425.9	87,800	196,100					205
210	26.6	391.4	110,600	187,700	49.0	421.5	84,300	191,400					210
215	20.3	378.7	106,300	182,400	45.8	416.6	81,000	185,900					215
220	10.3	357.5	101,800	176,900	42.4	411.0	77,800	180,500					220
230					34.6	397.5	71,700	170,500	53.5	416.2	48,400	153,100	230
240					24.7	378.4	65,900	161,300	47.4	407.4	44,000	144,800	240
250									40.5	396.2	39,900	137,100	250
260									32.4	381.6	35,900	129,900	260
270									21.4	360.1	32,000	123,200	270

MLC650 VPC-MAX S-3

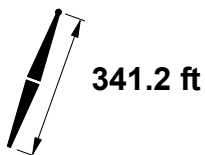
ASME B30.5



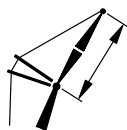
881,800 lb



360°



341.2 ft

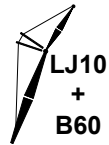


134.5 ft

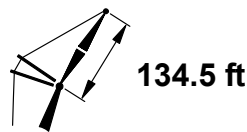
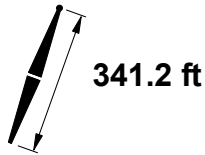
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	73.7	478.3	193,400 c	193,400 c									80
85	71.4	476.5	192,300 b	192,300 b									85
90	69.2	474.5	190,800 b	190,800 b									90
95	66.8	472.3	188,900 b	188,900 b	72.3	475.8	193,700 b	193,700 b					95
100	64.4	469.8	186,700 b	186,700 b	70.0	473.9	193,100 b	193,100 b					100
105	62.0	467.1	184,400	184,400	67.7	471.8	191,900 b	191,900 b					105
110	59.5	464.1	182,100	182,100	65.3	469.4	190,300 b	190,300 b					110
115	57.0	460.8	178,800	178,800	62.9	466.8	188,400	188,400					115
120	54.3	457.1	176,200	176,200	60.5	463.9	186,400	186,400	68.9	470.2	193,000 b	193,000 b	120
125	51.6	453.1	173,700	173,700	57.9	460.7	184,600	184,600	66.6	467.9	192,500 b	192,500 b	125
130	48.8	448.6	171,500	171,500	55.3	457.1	181,200	181,200	64.2	465.4	191,500	191,500	130
135	45.8	443.7	168,300	168,300	52.6	453.3	178,800	178,800	61.8	462.7	190,000	190,000	135
140	42.6	438.2	163,200	163,200	49.8	449.0	176,600	176,600	59.3	459.6	188,300	188,300	140
145	39.2	432.0	158,400	158,400	46.9	444.2	174,500	174,500	56.7	456.3	186,400	186,400	145
150	35.6	425.0	154,300	154,300	43.8	438.9	172,700	172,700	54.1	452.6	185,300	185,300	150
155	31.5	416.9	150,800	150,800	40.5	433.0	168,900	168,900	51.3	448.5	182,300	182,300	155
160	26.8	407.2	148,200	148,200	36.9	426.4	164,300	164,300	48.5	444.0	180,300	180,300	160
165	21.2	394.9	146,900	146,900	33.0	418.7	160,200	160,200	45.5	439.0	178,500	178,500	165
170	13.1	376.6	146,900	146,900	28.7	409.6	156,800	156,800	42.3	433.5	176,900	176,900	170
175					23.5	398.5	154,600	154,600	38.9	427.2	175,500	175,600	175
180					16.6	383.2	153,900	153,900	35.2	420.1	168,800	174,100	180
185									31.1	411.9	162,400	170,000	185
190									26.4	402.0	156,300	166,600	190
195									20.6	389.3	150,400	164,300	195
200									12.0	369.8	144,400	164,000	200
205													205
210													210
215													215
220													220
230													230
240													240
250													250
260													260
270													270
280													280

MLC650 VPC-MAX S-3

ASME B30.5



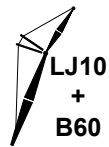
881,800 lb



	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160	63.8	458.2	160,700	189,200									160
165	61.3	455.4	154,000	189,200									165
170	58.8	452.3	147,700	188,700									170
175	56.2	448.9	141,800	188,100									175
180	53.6	445.1	136,200	186,800									180
185	50.8	441.0	130,900	185,500									185
190	47.9	436.4	125,900	184,200									190
195	44.9	431.3	121,100	182,800									195
200	41.7	425.6	116,500	181,500	58.0	442.0	87,900	183,500					200
205	38.2	419.2	112,100	180,400	55.4	438.4	84,300	183,500					205
210	34.4	411.9	107,900	179,500	52.7	434.5	80,900	183,500					210
215	30.2	403.4	103,800	179,100	49.9	430.3	77,700	183,200					215
220	25.4	393.1	99,900	174,700	46.9	425.5	74,500	177,900					220
230	9.3	357.0	91,900	164,800	40.5	414.3	68,600	168,100					230
240					33.1	400.0	63,100	159,000	51.2	420.7	40,500	142,000	240
250					23.5	379.9	57,800	150,500	45.4	411.2	36,500	134,400	250
260									38.8	399.4	32,700	127,400	260
270									30.9	384.0	29,100	120,800	270
280									20.4	361.2	25,500	114,600	280

MLC650 VPC-MAX S-3

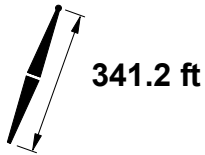
ASME B30.5



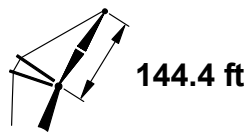
881,800 lb



360°



341.2 ft

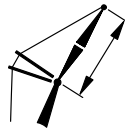
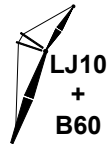


144.4 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	74.8	488.6	182,200 c	182,200 c									80
85	72.8	487.0	182,200 b	182,200 b									85
90	70.6	485.1	179,200 b	179,200 b									90
95	68.5	483.1	177,700 b	177,700 b									95
100	66.3	480.8	176,000 b	176,000 b	71.4	484.5	186,100 b	186,100 b					100
105	64.1	478.3	174,000	174,000	69.3	482.5	180,100 b	180,100 b					105
110	61.8	475.6	171,900	171,900	67.1	480.3	179,000	179,000					110
115	59.5	472.6	169,400	169,400	64.9	477.9	177,400	177,400					115
120	57.2	469.3	167,900	167,900	62.7	475.3	175,700	175,700					120
125	54.7	465.7	164,700	164,700	60.4	472.4	174,000	174,000	68.3	478.7	180,200	180,200	125
130	52.2	461.7	162,500	162,500	58.0	469.2	172,400	172,400	66.1	476.4	179,700	179,700	130
135	49.6	457.4	160,400	160,400	55.6	465.7	170,300	170,300	63.9	473.9	178,700	178,700	135
140	46.8	452.6	157,200	157,200	53.1	461.9	167,300	167,300	61.6	471.1	177,400	177,400	140
145	43.9	447.4	152,500	152,500	50.5	457.7	165,300	165,300	59.3	468.1	175,900	175,900	145
150	40.9	441.6	148,000	148,000	47.8	453.1	163,400	163,400	56.9	464.8	174,500	174,500	150
155	37.6	435.0	143,900	143,900	45.0	448.0	161,700	161,700	54.5	461.1	172,500	172,500	155
160	34.1	427.7	140,400	140,400	42.0	442.4	158,200	158,200	51.9	457.2	170,700	170,700	160
165	30.2	419.1	137,500	137,500	38.9	436.2	153,800	153,800	49.3	452.8	169,000	169,000	165
170	25.7	409.0	135,400	135,400	35.5	429.2	149,800	149,800	46.6	448.0	167,300	167,300	170
175	20.2	396.0	134,500	134,500	31.7	421.1	146,300	146,300	43.7	442.7	165,800	165,800	175
180	12.2	376.6	134,500	134,500	27.4	411.6	143,500	143,500	40.6	436.8	164,500	164,500	180
185					22.4	399.9	141,700	141,700	37.3	430.2	160,900	163,500	185
190					15.7	383.8	141,500	141,500	33.7	422.7	154,900	159,500	190
195									29.8	414.1	149,100	156,000	195
200									25.2	403.7	143,600	153,100	200
205									19.6	390.4	138,300	151,300	205
210									11.1	369.7	132,900		210
215													215
220													220
230													230
240													240
250													250
260													260
270													270
280													280
290													290

MLC650 VPC-MAX S-3

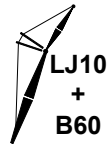
ASME B30.5



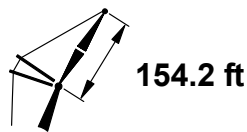
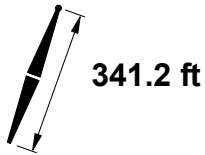
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165	63.5	466.7	151,800	176,900									165
170	61.2	463.9	145,500	176,700									170
175	58.9	460.8	139,700	176,300									175
180	56.5	457.4	134,100	175,900									180
185	54.0	453.7	128,800	174,800									185
190	51.4	449.6	123,800	174,000									190
195	48.8	445.2	119,100	172,500									195
200	46.0	440.3	114,500	171,300									200
205	43.1	434.9	110,200	170,100	58.1	450.5	82,000	171,300					205
210	40.0	428.9	106,100	169,100	55.7	447.0	78,700	171,300					210
215	36.7	422.1	102,100	168,200	53.2	443.2	75,500	171,300					215
220	33.0	414.5	98,300	167,600	50.6	439.0	72,400	171,300					220
230	24.2	394.7	91,000	160,300	45.1	429.3	66,600	166,400					230
240	8.4	356.2	83,600	151,200	38.9	417.5	61,200	157,400	54.4	433.4	38,200	140,200	240
250					31.7	402.4	56,100	149,000	49.2	425.0	34,300	132,700	250
260					22.5	381.3	51,300	141,300	43.6	414.9	30,600	125,700	260
270									37.2	402.4	27,100	119,300	270
280									29.6	386.1	23,800	113,200	280
290									19.4	362.3	20,400	107,400	290

MLC650 VPC-MAX S-3

ASME B30.5



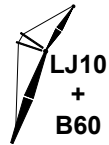
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	73.9	497.3	170,800 b	170,800 b									85
90	71.9	495.6	169,800 b	169,800 b									90
95	70.0	493.7	168,700 b	168,700 b									95
100	67.9	491.6	167,200	167,200	72.7	494.9	170,900 b	170,900 b					100
105	65.9	489.3	165,500	165,500	70.7	493.1	170,500 b	170,500 b					105
110	63.8	486.8	163,600	163,600	68.7	491.1	169,700	169,700					110
115	61.7	484.1	161,700	161,700	66.7	488.9	168,500	168,500					115
120	59.5	481.1	159,900	159,900	64.6	486.4	167,100	167,100					120
125	57.3	477.8	157,900	157,900	62.5	483.8	165,300	165,300	69.8	489.4	170,100	170,100	125
130	55.0	474.2	154,900	154,900	60.3	480.8	163,500	163,500	67.7	487.3	170,000	170,000	130
135	52.7	470.3	152,800	152,800	58.1	477.7	162,400	162,400	65.7	484.9	169,400	169,400	135
140	50.2	466.1	150,900	150,900	55.9	474.2	159,600	159,600	63.6	482.4	168,500	168,500	140
145	47.7	461.5	146,500	146,500	53.6	470.5	157,600	157,600	61.5	479.6	167,300	167,300	145
150	45.1	456.5	142,100	142,100	51.2	466.4	155,800	155,800	59.3	476.6	165,900	165,900	150
155	42.3	450.9	137,900	137,900	48.7	461.9	154,000	154,000	57.1	473.3	164,300	164,300	155
160	39.4	444.8	134,000	134,000	46.1	457.0	152,300	152,300	54.8	469.7	162,800	162,800	160
165	36.2	437.9	130,500	130,500	43.4	451.7	147,900	147,900	52.4	465.8	161,100	161,100	165
170	32.8	430.2	127,500	127,500	40.5	445.8	143,700	143,700	50.0	461.5	159,500	159,500	170
175	29.0	421.3	125,100	125,100	37.4	439.2	139,900	139,900	47.5	456.9	157,900	157,900	175
180	24.6	410.6	123,400	123,400	34.1	431.8	136,500	136,500	44.8	451.8	156,500	156,500	180
185	19.3	397.1	122,800	122,800	30.5	423.4	133,500	133,500	42.0	446.2	155,300	155,300	185
190	11.4	376.6	122,800	122,800	26.3	413.5	131,100	131,100	39.1	440.0	152,300	153,600	190
195					21.4	401.2	129,700	129,700	35.9	433.1	146,700	149,600	195
200					14.9	384.3	129,700	129,700	32.5	425.2	141,300	146,100	200
205									28.6	416.2	136,100	143,000	205
210									24.2	405.3	131,100	140,600	210
215									18.7	391.4	126,300	139,200	215
220									10.3	369.5	121,300	139,200	220
230													230
240													240
250													250
260													260
270													270
280													280
290													290
300													300

MLC650 VPC-MAX S-3

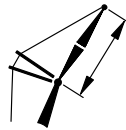
ASME B30.5



881,800 lb



341.2 ft

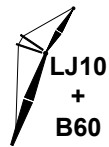


154.2 ft

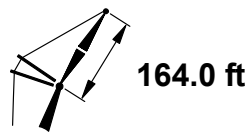
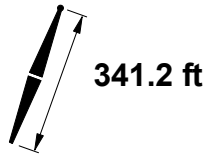
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
85												85
90												90
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170	63.2	475.2	142,100	166,500								170
175	61.1	472.3	136,300	166,500								175
180	58.9	469.3	130,800	166,200								180
185	56.7	465.9	125,600	165,900								185
190	54.4	462.2	120,600	165,400								190
195	52.0	458.3	115,900	164,000								195
200	49.5	453.9	111,400	162,900								200
205	47.0	449.2	107,200	161,900								205
210	44.3	444.0	103,100	160,800	58.2	458.9	75,200	161,100				210
215	41.5	438.3	99,200	159,800	55.9	455.5	72,000	161,100				215
220	38.5	432.0	95,500	158,900	53.6	451.7	69,000	161,100				220
230	31.8	416.9	88,400	157,300	48.7	443.2	63,300	161,100				230
240	23.2	396.2	81,700	149,500	43.4	433.0	58,000	154,900				240
250	7.5	355.3	74,900	141,100	37.5	420.5	53,100	146,600	52.4	438.0	130,000	250
260					30.5	404.7	48,500	139,000	47.4	429.1	123,100	260
270					21.5	382.7	44,000	131,800	41.9	418.4	116,700	270
280									35.8	405.2	110,700	280
290									28.5	388.2	105,100	290
300									18.5	363.3	99,700	300

MLC650 VPC-MAX S-3

ASME B30.5



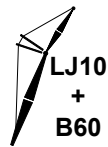
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	74.9	507.6	167,200 b	167,200 b									85
90	73.1	506.0	165,700 b	165,700 b									90
95	71.2	504.3	160,700 b	160,700 b									95
100	69.3	502.3	159,500	159,500									100
105	67.4	500.2	158,100	158,100	71.9	503.6	162,000	162,000					105
110	65.5	497.9	156,400	156,400	70.0	501.7	161,500	161,500					110
115	63.6	495.3	154,500	154,500	68.2	499.7	160,700	160,700					115
120	61.6	492.5	152,600	152,600	66.2	497.4	159,500	159,500					120
125	59.5	489.5	151,200	151,200	64.3	494.9	158,100	158,100					125
130	57.4	486.3	148,500	148,500	62.3	492.2	156,600	156,600	69.2	498.0	161,300	161,300	130
135	55.3	482.8	146,500	146,500	60.3	489.3	155,300	155,300	67.3	495.8	161,000	161,000	135
140	53.1	478.9	144,500	144,500	58.2	486.2	152,900	152,900	65.3	493.5	160,500	160,500	140
145	50.8	474.8	142,000	142,000	56.1	482.7	151,100	151,100	63.4	490.9	159,600	159,600	145
150	48.5	470.3	137,600	137,600	53.9	479.0	149,300	149,300	61.4	488.1	158,500	158,500	150
155	46.1	465.4	133,400	133,400	51.7	475.0	148,800	148,800	59.3	485.1	157,300	157,300	155
160	43.5	460.1	129,400	129,400	49.4	470.7	145,900	145,900	57.2	481.8	155,800	155,800	160
165	40.8	454.3	125,700	125,700	47.0	465.9	143,400	143,400	55.1	478.2	154,300	154,300	165
170	38.0	447.9	122,300	122,300	44.5	460.8	139,200	139,200	52.9	474.4	152,800	152,800	170
175	34.9	440.7	119,300	119,300	41.8	455.2	135,300	135,300	50.6	470.2	151,300	151,300	175
180	31.6	432.6	116,600	116,600	39.1	449.0	131,500	131,500	48.3	465.7	149,800	149,800	180
185	27.9	423.3	114,600	114,600	36.1	442.1	128,200	128,200	45.8	460.8	148,500	148,500	185
190	23.7	412.2	113,200	113,200	32.9	434.4	125,200	125,200	43.3	455.4	147,200	147,200	190
195	18.4	398.1	112,900	112,900	29.3	425.6	122,600	122,600	40.6	449.5	145,100	145,100	195
200	10.7	376.4	112,900	112,900	25.3	415.2	120,600	120,600	37.7	443.1	140,800	141,300	200
205					20.5	402.4	119,400	119,400	34.6	435.8	135,700	137,800	205
210					14.1	384.7	119,400	119,400	31.3	427.6	130,800	134,700	210
215									27.5	418.2	126,100	132,000	215
220									23.2	406.8	121,600	130,000	220
230									9.6	369.1	112,600	128,700	230
240													240
250													250
260													260
270													270
280													280
290													290
300													300
310													310

MLC650 VPC-MAX S-3

ASME B30.5



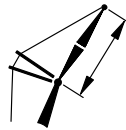
881,800 lb



360°



341.2 ft

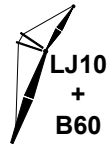


164.0 ft

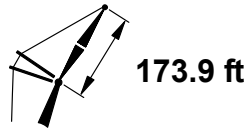
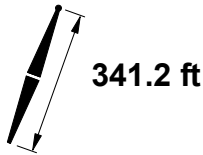
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
85												85
90												90
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170	65.0	486.3	141,000	157,200								170
175	63.0	483.6	135,200	157,200								175
180	61.0	480.8	129,700	157,200								180
185	58.9	477.7	124,500	157,200								185
190	56.8	474.4	119,600	157,200								190
195	54.7	470.8	115,000	156,400								195
200	52.5	466.9	110,500	155,600								200
205	50.2	462.7	106,300	154,700								205
210	47.8	458.1	102,300	153,700								210
215	45.3	453.1	98,400	152,700	58.2	467.4	70,900	152,200				215
220	42.8	447.6	94,700	151,800	56.1	464.0	67,900	152,200				220
225	40.3	441.1	91,200	150,900	53.9	459.6	64,900	151,300				225
230	37.1	435.0	87,700	150,100	51.7	456.3	62,300	152,200				230
235	34.6	428.5	84,400	149,300	49.5	452.0	59,900	152,200				235
240	30.6	419.2	81,300	147,900	47.0	447.2	57,100	152,200				240
250	22.3	397.7	75,100	140,600	41.9	436.5	52,300	145,900				250
260	6.7	354.1	68,800	132,900	36.1	423.4	47,700	138,300	50.6	442.5	122,200	260
270					32.4	406.9	43,500	131,300	45.7	433.0	115,800	270
280					29.4	406.9	43,500	131,300	40.5	421.7	109,900	280
290					20.6	383.9	39,300	124,600	34.5	407.9	104,400	290
300									27.4	390.2	99,200	300
310									17.7	364.1	94,200	310

MLC650 VPC-MAX S-3

ASME B30.5



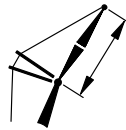
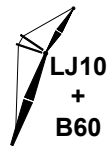
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	74.1	516.4	152,900 b	152,900 b									90
95	72.3	514.7	152,900	152,900									95
100	70.6	512.9	151,300	151,300									100
105	68.8	510.9	150,100	150,100	73.0	514.0	153,100	153,100					105
110	67.0	508.7	148,700	148,700	71.2	512.2	152,900	152,900					110
115	65.2	506.4	147,200	147,200	69.5	510.3	152,300	152,300					115
120	63.3	503.8	145,500	145,500	67.7	508.2	151,400	151,400					120
125	61.4	501.0	143,900	143,900	65.9	505.9	150,300	150,300					125
130	59.5	498.0	142,300	142,300	64.0	503.4	149,000	149,000					130
135	57.6	494.8	139,800	139,800	62.1	500.7	147,400	147,400	68.6	506.5	152,200	152,200	135
140	55.6	491.3	137,900	137,900	60.2	497.8	146,400	146,400	66.8	504.3	151,900	151,900	140
145	53.5	487.5	136,100	136,100	58.3	494.6	144,100	144,100	65.0	502.0	151,300	151,300	145
150	51.4	483.5	132,500	132,500	56.3	491.2	142,400	142,400	63.2	499.4	150,500	150,500	150
155	49.2	479.1	128,400	128,400	54.3	487.6	140,700	140,700	61.3	496.6	149,400	149,400	155
160	46.9	474.4	124,500	124,500	52.2	483.6	139,100	139,100	59.3	493.5	148,300	148,300	160
165	44.6	469.2	120,800	120,800	50.0	479.4	137,600	137,600	57.4	490.3	147,000	147,000	165
170	42.1	463.7	117,300	117,300	47.8	474.8	134,300	134,300	55.4	486.8	145,600	145,600	170
175	39.5	457.5	114,100	114,100	45.4	469.8	130,400	130,400	53.3	483.0	144,300	144,300	175
180	36.7	450.8	111,100	111,100	43.0	464.4	126,700	126,700	51.2	478.9	142,900	142,900	180
185	33.8	443.4	108,500	108,500	40.5	458.5	123,200	123,200	49.0	474.5	141,600	141,600	185
190	30.5	434.9	106,300	106,300	37.8	452.0	120,000	120,000	46.7	469.7	140,300	140,300	190
195	26.9	425.2	104,600	104,600	34.9	444.9	117,000	117,000	44.3	464.6	139,100	139,100	195
200	22.8	413.7	103,500	103,500	31.8	436.8	114,300	114,300	41.8	458.9	136,500	136,500	200
205	17.7	399.0	103,400	103,400	28.3	427.6	112,100	112,100	39.2	452.8	132,900	132,900	205
210	10.0	376.2	103,400	103,400	24.4	416.9	110,500	110,500	36.5	446.0	128,300	129,600	210
215					19.7	403.6	109,600	109,600	33.5	438.4	123,700	126,500	215
220					13.4	385.1	109,600	109,600	30.2	429.9	119,300	123,700	220
230									22.4	408.3	110,900	119,700	230
240									8.8	368.6	102,600	118,800	240
250													250
260													260
270													270
280													280
290													290
300													300
310													310
320													320

MLC650 VPC-MAX S-3

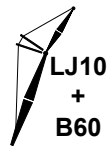
ASME B30.5



	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb
90												90
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175	64.7	494.8	131,800	148,300								175
180	62.8	492.1	126,400	148,300								180
185	60.9	489.3	121,200	148,300								185
190	59.0	486.2	116,400	148,300								190
195	57.0	482.9	111,700	148,300								195
200	55.0	479.3	107,300	147,600								200
205	52.9	475.5	103,200	146,900								205
210	50.8	471.4	99,200	146,100								210
215	48.5	466.9	95,300	145,300								215
220	46.3	462.0	91,700	144,400	58.3	475.9	64,400	143,000				220
230	41.4	451.1	84,800	142,700	54.3	468.9	58,900	143,000				230
240	35.9	437.9	78,500	141,400	50.0	460.7	53,800	143,000				240
250	29.6	421.4	72,600	137,800	45.5	451.1	49,100	142,800				250
260	21.5	399.0	66,900	131,200	40.5	439.8	44,700	135,900	53.2	455.2	119,500	260
270	5.8	352.5	61,000	123,900	34.9	426.2	40,500	128,900	48.9	446.7	113,200	270
280					28.4	409.0	36,600	122,400	44.2	436.8	107,400	280
290					19.8	385.0	32,700	116,300	39.1	424.9	101,900	290
300									33.4	410.5	96,800	300
310									26.5	392.1	91,900	310
320									16.9	364.9	87,300	320

MLC650 VPC-MAX S-3

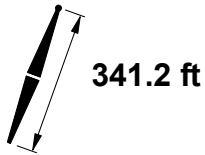
ASME B30.5



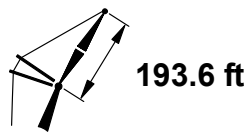
881,800 lb



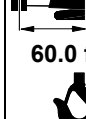
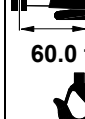
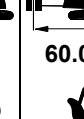
360°



341.2 ft

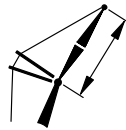
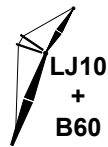


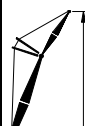
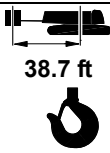
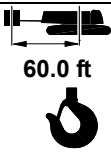
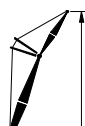
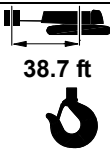
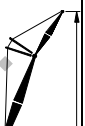
193.6 ft

 85°					 83°				 80°					
 ft	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 ft	
95	74.2	535.4	136,900	136,900										95
100	72.6	533.8	136,400	136,400										100
105	71.1	532.1	135,700	135,700										105
110	69.5	530.1	134,700	134,700										110
115	67.9	528.0	133,600	133,600	71.6	531.4	136,900	136,900						115
120	66.3	525.8	132,300	132,300	70.1	529.5	136,500	136,500						120
125	64.6	523.4	130,800	130,800	68.5	527.5	135,800	135,800						125
130	62.9	520.8	129,600	129,600	66.9	525.3	135,000	135,000						130
135	61.2	518.0	128,200	128,200	65.2	522.9	134,000	134,000						135
140	59.5	515.0	126,200	126,200	63.6	520.4	132,700	132,700	69.3	525.8	136,000	136,000		140
145	57.8	511.8	124,600	124,600	61.9	517.7	131,400	131,400	67.7	523.7	135,900	135,900		145
150	56.0	508.3	123,000	123,000	60.2	514.7	130,600	130,600	66.1	521.4	135,600	135,600		150
155	54.1	504.7	119,800	119,800	58.4	511.6	128,700	128,700	64.4	519.0	135,100	135,100		155
160	52.2	500.7	116,300	116,300	56.6	508.3	127,200	127,200	62.8	516.3	134,300	134,300		160
165	50.3	496.5	112,700	112,700	54.8	504.7	127,200	127,200	61.1	513.5	133,500	133,500		165
170	48.3	492.0	109,400	109,400	53.0	500.9	124,400	124,400	59.4	510.5	132,500	132,500		170
175	46.3	487.2	106,200	106,200	51.0	496.8	122,200	122,200	57.6	507.3	131,500	131,500		175
180	44.1	482.0	103,100	103,100	49.1	492.4	118,600	118,600	55.8	503.8	130,400	130,400		180
185	41.9	476.4	100,200	100,200	47.0	487.7	115,200	115,200	54.0	500.1	129,200	129,200		185
190	39.6	470.3	97,500	97,500	44.9	482.6	112,000	112,000	52.1	496.2	128,100	128,100		190
195	37.1	463.7	95,000	95,000	42.7	477.2	108,900	108,900	50.1	492.0	126,900	126,900		195
200	34.5	456.4	92,800	92,800	40.5	471.3	106,000	106,000	48.1	487.4	125,800	125,800		200
205	31.7	448.3	90,800	90,800	38.0	464.9	103,200	103,200	46.1	482.6	124,700	124,700		205
210	28.6	439.3	89,200	89,200	35.5	457.8	100,700	100,700	43.9	477.3	121,500	121,500		210
215	25.2	428.8	88,000	88,000	32.8	450.1	98,400	98,400	41.7	471.7	118,400	118,400		215
220	21.2	416.4	87,300	87,300	29.8	441.4	96,400	96,400	39.4	465.5	115,400	115,400		220
230	8.7	375.2	87,300	87,300	22.8	419.9	93,600	93,600	34.3	451.5	108,000	109,900		230
240					12.1	385.4	93,100	93,100	28.3	434.2	100,500	105,400		240
250									20.8	410.9	93,400	102,300		250
260									7.5	367.0	86,300	101,800		260
270														270
280														280
290														290
300														300
310														310
320														320
330														330
340														340

MLC650 VPC-MAX S-3

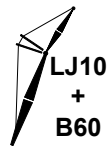
ASME B30.5



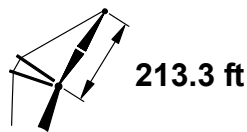
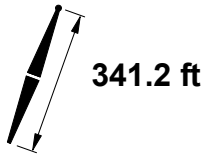
 75°					 70°					 65°				
	 ft	 °	 ft	 lb		 lb	 °	 ft	 lb		 lb	 °	 ft	 lb
95													95	
100													100	
105													105	
110													110	
115													115	
120													120	
125													125	
130													130	
135													135	
140													140	
145													145	
150													150	
155													155	
160													160	
165													165	
170													170	
175													175	
180													180	
185	64.1	511.7	116,700	132,000									185	
190	62.5	509.1	111,900	132,000									190	
195	60.8	506.2	107,400	132,000									195	
200	59.0	503.2	103,000	132,000									200	
205	57.3	499.9	98,900	132,000									205	
210	55.4	496.4	95,000	131,900									210	
215	53.6	492.7	91,200	131,500									215	
220	51.7	488.7	87,600	130,900									220	
230	47.7	479.8	80,900	129,600	58.4	492.9	54,300	126,700					230	
240	43.5	469.6	74,700	128,300	54.8	486.0	49,300	126,700					240	
250	38.9	457.6	69,000	126,800	51.1	478.1	44,700	126,700					250	
260	33.7	443.3	63,700	125,700	47.1	469.0	40,500	126,700					260	
270	27.7	425.6	58,600	120,600	42.8	458.5	36,500	124,800	53.9	472.4	109,500		270	
280	20.0	401.4	53,800	115,100	38.1	446.2	32,700	119,200	50.1	464.2	103,800		280	
290	3.7	347.6	48,500	108,800	32.8	431.4	29,200	113,400	46.0	454.8	98,500		290	
300					26.6	412.9	25,800	107,800	41.6	443.9	93,500		300	
310					18.4	387.1	22,400	101,900	36.8	431.0	88,800		310	
320										31.3	415.5	84,300	320	
330										24.7	395.6	80,100	330	
340										15.6	366.3	76,000	340	

MLC650 VPC-MAX S-3

ASME B30.5



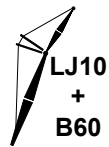
881,800 lb



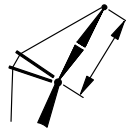
85°					83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100	74.3	554.5	122,300	122,300									100
105	72.9	552.9	122,000	122,000									105
110	71.5	551.2	121,400	121,400									110
115	70.0	549.3	120,600	120,600									115
120	68.6	547.3	119,700	119,700	72.0	550.5	122,400	122,400					120
125	67.1	545.1	118,700	118,700	70.6	548.7	122,100	122,100					125
130	65.6	542.8	117,400	117,400	69.1	546.7	121,600	121,600					130
135	64.1	540.4	116,300	116,300	67.7	544.6	121,000	121,000					135
140	62.6	537.7	114,900	114,900	66.2	542.4	120,200	120,200					140
145	61.1	534.9	113,500	113,500	64.7	539.9	119,200	119,200	69.9	545.0	121,400	121,400	145
150	59.5	531.9	112,200	112,200	63.2	537.4	118,100	118,100	68.4	542.9	121,400	121,400	150
155	57.9	528.7	110,800	110,800	61.7	534.6	117,400	117,400	67.0	540.8	121,300	121,300	155
160	56.3	525.4	108,100	108,100	60.1	531.7	115,900	115,900	65.5	538.4	120,900	120,900	160
165	54.6	521.8	105,100	105,100	58.5	528.6	114,700	114,700	64.0	535.9	120,500	120,500	165
170	53.0	517.9	101,900	101,900	56.9	525.3	113,600	113,600	62.5	533.3	119,800	119,800	170
175	51.2	513.9	99,000	99,000	55.3	521.8	112,200	112,200	60.9	530.5	119,100	119,100	175
180	49.4	509.5	96,100	96,100	53.6	518.0	110,800	110,800	59.4	527.5	118,300	118,300	180
185	47.6	504.9	93,300	93,300	51.9	514.0	107,700	107,700	57.8	524.3	117,400	117,400	185
190	45.7	500.0	90,600	90,600	50.1	509.8	104,700	104,700	56.1	520.9	116,500	116,500	190
195	43.8	494.8	88,100	88,100	48.3	505.3	101,800	101,800	54.5	517.2	115,500	115,500	195
200	41.8	489.1	85,700	85,700	46.4	500.5	99,000	99,000	52.8	513.4	114,600	114,600	200
205	39.7	483.1	83,400	83,400	44.5	495.4	96,300	96,300	51.1	509.3	113,600	113,600	205
210	37.4	476.5	81,300	81,300	42.5	489.9	93,700	93,700	49.3	505.0	112,600	112,600	210
215	35.1	469.4	79,300	79,300	40.4	484.0	91,200	91,200	47.4	500.3	111,000	111,000	215
220	32.6	461.6	77,600	77,600	38.3	477.7	88,900	88,900	45.6	495.4	108,200	108,200	220
230	27.0	443.3	75,000	75,000	33.6	463.2	84,700	84,700	41.6	484.4	102,800	102,800	230
240	19.9	418.8	73,800	73,800	28.1	445.6	81,500	81,500	37.2	471.7	97,300	97,800	240
250	7.5	373.7	73,800	73,800	21.4	422.7	79,400	79,400	32.4	456.6	90,500	93,400	250
260					11.0	385.5	79,200	79,200	26.7	438.1	84,100	89,800	260
270									19.5	413.3	78,100	87,600	270
280									6.2	364.7	71,900	87,300	280
290													290
300													300
310													310
320													320
330													330
340													340
350													350
360													360

MLC650 VPC-MAX S-3

ASME B30.5



341.2 ft

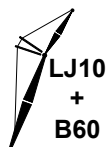


213.3 ft

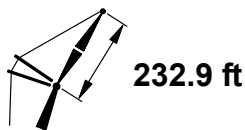
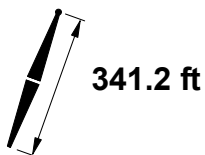
	75°				70°				65°			
	ft	°	ft	lb	lb	ft	lb	lb	ft	°	ft	lb
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195	63.7	528.7	103,000	117,600								195
200	62.2	526.0	98,700	117,600								200
205	60.6	523.2	94,600	117,600								205
210	59.1	520.1	90,700	117,600								210
215	57.5	516.9	87,100	117,600								215
220	55.8	513.5	83,500	117,600								220
230	52.5	505.9	76,900	117,100								230
240	48.9	497.4	70,800	116,100	58.5	509.9	44,800	112,300				240
250	45.2	487.7	65,200	115,000	55.3	503.0	40,300	112,300				250
260	41.2	476.6	60,000	113,900	51.9	495.3	36,100	112,300				260
270	36.8	463.7	55,100	112,900	48.3	486.6	32,300	112,300				270
280	31.9	448.3	50,600	108,300	44.5	476.7	28,700	112,300	54.4	489.5	100,200	280
290	26.1	429.4	46,200	104,200	40.5	465.3	25,200	108,800	51.0	481.5	95,000	290
300	18.7	403.6	42,000	100,700	36.0	452.1	22,000	103,800	47.4	472.5	90,000	300
310					31.0	436.3		98,900	43.5	462.3	85,400	310
320					25.0	416.5		93,900	39.4	450.5	81,100	320
330					17.1	388.9		88,600	34.8	436.7	77,000	330
340									29.6	420.0	73,100	340
350									23.3	398.8	69,400	350
360									14.4	367.3	65,700	360

MLC650 VPC-MAX S-3

ASME B30.5



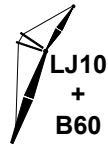
881,800 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105	74.4	573.5	109,600	109,600									105
110	73.1	572.0	109,300	109,300									110
115	71.8	570.3	108,800	108,800									115
120	70.5	568.5	108,200	108,200									120
125	69.2	566.5	107,500	107,500	72.3	569.6	109,600	109,600					125
130	67.8	564.4	106,700	106,700	71.0	567.8	109,400	109,400					130
135	66.5	562.2	105,800	105,800	69.7	565.9	109,000	109,000					135
140	65.1	559.9	104,800	104,800	68.3	563.9	108,600	108,600					140
145	63.7	557.4	103,600	103,600	67.0	561.7	108,000	108,000					145
150	62.4	554.7	102,800	102,800	65.6	559.4	107,200	107,200					150
155	60.9	551.9	101,400	101,400	64.3	556.9	106,400	106,400	69.0	562.2	108,400	108,400	155
160	59.5	548.9	100,200	100,200	62.9	554.3	105,500	105,500	67.7	560.1	108,400	108,400	160
165	58.1	545.7	98,100	98,100	61.5	551.6	104,900	104,900	66.4	557.8	108,100	108,100	165
170	56.6	542.4	95,400	95,400	60.0	548.6	103,700	103,700	65.0	555.5	107,800	107,800	170
175	55.1	538.8	92,600	92,600	58.6	545.5	102,600	102,600	63.6	552.9	107,400	107,400	175
180	53.5	535.1	90,100	90,100	57.1	542.3	101,600	101,600	62.2	550.3	107,000	107,000	180
185	52.0	531.1	87,500	87,500	55.6	538.8	100,500	100,500	60.8	547.4	106,400	106,400	185
190	50.4	527.0	85,000	85,000	54.1	535.1	98,300	98,300	59.4	544.4	105,800	105,800	190
195	48.7	522.5	82,500	82,500	52.6	531.3	95,600	95,600	57.9	541.2	105,100	105,100	195
200	47.0	517.8	80,200	80,200	51.0	527.2	93,100	93,100	56.4	537.9	104,300	104,300	200
205	45.3	512.8	77,900	77,900	49.3	522.8	90,600	90,600	54.9	534.3	103,600	103,600	205
210	43.5	507.5	75,800	75,800	47.7	518.2	88,200	88,200	53.4	530.6	102,800	102,800	210
215	41.6	501.9	73,800	73,800	45.9	513.4	85,700	85,700	51.8	526.6	102,000	102,000	215
220	39.7	495.8	71,900	71,900	44.2	508.2	83,400	83,400	50.2	522.4	101,200	101,200	220
230	35.6	482.3	68,400	68,400	40.4	496.8	79,100	79,100	46.9	513.2	96,900	96,900	230
240	31.0	466.5	65,600	65,600	36.4	483.6	75,300	75,300	43.3	502.8	92,200	92,200	240
250	25.6	447.0	63,600	63,600	31.9	468.3	72,000	72,000	39.5	491.1	87,800	87,800	250
260	18.7	421.0	62,900	62,900	26.7	449.6	69,400	69,400	35.4	477.5	82,100	83,700	260
270	6.3	371.5	62,900	62,900	20.2	425.2	68,100	68,100	30.7	461.5	76,300	80,100	270
280					10.0	385.1	68,000	68,000	25.3	441.8	70,800	77,300	280
290									18.3	415.3	65,600	75,600	290
300									4.8	361.2	60,100	75,600	300
310													310
320													320
330													330
340													340
350													350
360													360
370													370
380													380

MLC650 VPC-MAX S-3

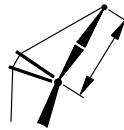
ASME B30.5



881,800 lb



341.2 ft



232.9 ft

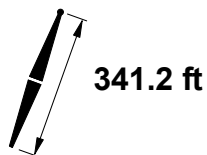
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb
105												
110												
115												
120												
125												
130												
135												
140												
145												
150												
155												
160												
165												
170												
175												
180												
185												
190												
195												
200	64.7	548.3	95,500	103,900								
205	63.4	545.7	91,500	103,900								
210	62.0	543.0	87,700	103,900								
215	60.5	540.1	84,000	103,900								
220	59.1	537.1	80,500	103,900								
230	56.1	530.5	74,000	103,900								
240	53.1	523.1	68,000	103,900								
250	49.9	514.8	62,500	103,900	58.6	526.8	37,100	99,000				
260	46.5	505.5	57,300	103,200	55.7	520.1	33,000	99,000				
270	43.0	495.1	52,600	102,000	52.6	512.6	29,200	99,000				
280	39.2	483.1	48,100	101,400	49.4	504.1	25,700	99,000				
290	35.0	469.3	43,900	98,000	46.0	494.7	22,400	99,000	54.9	506.6	91,900	
300	30.3	453.0	40,000	94,100	42.4	484.0		99,000	51.8	498.8	87,500	
310	24.7	432.9	36,200	90,800	38.5	471.8		95,400	48.5	490.1	82,900	
320	17.5	405.5	32,500	88,400	34.2	457.6		91,100	45.1	480.4	78,700	
330					29.4	440.8		86,700	41.4	469.3	74,600	
340					23.7	419.8		81,900	37.4	456.7	70,800	
350					16.0	390.4		77,200	33.1	441.9	67,200	
360									28.1	424.2	63,800	
370									22.0	401.7	60,500	
380									13.4	368.1	57,200	

MLC650 VPC-MAX S-3

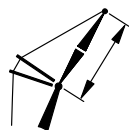
ASME B30.5



881,800 lb



341.2 ft



252.6 ft

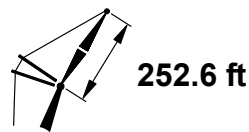
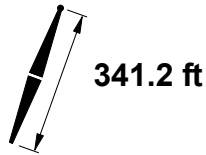
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
110	74.4	592.6	95,000	95,000									110
115	73.3	591.0	95,000	95,000									115
120	72.1	589.4	94,600	94,600									120
125	70.9	587.6	94,200	94,200									125
130	69.7	585.7	93,700	93,700	72.5	588.7	95,000	95,000					130
135	68.4	583.7	93,100	93,100	71.3	586.9	95,000	95,000					135
140	67.2	581.6	92,500	92,500	70.1	585.1	94,800	94,800					140
145	65.9	579.3	91,700	91,700	68.9	583.1	94,400	94,400					145
150	64.7	576.9	90,900	90,900	67.7	581.0	94,000	94,000					150
155	63.4	574.3	90,000	90,000	66.4	578.8	93,600	93,600					155
160	62.1	571.6	89,200	89,200	65.2	576.4	92,900	92,900	69.5	581.4	93,900	93,900	160
165	60.8	568.8	88,300	88,300	63.9	573.9	92,400	92,400	68.3	579.3	93,900	93,900	165
170	59.5	565.8	87,400	87,400	62.6	571.3	91,600	91,600	67.1	577.2	93,800	93,800	170
175	58.2	562.7	85,600	85,600	61.3	568.5	90,900	90,900	65.8	574.9	93,700	93,700	175
180	56.8	559.4	83,400	83,400	60.0	565.6	90,200	90,200	64.6	572.5	93,400	93,400	180
185	55.4	555.9	81,100	81,100	58.7	562.5	89,400	89,400	63.3	569.9	93,100	93,100	185
190	54.0	552.2	78,900	78,900	57.3	559.3	88,600	88,600	62.0	567.2	92,800	92,800	190
195	52.6	548.4	76,700	76,700	55.9	555.8	87,800	87,800	60.7	564.4	92,400	92,400	195
200	51.1	544.3	74,600	74,600	54.5	552.2	86,300	86,300	59.4	561.4	91,900	91,900	200
205	49.6	540.0	72,600	72,600	53.1	548.4	84,100	84,100	58.0	558.2	91,400	91,400	205
210	48.1	535.5	70,500	70,500	51.7	544.5	82,000	82,000	56.7	554.9	90,800	90,800	210
215	46.5	530.7	68,600	68,600	50.2	540.2	79,900	79,900	55.3	551.4	90,200	90,200	215
220	44.9	525.6	66,700	66,700	48.7	535.8	77,800	77,800	53.9	547.7	89,600	89,600	220
230	41.5	514.6	63,200	63,200	45.5	526.2	73,800	73,800	51.0	539.7	88,400	88,400	230
240	37.9	502.1	60,100	60,100	42.2	515.4	70,000	70,000	48.0	530.9	85,800	85,800	240
250	34.0	487.8	57,300	57,300	38.6	503.2	66,600	66,600	44.8	521.0	81,900	81,900	250
260	29.5	471.0	55,100	55,100	34.7	489.3	63,500	63,500	41.4	509.9	78,000	78,000	260
270	24.3	450.4	53,700	53,700	30.4	473.0	60,900	60,900	37.7	497.3	72,800	74,500	270
280	17.7	423.0	53,300	53,300	25.4	453.3	59,000	59,000	33.8	482.9	67,500	71,200	280
290	5.1	368.4	53,300	53,300	19.1	427.5	58,000	58,000	29.3	466.0	62,500	68,400	290
300					9.1	384.4	58,000	58,000	24.1	445.1	57,800	66,200	300
310									17.3	417.2	53,200	65,000	310
320									3.1	355.3	48,300	65,000	320
330													330
340													340
350													350
360													360
370													370
380													380
390													390
400													400

MLC650 VPC-MAX S-3

ASME B30.5



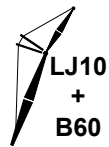
881,800 lb



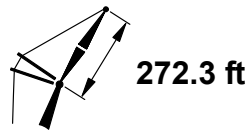
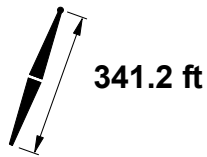
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210	64.3	565.3	83,100	90,000								210
215	63.1	562.7	79,500	90,000								215
220	61.8	560.0	76,000	90,000								220
230	59.1	554.1	69,600	90,000								230
240	56.4	547.5	63,700	90,000								240
250	53.6	540.2	58,200	90,000								250
260	50.7	532.2	53,200	90,000	58.7	543.8	85,300					260
270	47.7	523.2	48,500	89,900	56.0	537.1	85,300					270
280	44.5	513.2	44,100	89,300	53.1	529.7	85,300					280
290	41.0	502.0	40,000	88,400	50.2	521.5	85,300					290
300	37.4	489.3	36,200	87,600	47.1	512.4	85,300					300
310	33.4	474.7	32,600	84,200	43.9	502.3	85,300	52.4	516.0	79,300		310
320	28.8	457.4	29,100	81,100	40.5	490.8	83,100	49.4	507.6	75,100		320
330	23.5	436.1	25,800	78,100	36.7	477.8	79,500	46.3	498.3	71,200		330
340	16.5	407.1	22,600	74,200	32.7	462.8	75,900	43.0	487.8	67,400		340
350					28.0	445.0	72,100	39.5	476.0	63,900		350
360					22.5	422.8	68,200	35.7	462.5	60,600		360
370					15.1	391.6	64,000	31.5	446.9	57,400		370
380								26.7	428.2	54,300		380
390								20.9	404.4	51,400		390
400								12.4	368.6	48,500		400

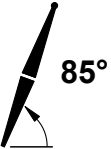
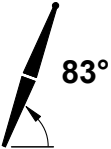
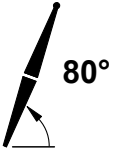
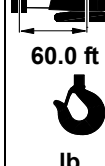
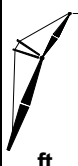
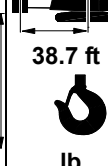
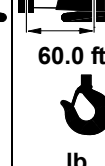
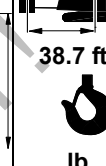
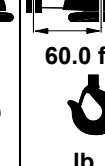
MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



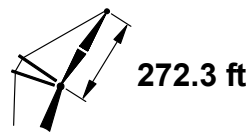
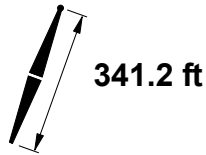
 85°					 83°					 80°					
 ft	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 ft		
115	74.5	611.6	85,200	85,200										115	
120	73.4	610.1	85,000	85,000										120	
125	72.3	608.5	84,700	84,700										125	
130	71.2	606.7	84,400	84,400										130	
135	70.1	604.9	83,900	83,900	72.7	607.7	85,000	85,000						135	
140	68.9	602.9	83,400	83,400	71.6	606.0	85,000	85,000						140	
145	67.8	600.8	82,900	82,900	70.5	604.2	84,800	84,800						145	
150	66.6	598.6	82,200	82,200	69.4	602.3	84,500	84,500						150	
155	65.5	596.3	81,600	81,600	68.2	600.3	84,200	84,200						155	
160	64.3	593.9	80,900	80,900	67.1	598.1	83,900	83,900						160	
165	63.1	591.3	80,100	80,100	65.9	595.8	83,300	83,300	70.0	600.5	83,800	83,800		165	
170	61.9	588.6	79,300	79,300	64.8	593.4	82,800	82,800	68.8	598.6	83,800	83,800		170	
175	60.7	585.8	78,500	78,500	63.6	590.9	82,300	82,300	67.7	596.5	83,800	83,800		175	
180	59.5	582.8	76,900	76,900	62.4	588.3	81,700	81,700	66.5	594.3	83,800	83,800		180	
185	58.3	579.7	75,000	75,000	61.2	585.5	81,000	81,000	65.4	591.9	83,700	83,700		185	
190	57.0	576.4	73,100	73,100	60.0	582.6	80,400	80,400	64.2	589.5	83,400	83,400		190	
195	55.7	572.9	71,100	71,100	58.7	579.5	79,700	79,700	63.0	586.9	83,100	83,100		195	
200	54.4	569.3	69,300	69,300	57.5	576.2	79,000	79,000	61.8	584.2	82,800	82,800		200	
205	53.1	565.5	67,400	67,400	56.2	572.9	78,000	78,000	60.6	581.3	82,400	82,400		205	
210	51.8	561.5	65,600	65,600	54.9	569.3	76,200	76,200	59.4	578.3	82,100	82,100		210	
215	50.4	557.4	63,800	63,800	53.6	565.6	74,300	74,300	58.1	575.2	81,600	81,600		215	
220	49.0	553.0	62,100	62,100	52.3	561.7	72,500	72,500	56.9	571.9	81,100	81,100		220	
230	46.1	543.5	58,700	58,700	49.5	553.3	68,800	68,800	54.3	564.8	80,100	80,100		230	
240	43.1	533.0	55,600	55,600	46.6	544.0	65,300	65,300	51.6	557.0	79,100	79,100		240	
250	39.8	521.3	52,800	52,800	43.6	533.7	62,000	62,000	48.9	548.4	76,400	76,400		250	
260	36.3	508.1	50,300	50,300	40.4	522.3	58,900	58,900	46.0	538.9	72,900	72,900		260	
270	32.5	493.0	48,200	48,200	37.0	509.3	56,100	56,100	42.9	528.4	69,600	69,600		270	
280	28.2	475.3	46,400	46,400	33.2	494.6	53,700	53,700	39.7	516.6	65,300	66,500		280	
290	23.2	453.6	45,400	45,400	29.1	477.5	51,700	51,700	36.2	503.3	60,400	63,500		290	
300	16.8	424.7	45,200	45,200	24.2	456.7	50,200	50,200	32.3	488.1	55,800	60,900		300	
310	3.7	363.7	45,200	45,200	18.1	429.6	49,500	49,500	28.0	470.2	51,500	58,600		310	
320					8.2	383.4	49,500	49,500	22.9	448.3	47,300	56,900		320	
330									16.4	418.8	43,300	56,100		330	
340														340	
350														350	
360														360	
370														370	
380														380	
390														390	
400														400	
410														410	
420														420	

MLC650 VPC-MAX S-3

ASME B30.5



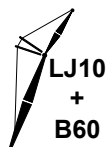
881,800 lb



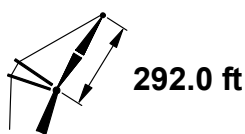
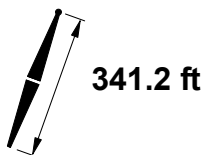
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft	
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220	64.0	582.3	72,900	80,200								220
230	61.6	576.9	66,500	80,200								230
240	59.2	571.0	60,700	80,200								240
250	56.6	564.5	55,300	80,200								250
260	54.1	557.4	50,300	80,200								260
270	51.4	549.5	45,700	80,200	58.7	560.8	74,900					270
280	48.6	540.8	41,400	80,200	56.2	554.1	74,900					280
290	45.7	531.2	37,400	79,700	53.6	546.9	74,900					290
300	42.6	520.6	33,700	79,400	50.9	538.9	74,900					300
310	39.3	508.7	30,100	78,700	48.1	530.1	74,900					310
320	35.8	495.2	26,800	75,800	45.2	520.3	74,900	52.9	533.2	70,300		320
330	31.9	479.8	23,600	73,000	42.1	509.5	74,900	50.2	525.0	68,700		330
340	27.6	461.6	20,600	70,400	38.8	497.3	72,700	47.4	516.0	65,000		340
350	22.4	439.2		68,200	35.2	483.6	69,500	44.4	506.0	61,600		350
360	15.6	408.5		64,900	31.3	467.8	66,100	41.3	494.8	58,300		360
370					26.8	449.0	62,800	37.9	482.3	55,200		370
380					21.4	425.7	59,100	34.2	468.1	52,200		380
390					14.2	392.7	55,300	30.2	451.6	49,400		390
400								25.5	431.9	46,600		400
410								19.8	406.8	44,000		410
420								11.6	368.9	41,400		420

MLC650 VPC-MAX S-3

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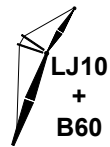
881,800 lb



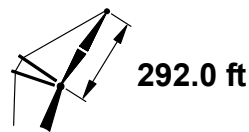
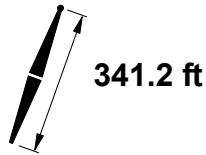
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
120	74.6	630.7	75,000	75,000									120
125	73.5	629.2	74,800	74,800									125
130	72.5	627.6	74,600	74,600									130
135	71.5	625.8	74,300	74,300									135
140	70.4	624.0	74,000	74,000	72.9	626.8	74,800	74,800					140
145	69.4	622.1	73,500	73,500	71.9	625.1	74,700	74,700					145
150	68.3	620.1	73,100	73,100	70.8	623.4	74,600	74,600					150
155	67.3	618.0	72,600	72,600	69.8	621.5	74,400	74,400					155
160	66.2	615.7	71,900	71,900	68.7	619.5	74,100	74,100					160
165	65.1	613.4	71,300	71,300	67.6	617.4	73,800	73,800					165
170	64.0	610.9	70,900	70,900	66.6	615.2	73,500	73,500					170
175	62.9	608.3	70,100	70,100	65.5	612.9	73,000	73,000	69.3	617.8	73,500	73,500	175
180	61.8	605.6	69,400	69,400	64.4	610.5	72,600	72,600	68.2	615.7	73,400	73,400	180
185	60.6	602.7	68,000	68,000	63.3	607.9	72,000	72,000	67.1	613.6	73,400	73,400	185
190	59.5	599.7	66,400	66,400	62.2	605.2	71,700	71,700	66.1	611.3	73,300	73,300	190
195	58.3	596.6	64,700	64,700	61.1	602.4	71,000	71,000	65.0	609.0	73,200	73,200	195
200	57.2	593.4	63,100	63,100	59.9	599.5	70,400	70,400	63.9	606.5	73,000	73,000	200
205	56.0	590.0	61,500	61,500	58.8	596.4	69,900	69,900	62.8	603.9	72,700	72,700	205
210	54.8	586.4	59,800	59,800	57.6	593.2	69,300	69,300	61.7	601.1	72,500	72,500	210
215	53.6	582.7	58,300	58,300	56.4	589.9	67,700	67,700	60.5	598.3	72,200	72,200	215
220	52.3	578.8	56,700	56,700	55.2	586.4	66,100	66,100	59.4	595.3	71,800	71,800	220
230	49.8	570.4	53,600	53,600	52.8	578.9	63,000	63,000	57.1	588.9	71,100	71,100	230
240	47.1	561.3	50,800	50,800	50.2	570.7	59,900	59,900	54.7	581.9	70,200	70,200	240
250	44.3	551.2	48,100	48,100	47.6	561.7	56,900	56,900	52.2	574.2	69,400	69,400	250
260	41.4	540.1	45,600	45,600	44.8	551.8	54,000	54,000	49.6	565.8	66,900	66,900	260
270	38.3	527.7	43,300	43,300	41.9	540.9	51,300	51,300	47.0	556.7	64,000	64,000	270
280	34.9	513.8	41,300	41,300	38.9	528.8	48,800	48,800	44.2	546.5	61,100	61,100	280
290	31.2	497.9	39,500	39,500	35.5	515.2	46,600	46,600	41.2	535.4	56,500	56,500	290
300	27.1	479.3	38,300	38,300	31.9	499.7	44,600	44,600	38.1	522.9	52,000	52,000	300
310	22.2	456.6	37,500	37,500	27.9	481.7	43,000	43,000	34.7	508.9	47,700	47,700	310
320	15.9	426.2	37,300	37,300	23.2	459.9	41,800	41,800	31.0	492.9	43,700	43,700	320
330					17.3	431.4	41,400	41,400	26.9	474.2	39,900	39,900	330
340					7.3	381.9	41,400	41,400	21.9	451.2	36,200	36,200	340
350									15.6	420.2	32,600	32,600	350
360													360
370													370
380													380
390													390
400													400
410													410
420													420
430													430
440													440

MLC650 VPC-MAX S-3

ASME B30.5



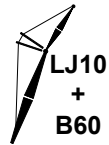
881,800 lb



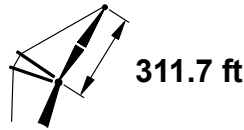
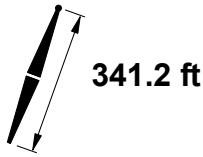
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220												220
230	63.7	599.3	61,900	69,400								230
240	61.5	593.9	56,100	69,400								240
250	59.2	588.0	50,800	69,400								250
260	56.8	581.5	45,800	69,400								260
270	54.4	574.4	41,300	69,400								270
280	52.0	566.7	37,000	69,400	58.8	577.7	64,500					280
290	49.4	558.3	33,100	69,400	56.4	571.2	64,500					290
300	46.7	549.0	29,400	69,400	54.0	564.0	64,500					300
310	43.9	538.8	25,900	69,400	51.5	556.2	64,500					310
320	41.0	527.5	22,600	69,000	49.0	547.6	64,500					320
330	37.8	515.0		67,100	46.3	538.2	64,500	53.4	550.4	59,600		330
340	34.4	500.8		64,700	43.4	527.8	64,500	50.9	542.4	59,600		340
350	30.7	484.6		62,400	40.4	516.3	64,500	48.3	533.6	58,000		350
360	26.4	465.5		60,300	37.3	503.5	62,000	45.5	523.9	54,700		360
370	21.4	442.0		58,400	33.8	489.0	58,700	42.7	513.3	51,700		370
380	14.8	409.8		55,200	30.0	472.4	55,000	39.7	501.5	48,700		380
390					25.7	452.8	51,500	36.4	488.3	46,000		390
400					20.5	428.3	48,000	32.9	473.4	43,100		400
410					13.4	393.5	44,600	29.0	456.1	40,200		410
420								24.4	435.4	37,500		420
430								18.9	409.1	34,800		430
440								10.8	368.9	32,000		440

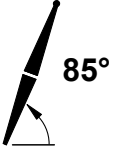
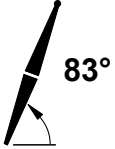
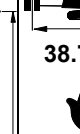
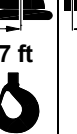
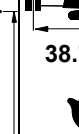
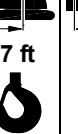
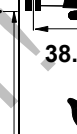
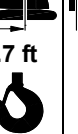
MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



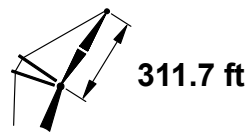
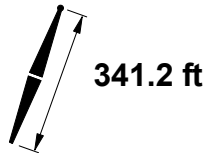
	 85°					 83°					 80°					
																
ft	°	ft	lb	lb		°	ft	lb	lb		°	ft	lb	lb	ft	
125	74.6	649.7	66,500	66,500											125	
130	73.6	648.2	66,400	66,400											130	
135	72.7	646.6	66,200	66,200											135	
140	71.7	644.9	65,900	65,900											140	
145	70.7	643.2	65,600	65,600											145	
150	69.8	641.3	65,200	65,200	72.1	644.2	66,100	66,100							150	
155	68.8	639.3	64,900	64,900	71.1	642.5	66,100	66,100							155	
160	67.8	637.2	64,400	64,400	70.1	640.6	65,900	65,900							160	
165	66.8	635.1	63,900	63,900	69.1	638.7	65,700	65,700							165	
170	65.8	632.8	63,400	63,400	68.1	636.7	65,300	65,300							170	
175	64.7	630.4	62,900	62,900	67.1	634.5	65,000	65,000							175	
180	63.7	627.9	62,300	62,300	66.1	632.3	64,700	64,700	69.7	636.9	64,800	64,800			180	
185	62.7	625.3	61,700	61,700	65.1	629.9	64,300	64,300	68.7	635.0	64,700	64,700			185	
190	61.6	622.5	60,500	60,500	64.1	627.5	64,000	64,000	67.7	632.9	64,700	64,700			190	
195	60.6	619.7	59,100	59,100	63.1	624.9	63,500	63,500	66.7	630.7	64,700	64,700			195	
200	59.5	616.7	57,700	57,700	62.0	622.2	63,100	63,100	65.7	628.4	64,700	64,700			200	
205	58.4	613.6	56,200	56,200	61.0	619.4	62,600	62,600	64.6	626.0	64,500	64,500			205	
210	57.3	610.4	54,800	54,800	59.9	616.5	62,200	62,200	63.6	623.5	64,300	64,300			210	
215	56.2	607.0	53,400	53,400	58.8	613.4	61,700	61,700	62.6	620.8	64,100	64,100			215	
220	55.1	603.4	52,000	52,000	57.7	610.2	60,500	60,500	61.5	618.1	63,900	63,900			220	
230	52.8	595.9	49,300	49,300	55.5	603.4	57,800	57,800	59.4	612.2	63,300	63,300			230	
240	50.4	587.8	46,700	46,700	53.2	596.0	55,100	55,100	57.2	605.9	62,700	62,700			240	
250	48.0	578.9	44,100	44,100	50.9	588.0	52,400	52,400	55.0	598.9	62,000	62,000			250	
260	45.4	569.2	41,700	41,700	48.4	579.2	49,800	49,800	52.7	591.4	61,300	61,300			260	
270	42.7	558.6	39,500	39,500	45.9	569.7	47,300	47,300	50.3	583.2	58,900	58,900			270	
280	39.9	546.8	37,500	37,500	43.2	559.2	44,900	44,900	47.8	574.3	56,400	56,400			280	
290	36.9	533.8	35,600	35,600	40.4	547.7	42,700	42,700	45.3	564.5	53,900	53,900			290	
300	33.6	519.2	33,900	33,900	37.4	535.0	40,600	40,600	42.6	553.9	49,700	51,500			300	
310	30.0	502.6	32,600	32,600	34.2	520.7	38,800	38,800	39.7	542.1	45,500	49,200			310	
320	26.0	483.2	31,600	31,600	30.7	504.5	37,200	37,200	36.7	529.0	41,500	47,100			320	
330	21.3	459.4	31,100	31,100	26.8	485.7	35,900	35,900	33.5	514.3	37,800	45,100			330	
340	15.1	427.5	31,000	31,000	22.2	462.9	35,100	35,100	29.9	497.6	34,200	43,300			340	
350					16.5	433.1	34,800	34,800	25.8	478.0	30,800	41,900			350	
360					6.5	380.0	34,800	34,800	21.0	454.0	27,600	40,800			360	
370										14.8	421.5	24,400	40,500		370	
380															380	
390															390	
400															400	
410															410	
420															420	
430															430	
440															440	
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460															460	

MLC650 VPC-MAX S-3

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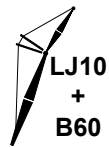
881,800 lb



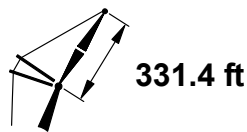
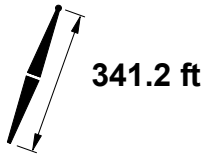
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220												220
230												230
240	63.4	616.3	53,100	60,900								240
250	61.3	610.8	47,800	60,900								250
260	59.2	604.9	42,900	60,900								260
270	57.0	598.5	38,400	60,900								270
280	54.8	591.5	34,300	60,900								280
290	52.5	583.9	30,400	60,900	58.8	594.7	55,900					290
300	50.1	575.7	26,700	60,900	56.6	588.2	55,900					300
310	47.6	566.7	23,300	60,900	54.4	581.1	55,900					310
320	45.0	556.8	20,100	60,900	52.1	573.4	55,900					320
330	42.3	546.1		60,800	49.7	565.0	55,900					330
340	39.5	534.2		59,700	47.2	555.9	55,900	53.8	567.5	51,000		340
350	36.4	521.0		57,600	44.6	545.9	55,900	51.5	559.6	51,000		350
360	33.1	506.1		55,500	41.9	535.0	55,900	49.0	551.1	51,000		360
370	29.5	489.1		53,600	39.0	522.9	55,900	46.5	541.7	49,100		370
380	25.4	469.2		51,900	35.9	509.4	52,400	43.9	531.5	46,000		380
390	20.5	444.6		50,400	32.6	494.2	49,000	41.1	520.3	43,000		390
400	14.0	410.8		47,400	28.9	476.9	45,600	38.2	507.9	40,200		400
410					24.7	456.3	42,400	35.1	494.0	37,400		410
420					19.6	430.7	39,300	31.7	478.4	34,800		420
430					12.6	394.1	36,200	27.8	460.3	32,200		430
440								23.5	438.7	29,700		440
450								18.1	411.1	27,200		450
460								10.1	368.7	24,700		460

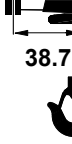
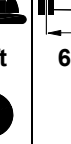
MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



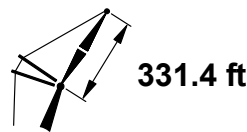
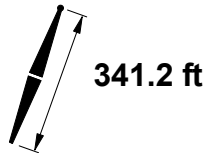
 85°					 83°					 80°					
	 ft	 °	 ft	 lb		 lb	 ft	 lb	 lb		 lb	 ft	 lb	 lb	 lb
130	74.6	668.8	58,000	58,000											130
135	73.7	667.3	57,900	57,900											135
140	72.8	665.7	57,700	57,700											140
145	71.9	664.0	57,400	57,400											145
150	71.0	662.3	57,200	57,200											150
155	70.1	660.4	56,900	56,900	72.3	663.3	57,500	57,500							155
160	69.2	658.5	56,500	56,500	71.4	661.6	57,400	57,400							160
165	68.2	656.5	56,100	56,100	70.4	659.8	57,300	57,300							165
170	67.3	654.4	55,700	55,700	69.5	657.9	57,100	57,100							170
175	66.3	652.1	55,200	55,200	68.6	655.9	56,800	56,800							175
180	65.4	649.8	54,800	54,800	67.6	653.8	56,700	56,700							180
185	64.4	647.4	54,300	54,300	66.7	651.6	56,400	56,400	70.0	656.1	56,000	56,000			185
190	63.5	644.9	53,700	53,700	65.7	649.3	56,000	56,000	69.1	654.2	56,000	56,000			190
195	62.5	642.2	52,500	52,500	64.8	647.0	55,700	55,700	68.1	652.1	56,000	56,000			195
200	61.5	639.5	51,300	51,300	63.8	644.5	55,300	55,300	67.2	650.0	56,000	56,000			200
205	60.5	636.6	50,100	50,100	62.9	641.9	55,000	55,000	66.3	647.8	56,000	56,000			205
210	59.5	633.7	48,900	48,900	61.9	639.2	54,600	54,600	65.3	645.4	55,800	55,800			210
215	58.5	630.6	47,700	47,700	60.9	636.3	54,200	54,200	64.3	643.0	55,700	55,700			215
220	57.5	627.3	46,500	46,500	59.9	633.4	53,800	53,800	63.4	640.5	55,600	55,600			220
230	55.4	620.5	44,000	44,000	57.8	627.2	51,600	51,600	61.4	635.1	55,200	55,200			230
240	53.2	613.1	41,700	41,700	55.8	620.4	49,300	49,300	59.4	629.2	54,700	54,700			240
250	51.0	605.1	39,500	39,500	53.6	613.2	47,000	47,000	57.4	622.9	54,200	54,200			250
260	48.7	596.4	37,200	37,200	51.4	605.3	44,700	44,700	55.3	616.0	53,600	53,600			260
270	46.3	587.0	35,100	35,100	49.1	596.7	42,500	42,500	53.1	608.6	52,700	52,700			270
280	43.9	576.8	33,100	33,100	46.8	587.5	40,300	40,300	50.9	600.5	50,700	50,700			280
290	41.3	565.6	31,300	31,300	44.3	577.4	38,100	38,100	48.6	591.8	48,500	48,500			290
300	38.5	553.3	29,600	29,600	41.8	566.4	36,200	36,200	46.2	582.4	45,900	46,400			300
310	35.6	539.7	28,100	28,100	39.0	554.3	34,300	34,300	43.7	572.1	41,700	44,300			310
320	32.4	524.4	26,800	26,800	36.2	541.0	32,700	32,700	41.1	560.9	37,800	42,300			320
330	29.0	507.1	25,800	25,800	33.1	526.0	31,200	31,200	38.4	548.5	34,100	40,400			330
340	25.1	486.8	25,000	25,000	29.7	509.1	29,900	29,900	35.5	534.8	30,600	38,600			340
350	20.5	462.0	24,700	24,700	25.8	489.5	28,900	28,900	32.3	519.5	27,200	37,000			350
360	14.4	428.7	24,700	24,700	21.4	465.7	28,300	28,300	28.8	502.0	24,100	35,600			360
370					15.7	434.6	28,200	28,200	24.9	481.6	21,100	34,400			370
380					5.7	377.5	28,200	28,200	20.2	456.5		33,600			380
390										14.1	422.5		33,400		390
400															400
410															410
420															420
430															430
440															440
450															450
460															460

MLC650 VPC-MAX S-3

ASME B30.5



881,800 lb



	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220												220
230												230
240												240
250	63.2	633.2	43,300	52,200								250
260	61.2	627.8	38,500	52,200								260
270	59.2	621.9	34,100	52,200								270
280	57.2	615.5	29,900	52,200								280
290	55.1	608.6	26,100	52,200								290
300	52.9	601.1	22,500	52,200	58.9	611.6	47,300					300
310	50.7	593.0		52,200	56.8	605.2	47,300					310
320	48.4	584.2		52,200	54.7	598.2	47,300					320
330	46.0	574.7		52,200	52.5	590.6	47,300					330
340	43.5	564.4		52,200	50.3	582.4	47,300					340
350	40.9	553.0		51,900	48.0	573.5	47,300	54.2	584.6	43,100		350
360	38.1	540.5		50,000	45.6	563.8	47,300	52.0	576.9	43,100		360
370	35.2	526.7		48,200	43.1	553.3	47,300	49.7	568.5	43,100		370
380	32.0	511.2		46,500	40.4	541.8	47,300	47.4	559.4	41,500		380
390	28.5	493.5		44,900	37.6	529.1	44,800	45.0	549.6	38,600		390
400	24.5	472.7		43,600	34.7	515.1	41,600	42.4	538.8	35,800		400
410	19.7	447.1		41,900	31.4	499.2	38,400	39.7	527.0	33,100		410
420	13.3	411.6		39,200	27.8	481.1	35,400	36.9	514.0	30,500		420
430					23.7	459.6	32,500	33.9	499.5	28,000		430
440					18.8	432.9	29,700	30.5	483.2	25,600		440
450					12.0	394.6	26,800	26.8	464.3	23,200		450
460								22.6	441.8	20,900		460