

Liftcrane Luffing Jib Capacities

Luffing Jib No. LJ11:680-681-682 on
 Boom No. B65:685-680
 with Mast No. M11:684
 661,300 lb VPC (Variable Position Counterweight)
 360 Degree Rating

**MLC650
 VPC-MAX
 SERIES 2**



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. 84038308**, Mast Rigging **No. 84050187**, Wire Rope Specifications chart **No. 9539-A**, Counterweight Arrangements chart **No. 9349-A**, Luffing Jib Raising Procedure chart **No. 9536-A**, and Wind Conditions chart **No. 9538-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. 9537-A**.



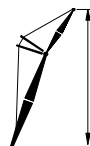
OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle and luffing jib angle are an indication of operating radius. In all cases, operating radius shall govern capacity.



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 661,300 lb VPC.

Select counterweight position from Luffing Jib Raising Procedure chart **No. 9536-A** that will allow raising and lowering of boom and luffing jib length. Counterweight position selection may be changed with luffing jib on ground or while luffing jib is within operating range of capacity chart.

Explanation of Symbols



Luffing Jib No. LJ11:680-681-682
+
Boom No. B65:685-680



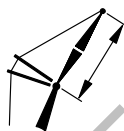
VPC (Variable Position Counterweight)



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



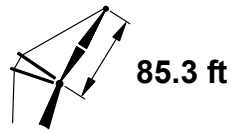
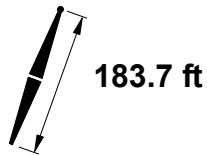
Lifting Capacities
(see page 1)

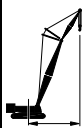
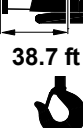
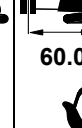
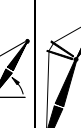
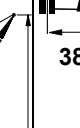
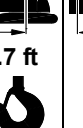
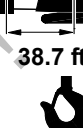
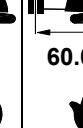
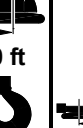
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



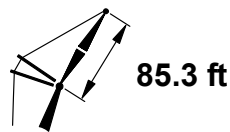
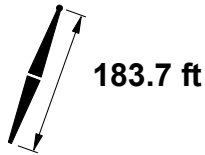
	 85°					 83°					 80°					
																
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb		ft	
55	71.9		273.2	635,100 c	771,600 c										55	
60	68.2		271.1	573,500 c	771,600 c	72.9	273.0	555,500 c	771,600 c						60	
65	64.5		268.6	522,100 c	754,800 c	69.3	270.9	505,700 c	771,600 c						65	
70	60.6		265.7	478,600 b	724,800 b	65.5	268.5	463,500 b	747,500 b						70	
75	56.5		262.2	441,100 b	696,400 b	61.7	265.7	427,200 b	692,600 b	68.9	269.1	406,300 b	676,000 b		75	
80	52.2		258.2	408,600	652,000	57.7	262.4	395,700 b	641,500 b	65.2	266.7	376,300 b	626,100 b		80	
85	47.6		253.6	380,100	606,900	53.5	258.6	368,100	597,200	61.3	263.8	350,000 b	582,800 b		85	
90	42.6		248.0	354,800	567,400	49.0	254.2	343,600	558,300	57.3	260.5	326,800 b	544,800 b		90	
95	37.1		241.4	332,100	532,400	44.1	248.9	321,800	523,900	53.0	256.6	306,000	511,200		95	
100	30.5		233.0	311,700	472,700	38.7	242.6	302,100	493,200	48.5	252.1	287,400	481,300		100	
105	22.0		221.4	292,900	390,000	32.4	234.8	284,200	465,700	43.6	246.7	270,500	454,400		105	
110						24.7	224.3	267,700	427,200	38.1	240.3	255,100	430,200		110	
115						12.0	206.1	252,000	333,500	31.8	232.3	240,900	408,200		115	
120										23.8	221.5	227,700	388,100		120	
125										9.6	201.0	214,700	334,100		125	
130															130	
135															135	
140															140	
145															145	
150															150	
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MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



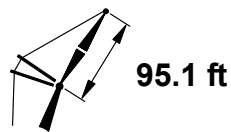
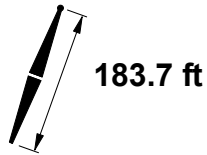
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60													60
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70													70
75													75
80													80
85													85
90													90
95													95
100	61.8	260.5	262,600 b	461,800 b									100
105	57.8	257.2	247,200 b	436,000 b									105
110	53.6	253.4	233,100	412,700									110
115	49.1	249.0	220,300	391,700									115
120	44.2	243.7	208,600	372,500	58.0	252.3	188,800	357,100					120
125	38.9	237.5	197,700	354,900	53.8	248.5	178,900	340,200					125
130	32.7	229.7	187,500	338,700	49.3	244.1	169,800	324,700					130
135	25.0	219.4	177,900	323,700	44.5	238.9	161,300	310,400					135
140	12.6	201.7	168,400	309,600	39.1	232.7	153,400	297,200	53.6	241.9	137,300	284,700	140
145					33.0	225.0	145,900	284,800	49.1	237.4	130,600	273,000	145
150					25.4	214.9	138,700	273,300	44.2	232.2	124,300	262,000	150
155					13.6	198.0	131,400	262,300	38.8	225.9	118,400	251,700	155
160									32.7	218.2	112,700	242,100	160
165									24.9	207.8	107,200	233,000	165
170									12.6	190.2	101,400	224,100	170

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



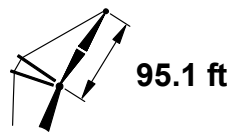
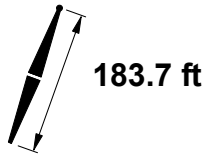
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55	73.8	283.7	632,600 c	771,500 c									55
60	70.6	281.8	571,100 c	758,900 c									60
65	67.3	279.6	519,800 b	731,100 b	71.5	281.6	503,000 b	771,500 b					65
70	64.0	277.1	476,300 b	703,400 b	68.3	279.5	460,800 b	740,100 b					70
75	60.5	274.1	439,000 b	676,800 b	64.9	277.0	424,700 b	689,000 b					75
80	56.8	270.8	406,600	648,800	61.5	274.2	393,300 b	638,200 b	67.9	277.7	373,400 b	622,600 b	80
85	53.0	266.9	378,100	603,900	57.9	270.9	365,800	594,100	64.6	275.2	347,300 b	579,500 b	85
90	49.0	262.4	353,000	564,600	54.1	267.2	341,400	555,400	61.1	272.3	324,100 b	541,700 b	90
95	44.7	257.3	330,500	529,800	50.2	263.0	319,700	521,100	57.5	269.0	303,500	508,200	95
100	40.0	251.3	310,400	498,800	45.9	258.0	300,200	490,600	53.7	265.2	284,900	478,500	100
105	34.7	244.0	292,100	471,000	41.3	252.3	282,600	463,300	49.8	260.9	268,200	451,800	105
110	28.5	235.0	275,400	426,100	36.2	245.4	266,500	438,600	45.5	255.9	253,000	427,700	110
115	20.4	222.5	259,800	354,800	30.3	237.0	251,800	416,200	40.9	250.1	239,100	405,900	115
120					22.9	225.7	238,100	387,600	35.7	243.1	226,300	386,000	120
125					10.5	205.7	224,700	302,600	29.7	234.4	214,400	367,700	125
130									22.1	222.8	203,200	350,900	130
135									7.9	199.9	192,000	302,600	135
140													140
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MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



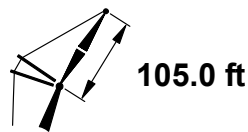
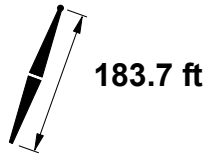
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ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
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MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



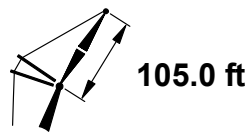
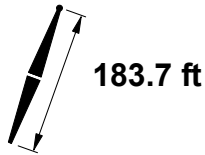
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	72.5	292.3	569,800 b	732,100 b									60
65	69.6	290.4	518,500 b	707,500 b									65
70	66.6	288.1	475,100 b	682,500 b	70.4	290.2	459,400 b	727,700 b					70
75	63.5	285.5	437,900 b	658,000 b	67.4	288.0	423,300 b	686,400 b					75
80	60.4	282.6	405,500	634,200	64.4	285.5	392,000 b	635,800 b					80
85	57.1	279.3	377,200	601,800	61.3	282.7	364,600	591,900	67.2	286.2	345,700 b	577,100 b	85
90	53.7	275.5	352,200	562,700	58.0	279.4	340,300	553,300	64.1	283.7	322,700	539,500	90
95	50.1	271.2	329,800	528,100	54.6	275.8	318,700	519,200	61.0	280.8	302,100	506,200	95
100	46.3	266.4	309,800	497,200	51.1	271.7	299,300	488,900	57.7	277.5	283,700	476,600	100
105	42.2	260.8	291,700	469,600	47.4	267.0	281,900	461,700	54.3	273.8	267,000	450,000	105
110	37.7	254.3	275,200	444,600	43.4	261.6	266,000	437,100	50.8	269.7	252,000	426,100	110
115	32.7	246.5	260,200	422,000	39.0	255.4	251,400	414,900	47.0	264.9	238,200	404,400	115
120	26.7	236.8	246,200	387,200	34.2	248.0	238,100	394,600	43.0	259.5	225,600	384,600	120
125	18.9	223.4	233,200	324,900	28.5	239.0	225,700	376,000	38.6	253.1	213,900	366,500	125
130					21.4	226.9	214,100	353,900	33.7	245.6	203,100	349,800	130
135					9.1	205.0	202,600	276,400	27.9	236.4	193,000	334,500	135
140									20.6	223.9	183,400	320,200	140
145									6.2	198.2	173,500	275,200	145
150													150
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165													165
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MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



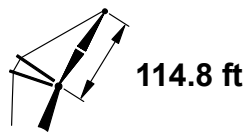
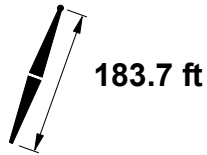
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ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105	64.5	280.2	242,500	431,000									105
110	61.4	277.4	228,700	408,000									110
115	58.1	274.2	216,100	387,100									115
120	54.8	270.6	204,500	368,200									120
125	51.2	266.5	193,900	350,800									125
130	47.5	261.8	184,100	334,900	58.3	269.3	165,100	320,300					130
135	43.5	256.4	175,000	320,100	54.9	265.7	156,900	306,200					135
140	39.2	250.2	166,500	306,500	51.4	261.6	149,200	293,100					140
145	34.3	242.9	158,600	293,900	47.7	256.9	142,000	281,000					145
150	28.7	233.9	151,000	282,100	43.7	251.6	135,300	269,800	54.8	259.1	119,600	257,700	150
155	21.7	222.0	143,800	271,000	39.4	245.5	129,000	259,200	51.2	254.9	113,900	247,700	155
160	9.8	200.9	136,400	260,500	34.6	238.2	123,000	249,400	47.5	250.3	108,600	238,300	160
165					29.0	229.3	117,200	240,100	43.5	244.9	103,500	229,400	165
170					22.1	217.6	111,700	231,300	39.2	238.7	98,700	221,100	170
175					10.8	197.6	106,000	222,900	34.3	231.4	94,100	213,200	175
180									28.7	222.4	89,600	205,800	180
185									21.7	210.5	85,300	198,700	185
190									9.8	189.3	80,600	191,700	190

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



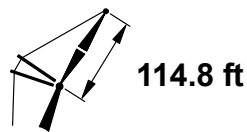
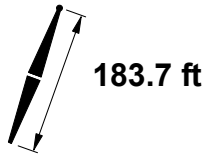
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	74.1	302.7	567,200 b	690,600 b									60
65	71.4	301.0	516,000 b	678,300 b									65
70	68.8	298.9	472,600 b	660,300 b	72.2	300.7	456,700 b	685,800 b					70
75	66.0	296.6	435,500 b	638,100 b	69.5	298.7	420,600 b	675,500 b					75
80	63.2	294.0	403,200	616,200	66.8	296.5	389,400	632,400					80
85	60.3	291.1	374,900	594,900	64.0	294.0	362,000	588,700	69.2	297.0	342,800	573,700	85
90	57.3	287.8	349,900	559,800	61.1	291.1	337,800	550,300	66.5	294.7	319,800	536,300	90
95	54.2	284.1	327,700	525,300	58.2	287.9	316,300	516,400	63.7	292.1	299,300	503,200	95
100	51.0	279.9	307,700	494,600	55.1	284.4	297,000	486,200	60.8	289.2	281,000	473,700	100
105	47.6	275.3	289,700	467,100	51.9	280.4	279,600	459,100	57.9	286.0	264,400	447,200	105
110	44.0	270.0	273,400	442,200	48.5	275.8	263,800	434,600	54.8	282.4	249,400	423,400	110
115	40.1	264.0	258,500	419,700	45.0	270.8	249,400	412,500	51.6	278.3	235,700	401,800	115
120	35.8	257.1	244,800	399,200	41.2	265.0	236,200	392,300	48.2	273.8	223,200	382,100	120
125	31.0	248.8	232,100	380,400	37.0	258.3	224,000	373,800	44.6	268.7	211,600	364,100	125
130	25.3	238.5	220,300	346,000	32.4	250.5	212,700	356,900	40.8	262.8	201,000	347,500	130
135	17.7	224.2	209,100	297,200	27.0	240.8	202,100	341,200	36.6	256.0	191,100	332,300	135
140					20.1	228.0	192,100	323,000	31.9	248.0	181,800	318,200	140
145					7.8	204.0	182,100	251,300	26.4	238.2	173,100	305,000	145
150									19.3	224.9	164,700	292,700	150
155									4.2	195.1	155,900	247,100	155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



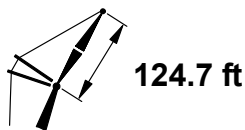
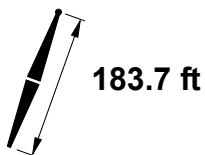
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110	64.1	288.7	225,600	405,000									110
115	61.2	285.9	213,000	384,300									115
120	58.2	282.7	201,600	365,400									120
125	55.2	279.1	191,100	348,100									125
130	52.0	275.1	181,400	332,300									130
135	48.6	270.6	172,300	317,600	58.4	277.8	153,700	303,400					135
140	45.1	265.6	164,000	304,100	55.3	274.2	146,100	290,400					140
145	41.3	259.8	156,100	291,600	52.2	270.2	139,100	278,400					145
150	37.1	253.2	148,800	279,900	48.8	265.8	132,400	267,200					150
155	32.5	245.4	141,900	269,000	45.3	260.8	126,200	256,800					155
160	27.1	235.8	135,300	258,700	41.5	255.0	120,300	247,000	52.0	263.6	105,400	235,600	160
165	20.3	223.2	128,900	249,100	37.4	248.5	114,800	237,800	48.6	259.1	100,400	226,800	165
170	8.6	200.1	122,300	239,800	32.8	240.7	109,500	229,200	45.1	254.1	95,700	218,600	170
175					27.4	231.3	104,400	221,100	41.3	248.3	91,300	210,800	175
180					20.7	218.8	99,500	213,300	37.1	241.7	87,000	203,500	180
185					9.6	197.1	94,300	205,800	32.5	233.9	82,900	196,600	185
190									27.1	224.3	79,000	189,900	190
195									20.3	211.6	75,000	183,600	195
200									8.5	188.5	70,800	177,300	200

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	73.0	311.4	579,000 b	616,500 b									65
70	70.5	309.6	530,800 b	604,400 b									70
75	68.0	307.5	489,500	585,500	71.2	309.3	474,500 b	580,000 b					75
80	65.5	305.1	453,700	567,600	68.7	307.3	439,700	566,500					80
85	62.9	302.5	422,300	567,600	66.2	305.0	409,300	566,500					85
90	60.2	299.5	394,600	558,900	63.6	302.5	382,400	549,300	68.5	305.5	364,100	535,300	90
95	57.5	296.3	370,000	524,500	61.0	299.6	358,400	515,600	66.0	303.2	341,200	502,300	95
100	54.7	292.6	347,900	493,900	58.3	296.4	337,000	485,500	63.4	300.6	320,700	472,900	100
105	51.7	288.6	328,000	466,500	55.4	292.9	317,600	458,500	60.7	297.7	302,200	446,600	105
110	48.6	284.1	309,900	441,800	52.5	289.0	300,100	434,200	58.0	294.5	285,500	422,800	110
115	45.4	279.1	293,400	419,400	49.5	284.6	284,100	412,100	55.2	291.0	270,200	401,300	115
120	41.9	273.5	278,400	398,900	46.3	279.8	269,500	392,000	52.2	287.0	256,300	381,700	120
125	38.2	267.1	264,500	380,200	42.9	274.3	256,100	373,600	49.2	282.6	243,400	363,800	125
130	34.1	259.7	251,700	363,100	39.2	268.2	243,700	356,700	46.0	277.7	231,600	347,300	130
135	29.4	250.9	239,700	343,200	35.3	261.1	232,100	341,200	42.6	272.2	220,600	332,100	135
140	23.9	240.1	228,500	311,700	30.8	252.8	221,400	326,700	38.9	265.9	210,400	318,100	140
145	16.6	224.9	217,900	272,600	25.6	242.6	211,300	313,400	34.9	258.8	200,900	305,100	145
150					18.9	229.0	201,700	292,500	30.3	250.3	192,000	292,900	150
155					6.6	202.6	192,000	229,300	25.0	239.9	183,500	281,600	155
160									18.2	225.8	175,400	270,900	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-2

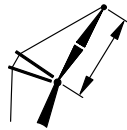
ASME B30.5



661,300 lb



183.7 ft



124.7 ft

	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	247,200	383,700									115
120	61.1	294.4	234,300	364,900									120
125	58.3	291.2	222,500	347,700									125
130	55.5	287.7	211,600	331,900									130
135	52.6	283.8	201,500	317,400									135
140	49.6	279.4	192,100	303,900	58.5	286.3	174,000	290,100					140
145	46.4	274.6	183,400	291,400	55.7	282.8	165,900	278,100					145
150	43.0	269.2	175,200	279,800	52.8	278.9	158,400	267,000					150
155	39.4	263.0	167,500	269,000	49.7	274.6	151,400	256,600					155
160	35.4	256.0	160,300	258,800	46.6	269.8	144,800	246,900					160
165	30.9	247.7	153,400	249,300	43.2	264.4	138,600	237,800	52.6	272.3	123,900	226,700	165
170	25.8	237.6	146,900	240,300	39.5	258.3	132,700	229,200	49.6	267.9	118,600	218,500	170
175	19.2	224.2	140,600	231,800	35.6	251.2	127,200	221,200	46.4	263.1	113,500	210,800	175
180	7.4	199.0	134,100	223,600	31.2	243.0	121,800	213,600	43.0	257.7	108,700	203,500	180
185					26.0	233.0	116,700	206,300	39.4	251.5	104,200	196,600	185
190					19.6	219.9	111,700	199,400	35.4	244.5	99,800	190,100	190
195					8.5	196.3	106,500	192,700	30.9	236.2	95,600	183,900	195
200									25.8	226.1	91,500	178,000	200
205									19.2	212.6	87,500	172,300	205
210									7.3	187.4	83,200	166,600	210

MLC650 VPC-MAX S-2

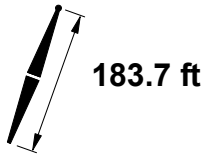
ASME B30.5



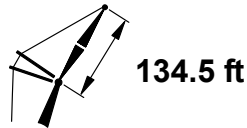
661,300 lb



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	576,400 b	589,700 b									65
70	72.0	320.1	528,300	585,700									70
75	69.7	318.2	487,100	573,200	72.6	319.8	471,800	567,700					75
80	67.4	316.0	451,300	555,900	70.4	317.9	437,100	550,600					80
85	65.1	313.6	420,000	551,900	68.1	315.9	406,700	550,600					85
90	62.6	311.0	392,300	545,300	65.7	313.5	379,800	546,400					90
95	60.2	308.0	367,700	521,800	63.3	310.9	355,900	512,700	67.8	314.1	338,400	499,300	95
100	57.6	304.8	345,600	491,300	60.9	308.1	334,500	482,800	65.5	311.7	317,900	470,000	100
105	55.0	301.2	325,800	464,000	58.4	304.9	315,200	455,900	63.1	309.1	299,500	443,800	105
110	52.3	297.3	307,800	439,400	55.8	301.4	297,700	431,600	60.6	306.2	282,800	420,200	110
115	49.5	292.9	291,400	417,000	53.1	297.6	281,800	409,700	58.1	303.0	267,600	398,700	115
120	46.5	288.1	276,300	396,700	50.3	293.4	267,300	389,600	55.5	299.5	253,700	379,200	120
125	43.4	282.8	262,500	377,500	47.4	288.7	253,900	371,300	52.8	295.6	240,900	361,300	125
130	40.1	276.8	249,800	357,900	44.3	283.5	241,600	354,500	50.0	291.4	229,200	344,900	130
135	36.5	270.0	238,000	340,300	41.0	277.7	230,100	339,000	47.1	286.6	218,300	329,800	135
140	32.6	262.2	227,000	325,000	37.5	271.2	219,500	324,700	44.0	281.4	208,200	315,800	140
145	28.1	253.0	216,700	307,600	33.7	263.7	209,600	311,400	40.7	275.5	198,700	302,900	145
150	22.8	241.5	207,000	280,300	29.4	254.9	200,300	299,000	37.2	268.9	189,900	290,800	150
155	15.6	225.4	197,700	247,000	24.4	244.2	191,500	287,400	33.3	261.3	181,600	279,500	155
160					17.9	229.9	183,000	263,700	29.0	252.4	173,800	269,000	160
165					5.2	200.5	174,400	204,500	23.8	241.4	166,300	259,100	165
170									17.1	226.6	159,100	249,700	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-2

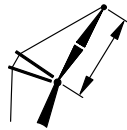
ASME B30.5



661,300 lb



183.7 ft



134.5 ft

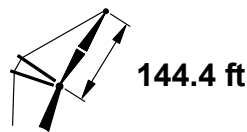
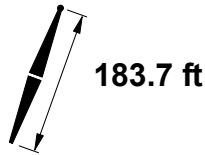
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	63.4	305.7	231,300	362,100									120
125	60.9	302.8	219,500	345,000									125
130	58.4	299.7	208,700	329,300									130
135	55.8	296.2	198,600	314,800									135
140	53.2	292.4	189,300	301,400									140
145	50.4	288.2	180,700	289,000	58.6	294.7	162,800	275,500					145
150	47.5	283.5	172,600	277,400	56.0	291.3	155,400	264,400					150
155	44.4	278.3	165,000	266,600	53.3	287.5	148,500	254,100					155
160	41.1	272.6	157,800	256,600	50.5	283.3	141,900	244,400					160
165	37.7	266.1	151,100	247,100	47.6	278.7	135,800	235,400					165
170	33.8	258.6	144,700	238,200	44.6	273.5	130,000	226,900	53.2	280.9	115,500	215,900	170
175	29.5	249.9	138,700	229,800	41.3	267.8	124,500	218,900	50.4	276.7	110,500	208,200	175
180	24.5	239.2	132,900	221,900	37.8	261.3	119,300	211,300	47.5	272.0	105,800	201,000	180
185	18.1	225.1	127,200	214,300	34.0	253.9	114,300	204,200	44.4	266.8	101,300	194,200	185
190	6.2	197.5	121,300	207,000	29.8	245.2	109,600	197,400	41.1	261.0	97,000	187,700	190
195					24.8	234.7	105,000	190,900	37.6	254.5	92,900	181,600	195
200					18.5	220.8	100,500	184,800	33.8	247.1	89,000	175,800	200
205					7.4	195.3	95,700	178,700	29.5	238.3	85,200	170,200	205
210									24.5	227.7	81,500	164,900	210
215									18.1	213.5	77,900	159,700	215
220									6.2	185.9	73,800	154,600	220

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.3	330.5	526,600	544,800									70
75	71.2	328.7	485,300	540,600									75
80	69.1	326.8	449,600	532,000	71.8	328.5	435,200	536,500					80
85	66.9	324.6	418,300	523,200	69.7	326.5	404,800	527,300					85
90	64.7	322.1	390,600	514,300	67.5	324.4	378,000	527,300					90
95	62.4	319.4	366,000	505,400	65.3	322.0	354,100	510,400	69.4	324.8	336,400	496,900	95
100	60.1	316.5	344,000	486,500	63.1	319.4	332,800	480,500	67.3	322.6	316,000	467,700	100
105	57.8	313.3	324,200	461,900	60.8	316.5	313,500	453,800	65.1	320.2	297,600	441,600	105
110	55.3	309.7	306,200	437,400	58.4	313.4	296,100	429,600	62.8	317.6	280,900	418,100	110
115	52.8	305.9	289,800	414,500	56.0	310.0	280,200	407,700	60.5	314.7	265,800	396,700	115
120	50.2	301.6	274,900	392,300	53.5	306.2	265,700	387,800	58.2	311.5	251,900	377,200	120
125	47.5	297.0	261,100	371,400	51.0	302.1	252,300	369,500	55.8	308.0	239,200	359,500	125
130	44.7	291.9	248,400	352,000	48.3	297.6	240,000	352,800	53.3	304.2	227,500	343,100	130
135	41.7	286.2	236,700	334,000	45.5	292.6	228,700	337,300	50.7	300.1	216,600	328,100	135
140	38.5	279.9	225,800	317,700	42.5	287.1	218,100	323,000	48.0	295.5	206,500	314,100	140
145	35.0	272.8	215,600	303,200	39.4	280.9	208,300	309,800	45.2	290.5	197,200	301,200	145
150	31.2	264.6	206,100	290,500	36.0	274.0	199,100	297,400	42.2	284.9	188,400	289,200	150
155	26.9	254.9	197,200	277,800	32.3	266.2	190,400	285,900	39.1	278.7	180,200	278,000	155
160	21.7	242.8	188,600	253,800	28.2	257.0	182,300	275,200	35.7	271.7	172,500	267,500	160
165	14.7	225.9	180,400	223,800	23.3	245.7	174,500	265,000	31.9	263.8	165,200	257,700	165
170					17.0	230.6	167,100	239,300	27.7	254.4	158,300	248,400	170
175					3.4	197.0	159,200	181,900	22.7	242.9	151,700	239,700	175
180									16.2	227.2	145,300	231,400	180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
225													225
230													230

MLC650 VPC-MAX S-2

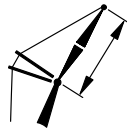
ASME B30.5



661,300 lb



183.7 ft



144.4 ft

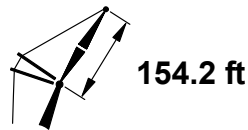
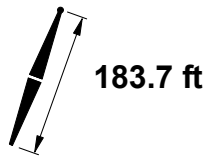
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	63.1	314.2	217,500	343,000									125
130	60.8	311.3	206,700	327,300									130
135	58.5	308.2	196,700	312,900									135
140	56.1	304.7	187,400	299,600									140
145	53.6	301.0	178,800	287,200									145
150	51.0	296.9	170,800	275,700	58.6	303.2	153,400	262,500					150
155	48.4	292.4	163,200	264,900	56.2	299.8	146,500	252,200					155
160	45.6	287.4	156,100	254,900	53.7	296.1	140,000	242,600					160
165	42.6	281.9	149,500	245,500	51.2	292.0	133,900	233,600					165
170	39.5	275.8	143,200	236,700	48.5	287.5	128,100	225,200					170
175	36.1	268.9	137,200	228,300	45.7	282.5	122,700	217,200	53.6	289.5	108,400	206,500	175
180	32.4	261.1	131,600	220,500	42.8	277.1	117,600	209,700	51.0	285.3	103,800	199,300	180
185	28.3	251.9	126,200	213,000	39.7	271.0	112,700	202,600	48.4	280.8	99,300	192,500	185
190	23.4	240.7	121,000	206,000	36.3	264.2	108,000	195,900	45.6	275.9	95,100	186,100	190
195	17.2	225.9	115,900	199,200	32.6	256.4	103,600	189,500	42.6	270.4	91,100	180,000	195
200	4.9	195.3	110,400	192,600	28.5	247.3	99,300	183,400	39.5	264.3	87,200	174,200	200
205					23.7	236.3	95,200	177,700	36.1	257.4	83,600	168,700	205
210					17.6	221.6	91,100	172,100	32.4	249.6	80,000	163,500	210
215					6.4	193.9	86,700	166,600	28.3	240.4	76,600	158,400	215
220									23.4	229.2	73,200	153,600	220
225									17.2	214.3	69,900	149,000	225
230									4.8	183.7	66,100	144,200	230

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.4	340.8	499,000	499,000									70
75	72.4	339.2	482,900	499,000									75
80	70.5	337.4	447,200	499,000	73.0	338.9	432,600	493,600					80
85	68.5	335.3	415,900	494,300	71.0	337.1	402,200	493,600					85
90	66.4	333.1	388,300	486,500	69.0	335.1	375,400	493,600					90
95	64.4	330.6	363,700	478,600	67.0	332.9	351,600	493,600					95
100	62.2	327.9	341,700	468,700	64.9	330.5	330,300	477,800	68.8	333.3	313,200	464,800	100
105	60.1	325.0	321,900	447,200	62.8	327.9	311,000	451,200	66.8	331.1	294,800	438,800	105
110	57.9	321.8	304,000	425,700	60.7	325.0	293,600	427,100	64.7	328.7	278,200	415,400	110
115	55.6	318.3	287,600	404,600	58.5	321.9	277,800	405,300	62.6	326.0	263,100	394,100	115
120	53.3	314.5	272,700	384,000	56.2	318.5	263,300	385,400	60.5	323.1	249,300	374,700	120
125	50.9	310.3	259,000	364,400	53.9	314.8	250,000	367,200	58.3	320.0	236,600	357,000	125
130	48.4	305.8	246,300	345,800	51.6	310.7	237,700	350,500	56.0	316.5	224,900	340,700	130
135	45.8	300.9	234,700	328,200	49.1	306.3	226,400	335,100	53.7	312.8	214,100	325,700	135
140	43.0	295.5	223,800	312,000	46.5	301.5	215,900	320,900	51.3	308.7	204,100	311,800	140
145	40.1	289.5	213,700	297,100	43.8	296.3	206,100	307,700	48.8	304.3	194,800	299,000	145
150	37.0	282.9	204,300	283,500	41.0	290.5	197,000	295,400	46.2	299.5	186,000	287,000	150
155	33.7	275.4	195,400	271,400	37.9	284.0	188,400	283,900	43.5	294.1	177,900	275,800	155
160	30.0	266.8	187,100	260,900	34.7	276.8	180,400	273,200	40.7	288.3	170,200	265,400	160
165	25.8	256.7	179,200	251,300	31.1	268.5	172,800	263,200	37.6	281.8	163,000	255,600	165
170	20.8	244.1	171,700	230,100	27.0	258.9	165,600	253,700	34.3	274.4	156,200	246,400	170
175	13.9	226.3	164,400	202,800	22.3	247.1	158,700	240,200	30.7	266.1	149,800	237,700	175
180					16.1	231.3	152,000	217,300	26.6	256.3	143,600	229,600	180
185									21.8	244.2	137,700	221,800	185
190									15.4	227.8	132,000	214,400	190
195													195
200													200
205													205
210													210
215													215
220													220
225													225
230													230
235													235
240													240

MLC650 VPC-MAX S-2

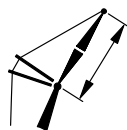
ASME B30.5



661,300 lb



183.7 ft



154.2 ft

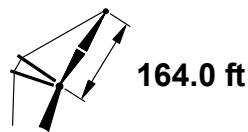
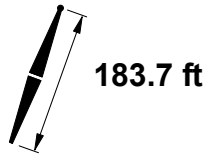
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	65.0	325.3	214,500	340,300									125
130	62.9	322.6	203,800	324,700									130
135	60.8	319.8	193,800	310,300									135
140	58.6	316.6	184,600	297,000									140
145	56.3	313.2	176,000	284,700									145
150	54.0	309.5	168,000	273,300									150
155	51.6	305.5	160,500	262,600	58.7	311.7	143,400	249,700					155
160	49.2	301.1	153,500	252,600	56.4	308.3	137,000	240,100					160
165	46.6	296.3	146,900	243,200	54.1	304.6	130,900	231,200					165
170	43.9	291.1	140,600	234,400	51.7	300.6	125,200	222,700					170
175	41.0	285.3	134,800	226,100	49.3	296.3	119,900	214,800					175
180	38.0	278.9	129,200	218,300	46.7	291.5	114,800	207,400	54.0	298.0	100,600	196,700	180
185	34.8	271.7	123,900	211,000	44.0	286.3	109,900	200,300	51.6	294.0	96,300	190,000	185
190	31.2	263.5	118,800	204,000	41.2	280.5	105,400	193,600	49.2	289.6	92,100	183,600	190
195	27.2	253.9	114,000	197,300	38.2	274.1	101,000	187,300	46.6	284.8	88,100	177,600	195
200	22.4	242.2	109,300	191,000	34.9	266.9	96,800	181,300	43.9	279.6	84,400	171,900	200
205	16.4	226.6	104,700	184,900	31.4	258.8	92,800	175,600	41.0	273.8	80,700	166,400	205
210	3.1	191.4	99,600	178,900	27.4	249.3	88,900	170,100	38.0	267.4	77,300	161,200	210
215					22.7	237.7	85,200	164,900	34.8	260.1	74,000	156,200	215
220					16.7	222.4	81,500	159,800	31.2	251.9	70,700	151,500	220
225					5.2	191.9	77,400	154,800	27.2	242.3	67,600	146,900	225
230									22.4	230.6	64,600	142,600	230
235									16.3	215.0	61,500	138,300	235
240									3.1	179.7	57,900	133,900	240

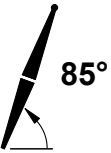
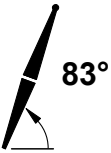
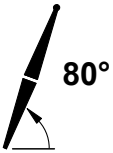
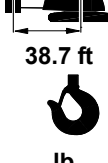
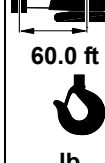
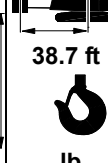
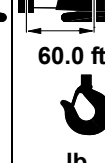
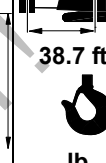
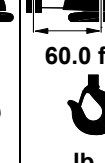
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



 85°					 83°					 80°					
 ft	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 ft		
75	73.5	349.6	457,300	457,300										75	
80	71.7	347.9	446,600	456,900										80	
85	69.8	346.0	415,300	456,200	72.2	347.6	401,500	452,600						85	
90	67.9	343.9	387,700	454,900	70.3	345.7	374,700	452,600						90	
95	66.0	341.6	363,200	451,700	68.5	343.7	350,900	452,600						95	
100	64.1	339.1	341,200	444,600	66.5	341.5	329,600	452,600						100	
105	62.1	336.4	321,400	431,600	64.6	339.0	310,400	449,900	68.3	341.9	294,100	437,500		105	
110	60.0	333.4	303,500	412,900	62.6	336.4	293,000	425,900	66.4	339.6	277,500	414,100		110	
115	58.0	330.2	287,200	394,000	60.6	333.5	277,200	404,200	64.4	337.2	262,400	392,900		115	
120	55.9	326.8	272,300	375,300	58.6	330.4	262,800	384,400	62.4	334.5	248,600	373,600		120	
125	53.7	323.1	258,600	357,100	56.5	327.0	249,500	366,200	60.4	331.6	235,900	356,000		125	
130	51.4	319.0	246,000	339,600	54.3	323.3	237,300	349,600	58.4	328.5	224,300	339,700		130	
135	49.1	314.6	234,300	322,800	52.1	319.4	226,000	334,200	56.2	325.1	213,500	324,800		135	
140	46.7	309.8	223,500	307,000	49.8	315.1	215,500	320,100	54.1	321.4	203,500	310,900		140	
145	44.2	304.7	213,400	292,100	47.4	310.4	205,700	306,900	51.8	317.4	194,200	298,100		145	
150	41.5	299.0	204,000	278,400	44.9	305.4	196,600	294,700	49.5	313.1	185,500	286,200		150	
155	38.7	292.7	195,300	265,700	42.3	299.8	188,100	283,200	47.1	308.4	177,400	275,100		155	
160	35.7	285.7	187,000	254,200	39.5	293.7	180,100	272,600	44.6	303.2	169,800	264,700		160	
165	32.5	277.9	179,200	244,000	36.6	287.0	172,600	262,600	42.0	297.7	162,700	254,900		165	
170	28.9	268.9	171,900	235,100	33.4	279.4	165,500	253,100	39.2	291.5	155,900	245,800		170	
175	24.8	258.4	164,900	227,800	29.9	270.8	158,800	244,300	36.3	284.7	149,500	237,100		175	
180	19.9	245.2	158,200	211,000	26.0	260.7	152,400	235,900	33.1	277.0	143,500	229,000		180	
185	13.2	226.5	151,600	185,800	21.4	248.4	146,200	220,300	29.6	268.3	137,700	221,300		185	
190					15.4	231.9	140,300	199,500	25.6	258.0	132,200	214,000		190	
195									20.9	245.5	126,900	207,100		195	
200									14.6	228.3	121,700	200,500		200	
205														205	
210														210	
215														215	
220														220	
225														225	
230														230	
235														235	
240														240	

MLC650 VPC-MAX S-2

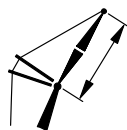
ASME B30.5



661,300 lb



183.7 ft



164.0 ft

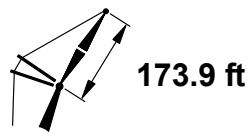
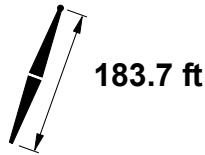
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	64.7	333.8	202,900	323,600									130
135	62.7	331.1	193,000	309,300									135
140	60.7	328.2	183,800	296,000									140
145	58.6	325.1	175,200	283,800									145
150	56.5	321.8	167,200	272,300									150
155	54.4	318.1	159,800	261,700									155
160	52.1	314.2	152,800	251,700	58.7	320.2	136,100	239,200					160
165	49.8	309.9	146,200	242,400	56.6	316.8	130,100	230,200					165
170	47.4	305.2	140,000	233,700	54.5	313.2	124,400	221,900					170
175	45.0	300.2	134,200	225,400	52.2	309.3	119,100	214,000					175
180	42.4	294.6	128,700	217,600	49.9	305.0	114,000	206,600					180
185	39.6	288.6	123,400	210,300	47.6	300.4	109,200	199,500	54.4	306.6	95,400	189,100	185
190	36.7	281.8	118,400	203,400	45.1	295.3	104,700	192,900	52.1	302.6	91,200	182,800	190
195	33.5	274.3	113,700	196,800	42.5	289.8	100,400	186,600	49.8	298.4	87,300	176,800	195
200	30.1	265.7	109,100	190,500	39.8	283.8	96,200	180,600	47.4	293.7	83,600	171,100	200
205	26.1	255.7	104,800	184,500	36.8	277.1	92,300	174,900	45.0	288.7	80,000	165,600	205
210	21.5	243.5	100,500	178,800	33.7	269.6	88,500	169,500	42.4	283.1	76,600	160,500	210
215	15.6	227.2	96,300	173,300	30.2	261.1	84,900	164,400	39.6	277.0	73,300	155,600	215
220					26.4	251.1	81,400	159,400	36.7	270.3	70,200	150,800	220
225					21.8	239.1	78,000	154,700	33.5	262.8	67,100	146,300	225
230					15.9	223.0	74,500	150,100	30.1	254.2	64,200	142,000	230
235					3.9	189.1	70,700	145,400	26.1	244.2	61,400	137,900	235
240									21.5	232.0	58,600	133,900	240

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	74.5	359.9	420,200	420,200									75
80	72.8	358.3	420,200	420,200									80
85	71.0	356.5	412,900	420,000									85
90	69.3	354.6	385,300	419,300	71.5	356.2	372,100	416,700					90
95	67.5	352.4	360,800	418,100	69.7	354.3	348,400	416,700					95
100	65.6	350.1	338,900	416,300	68.0	352.3	327,100	416,700					100
105	63.8	347.6	319,100	413,200	66.2	350.0	307,900	416,700	69.6	352.5	291,300	402,500	105
110	61.9	344.9	301,200	398,100	64.3	347.5	290,600	416,700	67.8	350.4	274,700	402,500	110
115	60.0	341.9	284,900	381,600	62.5	344.9	274,800	401,700	66.0	348.2	259,700	390,300	115
120	58.1	338.7	270,000	365,000	60.5	342.0	260,300	382,000	64.1	345.7	245,900	371,100	120
125	56.1	335.3	256,300	348,600	58.6	338.9	247,100	363,900	62.3	343.0	233,300	353,500	125
130	54.0	331.6	243,800	332,500	56.6	335.5	234,900	347,300	60.4	340.1	221,700	337,300	130
135	51.9	327.7	232,100	316,900	54.6	331.9	223,600	332,000	58.4	337.0	210,900	322,400	135
140	49.7	323.4	221,300	301,900	52.5	328.0	213,200	317,900	56.4	333.6	201,000	308,600	140
145	47.5	318.7	211,300	287,700	50.4	323.8	203,400	304,800	54.4	329.9	191,700	295,900	145
150	45.2	313.7	202,000	274,300	48.1	319.3	194,400	292,600	52.3	326.0	183,100	284,000	150
155	42.7	308.2	193,200	261,600	45.8	314.4	185,900	281,200	50.1	321.8	175,000	272,900	155
160	40.2	302.3	185,000	250,000	43.4	309.0	177,900	270,500	47.9	317.2	167,400	262,500	160
165	37.4	295.7	177,300	239,300	40.9	303.2	170,500	260,600	45.6	312.3	160,300	252,800	165
170	34.5	288.5	170,000	229,600	38.2	296.8	163,400	251,200	43.2	306.9	153,600	243,700	170
175	31.4	280.3	163,100	221,000	35.4	289.8	156,800	242,400	40.6	301.0	147,300	235,100	175
180	27.9	271.0	156,500	213,500	32.3	281.9	150,400	234,100	38.0	294.6	141,300	227,000	180
185	23.9	260.0	150,300	207,500	28.9	272.9	144,400	226,200	35.1	287.5	135,600	219,400	185
190	19.1	246.3	144,300	192,300	25.1	262.4	138,700	217,500	32.0	279.5	130,200	212,100	190
195	12.5	226.7	138,400	168,900	20.6	249.7	133,200	200,800	28.6	270.4	125,000	205,300	195
200					14.6	232.4	127,800	182,000	24.7	259.7	120,100	198,700	200
205									20.1	246.7	115,300	192,500	205
210									13.9	228.7	110,600	185,400	210
215													215
220													220
225													225
230													230
235													235
240													240
250													250

MLC650 VPC-MAX S-2

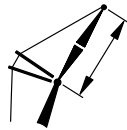
ASME B30.5



661,300 lb



183.7 ft



173.9 ft

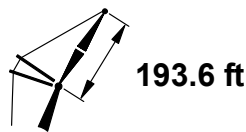
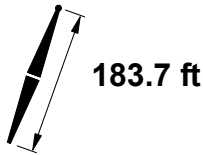
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	64.4	342.3	190,000	306,700									135
140	62.5	339.6	180,900	293,500									140
145	60.6	336.7	172,400	281,300									145
150	58.7	333.6	164,400	269,900									150
155	56.7	330.3	157,000	259,300									155
160	54.7	326.7	150,100	249,400									160
165	52.6	322.8	143,500	240,100	58.8	328.7	127,100	227,700					165
170	50.4	318.6	137,400	231,400	56.8	325.3	121,400	219,400					170
175	48.2	314.1	131,600	223,200	54.8	321.7	116,100	211,600					175
180	45.9	309.2	126,100	215,400	52.7	317.9	111,100	204,200					180
185	43.5	303.8	120,900	208,100	50.5	313.7	106,400	197,200					185
190	41.0	298.0	116,000	201,200	48.3	309.2	101,900	190,600	54.7	315.1	88,100	180,300	190
195	38.3	291.7	111,300	194,700	46.0	304.3	97,600	184,300	52.6	311.3	84,300	174,300	195
200	35.5	284.7	106,800	188,400	43.6	299.0	93,500	178,400	50.4	307.1	80,600	168,700	200
205	32.4	276.8	102,500	182,500	41.1	293.2	89,600	172,700	48.2	302.5	77,000	163,300	205
210	29.0	267.9	98,400	176,900	38.4	286.9	85,900	167,400	45.9	297.6	73,700	158,100	210
215	25.2	257.4	94,400	171,500	35.6	279.9	82,400	162,200	43.5	292.3	70,500	153,200	215
220	20.7	244.8	90,500	166,300	32.6	272.1	78,900	157,300	41.0	286.5	67,400	148,600	220
225	14.9	227.7	86,700	161,300	29.2	263.2	75,600	152,600	38.3	280.2	64,400	144,100	225
230					25.4	252.9	72,400	148,100	35.5	273.1	61,500	139,800	230
235					21.0	240.4	69,300	143,800	32.4	265.3	58,800	135,700	235
240					15.2	223.6	66,100	139,600	29.0	256.3	56,100	131,800	240
250									20.7	233.2	50,900	124,300	250

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	74.6	378.9	354,800	354,800									80
85	73.0	377.4	354,800	354,800									85
90	71.5	375.6	354,600	354,600									90
95	69.9	373.8	353,900	353,900	71.9	375.3	345,000	350,400					95
100	68.3	371.7	335,800	353,200	70.3	373.5	323,800	350,400					100
105	66.7	369.5	316,100	352,100	68.7	371.5	304,600	350,400					105
110	65.0	367.1	298,200	350,800	67.1	369.3	287,300	350,400					110
115	63.4	364.6	282,000	349,200	65.5	367.0	271,600	350,400	68.6	369.7	256,100	339,200	115
120	61.7	361.8	267,100	341,600	63.8	364.5	257,200	350,400	67.0	367.5	242,400	339,200	120
125	60.0	358.9	253,500	328,900	62.1	361.8	244,000	350,400	65.3	365.2	229,800	339,200	125
130	58.2	355.7	240,900	316,000	60.4	358.9	231,800	344,000	63.7	362.7	218,200	333,800	130
135	56.4	352.3	229,300	303,100	58.7	355.8	220,600	328,800	62.0	359.9	207,500	319,000	135
140	54.6	348.7	218,600	290,500	56.9	352.5	210,200	314,800	60.3	357.0	197,600	305,300	140
145	52.7	344.9	208,600	278,000	55.1	349.0	200,500	301,700	58.5	353.9	188,400	292,600	145
150	50.8	340.8	199,300	266,000	53.3	345.2	191,500	289,600	56.8	350.6	179,800	280,800	150
155	48.8	336.3	190,600	254,400	51.4	341.1	183,000	278,300	54.9	347.0	171,800	269,800	155
160	46.8	331.6	182,400	243,300	49.4	336.8	175,100	267,700	53.1	343.2	164,300	259,500	160
165	44.7	326.5	174,800	232,800	47.4	332.2	167,700	257,800	51.2	339.1	157,200	249,900	165
170	42.5	321.0	167,500	223,000	45.3	327.2	160,700	248,500	49.2	334.8	150,600	240,800	170
175	40.2	315.0	160,700	213,700	43.1	321.8	154,100	239,700	47.2	330.1	144,300	232,300	175
180	37.8	308.6	154,300	205,100	40.8	315.9	147,900	231,500	45.1	325.1	138,400	224,200	180
185	35.2	301.5	148,200	197,200	38.4	309.6	142,000	223,700	42.9	319.6	132,800	216,600	185
190	32.4	293.6	142,400	190,000	35.9	302.7	136,400	216,300	40.6	313.8	127,500	209,500	190
195	29.4	284.8	136,900	183,700	33.2	295.1	131,100	209,300	38.2	307.4	122,400	202,700	195
200	26.1	274.8	131,600	178,300	30.3	286.6	126,000	202,600	35.7	300.4	117,600	196,200	200
205	22.3	262.9	126,500	173,900	27.1	276.9	121,100	196,300	33.0	292.7	113,000	190,100	205
210	17.7	248.2	121,600	162,000	23.4	265.7	116,400	183,200	30.0	284.1	108,600	184,200	210
215	11.2	226.7	116,700	141,500	19.1	251.9	111,900	169,400	26.8	274.3	104,300	178,600	215
220					13.4	233.1	107,400	153,500	23.1	262.9	100,300	173,300	220
225									18.6	248.8	96,300	168,200	225
230									12.6	229.2	92,300	156,600	230
235													235
240													240
250													250
260													260
270													270

MLC650 VPC-MAX S-2

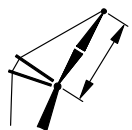
ASME B30.5



661,300 lb



183.7 ft



193.6 ft

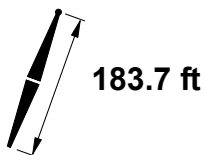
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	63.9	359.2	168,500	277,700									145
150	62.2	356.6	160,700	266,400									150
155	60.5	353.7	153,300	255,900									155
160	58.8	350.6	146,400	246,100									160
165	57.0	347.3	139,900	236,900									165
170	55.2	343.7	133,800	228,200									170
175	53.3	340.0	128,100	220,100	58.8	345.6	112,200	208,200					175
180	51.4	335.9	122,700	212,400	57.1	342.3	107,200	200,800					180
185	49.5	331.6	117,500	205,100	55.3	338.8	102,600	193,900					185
190	47.4	327.0	112,700	198,300	53.4	335.1	98,100	187,400					190
195	45.3	322.0	108,000	191,800	51.5	331.0	93,900	181,200					195
200	43.2	316.6	103,600	185,600	49.6	326.7	89,900	175,300					200
205	40.9	310.8	99,400	179,700	47.5	322.1	86,100	169,700	53.3	328.5	73,100	160,000	205
210	38.5	304.5	95,400	174,200	45.5	317.1	82,400	164,400	51.4	324.4	69,800	154,900	210
215	36.0	297.6	91,600	168,900	43.3	311.8	79,000	159,300	49.5	320.1	66,600	150,100	215
220	33.3	290.0	87,900	163,800	41.0	306.0	75,600	154,500	47.4	315.4	63,600	145,400	220
225	30.4	281.5	84,400	158,900	38.6	299.7	72,400	149,800	45.3	310.5	60,700	141,000	225
230	27.2	271.9	81,000	154,300	36.1	292.8	69,300	145,400	43.2	305.1	57,900	136,800	230
235	23.6	260.7	77,600	149,800	33.4	285.3	66,400	141,200	40.9	299.3	55,300	132,800	235
240	19.3	247.0	74,400	145,500	30.5	276.9	63,500	137,100	38.5	293.0	52,700	128,900	240
250					23.8	256.2	58,000	129,400	33.3	278.5	47,800	121,600	250
260					13.9	224.5	52,700	122,200	27.2	260.4	43,200	114,900	260
270									19.2	235.5	38,800	108,500	270

MLC650 VPC-MAX S-2

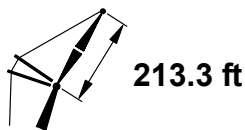
ASME B30.5



661,300 lb



183.7 ft



213.3 ft

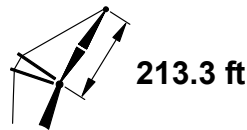
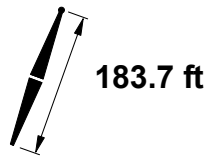
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	74.6	398.0	301,900	301,900									85
90	73.2	396.4	301,800	301,800									90
95	71.8	394.7	301,500	301,500									95
100	70.4	392.9	301,000	301,000	72.2	394.4	297,700	297,700					100
105	68.9	390.9	300,200	300,200	70.8	392.7	297,700	297,700					105
110	67.5	388.8	295,200	299,200	69.4	390.7	284,100	297,700					110
115	66.0	386.6	279,000	298,100	67.9	388.6	268,300	297,700					115
120	64.5	384.1	264,200	296,800	66.4	386.4	254,000	297,700	69.2	388.9	238,800	287,900	120
125	63.0	381.5	250,600	295,300	64.9	384.0	240,800	297,700	67.8	386.8	226,300	287,900	125
130	61.5	378.8	238,000	292,900	63.4	381.5	228,700	297,600	66.3	384.6	214,800	287,900	130
135	59.9	375.8	226,500	283,000	61.9	378.8	217,500	297,000	64.8	382.2	204,100	287,900	135
140	58.3	372.7	215,700	273,000	60.3	375.9	207,100	296,200	63.3	379.6	194,200	287,900	140
145	56.7	369.4	205,800	263,000	58.8	372.8	197,400	295,300	61.8	376.9	185,100	287,900	145
150	55.1	365.8	196,500	253,100	57.2	369.5	188,500	286,600	60.2	374.0	176,500	277,700	150
155	53.4	362.1	187,800	243,200	55.5	366.0	180,100	275,300	58.6	370.9	168,500	266,700	155
160	51.7	358.1	179,700	233,700	53.9	362.3	172,200	264,800	57.0	367.6	161,000	256,500	160
165	49.9	353.8	172,000	224,400	52.2	358.4	164,800	255,000	55.4	364.1	154,000	246,900	165
170	48.1	349.3	164,900	215,400	50.4	354.2	157,800	245,700	53.7	360.4	147,400	237,900	170
175	46.2	344.4	158,100	206,800	48.6	349.8	151,300	237,000	52.0	356.4	141,200	229,400	175
180	44.3	339.3	151,700	198,600	46.7	345.0	145,100	228,800	50.2	352.2	135,300	221,400	180
185	42.3	333.7	145,700	190,800	44.8	339.9	139,300	221,000	48.4	347.7	129,700	213,800	185
190	40.2	327.8	139,900	183,500	42.9	334.5	133,700	213,700	46.6	342.9	124,500	206,700	190
195	38.0	321.4	134,500	176,600	40.8	328.7	128,400	206,700	44.6	337.8	119,500	199,900	195
200	35.7	314.4	129,300	170,200	38.6	322.4	123,400	199,400	42.7	332.4	114,700	193,500	200
205	33.3	306.8	124,300	164,300	36.4	315.6	118,700	191,800	40.6	326.5	110,200	187,400	205
210	30.6	298.4	119,600	159,000	34.0	308.2	114,100	184,700	38.4	320.2	105,800	181,600	210
215	27.8	289.0	115,100	154,300	31.4	300.0	109,700	178,300	36.1	313.3	101,700	176,100	215
220	24.6	278.3	110,700	150,200	28.6	290.9	105,500	172,400	33.7	305.8	97,700	170,800	220
225	20.9	265.6	106,500	147,000	25.5	280.6	101,500	165,800	31.1	297.6	93,900	165,800	225
230	16.5	249.8	102,400	136,700	22.0	268.6	97,600	154,900	28.3	288.4	90,300	160,900	230
235	10.1	226.4	98,200	118,200	17.8	253.8	93,800	143,200	25.2	277.9	86,700	156,300	235
240					12.2	233.5	90,000	129,500	21.7	265.7	83,300	151,900	240
250									11.5	229.4	76,500	132,400	250
260													260
270													270
280													280
290													290

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



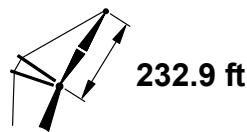
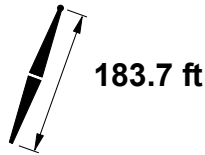
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	65.0	378.8	156,900	263,000									150
155	63.5	376.2	149,500	252,500									155
160	61.9	373.5	142,700	242,800									160
165	60.4	370.6	136,300	233,600									165
170	58.8	367.5	130,200	225,000									170
175	57.2	364.3	124,500	216,900									175
180	55.6	360.8	119,100	209,300									180
185	53.9	357.1	114,000	202,100	58.9	362.6	98,700	190,600					185
190	52.2	353.2	109,200	195,300	57.3	359.3	94,300	184,100					190
195	50.5	349.0	104,600	188,800	55.7	355.9	90,100	178,000					195
200	48.7	344.6	100,300	182,700	54.0	352.2	86,200	172,100					200
205	46.8	339.8	96,100	176,900	52.3	348.3	82,400	166,600					205
210	44.9	334.8	92,200	171,300	50.5	344.1	78,800	161,300					210
215	42.9	329.3	88,400	166,100	48.7	339.7	75,400	156,300	53.9	345.6	62,700	146,800	215
220	40.9	323.5	84,800	161,000	46.9	335.0	72,100	151,500	52.2	341.7	59,700	142,200	220
225	38.7	317.3	81,300	156,200	45.0	329.9	68,900	146,900	50.5	337.5	56,900	137,900	225
230	36.4	310.5	78,000	151,600	43.0	324.5	65,900	142,500	48.7	333.0	54,100	133,700	230
235	34.0	303.1	74,800	147,200	41.0	318.7	63,000	138,300	46.8	328.3	51,500	129,700	235
240	31.5	294.9	71,700	143,000	38.8	312.5	60,300	134,300	44.9	323.2	49,000	125,900	240
250	25.6	275.6	65,900	135,000	34.2	298.4	55,000	126,800	40.9	312.0	44,300	118,700	250
260	18.0	249.0	60,300	127,600	28.8	281.2	50,100	119,800	36.4	299.0	39,900	112,100	260
270					22.3	259.2	45,400	113,200	31.5	283.4	35,700	105,900	270
280					12.8	225.1	40,800	107,000	25.6	264.1	31,800	100,100	280
290									18.0	237.5	28,000	94,700	290

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	74.7	417.0	273,200	273,200									90
95	73.4	415.5	273,000	273,000									95
100	72.1	413.8	272,600	272,600									100
105	70.8	412.1	272,000	272,000	72.5	413.5	268,700	268,700					105
110	69.5	410.2	271,200	271,200	71.2	411.8	268,700	268,700					110
115	68.2	408.1	270,400	270,400	69.9	409.9	262,700	268,700					115
120	66.8	405.9	258,900	269,400	68.5	407.9	248,400	268,700					120
125	65.5	403.6	245,400	268,300	67.2	405.8	235,300	268,600	69.7	408.1	220,300	258,600	125
130	64.1	401.1	232,900	267,000	65.8	403.5	223,200	268,200	68.4	406.1	208,800	258,600	130
135	62.7	398.5	221,300	265,700	64.5	401.0	212,000	267,700	67.1	404.0	198,200	258,600	135
140	61.3	395.7	210,700	263,400	63.1	398.5	201,700	267,100	65.7	401.7	188,400	258,600	140
145	59.9	392.8	200,700	255,100	61.7	395.7	192,100	266,400	64.3	399.2	179,300	258,600	145
150	58.4	389.7	191,500	246,700	60.3	392.8	183,200	265,600	63.0	396.6	170,800	258,600	150
155	57.0	386.4	182,800	238,200	58.8	389.8	174,800	264,700	61.6	393.9	162,800	258,600	155
160	55.5	382.9	174,700	229,800	57.4	386.5	167,000	260,300	60.1	390.9	155,400	251,700	160
165	53.9	379.2	167,100	221,500	55.9	383.1	159,600	250,500	58.7	387.9	148,400	242,200	165
170	52.4	375.3	160,000	213,400	54.4	379.4	152,700	241,300	57.2	384.6	141,900	233,200	170
175	50.8	371.2	153,300	205,400	52.8	375.6	146,200	232,700	55.7	381.1	135,700	224,800	175
180	49.1	366.8	146,900	197,700	51.2	371.5	140,100	224,500	54.2	377.5	129,900	216,900	180
185	47.5	362.2	140,900	190,200	49.6	367.2	134,300	216,800	52.7	373.6	124,300	209,400	185
190	45.7	357.3	135,200	183,100	47.9	362.7	128,800	209,500	51.1	369.5	119,100	202,300	190
195	44.0	352.0	129,800	176,200	46.2	357.9	123,500	202,600	49.4	365.2	114,200	195,600	195
200	42.1	346.5	124,700	169,700	44.5	352.7	118,600	196,000	47.8	360.6	109,500	189,200	200
205	40.2	340.5	119,800	163,500	42.6	347.3	113,800	189,800	46.1	355.8	105,000	183,200	205
210	38.2	334.2	115,100	157,700	40.8	341.4	109,300	183,900	44.3	350.6	100,700	177,400	210
215	36.1	327.3	110,700	152,300	38.8	335.2	105,000	178,200	42.5	345.1	96,600	171,900	215
220	33.9	319.9	106,400	147,200	36.7	328.5	100,900	172,400	40.6	339.3	92,700	166,700	220
225	31.6	311.8	102,300	142,700	34.6	321.2	97,000	166,400	38.6	333.0	89,000	161,700	225
230	29.1	302.8	98,400	138,500	32.3	313.3	93,200	160,000	36.5	326.2	85,400	156,900	230
235	26.3	292.8	94,600	134,800	29.8	304.6	89,500	153,800	34.3	318.9	82,000	152,300	235
240	23.3	281.5	90,900	131,700	27.1	295.0	86,000	147,800	32.0	310.9	78,600	147,900	240
250	15.4	251.1	83,900	114,000	20.8	271.2	79,300	129,800	26.8	292.4	72,400	139,700	250
260					11.2	233.6	72,800	107,800	20.4	268.3	66,500	132,000	260
270									10.5	229.2	60,600	110,400	270
280													280
290													290
300													300
310													310

MLC650 VPC-MAX S-2

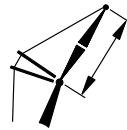
ASME B30.5



661,300 lb



183.7 ft



232.9 ft

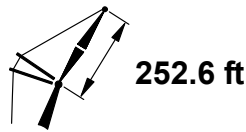
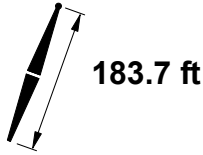
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160	64.5	395.8	136,400	237,500									160
165	63.1	393.2	130,000	228,500									165
170	61.7	390.5	124,000	219,900									170
175	60.3	387.6	118,400	211,900									175
180	58.9	384.5	113,100	204,400									180
185	57.4	381.3	108,000	197,200									185
190	55.9	377.8	103,300	190,500									190
195	54.4	374.2	98,800	184,100	58.9	379.6	83,700	172,800					195
200	52.9	370.4	94,500	178,000	57.5	376.3	79,800	167,100					200
205	51.3	366.3	90,400	172,200	56.0	372.9	76,100	161,600					205
210	49.6	362.0	86,500	166,700	54.5	369.3	72,500	156,400					210
215	48.0	357.5	82,800	161,500	52.9	365.5	69,200	151,400					215
220	46.3	352.7	79,200	156,500	51.3	361.4	66,000	146,600					220
225	44.5	347.5	75,800	151,800	49.7	357.2	62,900	142,100	54.4	362.7	50,300	132,800	225
230	42.7	342.1	72,500	147,200	48.1	352.6	59,900	137,800	52.9	358.9	47,700	128,600	230
235	40.8	336.3	69,400	142,900	46.4	347.8	57,100	133,600	51.3	354.8	45,100	124,700	235
240	38.8	330.0	66,400	138,700	44.6	342.7	54,400	129,700	49.6	350.5	42,700	120,900	240
250	34.6	316.1	60,700	130,800	40.9	331.5	49,300	122,200	46.3	341.2	38,100	113,800	250
260	29.9	299.6	55,400	123,600	36.9	318.6	44,500	115,300	42.7	330.6	33,800	107,300	260
270	24.3	279.0	50,500	116,800	32.4	303.5	40,000	108,900	38.8	318.5	29,800	101,200	270
280	16.9	250.7	45,700	110,500	27.3	285.3	35,800	103,000	34.6	304.6	26,000	95,600	280
290					21.1	261.9	31,800	97,400	29.9	288.0	22,500	90,300	290
300					11.8	225.4	27,800	92,000	24.2	267.5		85,300	300
310									16.9	239.2		80,600	310

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



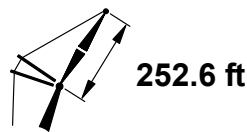
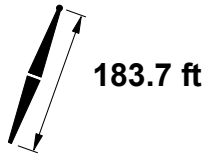
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95	74.7	436.1	234,600	234,600									95
100	73.6	434.6	234,200	234,200									100
105	72.4	432.9	233,700	233,700									105
110	71.2	431.2	233,100	233,100	72.7	432.6	230,200	230,200					110
115	70.0	429.3	232,300	232,300	71.5	430.9	230,200	230,200					115
120	68.7	427.3	231,500	231,500	70.3	429.1	230,100	230,100					120
125	67.5	425.2	230,500	230,500	69.1	427.1	229,800	229,800					125
130	66.3	423.0	229,500	229,500	67.9	425.0	219,800	229,400					130
135	65.0	420.6	218,200	228,500	66.6	422.8	208,700	229,000	69.0	425.3	194,500	221,500	135
140	63.7	418.1	207,500	227,300	65.4	420.5	198,400	228,400	67.7	423.2	184,700	221,500	140
145	62.5	415.5	197,600	226,100	64.1	418.0	188,800	227,800	66.5	421.0	175,700	221,500	145
150	61.2	412.7	188,400	224,900	62.8	415.4	179,900	227,200	65.2	418.7	167,200	221,500	150
155	59.8	409.7	179,700	222,100	61.5	412.7	171,500	226,400	64.0	416.2	159,300	221,500	155
160	58.5	406.6	171,700	215,400	60.2	409.8	163,700	225,600	62.7	413.6	151,900	221,500	160
165	57.2	403.4	164,100	208,700	58.9	406.7	156,400	224,800	61.4	410.8	144,900	221,500	165
170	55.8	399.9	157,000	202,000	57.5	403.5	149,500	223,900	60.1	407.9	138,400	221,500	170
175	54.4	396.3	150,300	195,300	56.2	400.1	143,000	223,000	58.8	404.8	132,300	221,500	175
180	53.0	392.5	143,900	188,700	54.8	396.5	136,900	219,200	57.4	401.6	126,500	213,900	180
185	51.5	388.5	137,900	182,200	53.4	392.8	131,100	212,400	56.0	398.2	121,000	206,400	185
190	50.0	384.2	132,300	175,900	51.9	388.8	125,700	205,700	54.6	394.6	115,800	199,400	190
195	48.5	379.8	126,900	169,700	50.4	384.6	120,500	199,000	53.2	390.8	110,900	192,700	195
200	46.9	375.0	121,800	163,800	48.9	380.2	115,500	192,400	51.8	386.8	106,200	186,400	200
205	45.3	370.1	116,900	158,000	47.4	375.6	110,800	185,900	50.3	382.6	101,700	180,300	205
210	43.7	364.8	112,300	152,600	45.8	370.7	106,300	179,500	48.8	378.2	97,500	174,600	210
215	42.0	359.2	107,900	147,300	44.2	365.5	102,100	173,300	47.2	373.5	93,400	169,200	215
220	40.2	353.3	103,700	142,300	42.5	360.0	98,000	167,300	45.6	368.6	89,600	164,000	220
225	38.4	346.9	99,600	137,600	40.7	354.2	94,100	161,600	44.0	363.4	85,900	159,000	225
230	36.5	340.2	95,700	133,000	38.9	348.0	90,400	156,100	42.3	357.9	82,300	154,200	230
235	34.5	332.9	92,000	128,900	37.0	341.3	86,800	150,800	40.6	352.0	78,900	149,700	235
240	32.4	325.0	88,400	125,000	35.1	334.2	83,300	145,900	38.7	345.7	75,700	145,300	240
250	27.7	307.0	81,700	118,300	30.8	318.1	76,800	136,100	34.9	331.9	69,500	137,200	250
260	22.1	284.4	75,400	113,100	25.8	298.7	70,700	125,400	30.5	315.7	63,800	129,600	260
270	14.4	252.2	69,300	95,700	19.7	273.6	65,000	109,600	25.5	296.1	58,400	122,600	270
280					10.3	233.4	59,400	90,100	19.3	270.6	53,300	112,400	280
290									9.6	228.8	48,300	92,700	290
300													300
310													310
320													320
330													330

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



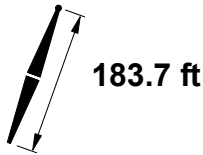
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170	64.1	412.8	120,200	204,100									170
175	62.9	410.2	114,600	204,100									175
180	61.6	407.4	109,300	201,100									180
185	60.3	404.5	104,300	194,000									185
190	58.9	401.5	99,600	187,300									190
195	57.6	398.2	95,100	180,900									195
200	56.2	394.9	90,800	174,900									200
205	54.8	391.3	86,800	169,200	59.0	396.5	72,100	158,300					205
210	53.4	387.5	82,900	163,700	57.6	393.3	68,600	153,100					210
215	51.9	383.6	79,200	158,500	56.3	389.9	65,300	148,200					215
220	50.5	379.4	75,700	153,600	54.9	386.4	62,100	143,500					220
225	49.0	375.0	72,300	148,900	53.5	382.6	59,100	139,000					225
230	47.4	370.4	69,100	144,300	52.0	378.7	56,200	134,700					230
235	45.8	365.5	66,000	140,000	50.5	374.5	53,400	130,600	54.8	379.8	41,100	121,500	235
240	44.2	360.3	63,100	135,900	49.0	370.2	50,700	126,700	53.4	376.0	38,700	117,700	240
250	40.8	349.0	57,500	128,100	45.9	360.7	45,700	119,300	50.5	367.9	34,200	110,700	250
260	37.1	336.2	52,300	120,900	42.6	350.0	41,000	112,400	47.4	358.9	30,000	104,200	260
270	33.0	321.4	47,500	114,200	39.1	338.0	36,600	106,100	44.2	348.8	26,100	98,200	270
280	28.5	303.9	42,900	108,000	35.2	324.3	32,500	100,200	40.8	337.5	22,400	92,700	280
290	23.0	282.2	38,600	102,200	30.9	308.4	28,700	94,700	37.1	324.7		87,500	290
300	15.9	252.2	34,400	96,800	26.0	289.1	25,100	89,600	33.0	309.9		82,600	300
310					20.0	264.4	21,600	84,700	28.5	292.4		78,000	310
320					10.8	225.4		80,100	23.0	270.7		73,700	320
330									15.9	240.7		69,600	330

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100	74.8	455.1	203,000	203,000									100
105	73.7	453.6	202,500	202,500									105
110	72.6	452.0	202,000	202,000									110
115	71.5	450.3	201,300	201,300	72.9	451.7	199,300	199,300					115
120	70.4	448.5	200,600	200,600	71.8	450.0	199,100	199,100					120
125	69.2	446.5	199,800	199,800	70.7	448.2	198,900	198,900					125
130	68.1	444.5	198,900	198,900	69.5	446.3	198,600	198,600					130
135	66.9	442.3	198,000	198,000	68.4	444.3	198,100	198,100					135
140	65.8	440.0	197,000	197,000	67.3	442.2	196,200	197,600	69.4	444.5	182,300	191,700	140
145	64.6	437.6	195,600	196,000	66.1	439.9	186,600	197,100	68.3	442.5	173,300	191,700	145
150	63.4	435.1	186,400	195,100	64.9	437.5	177,800	196,400	67.2	440.4	164,800	191,700	150
155	62.2	432.4	177,800	193,800	63.8	435.0	169,400	195,900	66.0	438.1	157,000	191,700	155
160	61.0	429.6	169,800	192,600	62.6	432.4	161,700	195,000	64.8	435.7	149,600	191,700	160
165	59.8	426.7	162,200	191,500	61.4	429.6	154,400	194,300	63.7	433.2	142,700	191,700	165
170	58.6	423.6	155,100	188,300	60.2	426.7	147,500	193,500	62.5	430.5	136,200	191,700	170
175	57.3	420.3	148,400	182,900	58.9	423.7	141,100	192,600	61.3	427.8	130,100	191,700	175
180	56.1	416.9	142,100	177,500	57.7	420.5	135,000	191,700	60.0	424.8	124,300	191,500	180
185	54.8	413.4	136,200	172,100	56.4	417.1	129,200	190,900	58.8	421.8	118,800	191,100	185
190	53.4	409.6	130,500	166,800	55.1	413.6	123,800	189,900	57.6	418.6	113,700	190,800	190
195	52.1	405.7	125,200	161,600	53.8	409.9	118,600	187,100	56.3	415.2	108,800	190,400	195
200	50.7	401.6	120,100	156,400	52.5	406.0	113,700	181,800	55.0	411.7	104,100	184,400	200
205	49.4	397.2	115,300	151,400	51.1	402.0	109,000	176,400	53.7	407.9	99,700	178,400	205
210	47.9	392.7	110,600	146,500	49.7	397.7	104,600	171,100	52.4	404.0	95,500	172,800	210
215	46.5	387.9	106,300	141,700	48.3	393.2	100,300	165,800	51.0	400.0	91,500	167,300	215
220	45.0	382.9	102,100	137,100	46.9	388.5	96,300	160,700	49.6	395.7	87,600	162,200	220
225	43.5	377.6	98,100	132,700	45.4	383.5	92,400	155,500	48.2	391.2	84,000	157,200	225
230	41.9	372.0	94,200	128,400	43.9	378.3	88,700	150,500	46.7	386.4	80,500	152,500	230
235	40.2	366.0	90,500	124,300	42.3	372.8	85,100	145,700	45.3	381.4	77,100	148,000	235
240	38.5	359.7	87,000	120,400	40.7	366.9	81,700	141,100	43.7	376.2	73,900	143,700	240
250	35.0	345.9	80,300	113,300	37.3	354.1	75,300	132,400	40.5	364.7	67,800	135,500	250
260	31.0	329.9	74,200	107,000	33.6	339.6	69,400	124,400	37.1	351.9	62,200	128,000	260
270	26.5	310.9	68,400	101,800	29.4	322.7	63,800	117,100	33.4	337.2	56,900	121,100	270
280	21.0	287.1	62,900	96,200	24.6	302.2	58,600	107,100	29.2	320.2	52,000	114,600	280
290	13.6	253.1	57,700	80,800	18.7	275.8	53,600	93,300	24.4	299.5	47,400	108,500	290
300					9.4	232.9	48,700	75,300	18.4	272.7	43,000	95,900	300
310									8.7	228.0	38,500	78,200	310
320													320
330													330
340													340
350													350

MLC650 VPC-MAX S-2

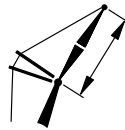
ASME B30.5



661,300 lb



183.7 ft



272.3 ft

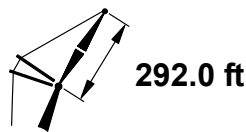
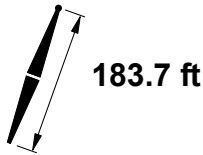
ft	75°				70°				65°				ft
	ft	°	ft	lb	ft	°	ft	lb	ft	°	ft	lb	
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165													165
170													170
175	65.0	432.3	112,000	176,400									175
180	63.8	429.8	106,800	176,400									180
185	62.6	427.1	101,800	176,400									185
190	61.4	424.4	97,100	176,400									190
195	60.2	421.5	92,600	176,400									195
200	59.0	418.4	88,400	172,800									200
205	57.7	415.2	84,400	167,100									205
210	56.4	411.9	80,600	161,700									210
215	55.2	408.4	76,900	156,500	59.0	413.5	62,700	146,000					215
220	53.9	404.7	73,400	151,600	57.8	410.3	59,600	141,300					220
225	52.5	400.8	70,100	146,900	56.5	406.9	56,500	136,900					225
230	51.2	396.7	66,900	142,400	55.2	403.4	53,700	132,600					230
235	49.8	392.5	63,900	138,100	53.9	399.8	50,900	128,500					235
240	48.4	388.0	60,900	134,000	52.6	395.9	48,300	124,600					240
250	45.4	378.3	55,400	126,300	49.9	387.6	43,300	117,300	53.9	393.2	108,600		250
260	42.4	367.6	50,300	119,200	47.0	378.4	38,700	110,500	51.2	385.2	102,100		260
270	39.1	355.6	45,600	112,600	44.0	368.3	34,400	104,200	48.4	376.5	96,200		270
280	35.5	342.0	41,100	106,400	40.8	357.0	30,400	98,400	45.4	366.8	90,700		280
290	31.6	326.4	37,000	100,700	37.4	344.2	26,700	93,000	42.4	356.1	85,500		290
300	27.2	308.0	33,000	95,400	33.7	329.8	23,200	87,900	39.1	344.1	80,700		300
310	22.0	285.1	29,300	90,300	29.6	312.9		83,200	35.5	330.5	76,200		310
320	15.0	253.5	25,600	85,500	24.9	292.7		78,700	31.6	314.9	72,000		320
330					19.0	266.6		74,400	27.2	296.4	68,000		330
340					10.0	225.1		70,300	22.0	273.6	64,200		340
350									15.0	241.9	60,600		350

MLC650 VPC-MAX S-2

ASME B30.5



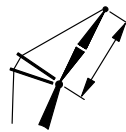
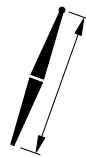
661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105	74.8	474.2	189,700	189,700									105
110	73.8	472.7	189,200	189,200									110
115	72.8	471.1	188,500	188,500									115
120	71.7	469.4	187,800	187,800									120
125	70.7	467.6	187,000	187,000	72.0	469.1	185,700	185,700					125
130	69.6	465.7	186,200	186,200	71.0	467.3	185,300	185,300					130
135	68.6	463.7	185,300	185,300	69.9	465.5	184,900	184,900					135
140	67.5	461.6	184,300	184,300	68.9	463.5	184,400	184,400					140
145	66.5	459.4	183,300	183,300	67.8	461.4	178,700	183,800	69.8	463.7	164,700	178,400	145
150	65.4	457.1	178,900	182,300	66.7	459.3	169,800	183,200	68.8	461.7	156,300	178,400	150
155	64.3	454.6	170,300	181,200	65.7	457.0	161,500	182,500	67.7	459.6	148,500	178,400	155
160	63.2	452.1	162,300	180,200	64.6	454.6	153,800	181,800	66.6	457.5	141,200	178,400	160
165	62.1	449.4	154,800	179,100	63.5	452.0	146,500	181,000	65.6	455.1	134,300	178,200	165
170	60.9	446.6	147,700	177,900	62.4	449.4	139,700	180,200	64.5	452.7	127,900	178,000	170
175	59.8	443.6	141,000	176,800	61.2	446.6	133,300	179,300	63.4	450.2	121,800	177,800	175
180	58.6	440.6	134,700	173,900	60.1	443.7	127,200	178,500	62.3	447.5	116,100	177,400	180
185	57.5	437.3	128,800	169,200	59.0	440.6	121,500	177,600	61.1	444.7	110,700	177,000	185
190	56.3	434.0	123,200	164,400	57.8	437.5	116,100	176,700	60.0	441.8	105,500	176,600	190
195	55.1	430.4	117,800	159,700	56.6	434.1	110,900	175,800	58.9	438.7	100,700	176,200	195
200	53.9	426.7	112,800	154,900	55.4	430.6	106,100	174,800	57.7	435.5	96,100	175,700	200
205	52.6	422.9	108,000	150,300	54.2	427.0	101,400	173,900	56.5	432.2	91,700	172,200	205
210	51.4	418.9	103,400	145,800	53.0	423.2	97,000	169,600	55.3	428.7	87,500	166,500	210
215	50.1	414.6	99,000	141,300	51.7	419.2	92,800	164,900	54.1	425.0	83,500	161,200	215
220	48.8	410.2	94,800	136,900	50.4	415.1	88,800	160,100	52.9	421.2	79,700	156,000	220
225	47.4	405.6	90,900	132,600	49.1	410.7	84,900	155,400	51.6	417.2	76,100	151,100	225
230	46.1	400.8	87,000	128,500	47.8	406.1	81,300	150,800	50.3	413.0	72,600	146,400	230
235	44.7	395.7	83,400	124,400	46.5	401.3	77,700	146,400	49.0	408.7	69,300	141,900	235
240	43.2	390.3	79,900	120,500	45.1	396.3	74,400	141,300	47.7	404.1	66,100	137,600	240
250	40.2	378.8	73,300	113,300	42.2	385.5	68,000	130,900	44.9	394.2	60,100	129,600	250
260	37.0	365.9	67,200	106,600	39.1	373.5	62,100	121,100	42.0	383.4	54,500	122,100	260
270	33.6	351.3	61,500	100,600	35.8	360.0	56,600	112,100	39.0	371.3	49,400	115,200	270
280	29.7	334.5	56,200	95,500	32.2	344.7	51,500	103,700	35.7	357.7	44,600	108,800	280
290	25.4	314.6	51,200	88,600	28.2	326.9	46,700	95,800	32.1	342.3	40,100	102,900	290
300	20.1	289.7	46,500	76,700	23.6	305.5	42,200	86,400	28.0	324.4	35,800	95,800	300
310	12.8	253.8	41,900	62,800	17.8	277.8	37,900	74,200	23.4	302.8	31,800	88,400	310
320					8.6	232.1	33,500	57,300	17.5	274.6	27,900	76,600	320
330									7.9	226.8	23,900	60,500	330
340													340
350													350
360													360
370													370

MLC650 VPC-MAX S-2

ASME B30.5



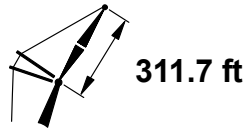
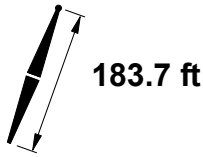
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185	64.6	449.3	92,800	163,900								185
190	63.5	446.8	88,200	163,900								190
195	62.4	444.1	83,800	163,900								195
200	61.3	441.3	79,600	163,900								200
205	60.1	438.4	75,700	160,300								205
210	59.0	435.4	71,900	155,000								210
215	57.8	432.2	68,300	149,900								215
220	56.7	428.9	64,900	145,000								220
225	55.5	425.4	61,600	140,300	59.1	430.4	47,400	129,800				225
230	54.3	421.8	58,400	135,900	57.9	427.3	44,600	125,600				230
235	53.0	418.0	55,400	131,600	56.7	424.0	41,900	121,600				235
240	51.8	414.0	52,500	127,600	55.5	420.5	39,300	117,700				240
250	49.2	405.5	47,100	119,900	53.1	413.1	34,400	110,500				250
260	46.5	396.2	42,100	112,900	50.6	404.9	29,900	103,800	54.2	410.3	95,100	260
270	43.7	385.9	37,400	106,300	47.9	396.1	25,700	97,600	51.8	402.5	89,200	270
280	40.7	374.5	33,100	100,300	45.2	386.3	21,800	91,900	49.2	394.0	83,800	280
290	37.6	361.8	29,000	94,600	42.3	375.5		86,500	46.5	384.6	78,700	290
300	34.1	347.5	25,200	89,300	39.2	363.6		81,500	43.7	374.4	74,000	300
310	30.4	331.1	21,600	84,400	36.0	350.2		76,800	40.7	363.0	69,600	310
320	26.1	311.8		79,700	32.4	334.9		72,400	37.5	350.3	65,400	320
330	21.0	287.8		75,300	28.4	317.3		68,300	34.1	336.0	61,500	330
340	14.2	254.5		71,100	23.8	296.1		64,400	30.4	319.6	57,800	340
350					18.1	268.7		60,600	26.1	300.3	54,300	350
360					9.2	224.5		57,000	21.0	276.3	50,900	360
370									14.2	243.0	47,700	370

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
110	74.9	493.2	164,600	164,600									110
115	73.9	491.7	164,000	164,000									115
120	72.9	490.2	163,300	163,300									120
125	72.0	488.5	162,400	162,400									125
130	71.0	486.7	161,700	161,700	72.2	488.2	160,400	160,400					130
135	70.0	484.9	160,900	160,900	71.3	486.5	160,200	160,200					135
140	69.0	482.9	160,000	160,000	70.3	484.6	159,600	159,600					140
145	68.0	480.9	159,100	159,100	69.3	482.7	158,900	158,900					145
150	67.0	478.7	158,100	158,100	68.3	480.7	158,300	158,300					150
155	66.0	476.5	157,100	157,100	67.3	478.6	157,700	157,700	69.2	480.9	146,300	153,600	155
160	65.0	474.1	156,200	156,200	66.3	476.3	151,900	157,000	68.2	478.9	139,000	153,500	160
165	64.0	471.6	153,000	155,200	65.3	474.0	144,700	156,200	67.2	476.8	132,200	153,300	165
170	62.9	469.1	146,000	154,100	64.3	471.6	137,900	155,500	66.2	474.5	125,800	153,000	170
175	61.9	466.4	139,300	154,100	63.2	469.0	131,500	154,700	65.2	472.2	119,700	152,700	175
180	60.8	463.5	133,100	152,100	62.2	466.3	125,400	153,900	64.2	469.7	114,000	152,300	180
185	59.8	460.6	127,100	151,100	61.1	463.5	119,700	153,100	63.1	467.2	108,600	151,900	185
190	58.7	457.5	121,500	150,000	60.1	460.6	114,300	152,300	62.1	464.5	103,500	151,500	190
195	57.6	454.3	116,200	149,000	59.0	457.6	109,200	151,500	61.0	461.7	98,700	151,100	195
200	56.5	451.0	111,200	145,400	57.9	454.4	104,300	150,600	60.0	458.8	94,100	150,600	200
205	55.4	447.5	106,400	141,500	56.8	451.1	99,700	149,800	58.9	455.7	89,700	150,100	205
210	54.2	443.8	101,800	137,700	55.7	447.7	95,300	148,900	57.8	452.5	85,600	149,500	210
215	53.1	440.1	97,400	133,900	54.6	444.1	91,100	148,000	56.7	449.2	81,600	149,000	215
220	51.9	436.1	93,300	130,100	53.4	440.3	87,100	147,200	55.6	445.7	77,800	148,400	220
225	50.7	432.0	89,300	126,300	52.2	436.4	83,200	146,300	54.4	442.1	74,200	147,800	225
230	49.5	427.7	85,500	122,700	51.1	432.4	79,600	142,800	53.3	438.4	70,800	144,800	230
235	48.3	423.2	81,900	119,100	49.9	428.1	76,100	138,900	52.1	434.5	67,500	140,300	235
240	47.0	418.5	78,400	115,600	48.6	423.7	72,700	135,200	50.9	430.4	64,300	136,000	240
250	44.4	408.5	71,800	108,900	46.1	414.2	66,400	127,700	48.5	421.6	58,300	128,000	250
260	41.7	397.5	65,700	102,600	43.4	403.8	60,600	120,600	46.0	412.1	52,800	120,600	260
270	38.8	385.3	60,100	96,800	40.7	392.4	55,100	111,600	43.3	401.7	47,700	113,700	270
280	35.7	371.7	54,900	91,500	37.7	379.8	50,100	103,400	40.5	390.2	42,900	107,400	280
290	32.3	356.4	50,000	86,700	34.5	365.6	45,400	95,700	37.5	377.5	38,500	101,400	290
300	28.6	338.9	45,400	82,600	31.0	349.6	40,900	88,500	34.3	363.3	34,300	95,700	300
310	24.4	318.1	41,000	74,700	27.2	331.0	36,700	81,700	30.9	347.2	30,400	88,500	310
320	19.2	292.0	36,800	64,100	22.6	308.6	32,800	72,900	27.0	328.4	26,700	81,700	320
330	12.0	254.2	32,700	51,700	17.0	279.6	28,900	62,000	22.4	305.8	23,100	75,200	330
340					7.9	230.9	25,000	46,200	16.7	276.3		64,300	340
350									7.1	225.2		49,600	350
360													360
370													370
380													380
390													390

MLC650 VPC-MAX S-2

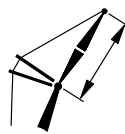
ASME B30.5



661,300 lb



183.7 ft



311.7 ft

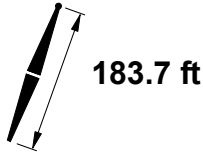
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195	64.3	466.3	81,500	140,600								195
200	63.3	463.7	77,400	140,600								200
205	62.2	461.1	73,400	140,600								205
210	61.2	458.3	69,700	140,600								210
215	60.1	455.4	66,100	140,600								215
220	59.0	452.3	62,700	140,600								220
225	57.9	449.2	59,400	138,500								225
230	56.8	445.9	56,300	134,100								230
235	55.7	442.4	53,300	129,800	59.1	447.4	39,500	119,600				235
240	54.6	438.9	50,400	125,800	58.0	444.2	36,900	115,800				240
250	52.3	431.2	45,100	118,200	55.8	437.5	32,100	108,600				250
260	49.9	422.9	40,100	111,100	53.5	430.2	27,700	101,900				260
270	47.4	413.8	35,500	104,700	51.2	422.3	23,500	95,800	54.6	427.3	87,200	270
280	44.8	403.9	31,200	98,600	48.7	413.6		90,100	52.3	419.7	81,800	280
290	42.1	393.1	27,200	93,000	46.2	404.2		84,800	49.9	411.4	76,800	290
300	39.2	381.1	23,400	87,800	43.6	393.8		79,800	47.4	402.3	72,100	300
310	36.2	367.8		82,900	40.8	382.4		75,200	44.8	392.4	67,800	310
320	32.9	352.8		78,300	37.8	369.9		70,800	42.1	381.6	63,600	320
330	29.2	335.6		73,900	34.6	355.8		66,700	39.2	369.6	59,800	330
340	25.1	315.4		69,800	31.2	339.9		62,900	36.2	356.3	56,100	340
350	20.1	290.4		65,900	27.3	321.4		59,200	32.9	341.3	52,700	350
360	13.4	255.4		62,200	22.8	299.2		55,700	29.2	324.1	49,400	360
370					17.3	270.5		52,400	25.1	303.9	46,300	370
380					8.4	223.6		49,100	20.1	278.8	43,300	380
390									13.4	243.8	40,400	390

MLC650 VPC-MAX S-2

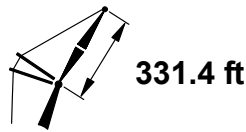
ASME B30.5



661,300 lb



183.7 ft



331.4 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.9	512.3	141,500	141,500									115
120	74.0	510.8	140,900	140,900									120
125	73.1	509.2	140,200	140,200									125
130	72.2	507.6	139,400	139,400									130
135	71.2	505.9	138,600	138,600	72.4	507.3	137,700	137,700					135
140	70.3	504.0	137,800	137,800	71.5	505.6	137,100	137,100					140
145	69.4	502.1	137,000	137,000	70.6	503.8	136,600	136,600					145
150	68.5	500.1	136,100	136,100	69.7	501.9	135,900	135,900					150
155	67.5	498.0	135,200	135,200	68.7	499.9	135,300	135,300					155
160	66.6	495.8	134,300	134,300	67.8	497.8	134,600	134,600	69.6	500.1	131,100	131,100	160
165	65.6	493.5	133,400	133,400	66.9	495.7	133,900	133,900	68.6	498.1	128,600	130,900	165
170	64.7	491.1	132,400	132,400	65.9	493.4	133,200	133,200	67.7	496.0	122,200	130,600	170
175	63.7	488.6	131,500	131,500	64.9	491.0	128,100	132,500	66.8	493.9	116,100	130,200	175
180	62.7	486.0	129,800	130,600	64.0	488.6	122,000	131,700	65.8	491.6	110,500	129,900	180
185	61.8	483.3	129,900	129,600	63.0	486.0	116,300	131,000	64.9	489.2	105,100	129,500	185
190	60.8	480.5	118,300	128,700	62.0	483.3	111,000	130,200	63.9	486.7	100,000	129,000	190
195	59.8	477.5	113,000	127,800	61.0	480.5	105,800	129,400	62.9	484.1	95,200	128,600	195
200	58.7	474.5	108,000	126,800	60.0	477.6	101,000	128,600	61.9	481.4	90,600	128,100	200
205	57.7	471.3	103,200	125,900	59.0	474.6	96,400	127,800	60.9	478.6	86,200	127,600	205
210	56.7	468.0	98,600	125,000	58.0	471.4	92,000	127,000	59.9	475.7	82,100	127,000	210
215	55.6	464.5	94,300	124,000	57.0	468.1	87,800	126,200	58.9	472.7	78,200	126,500	215
220	54.6	460.9	90,100	121,400	55.9	464.7	83,800	125,500	57.9	469.5	74,400	125,900	220
225	53.5	457.2	86,200	118,300	54.9	461.2	80,000	124,700	56.9	466.2	70,800	125,400	225
230	52.4	453.3	82,400	115,100	53.8	457.5	76,300	123,900	55.8	462.8	67,400	124,800	230
235	51.3	449.3	78,700	112,100	52.7	453.6	72,800	123,100	54.8	459.2	64,100	124,300	235
240	50.2	445.1	75,300	109,100	51.6	449.6	69,500	122,400	53.7	455.5	60,900	123,700	240
250	47.8	436.1	68,700	103,100	49.3	441.1	63,200	120,100	51.5	447.6	55,000	122,500	250
260	45.4	426.4	62,700	97,500	47.0	431.9	57,400	114,000	49.2	439.1	49,500	117,900	260
270	42.9	415.9	57,100	92,200	44.5	421.9	52,000	108,000	46.9	429.9	44,400	111,100	270
280	40.3	404.3	51,900	87,200	42.0	411.0	47,000	101,200	44.4	419.8	39,700	104,700	280
290	37.5	391.5	47,000	82,500	39.3	399.0	42,300	93,600	41.8	408.9	35,300	98,800	290
300	34.5	377.3	42,500	78,200	36.4	385.8	37,900	86,500	39.1	396.8	31,100	93,300	300
310	31.2	361.4	38,200	74,400	33.3	371.0	33,800	79,900	36.3	383.5	27,200	86,500	310
320	27.6	343.0	34,100	69,600	29.9	354.3	29,900	73,600	33.2	368.7	23,600	79,900	320
330	23.5	321.4	30,300	60,900	26.2	334.9	26,200	67,700	29.8	351.8	20,100	73,700	330
340	18.4	294.1	26,600	51,400	21.8	311.6	22,700	59,400	26.0	332.3		67,700	340
350	11.4	254.4	22,900	40,100	16.3	281.2		49,600	21.5	308.7		61,600	350
360					7.1	229.4		34,700	15.9	277.9		51,800	360
370									6.3	223.1		38,100	370
380													380
390													390
400													400
410													410

MLC650 VPC-MAX S-2

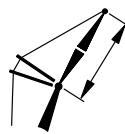
ASME B30.5



661,300 lb



183.7 ft



331.4 ft

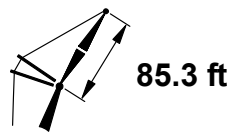
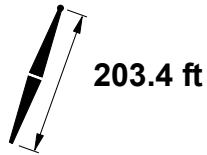
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200	65.0	485.8	73,500	119,100								200
205	64.0	483.3	69,600	119,100								205
210	63.0	480.7	65,900	119,100								210
215	62.1	478.0	62,300	119,100								215
220	61.1	475.2	58,900	119,100								220
225	60.1	472.3	55,700	119,100								225
230	59.1	469.3	52,600	119,100								230
235	58.0	466.2	49,600	119,100								235
240	57.0	462.9	46,800	119,100								240
250	54.9	455.9	41,400	115,200	58.1	461.2	105,500					250
260	52.7	448.4	36,500	108,300	56.0	454.5	98,900					260
270	50.5	440.3	31,900	101,800	53.9	447.3	92,800					270
280	48.2	431.4	27,700	95,800	51.7	439.5	87,100	54.9	444.4	78,700		280
290	45.8	421.8	23,700	90,200	49.4	431.0	81,900	52.7	436.9	73,800		290
300	43.3	411.4	20,000	85,000	47.1	421.9	76,900	50.5	428.7	69,100		300
310	40.7	400.0		80,200	44.6	411.9	72,300	48.2	419.9	64,800		310
320	37.9	387.4		75,600	42.1	401.0	68,000	45.8	410.3	60,700		320
330	34.9	373.5		71,300	39.4	389.1	64,000	43.3	399.9	56,900		330
340	31.7	357.8		67,200	36.5	375.9	60,100	40.7	388.5	53,200		340
350	28.2	339.9		63,400	33.4	361.2	56,500	37.9	375.9	49,800		350
360	24.1	318.8		59,700	30.1	344.5	53,100	34.9	362.0	46,600		360
370	19.3	292.7		56,300	26.3	325.3	49,800	31.7	346.3	43,500		370
380	12.7	256.0		51,300	22.0	302.1	46,700	28.2	328.4	40,600		380
390					16.5	272.2	43,700	24.1	307.3	37,800		390
400					7.7	222.4	40,700	19.3	281.2	35,200		400
410								12.7	244.5	32,500		410

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



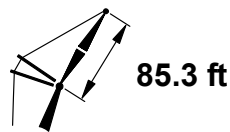
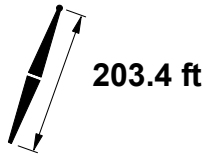
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55	73.1	293.5	632,200 c	769,500 c									55
60	69.5	291.5	570,900 c	743,800 c									60
65	65.8	289.1	519,800 c	717,400 c	71.0	291.5	500,900 c	766,100 c					65
70	61.9	286.3	476,400 b	691,300 b	67.3	289.3	459,100 c	731,700 c					70
75	57.9	283.1	439,100 b	665,900 b	63.6	286.7	423,200 b	685,400 b					75
80	53.7	279.3	406,800	642,000	59.6	283.6	392,000 b	635,000 b	67.7	287.8	369,700 b	617,500 b	80
85	49.3	274.9	378,400	602,300	55.5	280.1	364,600 b	591,300 b	64.0	285.2	343,800 b	574,900 b	85
90	44.4	269.7	353,200	563,200	51.1	275.9	340,400	552,900	60.1	282.2	321,000 b	537,500 b	90
95	39.1	263.4	330,700	528,600	46.5	271.1	318,700	518,900	56.0	278.7	300,600 b	504,500 b	95
100	32.9	255.7	310,400	483,800	41.4	265.3	299,300	488,600	51.6	274.7	282,300	475,000	100
105	25.3	245.5	291,800	405,700	35.6	258.3	281,600	461,400	47.0	269.9	265,700	448,600	105
110	13.3	228.4	274,300	318,000	28.7	249.3	265,400	436,900	41.9	264.2	250,600	424,800	110
115					19.3	236.3	250,300	368,200	36.2	257.4	236,800	403,100	115
120									29.5	248.7	223,900	383,300	120
125									20.6	236.3	211,800	365,200	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-2

ASME B30.5



661,300 lb



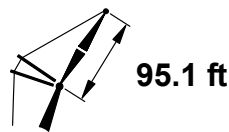
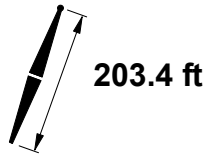
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
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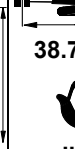
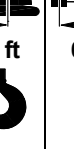
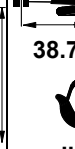
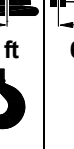
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



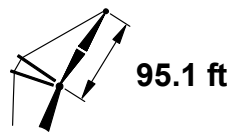
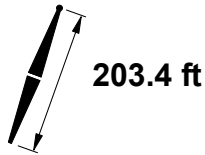
	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55	74.9	303.8	629,600 c	738,700 c									55
60	71.7	302.1	568,400 c	716,400 c									60
65	68.5	300.0	517,300 c	693,000 c									65
70	65.1	297.6	474,000 b	669,300 b	69.8	300.1	456,300 b	715,300 b					70
75	61.7	294.8	436,900 b	645,800 b	66.5	297.8	420,500 b	681,800 b					75
80	58.1	291.6	404,600	623,200	63.1	295.1	389,400 b	631,700 b					80
85	54.4	287.9	376,300	599,300	59.6	292.1	362,200 b	588,100 b	66.9	296.3	340,900 b	571,500 b	85
90	50.4	283.6	351,300	560,400	55.9	288.6	338,100	549,900	63.5	293.7	318,100 b	534,300 b	90
95	46.2	278.8	329,000	526,000	52.1	284.6	316,600	516,100	60.0	290.7	297,900 b	501,400 b	95
100	41.7	273.1	308,900	495,300	48.0	280.0	297,300	486,000	56.3	287.3	279,700	472,100	100
105	36.6	266.3	290,800	467,800	43.6	274.7	279,800	459,000	52.5	283.3	263,200	445,900	105
110	30.8	258.0	274,200	433,600	38.8	268.4	263,900	434,600	48.4	278.8	248,300	422,200	110
115	23.5	247.0	258,800	366,300	33.3	260.8	249,400	412,500	44.1	273.5	234,700	400,700	115
120	11.8	228.3	244,100	287,900	26.7	251.1	235,900	392,300	39.3	267.4	222,100	381,100	120
125					17.8	237.1	223,100	333,900	33.9	259.9	210,500	363,100	125
130									27.5	250.6	199,700	346,600	130
135									19.0	237.2	189,300	331,200	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-2

ASME B30.5



661,300 lb



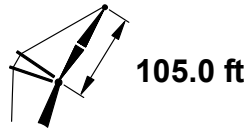
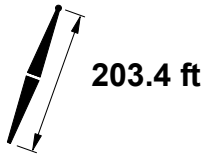
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110	61.6	288.0	222,100	401,900									110
115	58.0	284.8	209,900	381,300									115
120	54.3	281.1	198,600	362,700									120
125	50.4	276.8	188,200	345,600									125
130	46.1	271.9	178,700	329,900	59.4	280.4	157,300	313,500					130
135	41.6	266.2	169,700	315,400	55.7	276.9	149,400	299,700					135
140	36.5	259.4	161,400	301,900	51.9	272.9	142,000	286,900					140
145	30.6	251.1	153,500	289,400	47.8	268.3	135,100	275,000					145
150	23.3	240.0	146,000	277,700	43.4	262.9	128,600	264,000					150
155	11.5	221.0	138,400	266,600	38.5	256.5	122,500	253,700	52.9	267.0	105,500	240,700	155
160					33.0	248.9	116,600	244,000	48.9	262.5	100,500	231,500	160
165					26.3	239.0	111,000	234,800	44.6	257.3	95,700	222,900	165
170					17.1	224.6	105,400	226,100	39.8	251.3	91,100	214,800	170
175									34.5	244.0	86,700	207,100	175
180									28.3	234.9	82,400	199,900	180
185									20.1	222.2	78,200	192,900	185

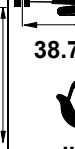
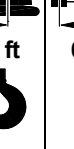
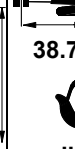
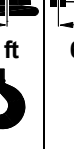
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



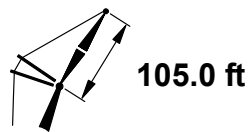
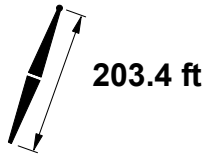
	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	73.5	312.5	567,000 c	681,100 c									60
65	70.6	310.7	516,000 b	668,600 b									65
70	67.6	308.5	472,800 b	647,500 b	71.8	310.6	454,800 b	683,300 b					70
75	64.6	306.1	435,700 b	626,300 b	68.9	308.6	419,100 b	669,400 b					75
80	61.5	303.3	403,500 b	605,400 b	65.9	306.3	388,100 b	629,200 b					80
85	58.2	300.1	375,400	585,100	62.8	303.6	360,900 b	585,900 b	69.2	307.1	339,300 b	569,100 b	85
90	54.9	296.4	350,400	558,500	59.6	300.6	336,900	547,800	66.2	304.8	316,600 b	532,100 b	90
95	51.4	292.4	328,200	524,200	56.3	297.1	315,500	514,200	63.1	302.2	296,400 b	499,400 b	95
100	47.6	287.7	308,300	493,700	52.8	293.3	296,300	484,200	59.9	299.2	278,300	470,200	100
105	43.6	282.4	290,300	466,300	49.2	288.8	279,000	457,300	56.6	295.8	262,000	444,100	105
110	39.3	276.2	273,900	441,600	45.3	283.8	263,200	433,100	53.2	292.0	247,100	420,500	110
115	34.5	268.9	258,900	419,200	41.2	278.0	248,900	411,100	49.6	287.6	233,600	399,100	115
120	28.9	260.0	245,100	391,500	36.6	271.3	235,700	391,000	45.8	282.7	221,200	379,600	120
125	22.0	248.3	232,200	332,500	31.4	263.1	223,400	372,700	41.6	277.0	209,800	361,800	125
130	10.5	227.9	219,700	262,100	25.1	252.8	212,000	355,800	37.1	270.3	199,200	345,400	130
135					16.4	237.7	201,100	304,500	32.0	262.3	189,300	330,200	135
140									25.8	252.3	180,000	316,200	140
145									17.6	238.0	171,100	303,100	145
150													150
155													155
160													160
165													165
170													170
175													175
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MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



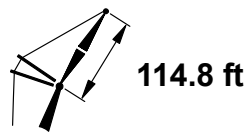
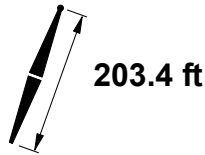
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110	64.6	299.3	220,400	399,900									110
115	61.4	296.5	208,200	379,500									115
120	58.2	293.3	197,000	360,900									120
125	54.8	289.7	186,800	343,900									125
130	51.3	285.6	177,300	328,300									130
135	47.6	280.9	168,500	313,900	59.4	288.9	147,600	297,900					135
140	43.6	275.6	160,300	300,600	56.1	285.5	140,300	285,200					140
145	39.2	269.4	152,600	288,200	52.6	281.6	133,500	273,500					145
150	34.4	262.1	145,400	276,700	49.0	277.1	127,100	262,500					150
155	28.8	253.1	138,600	265,900	45.1	272.1	121,100	252,300					155
160	21.8	241.3	132,000	255,700	40.9	266.2	115,500	242,700	53.6	275.6	98,700	229,900	160
165	10.2	220.6	125,200	246,000	36.3	259.4	110,100	233,700	50.0	271.3	94,000	221,400	165
170					31.1	251.1	105,000	225,200	46.2	266.4	89,600	213,400	170
175					24.7	240.6	100,000	217,200	42.1	260.8	85,400	205,800	175
180					15.8	225.1	95,000	209,500	37.6	254.3	81,300	198,700	180
185									32.5	246.4	77,400	191,900	185
190									26.6	236.7	73,600	185,400	190
195									18.6	223.1	69,800	179,200	195

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



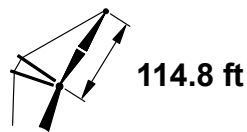
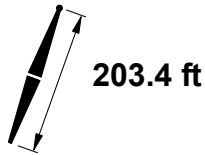
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	75.0	322.9	564,300 b	623,800 b									60
65	72.4	321.2	513,400 b	623,800 b									65
70	69.7	319.3	470,200 b	622,300 b									70
75	67.0	317.1	433,200 b	605,900 b	70.8	319.3	416,300 b	627,000 b					75
80	64.2	314.6	401,100	586,900	68.1	317.2	385,300 b	625,800 b					80
85	61.3	311.7	373,000	568,100	65.3	314.8	358,200	582,600					85
90	58.4	308.6	348,100	546,900	62.5	312.1	334,300	544,800	68.4	315.7	313,600	528,800	90
95	55.3	305.0	326,000	516,300	59.6	309.1	313,000	511,300	65.6	313.3	293,500	496,300	95
100	52.1	301.0	306,100	487,000	56.6	305.7	293,800	481,500	62.8	310.6	275,500	467,200	100
105	48.8	296.6	288,200	459,300	53.4	301.9	276,600	454,700	59.9	307.7	259,200	441,200	105
110	45.2	291.5	272,000	433,800	50.2	297.6	261,000	430,500	56.9	304.3	244,500	417,700	110
115	41.4	285.8	257,100	410,500	46.7	292.8	246,700	408,700	53.8	300.6	231,000	396,500	115
120	37.3	279.2	243,500	390,000	43.0	287.4	233,600	388,700	50.5	296.3	218,700	377,100	120
125	32.7	271.4	230,900	372,500	39.1	281.2	221,600	370,400	47.1	291.6	207,400	359,300	125
130	27.3	261.9	219,200	351,400	34.7	273.9	210,400	353,600	43.4	286.3	196,900	343,000	130
135	20.6	249.4	208,200	302,800	29.7	265.3	200,000	338,200	39.5	280.2	187,200	328,000	135
140	9.3	227.3	197,400	238,100	23.7	254.3	190,200	323,800	35.2	273.0	178,100	314,100	140
145					15.2	238.2	180,800	277,700	30.3	264.6	169,600	301,100	145
150									24.4	253.9	161,600	289,100	150
155									16.4	238.6	153,800	277,700	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-2

ASME B30.5



661,300 lb



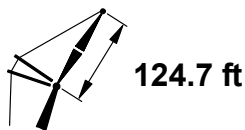
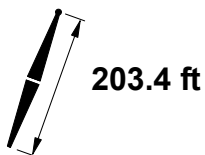
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	64.1	307.8	205,000	376,500									115
120	61.3	305.0	193,900	358,100									120
125	58.3	301.8	183,800	341,100									125
130	55.2	298.2	174,400	325,600									130
135	52.1	294.2	165,700	311,300									135
140	48.7	289.8	157,600	298,100	59.4	297.4	137,100	282,400					140
145	45.2	284.7	150,000	285,800	56.4	294.0	130,300	270,700					145
150	41.4	279.0	142,900	274,300	53.3	290.2	124,000	259,900					150
155	37.2	272.3	136,300	263,600	50.0	285.9	118,100	249,700					155
160	32.6	264.6	129,900	253,600	46.5	281.1	112,600	240,200					160
165	27.3	255.0	123,900	244,200	42.8	275.6	107,300	231,300	54.1	284.2	90,800	218,700	165
170	20.5	242.5	118,100	235,300	38.8	269.3	102,400	222,900	50.9	280.0	86,400	210,700	170
175	9.0	219.9	112,000	226,700	34.4	262.0	97,600	215,000	47.5	275.3	82,300	203,300	175
180					29.4	253.3	93,100	207,500	43.8	270.1	78,300	196,200	180
185					23.3	242.1	88,600	200,400	39.9	264.0	74,600	189,500	185
190					14.6	225.5	84,100	193,500	35.7	257.0	71,000	183,100	190
195									30.8	248.7	67,500	177,100	195
200									25.1	238.4	64,100	171,300	200
205									17.4	223.8	60,600	165,700	205

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	73.8	331.6	561,600 b	561,600 b									65
70	71.4	329.9	528,600 b	561,600 b									70
75	68.9	327.8	487,400 b	553,600 b	72.4	329.8	470,300 b	547,700 b					75
80	66.4	325.6	451,800	537,600	69.9	327.9	435,800 b	531,700 b					80
85	63.8	323.0	420,500	522,300	67.4	325.7	405,600	516,500					85
90	61.2	320.2	392,900	522,300	64.9	323.3	378,900	516,500					90
95	58.4	317.0	368,400	502,200	62.3	320.6	355,200	510,500	67.7	324.2	335,400	495,400	95
100	55.6	313.5	346,400	475,400	59.6	317.5	333,900	480,800	65.1	321.8	315,200	466,500	100
105	52.7	309.7	326,500	449,500	56.8	314.2	314,700	454,100	62.5	319.1	297,000	440,600	105
110	49.7	305.3	308,600	425,000	53.9	310.5	297,300	430,000	59.9	316.1	280,600	417,200	110
115	46.5	300.5	292,200	402,100	51.0	306.3	281,500	408,200	57.1	312.8	265,500	396,000	115
120	43.1	295.1	277,200	381,000	47.8	301.7	267,000	388,400	54.3	309.1	251,800	376,700	120
125	39.5	289.0	263,400	361,900	44.5	296.6	253,700	370,200	51.3	305.0	239,200	359,000	125
130	35.5	282.0	250,600	345,100	41.0	290.8	241,400	353,500	48.2	300.5	227,500	342,800	130
135	31.1	273.8	238,700	330,800	37.2	284.2	230,000	338,100	44.9	295.4	216,800	327,800	135
140	26.0	263.7	227,600	316,000	33.0	276.5	219,300	323,800	41.4	289.7	206,700	314,000	140
145	19.5	250.5	217,100	276,700	28.2	267.3	209,400	310,600	37.6	283.2	197,400	301,100	145
150	8.2	226.5	206,700	218,700	22.4	255.7	200,000	298,200	33.5	275.6	188,600	289,200	150
155					14.2	238.5	190,900	256,000	28.8	266.6	180,300	278,000	155
160									23.1	255.3	172,500	267,500	160
165									15.3	239.1	164,800	257,600	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-2

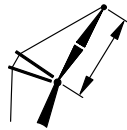
ASME B30.5



661,300 lb



203.4 ft



124.7 ft

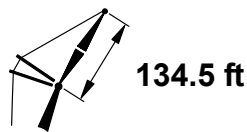
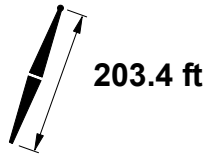
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	63.8	316.3	226,700	357,500									120
125	61.1	313.4	215,200	340,700									125
130	58.4	310.3	204,600	325,200									130
135	55.6	306.8	194,800	311,000									135
140	52.7	302.9	185,700	297,800									140
145	49.6	298.5	177,200	285,600	59.4	305.9	157,200	270,400					145
150	46.4	293.7	169,200	274,200	56.7	302.5	150,000	259,600					150
155	43.1	288.3	161,800	263,600	53.8	298.8	143,300	249,500					155
160	39.4	282.2	154,800	253,600	50.8	294.6	137,000	240,100					160
165	35.5	275.1	148,200	244,300	47.7	290.0	131,100	231,200					165
170	31.0	266.9	141,900	235,500	44.4	284.8	125,500	222,900	54.6	292.7	109,200	210,600	170
175	25.9	256.8	135,900	227,200	40.8	279.0	120,200	215,000	51.6	288.7	104,400	203,100	175
180	19.3	243.5	130,100	219,400	37.0	272.3	115,100	207,600	48.5	284.2	99,900	196,100	180
185	7.8	219.0	124,000	211,700	32.8	264.5	110,300	200,600	45.3	279.2	95,700	189,500	185
190					27.9	255.3	105,600	193,900	41.8	273.5	91,600	183,200	190
195					22.0	243.5	101,100	187,600	38.1	267.1	87,700	177,200	195
200					13.6	225.7	96,600	181,400	34.0	259.7	83,900	171,500	200
205									29.3	250.9	80,300	166,100	205
210									23.8	239.9	76,800	160,900	210
215									16.3	224.5	73,200	155,800	215

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	72.8	340.3	526,000 b	528,700 b									70
75	70.5	338.5	484,900	528,100									75
80	68.2	336.4	449,300	523,300	71.5	338.4	433,000	517,600					80
85	65.9	334.1	418,100	508,800	69.2	336.4	402,900	503,200					85
90	63.5	331.5	390,600	494,900	66.9	334.2	376,300	500,800					90
95	61.0	328.7	366,000	484,400	64.5	331.8	352,600	500,800	69.4	334.9	332,500	492,300	95
100	58.5	325.5	344,100	460,500	62.1	329.0	331,300	478,000	67.1	332.7	312,400	463,500	100
105	55.9	322.1	324,300	437,000	59.6	326.0	312,200	451,400	64.7	330.3	294,200	437,700	105
110	53.3	318.3	306,400	414,200	57.0	322.7	294,900	427,500	62.3	327.6	277,800	414,400	110
115	50.5	314.1	290,000	392,400	54.4	319.0	279,100	405,800	59.8	324.6	262,800	393,300	115
120	47.6	309.4	275,100	372,000	51.6	315.0	264,700	386,000	57.3	321.3	249,200	374,100	120
125	44.5	304.3	261,300	353,000	48.8	310.5	251,400	367,900	54.7	317.7	236,600	356,500	125
130	41.3	298.5	248,700	335,500	45.8	305.6	239,200	351,200	51.9	313.7	225,000	340,300	130
135	37.8	292.0	236,900	319,800	42.6	300.1	227,900	335,900	49.1	309.3	214,300	325,500	135
140	34.0	284.6	226,000	306,100	39.3	294.0	217,300	321,700	46.1	304.4	204,300	311,700	140
145	29.7	275.9	215,800	294,500	35.6	287.0	207,500	308,500	43.0	299.0	195,100	298,900	145
150	24.7	265.4	206,100	283,600	31.5	278.9	198,300	296,300	39.6	292.9	186,400	287,000	150
155	18.4	251.4	197,000	254,000	26.9	269.2	189,600	284,800	36.0	286.0	178,200	275,900	155
160	7.1	225.3	187,800	199,000	21.3	256.9	181,400	271,900	32.0	278.1	170,600	265,500	160
165					13.2	238.7	173,300	234,700	27.4	268.6	163,300	255,700	165
170									21.9	256.7	156,300	246,500	170
175									14.3	239.5	149,500	237,800	175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
225													225

MLC650 VPC-MAX S-2

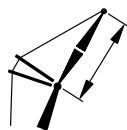
ASME B30.5



661,300 lb



203.4 ft



134.5 ft

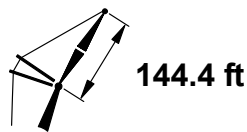
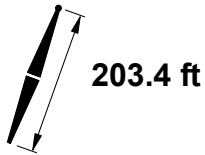
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	63.4	324.7	212,100	337,900									125
130	61.0	321.9	201,600	322,500									130
135	58.5	318.8	191,800	308,300									135
140	55.9	315.3	182,800	295,200									140
145	53.2	311.5	174,300	283,100									145
150	50.4	307.3	166,500	271,700	59.4	314.4	146,800	256,900					150
155	47.5	302.6	159,100	261,200	56.9	311.0	140,200	246,900					155
160	44.5	297.5	152,200	251,300	54.2	307.3	133,900	237,500					160
165	41.2	291.7	145,700	242,000	51.5	303.3	128,100	228,700					165
170	37.7	285.2	139,500	233,300	48.6	298.8	122,500	220,400					170
175	33.9	277.8	133,700	225,100	45.6	293.9	117,300	212,600	54.9	301.3	101,200	200,500	175
180	29.6	269.1	128,100	217,400	42.5	288.3	112,300	205,300	52.2	297.3	96,700	193,500	180
185	24.6	258.5	122,700	210,000	39.1	282.1	107,600	198,300	49.4	293.0	92,500	186,900	185
190	18.3	244.4	117,500	203,000	35.4	275.1	103,100	191,700	46.5	288.2	88,500	180,700	190
195	6.7	217.7	112,000	196,100	31.3	266.9	98,800	185,500	43.3	282.8	84,700	174,800	195
200					26.6	257.1	94,600	179,500	40.0	276.8	81,100	169,100	200
205					20.9	244.7	90,600	173,800	36.4	270.0	77,600	163,800	205
210					12.6	225.9	86,400	168,300	32.4	262.1	74,200	158,700	210
215									28.0	252.9	70,900	153,800	215
220									22.6	241.3	67,700	149,100	220
225									15.3	225.0	64,400	144,500	225

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.0	350.7	486,200 b	486,200 b									70
75	71.9	349.0	483,100	486,200									75
80	69.8	347.1	447,500	485,800	72.8	348.9	431,100	483,600					80
85	67.6	344.9	416,400	483,700	70.7	347.0	401,000	483,600					85
90	65.4	342.6	388,800	480,000	68.5	345.0	374,400	482,300					90
95	63.2	340.0	364,400	466,600	66.4	342.7	350,700	482,300					95
100	60.9	337.1	342,400	445,900	64.1	340.2	329,600	475,800	68.8	343.5	310,400	461,200	100
105	58.6	334.0	322,700	424,900	61.9	337.5	310,500	449,300	66.6	341.2	292,300	435,500	105
110	56.2	330.6	304,800	404,200	59.6	334.5	293,200	425,400	64.4	338.8	275,900	412,300	110
115	53.7	326.9	288,500	384,000	57.2	331.2	277,400	403,800	62.1	336.1	261,000	391,300	115
120	51.1	322.8	273,600	364,700	54.7	327.6	263,000	384,100	59.8	333.1	247,300	372,100	120
125	48.5	318.3	259,900	346,300	52.2	323.6	249,800	366,000	57.4	329.8	234,800	354,600	125
130	45.7	313.3	247,300	329,100	49.6	319.3	237,600	349,500	55.0	326.2	223,200	338,500	130
135	42.7	307.8	235,600	313,200	46.9	314.6	226,400	334,200	52.5	322.3	212,600	323,700	135
140	39.6	301.8	224,700	298,600	44.0	309.3	215,900	320,000	49.9	318.1	202,700	309,900	140
145	36.3	294.9	214,600	285,500	40.9	303.5	206,100	306,900	47.2	313.3	193,400	297,200	145
150	32.6	287.1	205,100	274,100	37.7	297.0	197,000	294,700	44.3	308.2	184,800	285,300	150
155	28.5	278.0	196,200	264,500	34.1	289.6	188,500	283,300	41.3	302.4	176,800	274,300	155
160	23.6	266.9	187,800	256,500	30.2	281.1	180,400	272,700	38.0	296.0	169,200	263,900	160
165	17.5	252.2	179,700	230,700	25.7	271.0	172,800	262,700	34.5	288.7	162,000	254,200	165
170	6.0	223.8	171,500	181,200	20.3	258.1	165,500	246,400	30.7	280.4	155,300	245,100	170
175					12.4	238.8	158,300	215,500	26.3	270.4	148,800	236,500	175
180									20.9	257.9	142,600	228,400	180
185									13.5	239.8	136,500	220,600	185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
225													225
230													230
235													235

MLC650 VPC-MAX S-2

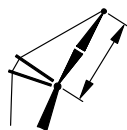
ASME B30.5



661,300 lb



203.4 ft



144.4 ft

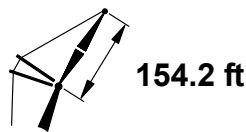
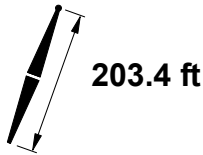
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	63.2	333.2	199,500	320,500									130
135	60.9	330.4	189,800	306,400									135
140	58.5	327.2	180,800	293,300									140
145	56.1	323.8	172,400	281,200									145
150	53.7	320.1	164,600	270,000									150
155	51.1	316.0	157,300	259,400	59.4	322.8	138,100	245,000					155
160	48.4	311.5	150,400	249,600	57.1	319.5	131,900	235,600					160
165	45.6	306.5	143,900	240,400	54.6	315.9	126,100	226,900					165
170	42.7	301.0	137,900	231,700	52.1	311.9	120,600	218,600					170
175	39.6	294.9	132,100	223,600	49.4	307.6	115,400	210,900					175
180	36.2	288.1	126,600	215,900	46.7	302.8	110,500	203,600					180
185	32.5	280.3	121,400	208,600	43.8	297.5	105,800	196,700	52.8	306.0	90,500	185,200	185
190	28.4	271.1	116,400	201,700	40.8	291.7	101,400	190,200	50.2	301.7	86,500	179,000	190
195	23.5	260.0	111,600	195,100	37.5	285.1	97,200	184,000	47.4	297.1	82,800	173,100	195
200	17.3	245.2	106,900	188,800	33.9	277.7	93,100	178,100	44.6	291.9	79,200	167,500	200
205	5.5	215.9	101,800	182,600	30.0	269.1	89,200	172,500	41.6	286.2	75,700	162,200	205
210					25.5	258.9	85,400	167,100	38.4	279.9	72,400	157,100	210
215					19.9	245.8	81,700	161,900	34.9	272.7	69,300	152,300	215
220					11.8	225.9	77,900	156,900	31.1	264.5	66,200	147,700	220
225									26.8	254.8	63,200	143,200	225
230									21.6	242.6	60,300	138,900	230
235									14.5	225.5	57,300	134,800	235

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	73.1	359.4	448,900	448,900									75
80	71.1	357.6	445,100	448,900									80
85	69.2	355.7	413,900	447,700	72.0	357.5	398,300	446,500					85
90	67.1	353.5	386,400	445,500	70.0	355.6	371,700	446,500					90
95	65.1	351.1	362,000	442,100	68.0	353.5	348,100	446,500					95
100	63.0	348.5	340,100	428,800	65.9	351.2	327,000	446,500					100
105	60.8	345.6	320,300	410,500	63.8	348.7	307,900	446,500	68.2	352.0	289,400	432,700	105
110	58.6	342.5	302,500	392,100	61.7	346.0	290,700	422,900	66.1	349.8	273,100	409,600	110
115	56.4	339.1	286,200	373,800	59.6	343.0	275,000	401,300	64.1	347.3	258,200	388,600	115
120	54.1	335.4	271,300	355,900	57.3	339.7	260,600	381,700	62.0	344.5	244,600	369,500	120
125	51.7	331.4	257,700	338,700	55.1	336.1	247,400	363,700	59.8	341.6	232,100	352,100	125
130	49.2	327.0	245,100	322,300	52.7	332.3	235,300	347,200	57.6	338.3	220,600	336,000	130
135	46.7	322.3	233,500	306,800	50.3	328.0	224,000	331,900	55.3	334.8	210,000	321,300	135
140	44.0	317.0	222,700	292,300	47.8	323.4	213,600	317,900	53.0	330.9	200,100	307,600	140
145	41.2	311.3	212,600	279,000	45.1	318.4	203,900	304,800	50.5	326.8	190,900	294,900	145
150	38.1	304.9	203,200	266,700	42.3	312.9	194,900	292,600	48.0	322.2	182,400	283,100	150
155	34.9	297.7	194,400	255,800	39.4	306.7	186,400	281,300	45.4	317.2	174,400	272,100	155
160	31.3	289.5	186,100	246,400	36.3	299.9	178,400	270,700	42.6	311.7	166,800	261,800	160
165	27.3	280.0	178,300	238,400	32.8	292.2	170,900	260,700	39.7	305.7	159,800	252,100	165
170	22.6	268.4	170,800	232,200	29.0	283.3	163,800	251,400	36.6	298.9	153,100	243,100	170
175	16.6	253.0	163,700	209,200	24.7	272.6	157,000	242,600	33.2	291.3	146,800	234,500	175
180	4.8	221.6	156,200	164,200	19.3	259.2	150,500	223,400	29.5	282.5	140,700	226,500	180
185					11.6	238.8	144,100	196,900	25.2	272.1	135,000	218,800	185
190									20.0	259.1	129,400	211,600	190
195									12.7	240.0	123,900	204,600	195
200													200
205													205
210													210
215													215
220													220
225													225
230													230
235													235
240													240

MLC650 VPC-MAX S-2

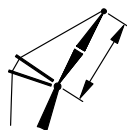
ASME B30.5



661,300 lb



203.4 ft



154.2 ft

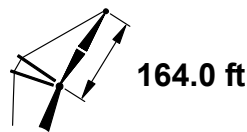
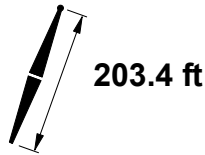
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	62.9	341.7	186,800	303,800									135
140	60.8	338.8	177,800	290,800									140
145	58.6	335.7	169,500	278,700									145
150	56.4	332.3	161,700	267,500									150
155	54.1	328.6	154,400	257,000									155
160	51.7	324.6	147,600	247,200	59.4	331.3	128,700	233,000					160
165	49.2	320.2	141,200	238,000	57.2	328.0	123,000	224,300					165
170	46.6	315.5	135,200	229,400	54.9	324.4	117,500	216,100					170
175	43.9	310.2	129,500	221,300	52.6	320.6	112,400	208,400					175
180	41.1	304.4	124,100	213,700	50.1	316.3	107,500	201,200					180
185	38.1	298.0	118,900	206,400	47.6	311.7	102,900	194,300					185
190	34.8	290.8	114,100	199,600	45.0	306.6	98,600	187,800	53.2	314.6	83,400	176,400	190
195	31.3	282.6	109,400	193,100	42.2	301.1	94,400	181,700	50.8	310.4	79,600	170,600	195
200	27.3	273.1	104,900	186,900	39.2	294.9	90,400	175,800	48.3	305.9	76,100	165,000	200
205	22.5	261.4	100,600	181,000	36.1	288.0	86,600	170,300	45.7	301.0	72,700	159,800	205
210	16.5	245.9	96,300	175,300	32.7	280.2	83,000	165,000	42.9	295.5	69,500	154,800	210
215	4.2	213.2	91,600	169,700	28.8	271.3	79,400	159,900	40.0	289.5	66,400	150,000	215
220					24.4	260.5	76,000	155,000	37.0	282.9	63,400	145,400	220
225					19.0	246.8	72,600	150,300	33.6	275.4	60,500	141,000	225
230					11.0	225.8	69,200	145,700	29.9	266.7	57,700	136,800	230
235									25.7	256.5	55,000	132,800	235
240									20.6	243.8	52,300	128,900	240

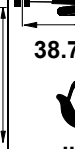
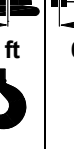
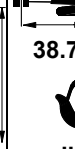
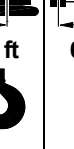
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



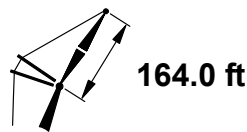
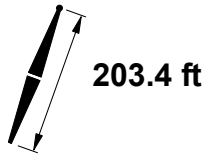
	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	74.2	369.7	413,800	413,800									75
80	72.3	368.1	413,800	413,800									80
85	70.5	366.2	413,300	413,400									85
90	68.6	364.2	385,800	411,900	71.2	366.2	371,000	411,900					90
95	66.7	362.0	361,400	409,900	69.4	364.2	347,400	411,900					95
100	64.7	359.6	339,500	407,000	67.5	362.1	326,300	411,900					100
105	62.8	356.9	319,800	395,300	65.5	359.8	307,300	411,900	69.6	362.7	288,600	400,800	105
110	60.7	354.1	302,000	379,100	63.6	357.2	290,000	411,900	67.7	360.6	272,300	400,800	110
115	58.7	351.0	285,700	362,700	61.6	354.4	274,400	400,200	65.7	358.3	257,400	387,400	115
120	56.6	347.6	270,900	346,500	59.6	351.4	260,000	380,600	63.8	355.8	243,800	368,400	120
125	54.4	344.0	257,300	330,600	57.5	348.2	246,900	362,700	61.8	353.0	231,400	351,000	125
130	52.2	340.0	244,700	315,200	55.3	344.7	234,800	346,200	59.8	350.0	219,900	335,000	130
135	49.9	335.8	233,100	300,300	53.1	340.9	223,600	331,100	57.7	346.8	209,300	320,300	135
140	47.5	331.1	222,300	286,300	50.9	336.7	213,200	317,000	55.6	343.3	199,500	306,700	140
145	45.1	326.1	212,300	273,100	48.5	332.3	203,500	304,000	53.4	339.5	190,300	294,000	145
150	42.5	320.6	203,000	260,900	46.1	327.4	194,500	291,900	51.1	335.4	181,800	282,300	150
155	39.7	314.5	194,200	249,500	43.5	322.1	186,100	280,600	48.8	331.0	173,800	271,300	155
160	36.8	307.8	186,000	239,200	40.9	316.2	178,100	270,000	46.4	326.2	166,400	261,000	160
165	33.6	300.3	178,300	229,900	38.0	309.8	170,700	260,100	43.8	320.9	159,300	251,400	165
170	30.2	291.8	171,000	221,900	35.0	302.7	163,700	250,800	41.2	315.2	152,700	242,400	170
175	26.3	281.8	164,000	215,200	31.7	294.6	157,000	242,000	38.3	308.8	146,400	233,900	175
180	21.7	269.7	157,400	210,400	28.0	285.3	150,700	233,800	35.3	301.7	140,500	225,900	180
185	15.8	253.6	151,000	191,700	23.7	274.2	144,600	224,300	32.0	293.8	134,800	218,300	185
190	3.2	217.9	144,100	149,000	18.5	260.1	138,800	204,700	28.4	284.6	129,500	211,100	190
195					10.8	238.7	133,000	180,600	24.2	273.8	124,300	204,300	195
200									19.1	260.1	119,300	197,800	200
205									11.9	240.0	114,300	189,700	205
210													210
215													215
220													220
225													225
230													230
235													235
240													240
250													250

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



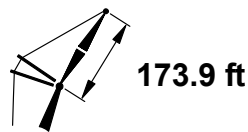
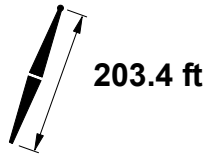
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	64.7	352.8	185,900	302,700									135
140	62.7	350.2	176,900	289,700									140
145	60.7	347.3	168,600	277,700									145
150	58.7	344.2	160,900	266,500									150
155	56.6	340.8	153,700	256,100									155
160	54.4	337.2	146,900	246,300									160
165	52.2	333.3	140,500	237,200	59.4	339.8	122,000	223,300					165
170	49.9	329.0	134,500	228,600	57.4	336.5	116,600	215,200					170
175	47.5	324.3	128,800	220,500	55.2	333.0	111,500	207,500					175
180	45.0	319.3	123,500	212,900	53.0	329.2	106,700	200,300					180
185	42.4	313.8	118,400	205,700	50.8	325.0	102,100	193,500					185
190	39.7	307.7	113,600	198,900	48.4	320.5	97,800	187,000					190
195	36.7	301.0	109,000	192,500	46.0	315.6	93,700	180,900	53.6	323.1	78,700	169,700	195
200	33.6	293.5	104,600	186,300	43.4	310.3	89,800	175,100	51.4	319.1	75,200	164,200	200
205	30.1	284.9	100,400	180,500	40.7	304.4	86,000	169,600	49.0	314.7	71,900	158,900	205
210	26.2	274.9	96,300	174,900	37.9	298.0	82,400	164,300	46.6	309.9	68,700	154,000	210
215	21.6	262.8	92,400	169,600	34.8	290.8	79,000	159,300	44.1	304.7	65,600	149,200	215
220	15.7	246.6	88,500	164,400	31.5	282.6	75,600	154,500	41.4	299.0	62,700	144,700	220
225					27.8	273.3	72,400	149,900	38.6	292.7	59,900	140,300	225
230					23.5	262.1	69,300	145,400	35.6	285.7	57,200	136,200	230
235					18.2	247.8	66,200	141,200	32.4	277.9	54,500	132,200	235
240					10.2	225.5	63,000	137,000	28.8	268.9	52,000	128,400	240
250									19.7	245.0	47,000	121,100	250

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	73.4	378.5	381,700	381,700									80
85	71.6	376.8	381,600	381,600									85
90	69.9	374.9	380,800	380,800	72.3	376.6	368,300	378,400					90
95	68.1	372.8	359,000	379,600	70.6	374.8	344,800	378,400					95
100	66.3	370.5	337,100	377,900	68.8	372.8	323,700	378,400					100
105	64.4	368.1	317,400	375,400	67.0	370.6	304,700	378,400					105
110	62.6	365.4	299,600	365,900	65.2	368.3	287,500	378,400	69.0	371.3	269,400	369,800	110
115	60.7	362.6	283,400	351,600	63.4	365.7	271,800	378,400	67.2	369.1	254,600	369,800	115
120	58.7	359.5	268,600	337,200	61.5	362.9	257,500	378,200	65.4	366.8	241,100	365,800	120
125	56.8	356.1	255,000	322,900	59.5	359.9	244,400	360,300	63.6	364.2	228,700	348,500	125
130	54.7	352.5	242,500	308,700	57.6	356.7	232,300	343,900	61.7	361.5	217,200	332,600	130
135	52.6	348.7	230,900	294,900	55.6	353.2	221,200	328,800	59.8	358.5	206,700	317,900	135
140	50.5	344.5	220,200	281,700	53.5	349.4	210,800	314,800	57.8	355.3	196,900	304,300	140
145	48.3	340.0	210,200	269,000	51.4	345.4	201,200	301,800	55.8	351.8	187,800	291,700	145
150	46.0	335.1	200,900	257,000	49.2	341.0	192,200	289,800	53.7	348.1	179,300	280,000	150
155	43.6	329.8	192,100	245,700	46.9	336.3	183,800	278,500	51.6	344.1	171,300	269,100	155
160	41.1	324.0	184,000	235,200	44.6	331.2	175,900	268,000	49.4	339.8	163,900	258,900	160
165	38.4	317.7	176,300	225,500	42.1	325.6	168,500	258,100	47.2	335.1	156,900	249,300	165
170	35.6	310.7	169,000	216,700	39.5	319.5	161,500	248,800	44.8	330.0	150,300	240,300	170
175	32.5	302.8	162,200	208,800	36.8	312.8	154,900	240,100	42.4	324.5	144,100	231,800	175
180	29.1	293.9	155,700	201,900	33.8	305.3	148,700	231,900	39.8	318.4	138,200	223,800	180
185	25.4	283.6	149,500	196,300	30.6	296.9	142,700	224,100	37.1	311.8	132,600	216,300	185
190	20.9	271.0	143,500	192,400	27.0	287.2	137,100	216,700	34.1	304.4	127,300	209,200	190
195	15.1	254.2	137,700	174,800	22.9	275.7	131,700	204,500	30.9	296.1	122,200	202,400	195
200					17.7	261.0	126,400	186,800	27.4	286.6	117,400	195,900	200
205					10.1	238.4	121,100	164,500	23.3	275.3	112,700	189,800	205
210									18.4	261.1	108,200	183,900	210
215									11.2	240.0	103,600	173,200	215
220													220
225													225
230													230
235													235
240													240
250													250
260													260

MLC650 VPC-MAX S-2

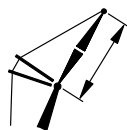
ASME B30.5



661,300 lb



203.4 ft



173.9 ft

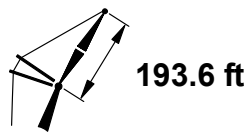
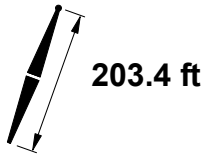
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	64.4	361.3	173,900	287,100									140
145	62.5	358.7	165,700	275,100									145
150	60.6	355.8	158,000	264,000									150
155	58.7	352.7	150,800	253,600									155
160	56.7	349.3	144,000	243,900									160
165	54.7	345.7	137,700	234,800									165
170	52.6	341.9	131,700	226,300	59.4	348.3	113,500	212,600					170
175	50.5	337.7	126,100	218,300	57.5	345.0	108,500	205,000					175
180	48.2	333.2	120,800	210,700	55.5	341.5	103,700	197,800					180
185	45.9	328.3	115,800	203,500	53.4	337.8	99,200	191,100					185
190	43.5	323.0	111,000	196,700	51.3	333.7	94,900	184,600					190
195	41.0	317.2	106,400	190,300	49.1	329.3	90,800	178,500					195
200	38.4	310.8	102,100	184,200	46.8	324.5	86,900	172,800	54.0	331.7	72,100	161,700	200
205	35.5	303.8	97,900	178,400	44.5	319.4	83,200	167,300	51.9	327.7	68,800	156,500	205
210	32.5	296.0	94,000	172,900	42.0	313.8	79,700	162,100	49.7	323.4	65,600	151,500	210
215	29.1	287.1	90,200	167,600	39.4	307.7	76,300	157,100	47.4	318.8	62,600	146,800	215
220	25.3	276.7	86,500	162,600	36.6	300.9	73,000	152,300	45.1	313.7	59,700	142,300	220
225	20.8	264.0	82,900	157,700	33.6	293.4	69,900	147,800	42.7	308.3	57,000	138,000	225
230	15.0	247.1	79,300	153,000	30.4	284.9	66,900	143,400	40.1	302.3	54,300	133,900	230
235					26.8	275.2	63,900	139,200	37.4	295.7	51,700	129,900	235
240					22.6	263.5	61,100	135,200	34.5	288.4	49,300	126,200	240
250					9.5	225.1	55,200	127,400	27.8	270.9	44,500	119,000	250
260									19.0	246.0	39,900	112,300	260

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	73.6	397.5	326,400	326,400									85
90	72.0	395.9	325,900	325,900									90
95	70.4	394.0	325,400	325,400	72.7	395.7	323,000	323,000					95
100	68.8	392.0	324,500	324,500	71.1	393.9	320,300	323,000					100
105	67.2	389.9	314,400	323,500	69.5	392.0	301,300	323,000					105
110	65.6	387.6	296,600	322,100	67.9	389.9	284,200	323,000					110
115	63.9	385.1	280,400	320,600	66.3	387.7	268,500	323,000	69.7	390.5	250,900	313,300	115
120	62.3	382.4	265,600	314,300	64.6	385.3	254,300	323,000	68.1	388.4	237,400	313,300	120
125	60.6	379.5	252,100	303,100	63.0	382.7	241,200	323,000	66.4	386.2	225,100	313,300	125
130	58.8	376.4	239,600	291,700	61.3	379.9	229,200	322,700	64.8	383.8	213,700	313,300	130
135	57.0	373.1	228,000	280,300	59.5	376.9	218,000	321,700	63.1	381.2	203,200	313,300	135
140	55.2	369.6	217,300	269,100	57.8	373.7	207,700	311,700	61.4	378.4	193,400	300,900	140
145	53.4	365.8	207,400	258,000	56.0	370.2	198,100	298,800	59.7	375.5	184,300	288,400	145
150	51.5	361.8	198,100	247,300	54.2	366.6	189,200	286,800	58.0	372.3	175,900	276,800	150
155	49.5	357.5	189,500	237,000	52.3	362.7	180,800	275,600	56.2	368.9	168,000	265,900	155
160	47.5	352.9	181,300	227,000	50.3	358.5	173,000	265,100	54.4	365.2	160,600	255,800	160
165	45.4	347.9	173,700	217,600	48.3	354.0	165,700	255,300	52.5	361.3	153,700	246,300	165
170	43.3	342.5	166,500	208,700	46.3	349.1	158,800	246,100	50.6	357.2	147,100	237,300	170
175	41.0	336.7	159,800	200,300	44.2	343.9	152,200	236,500	48.6	352.7	141,000	228,900	175
180	38.6	330.4	153,400	192,600	41.9	338.3	146,100	226,800	46.5	347.9	135,200	221,000	180
185	36.1	323.6	147,300	185,500	39.6	332.3	140,200	217,800	44.4	342.8	129,700	213,500	185
190	33.4	316.0	141,500	179,000	37.2	325.6	134,700	209,300	42.2	337.2	124,400	206,400	190
195	30.5	307.6	136,000	173,200	34.5	318.4	129,400	201,400	39.9	331.2	119,500	199,700	195
200	27.3	298.0	130,800	168,200	31.7	310.3	124,400	194,300	37.4	324.6	114,700	193,300	200
205	23.7	286.9	125,700	164,200	28.7	301.3	119,600	187,900	34.8	317.4	110,200	187,300	205
210	19.4	273.3	120,900	161,500	25.3	290.8	114,900	182,400	32.0	309.5	105,900	181,500	210
215	13.8	255.0	116,100	146,700	21.3	278.4	110,500	171,800	29.0	300.5	101,800	176,000	215
220					16.4	262.6	106,100	157,100	25.6	290.3	97,800	170,800	220
225					8.8	237.5	101,700	137,900	21.8	278.2	93,900	165,700	225
230									17.0	262.8	90,100	160,900	230
235									9.9	239.6	86,200	145,700	235
240													240
250													250
260													260
270													270
280													280

MLC650 VPC-MAX S-2

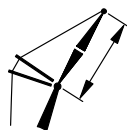
ASME B30.5



661,300 lb



203.4 ft



193.6 ft

	75°				70°				65°				
	ft	°	ft	lb	lb	ft	°	ft	lb	lb	ft	°	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	154,000	260,400									150
155	62.2	375.6	146,900	250,100									155
160	60.5	372.7	140,200	240,500									160
165	58.8	369.7	133,900	231,500									165
170	57.0	366.4	128,000	223,000									170
175	55.2	362.8	122,500	215,000									175
180	53.3	359.1	117,200	207,500	59.4	365.2	99,600	194,400					180
185	51.4	355.0	112,200	200,400	57.7	362.0	95,200	187,700					185
190	49.5	350.7	107,500	193,700	55.9	358.6	90,900	181,300					190
195	47.5	346.1	103,000	187,300	54.1	354.9	86,900	175,300					195
200	45.4	341.1	98,800	181,300	52.2	351.0	83,100	169,500					200
205	43.2	335.7	94,700	175,600	50.2	346.7	79,400	164,100					205
210	40.9	329.9	90,800	170,100	48.2	342.2	76,000	158,900	54.5	348.8	61,500	148,100	210
215	38.6	323.6	87,100	164,900	46.2	337.4	72,700	154,000	52.7	345.0	58,500	143,500	215
220	36.1	316.7	83,600	159,900	44.0	332.2	69,500	149,300	50.8	340.8	55,700	139,000	220
225	33.4	309.1	80,200	155,200	41.8	326.5	66,400	144,800	48.8	336.4	53,000	134,800	225
230	30.5	300.7	76,900	150,600	39.5	320.4	63,500	140,500	46.7	331.6	50,400	130,700	230
235	27.3	291.1	73,700	146,200	37.0	313.8	60,700	136,400	44.6	326.5	48,000	126,800	235
240	23.6	279.9	70,600	142,000	34.4	306.5	58,000	132,400	42.4	321.0	45,600	123,100	240
250	13.7	247.9	64,500	134,000	28.5	289.3	52,800	125,000	37.7	308.6	41,000	116,100	250
260					21.1	266.2	47,900	118,100	32.4	293.6	36,800	109,600	260
270					8.2	224.0	42,900	111,400	26.0	274.7	32,800	103,500	270
280									17.6	247.9	28,800	97,800	280

MLC650 VPC-MAX S-2

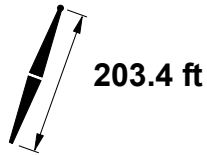
ASME B30.5



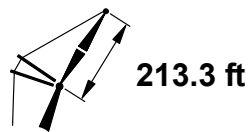
661,300 lb



360°



203.4 ft



213.3 ft

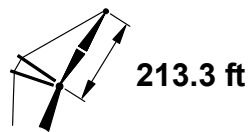
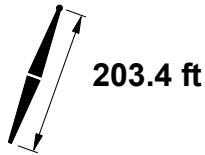
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	73.7	416.6	278,200	278,200									90
95	72.3	415.0	278,000	278,000									95
100	70.9	413.2	277,700	277,700	72.9	414.8	274,900	274,900					100
105	69.4	411.3	277,100	277,100	71.5	413.1	274,900	274,900					105
110	68.0	409.2	276,300	276,300	70.0	411.2	274,900	274,900					110
115	66.5	407.0	275,200	275,200	68.6	409.2	265,200	274,900					115
120	65.0	404.6	262,600	274,000	67.1	407.0	251,000	274,900					120
125	63.5	402.1	249,100	272,600	65.7	404.7	238,000	274,900	68.8	407.7	221,400	267,800	125
130	62.0	399.3	236,600	271,200	64.2	402.3	225,900	274,900	67.3	405.5	210,100	267,800	130
135	60.5	396.5	225,100	262,500	62.6	399.6	214,900	274,900	65.8	403.2	199,600	267,800	135
140	58.9	393.4	214,400	253,500	61.1	396.8	204,600	274,300	64.3	400.8	189,900	267,800	140
145	57.3	390.1	204,500	244,600	59.5	393.8	195,000	273,400	62.8	398.2	180,900	267,800	145
150	55.6	386.7	195,300	235,700	57.9	390.7	186,100	272,500	61.3	395.4	172,500	267,800	150
155	54.0	383.0	186,600	226,900	56.3	387.3	177,800	264,000	59.7	392.4	164,600	262,800	155
160	52.3	379.1	178,500	218,300	54.7	383.7	170,000	255,100	58.1	389.3	157,300	252,700	160
165	50.5	374.9	170,900	209,900	53.0	379.9	162,700	246,200	56.5	385.9	150,400	243,200	165
170	48.7	370.5	163,800	201,800	51.2	375.8	155,800	237,300	54.8	382.3	143,900	234,300	170
175	46.9	365.7	157,100	194,000	49.5	371.5	149,300	228,500	53.2	378.5	137,800	226,000	175
180	45.0	360.7	150,700	186,600	47.6	366.9	143,200	219,900	51.4	374.5	132,000	218,100	180
185	43.0	355.3	144,700	179,400	45.8	362.0	137,400	211,600	49.7	370.2	126,500	210,700	185
190	40.9	349.5	139,000	172,800	43.8	356.7	131,900	203,600	47.8	365.6	121,300	203,600	190
195	38.8	343.2	133,600	166,500	41.8	351.1	126,700	195,800	46.0	360.8	116,400	197,000	195
200	36.5	336.5	128,400	160,600	39.7	345.0	121,700	188,500	44.0	355.5	111,700	190,600	200
205	34.1	329.1	123,500	155,200	37.5	338.5	117,000	181,600	42.0	350.0	107,300	184,600	205
210	31.6	321.0	118,800	150,300	35.1	331.4	112,500	175,100	39.9	343.9	103,000	178,900	210
215	28.8	311.9	114,300	146,000	32.6	323.6	108,100	169,200	37.7	337.5	99,000	173,400	215
220	25.7	301.7	109,900	142,200	30.0	315.0	104,000	163,700	35.4	330.4	95,100	168,200	220
225	22.3	289.8	105,800	139,300	27.0	305.3	100,000	158,900	32.9	322.7	91,400	163,200	225
230	18.1	275.3	101,700	137,200	23.8	294.1	96,200	154,700	30.3	314.2	87,800	158,500	230
235	12.7	255.6	97,600	123,500	20.0	280.9	92,400	145,200	27.4	304.6	84,300	153,900	235
240					15.2	263.9	88,700	132,700	24.1	293.7	80,900	149,500	240
250									15.8	264.2	74,500	138,600	250
260													260
270													270
280													280
290													290
300													300

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



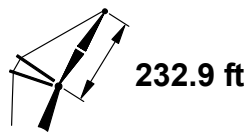
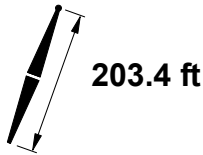
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160	63.5	395.3	136,400	237,100									160
165	62.0	392.6	130,100	228,100									165
170	60.4	389.7	124,300	219,700									170
175	58.9	386.6	118,800	211,800									175
180	57.2	383.4	113,500	204,300									180
185	55.6	379.9	108,600	197,300									185
190	53.9	376.2	103,900	190,600	59.4	382.2	86,900	177,900					190
195	52.2	372.3	99,500	184,300	57.9	379.0	83,000	172,000					195
200	50.5	368.1	95,300	178,300	56.2	375.6	79,200	166,300					200
205	48.7	363.7	91,300	172,600	54.6	372.0	75,600	160,900					205
210	46.8	358.9	87,500	167,200	52.9	368.2	72,200	155,800					210
215	44.9	353.9	83,800	162,000	51.2	364.1	68,900	150,900					215
220	43.0	348.5	80,300	157,100	49.4	359.8	65,800	146,200					220
225	40.9	342.7	77,000	152,400	47.5	355.1	62,800	141,800	53.3	362.1	49,000	131,500	225
230	38.7	336.4	73,700	147,900	45.7	350.2	59,900	137,500	51.6	358.1	46,500	127,500	230
235	36.5	329.6	70,700	143,600	43.7	344.9	57,200	133,500	49.9	353.9	44,000	123,600	235
240	34.1	322.2	67,700	139,400	41.7	339.3	54,500	129,500	48.0	349.3	41,700	120,000	240
250	28.7	305.1	62,000	131,600	37.3	326.6	49,500	122,200	44.2	339.3	37,300	113,000	250
260	22.2	282.9	56,700	124,400	32.5	311.7	44,900	115,400	40.1	327.8	33,200	106,600	260
270	12.6	248.5	51,500	117,600	26.9	293.2	40,500	109,100	35.6	314.4	29,300	100,700	270
280					19.7	268.6	36,200	103,200	30.6	298.3	25,700	95,100	280
290					6.9	222.1	31,800	97,400	24.5	278.1	22,200	89,900	290
300									16.3	249.4		85,000	300

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95	73.9	435.7	253,000	253,000									95
100	72.6	434.0	252,700	252,700									100
105	71.3	432.3	252,300	252,300									105
110	70.0	430.4	251,700	251,700	71.8	432.2	249,900	249,900					110
115	68.6	428.4	251,000	251,000	70.5	430.4	249,900	249,900					115
120	67.3	426.3	250,100	250,100	69.2	428.4	245,300	249,900					120
125	65.9	424.0	243,800	249,000	67.8	426.3	232,300	249,900					125
130	64.6	421.6	231,400	247,900	66.5	424.1	220,300	249,800	69.3	426.9	203,900	241,600	130
135	63.2	419.0	219,900	246,700	65.1	421.8	209,300	249,400	68.0	424.8	193,500	241,600	135
140	61.8	416.3	209,300	242,800	63.8	419.3	199,100	248,900	66.6	422.6	183,900	241,600	140
145	60.4	413.4	199,400	235,300	62.4	416.6	189,600	248,900	65.3	420.3	174,900	241,600	145
150	58.9	410.4	190,200	227,700	61.0	413.8	180,700	247,600	63.9	417.8	166,600	241,600	150
155	57.5	407.1	181,600	220,100	59.5	410.8	172,400	246,800	62.5	415.1	158,800	241,600	155
160	56.0	403.7	173,500	212,600	58.1	407.6	164,700	245,900	61.1	412.3	151,500	241,600	160
165	54.5	400.1	166,000	205,100	56.6	404.3	157,400	238,700	59.7	409.4	144,600	238,400	165
170	52.9	396.3	158,900	197,700	55.1	400.7	150,600	231,100	58.2	406.2	138,200	229,600	170
175	51.3	392.2	152,200	190,500	53.6	397.0	144,100	223,500	56.8	402.9	132,100	221,300	175
180	49.7	387.9	145,900	183,500	52.0	393.1	138,000	216,000	55.3	399.4	126,400	213,500	180
185	48.0	383.4	139,900	176,800	50.4	388.9	132,300	208,500	53.7	395.7	121,000	206,100	185
190	46.3	378.6	134,200	170,300	48.7	384.4	126,800	201,100	52.2	391.8	115,900	199,100	190
195	44.6	373.5	128,800	164,200	47.1	379.8	121,700	193,900	50.6	387.6	111,000	192,500	195
200	42.8	368.0	123,700	158,300	45.3	374.8	116,800	186,900	48.9	383.2	106,400	186,200	200
205	40.9	362.2	118,900	152,700	43.5	369.5	112,100	180,200	47.2	378.5	102,000	180,200	205
210	38.9	356.0	114,200	147,400	41.7	363.8	107,600	173,800	45.5	373.6	97,800	174,600	210
215	36.9	349.3	109,800	142,500	39.7	357.8	103,400	167,700	43.7	368.3	93,800	169,200	215
220	34.7	342.1	105,500	138,000	37.7	351.3	99,300	161,800	41.9	362.7	89,900	164,000	220
225	32.4	334.2	101,500	133,800	35.6	344.3	95,400	156,400	40.0	356.7	86,300	159,100	225
230	30.0	325.6	97,600	130,000	33.4	336.7	91,600	151,300	37.9	350.3	82,800	154,400	230
235	27.3	316.0	93,800	126,600	31.0	328.4	88,000	146,600	35.8	343.3	79,400	149,800	235
240	24.4	305.2	90,200	123,800	28.4	319.3	84,600	142,400	33.6	335.8	76,100	145,500	240
250	17.0	277.1	83,200	114,100	22.5	297.2	78,000	130,900	28.7	318.6	70,000	137,400	250
260					14.1	264.9	71,600	110,200	22.8	296.8	64,200	129,800	260
270									14.7	265.4	58,700	115,600	270
280													280
290													290
300													300
310													310
320													320

MLC650 VPC-MAX S-2

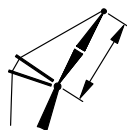
ASME B30.5



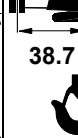
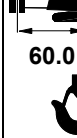
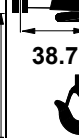
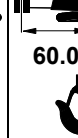
661,300 lb



203.4 ft



232.9 ft

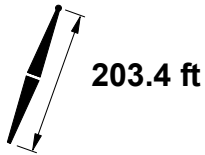
	 75°				 70°				 65°						
	 ft	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 ft	
95															95
100															100
105															105
110															110
115															115
120															120
125															125
130															130
135															135
140															140
145															145
150															150
155															155
160															160
165	64.6	414.8	123,700	222,900											165
170	63.2	412.3	117,900	214,500											170
175	61.8	409.5	112,400	206,700											175
180	60.3	406.6	107,300	199,300											180
185	58.9	403.6	102,400	192,300											185
190	57.4	400.3	97,800	185,700											190
195	55.9	396.9	93,400	179,400											195
200	54.4	393.3	89,300	173,500	59.5	399.1	72,600	161,100							200
205	52.9	389.5	85,300	167,800	58.0	396.0	69,000	155,700							205
210	51.3	385.4	81,600	162,500	56.5	392.6	65,700	150,700							210
215	49.7	381.1	78,000	157,400	55.0	389.1	62,500	145,800							215
220	48.0	376.6	74,500	152,500	53.5	385.3	59,400	141,200							220
225	46.3	371.8	71,200	147,800	51.9	381.4	56,500	136,800							225
230	44.6	366.7	68,100	143,400	50.3	377.2	53,700	132,600							230
235	42.7	361.2	65,100	139,100	48.7	372.7	51,000	128,600	53.9	379.3	37,400	118,500			235
240	40.8	355.4	62,200	135,000	47.0	368.0	48,400	124,800	52.3	375.4	35,100	114,800			240
250	36.8	342.5	56,700	127,300	43.4	357.7	43,600	117,500	49.1	366.9	30,800	108,000			250
260	32.4	327.4	51,600	120,200	39.6	346.0	39,100	110,800	45.7	357.3	26,800	101,700			260
270	27.3	309.1	46,800	113,600	35.5	332.4	34,800	104,600	42.1	346.5	23,100	95,900			270
280	21.0	285.6	42,200	107,500	30.9	316.5	30,900	98,800	38.2	334.2		90,400			280
290	11.5	248.7	37,700	101,600	25.5	296.9	27,100	93,400	33.9	319.8		85,300			290
300						18.6	270.8	23,400	88,300	29.0	302.8		80,600		300
310						5.7	219.5		83,300	23.2	281.3		76,100		310
320										15.3	250.7		71,800		320

MLC650 VPC-MAX S-2

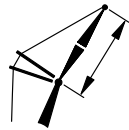
ASME B30.5



661,300 lb



203.4 ft

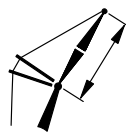


252.6 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100	74.0	454.7	218,500	218,500									100
105	72.8	453.1	218,100	218,100									105
110	71.6	451.4	217,600	217,600									110
115	70.4	449.6	217,000	217,000	72.1	451.3	215,200	215,200					115
120	69.2	447.6	216,300	216,300	70.9	449.5	215,200	215,200					120
125	67.9	445.6	215,500	215,500	69.7	447.6	215,200	215,200					125
130	66.7	443.4	214,600	214,600	68.4	445.6	215,000	215,000					130
135	65.4	441.1	213,600	213,600	67.2	443.5	205,900	214,700	69.8	446.1	189,800	207,300	135
140	64.2	438.6	206,100	212,600	66.0	441.2	195,700	214,300	68.6	444.1	180,200	207,300	140
145	62.9	436.0	196,200	211,500	64.7	438.8	186,200	213,800	67.3	441.9	171,200	207,300	145
150	61.6	433.3	187,000	210,300	63.4	436.2	177,300	213,300	66.1	439.7	162,900	207,300	150
155	60.3	430.4	178,400	205,400	62.1	433.6	169,100	212,600	64.8	437.3	155,200	207,300	155
160	59.0	427.3	170,400	199,300	60.8	430.7	161,400	211,900	63.6	434.8	147,900	207,300	160
165	57.6	424.1	162,900	193,200	59.5	427.7	154,100	211,200	62.3	432.1	141,100	207,300	165
170	56.3	420.7	155,800	187,000	58.2	424.6	147,300	210,400	61.0	429.3	134,700	207,300	170
175	54.9	417.2	149,100	181,000	56.8	421.3	140,900	209,500	59.7	426.3	128,600	207,300	175
180	53.4	413.4	142,800	175,000	55.4	417.8	134,800	203,600	58.3	423.2	122,900	207,300	180
185	52.0	409.5	136,900	169,100	54.0	414.1	129,100	197,500	57.0	419.9	117,600	203,100	185
190	50.5	405.3	131,200	163,300	52.6	410.3	123,700	191,400	55.6	416.4	112,500	196,100	190
195	49.0	400.9	125,900	157,800	51.1	406.2	118,500	185,300	54.2	412.8	107,600	189,600	195
200	47.5	396.3	120,800	152,300	49.6	401.9	113,700	179,300	52.8	409.0	103,000	183,300	200
205	45.9	391.4	116,000	147,100	48.1	397.4	109,000	173,400	51.3	404.9	98,600	177,400	205
210	44.3	386.3	111,400	142,000	46.6	392.6	104,600	167,600	49.8	400.6	94,500	171,700	210
215	42.6	380.8	107,000	137,300	44.9	387.6	100,400	162,000	48.3	396.1	90,500	166,400	215
220	40.8	375.0	102,800	132,700	43.3	382.2	96,300	156,600	46.7	391.4	86,700	161,200	220
225	39.0	368.8	98,700	128,400	41.6	376.6	92,500	151,200	45.1	386.4	83,100	156,300	225
230	37.2	362.2	94,900	124,400	39.8	370.5	88,800	146,200	43.5	381.1	79,600	151,600	230
235	35.2	355.1	91,200	120,600	37.9	364.1	85,200	141,400	41.8	375.4	76,300	147,200	235
240	33.1	347.4	87,600	117,100	36.0	357.2	81,800	136,900	40.0	369.5	73,100	142,900	240
250	28.5	330.0	80,900	110,900	31.8	341.8	75,400	128,700	36.2	356.2	67,000	134,800	250
260	23.1	308.4	74,600	106,200	27.1	323.3	69,400	121,800	32.1	340.9	61,400	127,300	260
270	16.0	278.6	68,700	95,600	21.3	300.0	63,700	110,300	27.4	322.6	56,200	120,400	270
280					13.2	265.6	58,200	92,300	21.7	299.6	51,200	114,000	280
290									13.8	266.3	46,400	97,200	290
300													300
310													310
320													320
330													330
340													340

MLC650 VPC-MAX S-2

ASME B30.5



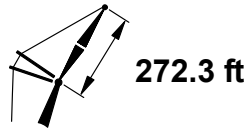
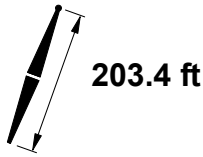
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175	64.2	431.8	108,500	192,000								175
180	62.9	429.2	103,400	192,000								180
185	61.6	426.5	98,600	189,000								185
190	60.3	423.6	94,000	182,400								190
195	58.9	420.5	89,700	176,200								195
200	57.6	417.3	85,500	170,300								200
205	56.2	413.9	81,600	164,700								205
210	54.8	410.4	77,900	159,400	59.5	416.1	61,600	147,400				210
215	53.4	406.6	74,300	154,300	58.1	412.9	58,500	142,600				215
220	52.0	402.7	70,900	149,500	56.8	409.6	55,500	138,000				220
225	50.5	398.5	67,700	144,800	55.4	406.1	52,600	133,600				225
230	49.0	394.1	64,600	140,400	54.0	402.4	49,800	129,500				230
235	47.4	389.5	61,600	136,200	52.5	398.6	47,200	125,500				235
240	45.9	384.6	58,700	132,100	51.1	394.5	44,600	121,700				240
250	42.5	374.0	53,300	124,500	48.0	385.7	39,800	114,500	52.9	392.6	104,800	250
260	39.0	361.9	48,300	117,500	44.9	375.8	35,400	107,900	50.0	384.3	98,500	260
270	35.2	348.2	43,600	111,000	41.5	364.8	31,300	101,700	46.9	375.1	92,800	270
280	30.9	332.2	39,300	104,900	37.8	352.3	27,400	96,000	43.6	364.8	87,400	280
290	25.9	312.9	35,100	99,200	33.9	337.9	23,800	90,700	40.2	353.3	82,400	290
300	19.9	288.0	31,200	93,900	29.4	321.0	20,400	85,700	36.4	340.2	77,700	300
310	10.6	248.6	27,200	88,800	24.2	300.3		81,000	32.3	325.0	73,300	310
320					17.5	272.7		76,500	27.6	306.9	69,200	320
330					4.4	215.6		72,100	22.0	284.2	65,200	330
340									14.3	251.8	61,400	340

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



85°					83°					80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft	
105	74.1	473.8	188,500	188,500									105	
110	73.0	472.2	187,700	187,700									110	
115	71.9	470.5	187,200	187,200									115	
120	70.7	468.7	187,000	187,000	72.3	470.4	185,400	185,400					120	
125	69.6	466.8	186,000	186,000	71.2	468.6	185,300	185,300					125	
130	68.5	464.8	185,300	185,300	70.1	466.8	185,100	185,100					130	
135	67.3	462.7	184,500	184,500	69.0	464.8	185,100	185,100					135	
140	66.2	460.5	183,700	183,700	67.8	462.7	184,600	184,600					140	
145	65.0	458.1	182,800	182,800	66.7	460.5	184,000	184,100	69.1	463.3	168,700	179,200	145	
150	63.8	455.6	181,900	181,900	65.5	458.2	175,200	183,700	67.9	461.2	160,500	179,200	150	
155	62.7	453.0	176,500	180,900	64.3	455.8	166,900	183,200	66.8	459.0	152,700	179,200	155	
160	61.5	450.2	168,500	179,900	63.1	453.2	159,200	182,600	65.6	456.7	145,500	179,200	160	
165	60.2	447.3	161,000	178,900	62.0	450.5	152,000	181,900	64.5	454.3	138,700	179,200	165	
170	59.0	444.3	153,900	175,200	60.7	447.7	145,200	181,300	63.3	451.8	132,400	179,200	170	
175	57.8	441.1	147,300	170,400	59.5	444.7	138,900	180,600	62.1	449.1	126,300	179,200	175	
180	56.5	437.7	141,000	165,500	58.3	441.6	132,800	179,900	60.9	446.2	120,700	179,200	180	
185	55.2	434.2	135,100	160,600	57.0	438.3	127,100	179,100	59.7	443.3	115,300	179,200	185	
190	53.9	430.5	129,400	155,800	55.7	434.8	121,700	178,300	58.4	440.2	110,300	179,200	190	
195	52.6	426.7	124,100	151,000	54.4	431.2	116,600	175,100	57.2	436.9	105,500	179,200	195	
200	51.2	422.6	119,100	146,200	53.1	427.4	111,800	170,200	55.9	433.5	100,900	178,900	200	
205	49.8	418.4	114,300	141,700	51.8	423.5	107,100	165,400	54.6	429.9	96,500	175,400	205	
210	48.4	413.9	109,700	137,100	50.4	419.3	102,700	160,500	53.3	426.1	92,400	169,800	210	
215	47.0	409.2	105,300	132,700	49.0	414.9	98,500	155,700	51.9	422.2	88,500	164,500	215	
220	45.5	404.2	101,100	128,500	47.6	410.3	94,500	150,900	50.6	418.0	84,700	159,400	220	
225	44.0	399.0	97,100	124,400	46.1	405.5	90,700	146,300	49.2	413.7	81,100	154,500	225	
230	42.4	393.5	93,300	120,500	44.6	400.4	87,000	141,800	47.7	409.1	77,700	149,900	230	
235	40.8	387.7	89,700	116,700	43.1	395.0	83,500	137,300	46.3	404.3	74,400	145,400	235	
240	39.1	381.5	86,200	113,100	41.5	389.3	80,200	133,100	44.8	399.2	71,200	141,200	240	
250	35.6	368.0	79,500	106,500	38.1	376.9	73,800	125,000	41.7	388.2	65,200	133,100	250	
260	31.7	352.4	73,400	100,700	34.5	362.8	67,900	117,600	38.3	375.9	59,700	125,700	260	
270	27.3	334.0	67,700	95,900	30.5	346.5	62,400	111,200	34.7	361.9	54,600	118,900	270	
280	22.1	311.3	62,300	92,300	25.9	327.1	57,300	105,700	30.7	345.7	49,800	112,500	280	
290	15.1	279.9	57,100	80,700	20.3	302.5	52,400	93,900	26.1	326.5	45,200	106,600	290	
300					12.3	266.2	47,600	77,900	20.6	302.3	40,900	98,100	300	
310									12.9	267.0	36,700	82,400	310	
320													320	
330													330	
340													340	
350													350	
360													360	

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



203.4 ft



272.3 ft

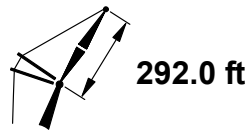
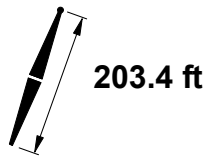
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180	65.0	451.3	100,700	165,400								180
185	63.8	448.8	96,000	165,400								185
190	62.6	446.2	91,400	165,400								190
195	61.4	443.4	87,100	165,400								195
200	60.2	440.5	83,000	165,400								200
205	59.0	437.5	79,100	162,600								205
210	57.7	434.3	75,400	157,300								210
215	56.5	431.0	71,900	152,200								215
220	55.2	427.4	68,600	147,400	59.5	433.1	52,800	135,700				220
225	53.9	423.8	65,300	142,800	58.2	429.9	49,900	131,400				225
230	52.6	419.9	62,300	138,400	57.0	426.6	47,200	127,300				230
235	51.2	415.8	59,300	134,200	55.7	423.2	44,600	123,300				235
240	49.8	411.6	56,500	130,200	54.4	419.5	42,100	119,500				240
250	47.0	402.4	51,100	122,700	51.7	411.8	37,400	112,400				250
260	44.0	392.2	46,200	115,700	48.9	403.2	33,000	105,800	53.4	409.7	96,300	260
270	40.8	380.9	41,600	109,200	46.0	393.7	28,900	99,800	50.7	401.7	90,600	270
280	37.4	368.2	37,400	103,200	43.0	383.2	25,200	94,100	47.9	392.8	85,300	280
290	33.7	353.6	33,300	97,600	39.7	371.5	21,600	88,900	44.9	382.9	80,400	290
300	29.5	336.8	29,600	92,400	36.3	358.2		83,900	41.8	372.0	75,800	300
310	24.8	316.5	26,000	87,500	32.4	343.1		79,300	38.5	359.7	71,400	310
320	18.9	290.3	22,500	82,800	28.1	325.3		75,000	34.9	345.9	67,400	320
330	9.8	248.2		78,300	23.1	303.5		70,900	30.9	329.8	63,500	330
340					16.6	274.3		67,000	26.4	310.8	59,900	340
350					2.6	208.8		63,000	21.0	286.9	56,400	350
360									13.4	252.6	53,100	360

MLC650 VPC-MAX S-2

ASME B30.5



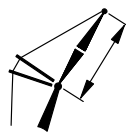
661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
110	74.2	492.8	177,000	177,000									110
115	73.1	491.3	176,500	176,500									115
120	72.1	489.6	175,900	175,900									120
125	71.1	487.9	175,300	175,300	72.5	489.4	174,200	174,200					125
130	70.0	486.0	174,600	174,600	71.5	487.7	174,000	174,000					130
135	69.0	484.0	173,900	173,900	70.4	485.9	173,700	173,700					135
140	67.9	482.0	173,000	173,000	69.4	484.0	173,400	173,400					140
145	66.8	479.8	172,200	172,200	68.3	482.0	173,000	173,000					145
150	65.7	477.5	171,300	171,300	67.3	479.9	167,100	172,500	69.5	482.5	151,700	167,800	150
155	64.7	475.1	168,900	170,400	66.2	477.6	158,900	172,000	68.4	480.5	144,100	167,800	155
160	63.6	472.6	160,900	169,400	65.1	475.3	151,200	171,400	67.4	478.3	136,900	167,800	160
165	62.4	469.9	153,400	168,400	64.0	472.8	144,100	170,800	66.3	476.1	130,200	167,800	165
170	61.3	467.2	146,400	167,300	62.9	470.2	137,300	170,100	65.2	473.8	123,800	167,800	170
175	60.2	464.3	139,700	164,800	61.8	467.5	131,000	169,400	64.1	471.3	117,900	167,800	175
180	59.0	461.2	133,500	160,500	60.7	464.6	125,000	168,600	63.0	468.7	112,300	167,800	180
185	57.9	458.1	127,600	156,100	59.5	461.7	119,300	167,900	61.9	466.0	107,000	167,600	185
190	56.7	454.7	122,000	151,800	58.4	458.5	113,900	167,100	60.8	463.2	102,000	167,400	190
195	55.5	451.3	116,700	147,400	57.2	455.3	108,900	166,200	59.6	460.2	97,200	167,000	195
200	54.3	447.6	111,700	143,100	56.0	451.9	104,000	165,400	58.5	457.1	92,700	166,700	200
205	53.1	443.8	106,900	138,900	54.8	448.3	99,500	161,500	57.3	453.9	88,400	166,300	205
210	51.8	439.9	102,300	134,700	53.6	444.6	95,100	157,200	56.1	450.5	84,300	163,500	210
215	50.5	435.7	98,000	130,500	52.3	440.7	90,900	152,800	54.9	447.0	80,400	158,200	215
220	49.2	431.4	93,800	126,500	51.1	436.6	86,900	148,600	53.7	443.2	76,700	153,100	220
225	47.9	426.8	89,900	122,600	49.8	432.3	83,100	144,200	52.5	439.4	73,100	148,300	225
230	46.6	422.1	86,100	118,800	48.5	427.9	79,500	140,100	51.2	435.3	69,700	143,700	230
235	45.2	417.1	82,500	115,100	47.1	423.2	76,000	135,900	49.9	431.1	66,400	139,300	235
240	43.7	411.8	79,000	111,600	45.7	418.3	72,700	131,900	48.6	426.6	63,300	135,000	240
250	40.8	400.5	72,400	104,900	42.9	407.7	66,400	124,100	45.9	417.1	57,400	127,100	250
260	37.6	387.8	66,400	98,900	39.9	396.0	60,600	116,800	43.0	406.6	52,000	119,700	260
270	34.2	373.5	60,700	93,500	36.6	382.9	55,200	110,000	40.0	395.0	46,900	113,000	270
280	30.4	357.2	55,400	88,700	33.1	368.1	50,100	104,000	36.8	381.9	42,200	106,600	280
290	26.2	337.9	50,500	84,900	29.2	351.0	45,400	98,000	33.3	367.2	37,800	100,800	290
300	21.1	314.1	45,800	75,900	24.8	330.6	40,900	86,500	29.5	350.3	33,600	95,300	300
310	14.3	281.0	41,200	62,500	19.4	304.9	36,700	74,400	25.0	330.1	29,700	90,100	310
320					11.6	266.4	32,500	60,000	19.7	304.7	25,900	78,300	320
330									12.1	267.5	22,200	64,200	330
340													340
350													350
360													360
370													370
380													380

MLC650 VPC-MAX S-2

ASME B30.5



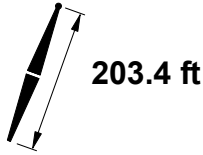
	75°				70°				65°			
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190	64.6	468.3	82,300	154,500								190
195	63.5	465.8	78,000	154,500								195
200	62.4	463.2	74,000	154,500								200
205	61.3	460.4	70,200	154,500								205
210	60.2	457.5	66,500	150,400								210
215	59.0	454.5	63,100	145,400								215
220	57.9	451.3	59,800	140,600								220
225	56.7	448.0	56,600	136,100								225
230	55.5	444.5	53,600	131,800	59.5	450.0	37,800	120,100				230
235	54.3	440.9	50,700	127,600	58.3	446.9	35,300	116,200				235
240	53.0	437.1	47,900	123,600	57.1	443.6	32,800	112,500				240
250	50.5	428.9	42,700	116,100	54.7	436.6	28,200	105,400				250
260	47.9	420.0	37,800	109,200	52.3	429.0	24,000	99,000				260
270	45.1	410.3	33,300	102,800	49.7	420.6	20,000	93,000	53.8	426.8	83,400	270
280	42.3	399.5	29,100	96,900	47.0	411.5		87,400	51.3	418.9	78,200	280
290	39.2	387.5	25,200	91,400	44.3	401.4		82,200	48.7	410.3	73,400	290
300	35.9	374.1	21,600	86,200	41.3	390.3		77,400	46.0	400.8	68,800	300
310	32.3	358.8		81,400	38.2	377.9		72,800	43.2	390.4	64,600	310
320	28.3	341.1		76,800	34.8	363.9		68,600	40.2	378.8	60,600	320
330	23.7	319.8		72,500	31.1	348.0		64,600	37.0	365.9	56,800	330
340	18.0	292.3		68,400	27.0	329.3		60,800	33.5	351.3	53,300	340
350	9.0	247.6		64,500	22.1	306.5		57,200	29.7	334.4	49,900	350
360					15.8	275.8		53,700	25.3	314.5	46,700	360
370									20.0	289.4	43,700	370
380									12.6	253.3	40,700	380

MLC650 VPC-MAX S-2

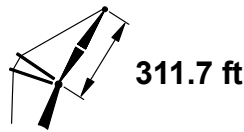
ASME B30.5



661,300 lb



203.4 ft



311.7 ft

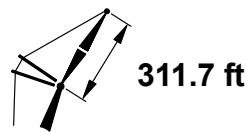
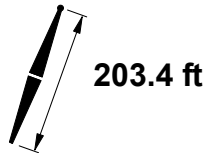
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.2	511.9	154,200	154,200									115
120	73.3	510.3	153,700	153,700									120
125	72.3	508.7	153,100	153,100									125
130	71.3	507.0	152,500	152,500	72.7	508.5	151,300	151,300					130
135	70.3	505.2	151,800	151,800	71.7	506.8	150,900	150,900					135
140	69.4	503.2	151,000	151,000	70.8	505.1	150,700	150,700					140
145	68.4	501.2	150,200	150,200	69.8	503.2	150,200	150,200					145
150	67.4	499.1	149,300	149,300	68.8	501.2	149,700	149,700					150
155	66.4	496.9	148,500	148,500	67.8	499.1	149,300	149,300	69.9	501.6	141,800	145,200	155
160	65.4	494.6	147,700	147,700	66.8	497.0	148,700	148,700	68.9	499.7	134,700	145,100	160
165	64.3	492.1	146,700	146,700	65.8	494.7	142,100	148,200	67.9	497.6	128,000	145,100	165
170	63.3	489.6	144,600	145,900	64.8	492.3	135,400	147,600	66.9	495.5	121,700	145,000	170
175	62.3	486.9	138,000	144,900	63.7	489.8	129,100	146,900	65.9	493.2	115,800	144,900	175
180	61.2	484.1	131,800	144,000	62.7	487.2	123,100	146,200	64.9	490.8	110,200	144,700	180
185	60.1	481.2	125,900	143,100	61.6	484.4	117,500	145,500	63.8	488.3	104,900	144,500	185
190	59.1	478.2	120,300	141,700	60.6	481.6	112,100	144,800	62.8	485.7	99,900	144,200	190
195	58.0	475.0	115,000	138,100	59.5	478.6	107,000	144,100	61.8	483.0	95,100	143,900	195
200	56.9	471.7	110,000	134,500	58.4	475.5	102,200	143,300	60.7	480.2	90,600	143,500	200
205	55.8	468.3	105,200	130,800	57.3	472.3	97,700	142,600	59.6	477.2	86,400	143,200	205
210	54.6	464.7	100,700	127,300	56.2	468.9	93,300	141,800	58.5	474.1	82,300	142,800	210
215	53.5	461.0	96,400	123,700	55.1	465.4	89,200	141,000	57.5	470.9	78,400	142,300	215
220	52.3	457.1	92,200	120,300	54.0	461.7	85,200	139,700	56.3	467.5	74,700	141,900	220
225	51.1	453.0	88,300	116,800	52.8	457.9	81,400	136,200	55.2	464.0	71,200	141,400	225
230	49.9	448.8	84,500	113,400	51.6	453.9	77,800	132,700	54.1	460.4	67,800	140,900	230
235	48.7	444.4	80,900	110,100	50.4	449.7	74,300	129,100	52.9	456.5	64,500	137,600	235
240	47.5	439.7	77,400	106,900	49.2	445.4	71,000	125,600	51.8	452.6	61,400	133,400	240
250	44.9	429.9	70,900	100,700	46.7	436.1	64,800	118,800	49.3	444.1	55,600	125,500	250
260	42.2	419.0	64,900	94,900	44.1	425.9	59,000	112,100	46.8	434.9	50,200	118,200	260
270	39.3	407.1	59,300	89,500	41.3	414.8	53,600	105,900	44.2	424.8	45,200	111,400	270
280	36.2	393.8	54,100	84,700	38.4	402.5	48,600	100,000	41.5	413.7	40,500	105,100	280
290	32.9	378.8	49,200	80,400	35.3	388.7	44,000	94,600	38.6	401.4	36,100	99,300	290
300	29.3	361.7	44,600	76,600	31.9	373.2	39,600	89,700	35.5	387.8	32,100	93,800	300
310	25.1	341.5	40,300	73,500	28.1	355.3	35,400	83,000	32.1	372.3	28,200	88,700	310
320	20.2	316.6	36,200	63,300	23.8	334.0	31,500	72,800	28.3	354.6	24,600	83,900	320
330	13.6	281.9	32,100	51,300	18.5	307.0	27,800	62,100	24.1	333.5	21,100	76,300	330
340					10.8	266.5	24,000	49,100	18.8	306.9		65,700	340
350									11.4	267.7		53,000	350
360													360
370													370
380													380
390													390
400													400

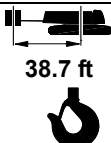
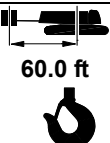
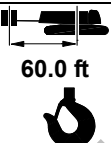
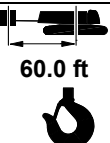
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



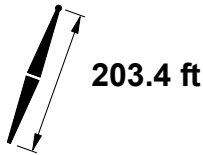
	 75°				 70°				 65°				
 ft	 °	 ft	 38.7 ft  lb	 60.0 ft  lb	 °	 ft	 60.0 ft  lb	 °	 ft	 60.0 ft  lb	 ft		
115											115		
120											120		
125											125		
130											130		
135											135		
140											140		
145											145		
150											150		
155											155		
160											160		
165											165		
170											170		
175											175		
180											180		
185											185		
190											190		
195											195		
200	64.3	485.4	71,600	133,100							200		
205	63.3	482.8	67,800	133,100							205		
210	62.2	480.1	64,200	133,100							210		
215	61.2	477.4	60,800	133,100							215		
220	60.1	474.5	57,500	133,100							220		
225	59.0	471.4	54,300	133,100							225		
230	58.0	468.3	51,300	129,900							230		
235	56.9	465.0	48,500	125,700							235		
240	55.7	461.5	45,700	121,800	59.5	467.0	110,400				240		
250	53.5	454.2	40,500	114,300	57.3	460.6	103,500				250		
260	51.1	446.2	35,700	107,500	55.0	453.7	97,000				260		
270	48.7	437.6	31,300	101,100	52.7	446.2	91,100				270		
280	46.2	428.1	27,100	95,200	50.4	438.0	85,600	54.2	443.9	76,200	280		
290	43.5	417.8	23,300	89,700	47.9	429.1	80,400	51.9	436.2	71,400	290		
300	40.7	406.4		84,600	45.3	419.4	75,600	49.5	427.8	66,900	300		
310	37.8	393.8		79,800	42.7	408.7	71,100	47.0	418.6	62,700	310		
320	34.6	379.7		75,300	39.8	397.0	66,900	44.4	408.5	58,700	320		
330	31.1	363.7		71,100	36.8	383.9	62,900	41.6	397.5	55,000	330		
340	27.3	345.2		67,100	33.5	369.3	59,200	38.7	385.3	51,500	340		
350	22.8	322.9		63,300	30.0	352.6	55,600	35.6	371.7	48,200	350		
360	17.2	294.1		59,600	25.9	333.1	52,300	32.3	356.4	45,100	360		
370	8.2	246.6		53,400	21.2	309.3	49,100	28.6	338.8	42,100	370		
380					15.0	277.1	46,000	24.3	317.9	39,300	380		
390								19.1	291.8	36,500	390		
400								11.9	253.7	33,800	400		

MLC650 VPC-MAX S-2

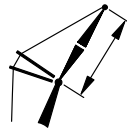
ASME B30.5



661,300 lb



203.4 ft



331.4 ft

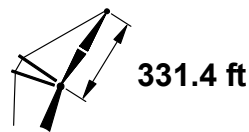
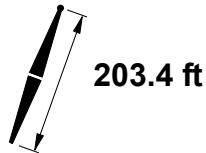
	85°				83°				80°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
120	74.3	530.9	133,200	133,200									120
125	73.4	529.4	132,600	132,600									125
130	72.5	527.8	132,000	132,000									130
135	71.6	526.1	131,300	131,300	72.9	527.6	130,400	130,400					135
140	70.6	524.3	130,600	130,600	71.9	525.9	130,000	130,000					140
145	69.7	522.4	129,900	129,900	71.0	524.2	129,600	129,600					145
150	68.8	520.4	129,100	129,100	70.1	522.3	129,100	129,100					150
155	67.9	518.4	128,400	128,400	69.2	520.4	128,600	128,600					155
160	66.9	516.2	127,600	127,600	68.2	518.4	128,100	128,100					160
165	66.0	514.0	126,800	126,800	67.3	516.3	128,100	128,100	69.3	518.9	124,300	124,300	165
170	65.0	511.6	125,900	125,900	66.4	514.0	126,900	126,900	68.3	516.9	118,000	124,100	170
175	64.0	509.1	125,100	125,100	65.4	511.7	125,600	126,300	67.4	514.8	112,100	124,000	175
180	63.1	506.6	124,300	124,300	64.4	509.3	119,700	125,700	66.5	512.5	106,500	123,800	180
185	62.1	503.9	122,600	123,400	63.5	506.8	114,000	125,000	65.5	510.2	101,300	123,500	185
190	61.1	501.1	117,100	122,600	62.5	504.1	108,700	124,400	64.5	507.8	96,300	123,200	190
195	60.1	498.2	111,800	121,700	61.5	501.4	103,700	123,700	63.6	505.3	91,500	122,900	195
200	59.1	495.2	106,800	120,900	60.5	498.5	98,900	123,000	62.6	502.7	87,100	122,500	200
205	58.1	492.0	102,000	120,000	59.5	495.6	94,300	122,300	61.6	500.0	82,800	122,100	205
210	57.0	488.7	97,500	118,200	58.5	492.5	90,000	121,600	60.6	497.1	78,700	121,700	210
215	56.0	485.3	93,200	115,300	57.5	489.2	85,800	120,900	59.6	494.1	74,900	121,300	215
220	54.9	481.8	89,100	112,300	56.4	485.9	81,900	120,200	58.6	491.1	71,200	120,800	220
225	53.9	478.1	85,100	109,400	55.4	482.4	78,100	119,400	57.6	487.9	67,700	120,400	225
230	52.8	474.3	81,400	106,500	54.3	478.8	74,500	118,700	56.5	484.5	64,300	119,900	230
235	51.7	470.3	77,700	103,700	53.2	475.0	71,000	118,000	55.5	481.0	61,100	119,500	235
240	50.5	466.1	74,300	100,800	52.1	471.1	67,700	117,300	54.4	477.4	58,000	119,000	240
250	48.2	457.3	67,800	95,300	49.9	462.8	61,500	111,700	52.2	469.8	52,200	118,000	250
260	45.8	447.8	61,800	90,100	47.5	453.8	55,800	106,000	50.0	461.5	46,800	115,400	260
270	43.3	437.3	56,200	85,100	45.1	443.9	50,400	100,400	47.7	452.5	41,800	108,700	270
280	40.7	425.9	51,000	80,500	42.6	433.3	45,500	95,100	45.3	442.8	37,200	102,500	280
290	38.0	413.4	46,200	76,200	39.9	421.5	40,900	90,100	42.7	432.1	32,900	96,600	290
300	35.0	399.5	41,700	72,200	37.1	408.6	36,500	85,300	40.1	420.5	28,800	91,200	300
310	31.8	383.9	37,400	68,700	34.1	394.2	32,400	81,000	37.3	407.6	25,000	86,100	310
320	28.2	366.0	33,400	65,800	30.8	378.0	28,600	76,700	34.2	393.3	21,400	81,400	320
330	24.2	345.0	29,600	60,000	27.1	359.4	25,000	68,300	31.0	377.2		76,900	330
340	19.4	319.0	25,900	50,600	22.9	337.2	21,500	59,200	27.3	358.7		71,400	340
350	12.9	282.6	22,300	39,700	17.7	309.0		49,600	23.2	336.7		62,400	350
360					10.2	266.3		37,700	18.1	309.0		52,900	360
370									10.7	267.7		41,400	370
380													380
390													390
400													400
410													410
420													420
425													425

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



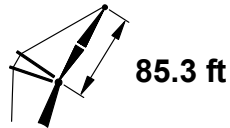
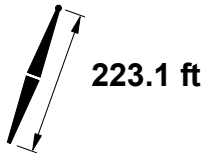
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205	65.0	504.8	63,900	113,000								205
210	64.0	502.4	60,300	113,000								210
215	63.1	499.8	56,900	113,000								215
220	62.1	497.1	53,700	113,000								220
225	61.1	494.3	50,500	113,000								225
230	60.1	491.4	47,500	113,000								230
235	59.1	488.4	44,700	113,000								235
240	58.1	485.2	42,000	113,000								240
250	56.0	478.5	36,800	111,300	59.5	483.9	100,300					250
260	53.8	471.3	32,100	104,500	57.4	477.6	93,900					260
270	51.6	463.5	27,700	98,200	55.3	470.7	88,000					270
280	49.4	455.0	23,600	92,400	53.2	463.3	82,500					280
290	47.0	445.8		86,900	50.9	455.3	77,400	54.5	461.0	68,200		290
300	44.6	435.9		81,800	48.7	446.6	72,700	52.4	453.4	63,800		300
310	42.0	425.0		77,100	46.3	437.2	68,200	50.1	445.1	59,600		310
320	39.3	413.0		72,600	43.8	427.0	64,000	47.8	436.2	55,700		320
330	36.5	399.8		68,400	41.2	415.7	60,100	45.4	426.5	52,000		330
340	33.4	385.1		64,400	38.5	403.4	56,400	42.9	415.9	48,600		340
350	30.0	368.4		60,700	35.5	389.8	52,900	40.2	404.3	45,300		350
360	26.3	349.1		57,100	32.4	374.5	49,600	37.4	391.5	42,200		360
370	21.9	325.9		53,700	28.9	357.1	46,400	34.4	377.3	39,300		370
380	16.4	295.8		50,500	25.0	336.7	43,400	31.1	361.3	36,500		380
390	7.5	245.2		41,800	20.4	311.9	40,500	27.5	342.9	33,800		390
400					14.3	278.2	37,700	23.4	321.2	31,300		400
410								18.4	293.9	28,800		410
420								11.2	253.8	26,400		420
425								3.9	211.9	25,100		425

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



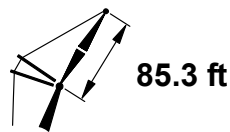
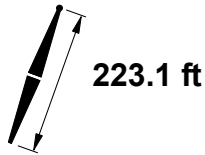
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55	74.3	313.7	626,500 d	750,500 d									55
60	70.7	311.8	565,800 c	726,500 c									60
65	67.1	309.6	515,100 c	701,300 c	72.7	312.0	493,200 c	739,700 c					65
70	63.3	306.9	472,100 c	675,700 c	69.1	309.9	452,000 c	716,900 c					70
75	59.3	303.9	435,200 b	650,400 b	65.4	307.5	416,600 c	676,700 c					75
80	55.2	300.3	403,100 b	626,100 b	61.5	304.7	385,900 b	627,200 b					80
85	50.8	296.1	374,900	596,800	57.5	301.4	358,900 b	584,100 b	66.6	306.4	334,900 c	565,300 c	85
90	46.1	291.2	350,000	558,200	53.3	297.5	335,100 b	546,300 b	62.7	303.7	312,500 b	528,600 b	90
95	41.0	285.3	327,700	524,000	48.8	293.0	313,800	512,800	58.8	300.6	292,700 b	496,200 b	95
100	35.1	278.2	307,600	493,500	43.9	287.7	294,600	483,000	54.6	296.9	274,800 b	467,300 b	100
105	28.1	269.0	289,300	435,900	38.4	281.4	277,300	456,200	50.2	292.6	258,700	441,400	105
110	18.5	255.5	272,300	354,700	32.2	273.5	261,400	432,000	45.4	287.6	244,000	418,000	110
115					24.3	262.9	246,700	410,000	40.2	281.6	230,500	396,700	115
120					11.1	243.8	232,400	317,200	34.2	274.3	218,100	377,300	120
125									27.0	264.7	206,500	359,500	125
130									16.6	250.1	195,300	343,000	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-2

ASME B30.5



661,300 lb



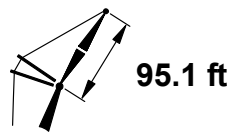
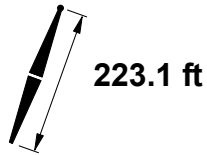
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
55													55
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110	62.0	298.6	214,400 b	395,000 b									110
115	58.0	295.4	202,500 b	374,900 b									115
120	53.7	291.6	191,600 b	356,600 b									120
125	49.3	287.2	181,600	339,800									125
130	44.4	282.0	172,300	324,400									130
135	39.1	275.7	163,600	310,100	56.7	288.2	140,700	292,400					135
140	32.9	268.1	155,500	296,900	52.5	284.2	133,700	280,000					140
145	25.3	257.9	147,700	284,600	47.9	279.6	127,100	268,400					145
150	13.4	240.8	139,900	272,800	42.9	274.1	120,900	257,700					150
155					37.4	267.5	115,000	247,600	55.0	278.9	95,900	232,900	155
160					30.9	259.2	109,400	238,100	50.6	274.7	91,200	224,100	160
165					22.5	247.9	103,900	229,100	45.9	269.7	86,700	215,700	165
170									40.7	263.8	82,500	207,900	170
175									34.8	256.6	78,400	200,400	175
180									27.7	247.3	74,300	193,300	180
185									17.8	233.4	70,200	186,500	185

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



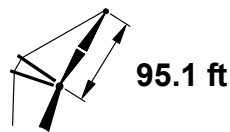
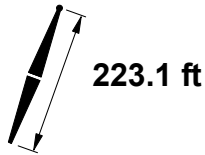
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	72.8	322.3	563,100 c	701,300 c									60
65	69.6	320.4	512,500 c	679,200 c									65
70	66.3	318.1	469,600 b	656,100 b	71.4	320.6	449,100 c	693,400 c					70
75	62.9	315.4	432,800 b	632,900 b	68.1	318.5	413,900 b	669,900 b					75
80	59.4	312.3	400,800 b	610,000 b	64.8	316.0	383,200 b	623,700 b					80
85	55.7	308.8	372,800	588,200	61.3	313.2	356,400 b	580,900 b	69.2	317.3	331,800 b	561,800 b	85
90	51.8	304.8	348,000	555,400	57.7	309.9	332,600 b	543,300 b	65.8	314.9	309,600 b	525,400 b	90
95	47.7	300.1	325,900	521,400	54.0	306.1	311,500	510,000	62.4	312.2	289,800 b	493,100 b	95
100	43.3	294.7	306,000	491,000	50.0	301.8	292,500	480,300	58.9	309.1	272,100 b	464,400 b	100
105	38.4	288.4	288,000	463,800	45.8	296.9	275,300	453,700	55.2	305.5	256,000	438,600	105
110	32.9	280.7	271,600	439,200	41.1	291.1	259,700	429,600	51.3	301.3	241,500	415,300	110
115	26.2	270.8	256,500	392,800	36.0	284.2	245,400	407,800	47.1	296.6	228,200	394,200	115
120	16.9	256.2	242,300	321,400	30.1	275.6	232,200	387,900	42.6	291.1	216,000	375,000	120
125					22.6	264.2	219,800	369,600	37.7	284.6	204,700	357,300	125
130					9.5	243.2	207,600	287,100	32.0	276.6	194,200	341,100	130
135									25.2	266.3	184,400	326,100	135
140									15.1	250.4	174,800	312,100	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-2

ASME B30.5



661,300 lb



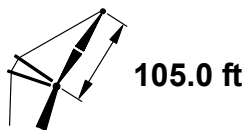
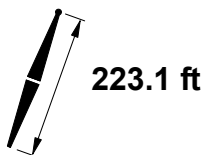
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	61.7	307.1	199,400 b	371,900 b									115
120	58.1	303.9	188,600	353,700									120
125	54.4	300.2	178,700	337,100									125
130	50.4	295.9	169,500	321,800									130
135	46.2	291.1	161,000	307,600									135
140	41.7	285.4	153,100	294,600	57.0	296.7	130,400	277,200					140
145	36.6	278.6	145,600	282,400	53.2	292.9	124,000	265,700					145
150	30.8	270.3	138,600	271,000	49.2	288.4	117,900	255,100					150
155	23.5	259.3	131,800	260,400	44.9	283.3	112,300	245,100					155
160	11.9	240.7	124,900	250,200	40.2	277.4	106,900	235,800					160
165					35.0	270.2	101,700	227,000	51.6	283.4	83,500	213,000	165
170					28.8	261.3	96,800	218,700	47.5	278.7	79,400	205,300	170
175					20.8	249.0	91,900	210,700	43.0	273.2	75,500	198,000	175
180									38.1	266.8	71,700	191,100	180
185									32.6	259.0	68,000	184,500	185
190									25.8	249.0	64,400	178,200	190
195									16.3	234.0	60,700	172,000	195

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



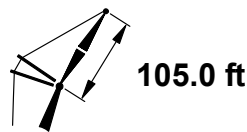
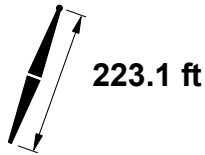
	85°				83°				80°				
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
60	74.5	332.7	561,700 c	673,700 c									60
65	71.6	331.0	511,100 c	654,500 c									65
70	68.7	328.9	468,300 b	634,400 b									70
75	65.7	326.6	431,600 b	613,800 b	70.3	329.2	412,300 b	648,900 b					75
80	62.6	323.9	399,700 b	593,200 b	67.3	327.0	381,800 b	621,300 b					80
85	59.4	320.8	371,700	573,000	64.3	324.5	355,000 b	578,600 b					85
90	56.0	317.4	347,000	553,400	61.1	321.6	331,400 b	541,200 b	68.3	325.8	307,900 b	523,100 b	90
95	52.6	313.4	325,000	519,500	57.9	318.4	310,300	508,000	65.2	323.4	288,200 b	491,000 b	95
100	48.9	309.0	305,300	489,400	54.5	314.7	291,400	478,500	62.1	320.6	270,600 b	462,400 b	100
105	45.0	303.9	287,500	462,300	51.0	310.6	274,300	452,000	58.9	317.5	254,600	436,700	105
110	40.9	298.1	271,200	437,800	47.2	305.9	258,800	428,100	55.6	314.0	240,200	413,600	110
115	36.2	291.2	256,400	415,700	43.2	300.5	244,700	406,400	52.1	310.0	227,000	392,600	115
120	31.0	282.9	242,800	395,400	38.8	294.2	231,700	386,600	48.4	305.5	214,900	373,400	120
125	24.6	272.4	230,100	356,300	34.0	286.8	219,700	368,500	44.5	300.3	203,800	355,900	125
130	15.6	256.7	218,000	293,000	28.3	277.6	208,600	351,800	40.2	294.4	193,500	339,800	130
135					21.1	265.4	198,000	336,400	35.5	287.3	183,900	325,000	135
140					8.1	242.2	187,500	261,100	30.2	278.8	174,900	311,200	140
145									23.6	267.8	166,400	298,300	145
150									13.8	250.7	158,000	286,300	150
155													155
160													160
165													165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205

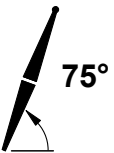
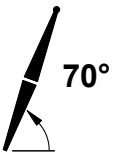
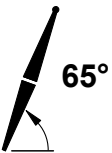
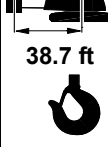
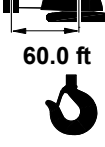
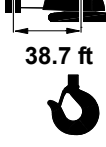
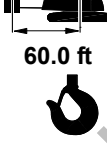
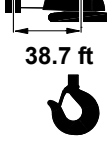
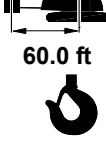
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



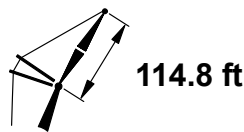
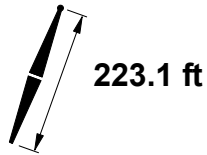
	 75°				 70°				 65°					
 ft	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 ft	
60														60
65														65
70														70
75														75
80														80
85														85
90														90
95														95
100														100
105														105
110														110
115	64.6	318.4	197,600	370,000										115
120	61.5	315.6	186,900	351,900										120
125	58.2	312.4	177,100	335,400										125
130	54.9	308.8	168,000	320,100										130
135	51.4	304.7	159,600	306,100										135
140	47.6	300.0	151,800	293,100										140
145	43.7	294.7	144,500	281,000	57.3	305.2	122,200	264,100						145
150	39.3	288.5	137,600	269,800	53.9	301.5	116,300	253,500						150
155	34.5	281.3	131,100	259,300	50.3	297.2	110,700	243,600						155
160	28.9	272.3	125,000	249,400	46.5	292.4	105,400	234,300						160
165	22.0	260.6	119,000	240,100	42.4	286.8	100,400	225,600						165
170	10.6	240.3	112,800	231,200	38.0	280.4	95,700	217,500	52.4	292.0	77,600	203,700		170
175					33.0	272.7	91,200	209,700	48.7	287.6	73,800	196,500		175
180					27.1	263.1	86,800	202,400	44.8	282.4	70,200	189,700		180
185					19.4	250.0	82,400	195,400	40.6	276.6	66,700	183,200		185
190									36.0	269.6	63,300	177,000		190
195									30.7	261.3	60,100	171,200		195
200									24.2	250.6	56,800	165,500		200
205									15.0	234.4	53,500	160,000		205

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



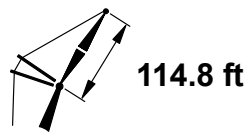
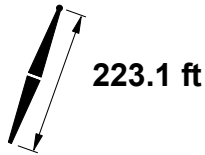
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	73.3	341.4	508,400 b	631,200 b									65
70	70.6	339.6	465,700 b	613,600 b									70
75	67.9	337.5	429,000 b	595,200 b	72.1	339.7	409,400 b	626,600 b					75
80	65.1	335.1	397,200 b	576,500 b	69.4	337.7	379,000 b	610,100 b					80
85	62.3	332.3	369,300	558,000	66.7	335.5	352,300 b	575,300 b					85
90	59.4	329.3	344,700	539,600	63.9	333.0	328,700	538,100					90
95	56.4	325.9	322,700	516,700	61.0	330.1	307,700	505,100	67.5	334.3	285,200	487,800	95
100	53.2	322.0	303,100	486,700	58.0	326.9	288,900	475,700	64.7	331.9	267,600	459,400	100
105	49.9	317.8	285,300	459,700	55.0	323.3	271,900	449,300	61.9	329.1	251,800	433,800	105
110	46.5	312.9	269,200	435,400	51.8	319.3	256,500	425,500	59.0	326.0	237,400	410,800	110
115	42.8	307.5	254,500	413,300	48.4	314.7	242,400	403,900	55.9	322.5	224,300	389,900	115
120	38.8	301.2	241,000	393,200	44.8	309.6	229,600	384,200	52.8	318.7	212,300	370,800	120
125	34.3	293.9	228,600	374,800	41.0	303.8	217,700	366,200	49.5	314.3	201,300	353,400	125
130	29.3	285.1	217,100	357,800	36.8	297.1	206,700	349,600	46.0	309.4	191,100	337,400	130
135	23.2	273.8	206,200	323,900	32.2	289.2	196,500	334,300	42.2	303.8	181,600	322,600	135
140	14.4	257.0	195,800	267,000	26.7	279.5	187,000	320,200	38.2	297.4	172,800	309,000	140
145					19.8	266.5	177,800	307,000	33.7	289.9	164,600	296,200	145
150					6.7	240.8	168,600	236,400	28.5	280.9	156,800	284,400	150
155									22.2	269.2	149,300	273,300	155
160									12.7	250.8	142,000	262,800	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-2

ASME B30.5



661,300 lb



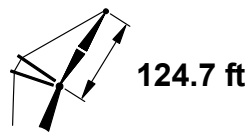
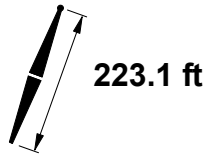
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	64.2	326.9	183,600	349,000									120
125	61.3	324.0	173,900	332,500									125
130	58.4	320.9	164,900	317,400									130
135	55.3	317.3	156,600	303,400									135
140	52.1	313.3	148,900	290,500									140
145	48.8	308.9	141,700	278,500									145
150	45.2	303.8	134,900	267,400	57.5	313.7	113,000	250,700					150
155	41.4	298.1	128,600	257,000	54.4	310.0	107,500	240,900					155
160	37.3	291.5	122,600	247,200	51.1	305.9	102,300	231,700					160
165	32.7	283.7	116,900	238,000	47.7	301.3	97,400	223,100					165
170	27.4	274.3	111,400	229,400	44.1	296.1	92,800	215,000					170
175	20.6	261.8	106,100	221,200	40.3	290.1	88,400	207,400	53.0	300.7	70,500	193,800	175
180	9.4	239.7	100,600	213,300	36.0	283.2	84,200	200,200	49.8	296.3	66,900	187,000	180
185					31.2	275.0	80,200	193,300	46.3	291.5	63,600	180,600	185
190					25.6	264.9	76,300	186,800	42.6	286.0	60,300	174,500	190
195					18.2	250.9	72,400	180,500	38.5	279.6	57,200	168,800	195
200									34.1	272.3	54,200	163,300	200
205									29.0	263.4	51,300	158,000	205
210									22.8	252.0	48,400	153,000	210
215									13.8	234.6	45,300	148,000	215

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	74.6	351.8	552,400 b	552,400 b									65
70	72.2	350.1	524,100 b	548,600 b									70
75	69.7	348.2	483,300 b	544,600 b									75
80	67.2	346.0	447,900 b	528,600 b	71.1	348.3	429,500 b	521,800 b					80
85	64.7	343.5	416,900	513,400	68.6	346.3	399,700 b	506,700 b					85
90	62.1	340.8	389,600	503,800	66.1	344.0	373,400	506,700					90
95	59.4	337.8	365,200	503,800	63.5	341.4	349,900	504,300	69.4	345.1	327,200	486,900	95
100	56.6	334.4	343,400	486,000	60.9	338.6	329,000	475,000	66.9	342.8	307,400	458,600	100
105	53.7	330.6	323,700	459,200	58.1	335.4	310,000	448,700	64.3	340.4	289,600	433,100	105
110	50.8	326.5	305,900	434,900	55.3	331.8	292,900	425,000	61.7	337.6	273,500	410,200	110
115	47.6	321.8	289,600	413,000	52.4	327.9	277,300	403,500	59.0	334.5	258,800	389,400	115
120	44.3	316.6	274,700	392,900	49.4	323.5	263,000	383,900	56.2	331.1	245,400	370,400	120
125	40.8	310.8	261,000	373,200	46.2	318.7	249,900	365,900	53.3	327.3	233,100	353,100	125
130	36.9	304.1	248,400	355,200	42.7	313.2	237,700	349,400	50.3	323.0	221,700	337,100	130
135	32.7	296.3	236,600	339,700	39.1	307.0	226,500	334,200	47.2	318.3	211,200	322,400	135
140	27.8	287.0	225,700	327,200	35.1	299.9	216,000	320,200	43.8	313.1	201,400	308,800	140
145	21.9	275.2	215,300	295,900	30.6	291.5	206,200	307,100	40.3	307.1	192,200	296,200	145
150	13.4	257.3	205,300	246,400	25.4	281.2	197,000	294,900	36.4	300.3	183,700	284,400	150
155					18.6	267.4	188,200	283,500	32.1	292.3	175,600	273,500	155
160					5.2	238.6	179,100	216,000	27.1	282.8	168,000	263,200	160
165									21.0	270.4	160,700	253,500	165
170									11.6	250.7	153,400	244,200	170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
225													225

MLC650 VPC-MAX S-2

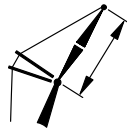
ASME B30.5



661,300 lb



223.1 ft



124.7 ft

	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	205,300	332,000									125
130	61.2	332.5	195,100	317,000									130
135	58.4	329.3	185,700	303,100									135
140	55.6	325.8	177,000	290,200									140
145	52.7	322.0	168,800	278,300									145
150	49.7	317.6	161,200	267,200									150
155	46.5	312.8	154,100	256,900	57.6	322.2	132,600	240,600					155
160	43.1	307.4	147,300	247,200	54.8	318.6	126,700	231,500					160
165	39.5	301.3	141,000	238,100	51.9	314.6	121,100	223,000					165
170	35.5	294.3	135,000	229,500	48.8	310.1	115,800	214,900					170
175	31.1	286.1	129,300	221,500	45.5	305.2	110,800	207,300					175
180	26.0	276.0	123,800	213,800	42.1	299.6	106,100	200,200	53.6	309.3	88,400	186,900	180
185	19.5	262.8	118,500	206,500	38.4	293.2	101,600	193,400	50.6	305.1	84,500	180,500	185
190	8.2	238.9	112,900	199,500	34.3	285.9	97,300	187,000	47.5	300.4	80,800	174,500	190
195					29.7	277.2	93,100	180,900	44.1	295.2	77,200	168,800	195
200					24.2	266.4	89,100	175,000	40.6	289.3	73,800	163,400	200
205					17.0	251.6	85,100	169,400	36.7	282.6	70,500	158,200	205
210									32.5	274.7	67,400	153,200	210
215									27.6	265.3	64,300	148,500	215
220									21.6	253.3	61,200	143,900	220
225									12.8	234.8	58,000	139,400	225

MLC650 VPC-MAX S-2

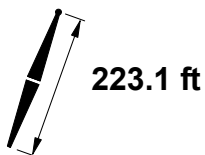
ASME B30.5



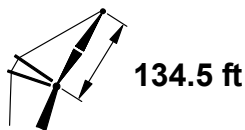
661,300 lb



360°



223.1 ft



134.5 ft

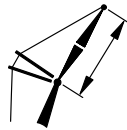
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.6	360.5	518,600 b	518,600 b									70
75	71.3	358.7	480,700 b	518,600 b									75
80	69.0	356.7	445,400	513,000	72.6	358.8	426,700 b	506,400 b					80
85	66.7	354.5	414,500	498,600	70.3	356.9	396,900	492,200					85
90	64.3	352.0	387,100	484,900	68.0	354.8	370,600	481,200					90
95	61.9	349.3	362,800	484,900	65.6	352.5	347,300	481,200					95
100	59.4	346.3	341,000	479,400	63.2	349.9	326,300	472,200	68.7	353.6	304,400	455,600	100
105	56.8	342.9	321,400	454,500	60.8	347.0	307,500	446,000	66.4	351.4	286,700	430,200	105
110	54.2	339.2	303,600	430,500	58.2	343.9	290,400	422,400	64.0	348.8	270,600	407,400	110
115	51.4	335.2	287,400	407,500	55.7	340.4	274,800	401,000	61.5	346.1	256,000	386,700	115
120	48.6	330.7	272,600	385,800	53.0	336.5	260,600	381,400	59.0	343.0	242,700	367,800	120
125	45.6	325.7	259,000	365,700	50.2	332.3	247,500	363,600	56.5	339.6	230,400	350,500	125
130	42.4	320.2	246,400	347,200	47.3	327.6	235,400	347,200	53.8	335.9	219,100	334,600	130
135	39.0	314.0	234,800	330,400	44.2	322.4	224,300	332,000	51.1	331.7	208,600	320,000	135
140	35.3	306.9	223,900	315,600	40.9	316.6	213,900	318,000	48.2	327.2	198,900	306,500	140
145	31.2	298.7	213,800	302,900	37.4	310.0	204,200	305,000	45.2	322.2	189,800	293,900	145
150	26.5	288.9	204,300	292,700	33.5	302.4	195,200	292,900	42.0	316.5	181,300	282,200	150
155	20.8	276.4	195,300	266,300	29.2	293.6	186,600	281,600	38.5	310.2	173,400	271,300	155
160	12.4	257.4	186,500	225,200	24.1	282.8	178,500	271,000	34.8	303.0	165,900	261,100	160
165					17.6	268.2	170,800	257,400	30.6	294.6	158,800	251,500	165
170					2.9	234.3	162,500	191,700	25.8	284.5	152,100	242,400	170
175									19.9	271.5	145,600	233,900	175
180									10.7	250.5	139,100	225,700	180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
225													225
230													230
235													235

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



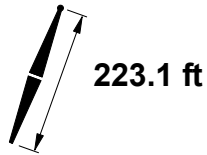
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	63.5	343.8	192,000	314,200									130
135	61.0	341.0	182,600	300,400									135
140	58.5	337.8	173,900	287,600									140
145	55.9	334.4	165,800	275,700									145
150	53.3	330.6	158,300	264,700									150
155	50.5	326.4	151,200	254,400									155
160	47.6	321.7	144,600	244,800	57.8	330.7	123,500	228,800					160
165	44.5	316.6	138,300	235,700	55.2	327.2	117,900	220,300					165
170	41.3	310.8	132,400	227,200	52.5	323.2	112,700	212,300					170
175	37.8	304.3	126,800	219,200	49.6	318.9	107,800	204,800					175
180	34.0	296.9	121,500	211,700	46.7	314.1	103,200	197,700					180
185	29.7	288.3	116,400	204,500	43.6	308.8	98,700	191,000	54.0	317.8	81,200	177,900	185
190	24.7	277.7	111,500	197,700	40.3	302.9	94,500	184,700	51.3	313.8	77,600	171,900	190
195	18.4	263.7	106,700	191,200	36.7	296.1	90,500	178,600	48.4	309.3	74,100	166,200	195
200	7.2	237.8	101,700	184,900	32.8	288.4	86,600	172,900	45.4	304.3	70,700	160,900	200
205					28.3	279.2	82,900	167,400	42.2	298.7	67,500	155,700	205
210					23.1	267.9	79,200	162,100	38.8	292.4	64,500	150,900	210
215					16.1	252.2	75,600	157,100	35.1	285.3	61,500	146,200	215
220									31.0	277.1	58,600	141,700	220
225									26.3	267.1	55,800	137,400	225
230									20.5	254.4	53,000	133,300	230
235									11.8	234.7	50,100	129,100	235

MLC650 VPC-MAX S-2

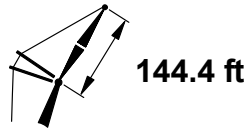
ASME B30.5



661,300 lb



223.1 ft



144.4 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.7	370.8	507,000 b	507,000 b									70
75	72.6	369.2	478,900 b	507,000 b									75
80	70.5	367.4	443,600	502,000									80
85	68.4	365.3	412,700	488,200	71.7	367.5	395,000	481,900					85
90	66.2	363.0	385,400	475,100	69.6	365.5	368,700	468,800					90
95	64.0	360.5	361,100	463,800	67.4	363.4	345,400	468,800					95
100	61.7	357.8	339,300	463,800	65.2	361.0	324,500	468,800					100
105	59.4	354.7	319,700	442,100	63.0	358.4	305,700	443,900	68.1	362.2	284,700	428,000	105
110	57.0	351.4	302,000	420,100	60.7	355.5	288,600	420,300	65.9	359.9	268,700	405,200	110
115	54.6	347.8	285,800	398,800	58.3	352.3	273,100	399,000	63.7	357.3	254,100	384,600	115
120	52.0	343.8	271,000	378,300	55.9	348.9	258,900	379,500	61.4	354.5	240,800	365,800	120
125	49.4	339.5	257,500	358,900	53.4	345.1	245,800	361,700	59.1	351.5	228,500	348,600	125
130	46.7	334.7	245,000	340,700	50.9	341.0	233,800	345,400	56.7	348.1	217,200	332,800	130
135	43.8	329.4	233,400	323,800	48.2	336.4	222,700	330,300	54.2	344.4	206,800	318,200	135
140	40.7	323.5	222,600	308,300	45.4	331.4	212,400	316,300	51.7	340.4	197,100	304,700	140
145	37.4	317.0	212,600	294,400	42.4	325.9	202,800	303,400	49.0	336.0	188,100	292,200	145
150	33.9	309.5	203,200	282,100	39.3	319.8	193,800	291,300	46.3	331.2	179,700	280,500	150
155	29.9	300.9	194,400	271,600	35.9	312.8	185,400	280,100	43.4	325.8	171,800	269,700	155
160	25.4	290.6	186,100	263,200	32.2	304.9	177,500	269,600	40.3	319.9	164,400	259,500	160
165	19.8	277.5	178,100	241,100	28.0	295.6	170,000	259,700	37.0	313.2	157,400	250,000	165
170	11.6	257.3	170,300	207,100	23.1	284.3	162,800	250,400	33.4	305.6	150,800	241,000	170
175					16.7	269.0	155,900	233,400	29.3	296.8	144,600	232,600	175
180									24.7	286.2	138,600	224,600	180
185									18.9	272.5	132,800	217,000	185
190									9.8	250.1	127,000	209,700	190
195													195
200													200
205													205
210													210
215													215
220													220
225													225
230													230
235													235
240													240

MLC650 VPC-MAX S-2

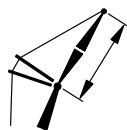
ASME B30.5



661,300 lb



223.1 ft



144.4 ft

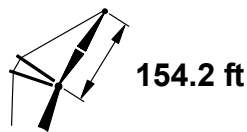
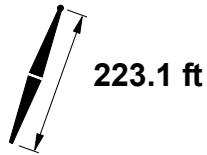
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	63.2	352.3	180,500	298,400									135
140	60.9	349.4	171,900	285,700									140
145	58.6	346.3	163,800	273,800									145
150	56.2	342.9	156,300	262,900									150
155	53.7	339.2	149,300	252,600									155
160	51.1	335.1	142,700	243,000									160
165	48.5	330.6	136,500	234,000	57.9	339.2	115,800	218,500					165
170	45.7	325.6	130,700	225,600	55.5	335.7	110,700	210,500					170
175	42.7	320.2	125,100	217,600	53.0	331.8	105,800	203,100					175
180	39.6	314.1	119,900	210,100	50.4	327.6	101,200	196,000					180
185	36.3	307.2	114,900	203,000	47.7	323.0	96,800	189,300					185
190	32.6	299.4	110,200	196,300	44.8	317.9	92,700	183,000	54.4	326.4	75,400	170,100	190
195	28.5	290.3	105,600	189,900	41.8	312.3	88,700	177,000	51.9	322.4	72,000	164,500	195
200	23.6	279.2	101,200	183,800	38.7	306.0	84,900	171,300	49.3	318.0	68,700	159,100	200
205	17.5	264.6	96,800	178,000	35.2	298.9	81,300	165,900	46.5	313.2	65,600	154,100	205
210	6.0	236.2	92,200	172,200	31.4	290.8	77,800	160,800	43.6	307.9	62,500	149,200	210
215					27.1	281.2	74,400	155,800	40.5	302.0	59,700	144,600	215
220					22.0	269.3	71,100	151,000	37.3	295.4	56,900	140,200	220
225					15.2	252.7	67,700	146,400	33.7	287.9	54,200	136,000	225
230									29.7	279.3	51,600	131,900	230
235									25.1	268.9	49,000	128,000	235
240									19.5	255.5	46,400	124,200	240

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	73.8	379.6	470,000	470,000									75
80	71.8	377.9	441,000	470,000									80
85	69.8	376.0	410,200	468,500	72.9	377.9	392,200	467,100					85
90	67.8	373.9	382,900	463,400	70.9	376.1	366,000	457,300					90
95	65.8	371.5	358,600	451,300	68.9	374.1	342,700	448,800					95
100	63.7	369.0	336,900	448,100	66.9	371.9	321,800	448,800					100
105	61.6	366.2	317,400	428,700	64.8	369.5	303,000	441,200	69.6	372.9	281,700	425,100	105
110	59.4	363.2	299,600	409,100	62.7	366.9	286,000	417,700	67.5	370.7	265,800	402,400	110
115	57.2	359.9	283,500	389,700	60.6	364.0	270,500	396,400	65.5	368.4	251,200	381,900	115
120	54.9	356.3	268,800	370,800	58.4	360.8	256,400	377,100	63.4	365.8	237,900	363,200	120
125	52.5	352.4	255,200	352,500	56.2	357.4	243,400	359,300	61.3	363.0	225,700	346,000	125
130	50.1	348.2	242,700	335,000	53.8	353.7	231,400	343,000	59.1	359.9	214,500	330,300	130
135	47.6	343.6	231,200	318,600	51.5	349.6	220,300	328,000	56.9	356.6	204,100	315,700	135
140	44.9	338.5	220,500	303,200	49.0	345.2	210,100	314,100	54.6	353.0	194,500	302,300	140
145	42.1	332.9	210,500	289,000	46.4	340.4	200,500	301,200	52.2	349.0	185,500	289,800	145
150	39.2	326.7	201,200	275,900	43.7	335.1	191,600	289,200	49.8	344.8	177,200	278,200	150
155	36.0	319.8	192,500	264,200	40.8	329.3	183,200	278,000	47.2	340.1	169,300	267,400	155
160	32.6	312.0	184,300	253,900	37.8	322.8	175,400	267,500	44.5	334.9	162,000	257,300	160
165	28.8	303.0	176,500	245,200	34.5	315.5	168,000	257,700	41.7	329.3	155,100	247,800	165
170	24.3	292.3	169,200	238,300	30.9	307.2	161,000	248,500	38.8	323.0	148,600	238,900	170
175	18.9	278.5	162,100	218,700	26.9	297.5	154,300	239,700	35.6	316.0	142,400	230,500	175
180	10.8	257.2	155,100	189,600	22.1	285.6	148,000	231,500	32.1	308.1	136,500	222,600	180
185					15.8	269.6	141,800	211,900	28.2	298.8	130,900	215,100	185
190									23.7	287.8	125,600	208,000	190
195									18.0	273.4	120,400	201,200	195
200									9.0	249.5	115,000	194,600	200
205													205
210													210
215													215
220													220
225													225
230													230
235													235
240													240
250													250

MLC650 VPC-MAX S-2

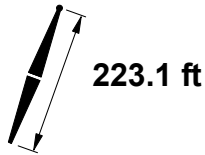
ASME B30.5



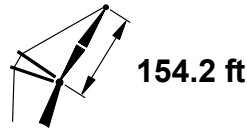
661,300 lb



360°



223.1 ft



154.2 ft

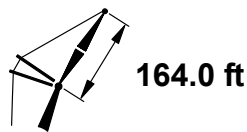
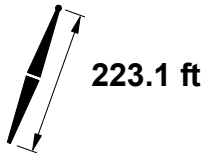
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	63.0	360.8	168,800	283,000									140
145	60.8	357.9	160,800	271,200									145
150	58.6	354.8	153,300	260,300									150
155	56.4	351.4	146,400	250,100									155
160	54.1	347.7	139,800	240,600									160
165	51.7	343.7	133,700	231,600									165
170	49.2	339.3	127,900	223,200	58.0	347.7	107,500	207,900					170
175	46.7	334.6	122,400	215,300	55.7	344.2	102,700	200,500					175
180	44.0	329.3	117,200	207,900	53.4	340.4	98,100	193,500					180
185	41.2	323.6	112,300	200,800	51.0	336.3	93,800	186,900					185
190	38.1	317.2	107,600	194,100	48.5	331.8	89,700	180,600					190
195	34.9	310.0	103,200	187,800	45.9	326.9	85,800	174,600	54.8	335.0	68,700	161,900	195
200	31.3	301.8	98,900	181,800	43.2	321.6	82,100	169,000	52.4	331.0	65,500	156,600	200
205	27.3	292.3	94,800	176,000	40.3	315.6	78,500	163,600	50.0	326.8	62,400	151,500	205
210	22.6	280.7	90,800	170,600	37.2	309.0	75,100	158,500	47.4	322.1	59,400	146,800	210
215	16.6	265.3	86,800	165,300	33.9	301.6	71,800	153,600	44.8	317.0	56,600	142,200	215
220	4.9	234.1	82,500	160,000	30.2	293.0	68,600	148,900	42.0	311.4	53,900	137,800	220
225					26.0	283.0	65,500	144,500	39.0	305.2	51,300	133,600	225
230					21.1	270.6	62,500	140,100	35.9	298.3	48,700	129,600	230
235					14.3	253.2	59,400	135,900	32.4	290.4	46,300	125,800	235
240									28.5	281.3	43,900	122,100	240
250									18.6	256.5	39,200	115,000	250

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	74.8	389.9	432,900	432,900									75
80	73.0	388.3	432,900	432,900									80
85	71.1	386.5	409,500	432,400									85
90	69.2	384.6	382,300	430,900	72.1	386.6	365,200	430,900					90
95	67.3	382.4	358,000	428,400	70.3	384.7	341,900	430,900					95
100	65.4	380.1	336,300	424,500	68.4	382.7	321,100	430,900					100
105	63.4	377.5	316,800	413,600	66.5	380.4	302,300	430,900					105
110	61.4	374.7	299,100	396,300	64.5	378.0	285,400	416,500	69.0	381.4	264,900	401,200	110
115	59.4	371.7	283,000	378,900	62.5	375.3	269,900	395,300	67.1	379.3	250,400	380,700	115
120	57.3	368.4	268,300	361,600	60.5	372.5	255,800	376,000	65.1	376.9	237,100	362,000	120
125	55.2	364.9	254,800	344,700	58.5	369.3	242,800	358,300	63.2	374.3	225,000	344,900	125
130	53.0	361.0	242,300	328,300	56.4	365.9	230,900	342,100	61.2	371.5	213,800	329,200	130
135	50.7	356.9	230,800	312,500	54.2	362.3	219,800	327,100	59.1	368.4	203,400	314,800	135
140	48.4	352.4	220,100	297,600	52.0	358.3	209,600	313,300	57.0	365.1	193,800	301,400	140
145	45.9	347.5	210,200	283,600	49.7	354.0	200,000	300,400	54.9	361.5	184,900	289,000	145
150	43.4	342.1	200,900	270,400	47.3	349.3	191,200	288,400	52.7	357.7	176,500	277,400	150
155	40.7	336.3	192,300	258,400	44.8	344.2	182,800	277,300	50.4	353.5	168,700	266,600	155
160	37.8	329.8	184,100	247,300	42.2	338.6	175,000	266,800	48.0	348.9	161,400	256,500	160
165	34.7	322.6	176,500	237,400	39.4	332.5	167,700	257,100	45.6	344.0	154,600	247,100	165
170	31.4	314.4	169,200	228,600	36.5	325.7	160,800	247,900	43.0	338.5	148,100	238,200	170
175	27.7	305.0	162,300	221,200	33.3	318.1	154,200	239,200	40.3	332.6	142,000	229,900	175
180	23.4	293.8	155,800	215,400	29.8	309.5	148,000	231,000	37.4	326.0	136,200	222,000	180
185	18.1	279.4	149,500	200,400	25.8	299.3	142,100	223,300	34.3	318.7	130,700	214,500	185
190	10.0	256.9	143,200	175,400	21.2	286.9	136,400	215,400	30.9	310.4	125,500	207,500	190
195					15.1	270.1	130,800	194,400	27.1	300.8	120,400	200,700	195
200									22.7	289.2	115,600	194,400	200
205									17.2	274.2	110,900	188,300	205
210									8.2	248.8	106,000	180,600	210
215													215
220													220
225													225
230													230
235													235
240													240
250													250
260													260

MLC650 VPC-MAX S-2

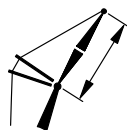
ASME B30.5



661,300 lb



223.1 ft



164.0 ft

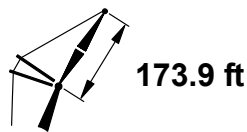
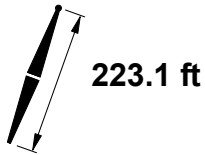
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	64.7	371.9	167,800	281,900									140
145	62.8	369.2	159,900	270,200									145
150	60.8	366.4	152,400	259,300									150
155	58.7	363.3	145,500	249,100									155
160	56.6	359.9	139,000	239,600									160
165	54.4	356.3	132,900	230,700									165
170	52.2	352.3	127,100	222,400									170
175	49.9	348.1	121,700	214,500	58.1	356.2	101,700	199,600					175
180	47.5	343.4	116,500	207,100	56.0	352.7	97,200	192,600					180
185	45.1	338.4	111,700	200,100	53.8	349.0	92,900	186,000					185
190	42.5	332.9	107,000	193,400	51.5	345.0	88,800	179,700					190
195	39.7	326.8	102,600	187,100	49.2	340.6	85,000	173,800					195
200	36.8	320.1	98,400	181,200	46.8	335.9	81,300	168,200					200
205	33.6	312.6	94,400	175,500	44.3	330.7	77,800	162,900	52.9	339.7	61,400	150,700	205
210	30.2	304.1	90,500	170,000	41.7	325.0	74,400	157,800	50.6	335.5	58,500	145,900	210
215	26.3	294.1	86,800	164,900	38.9	318.8	71,200	153,000	48.2	331.0	55,700	141,400	215
220	21.7	282.1	83,200	159,900	35.9	311.9	68,100	148,300	45.8	326.0	53,000	137,000	220
225	15.8	265.9	79,600	155,100	32.7	304.1	65,100	143,900	43.2	320.7	50,500	132,900	225
230	3.4	230.6	75,500	150,200	29.1	295.2	62,200	139,600	40.5	314.8	48,000	128,900	230
235					25.0	284.7	59,400	135,500	37.7	308.3	45,600	125,100	235
240					20.2	271.7	56,600	131,600	34.6	301.0	43,300	121,400	240
250									27.5	283.3	38,900	114,500	250
260									17.8	257.4	34,500	108,000	260

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	74.0	398.6	400,600	400,600									80
85	72.2	397.0	400,000	400,000									85
90	70.5	395.1	379,800	399,100									90
95	68.7	393.1	355,600	397,800	71.4	395.2	339,200	398,300					95
100	66.9	390.9	333,900	395,600	69.7	393.3	318,400	398,300					100
105	65.1	388.6	314,400	392,300	67.9	391.2	299,700	398,300					105
110	63.2	386.0	296,700	382,400	66.1	389.0	282,700	398,300					110
115	61.3	383.2	280,600	367,100	64.2	386.5	267,300	392,800	68.4	390.0	247,500	378,000	115
120	59.4	380.2	265,900	351,600	62.4	383.8	253,200	373,600	66.6	387.8	234,300	359,400	120
125	57.4	376.9	252,400	336,200	60.5	380.9	240,300	355,900	64.8	385.4	222,200	342,400	125
130	55.4	373.4	240,000	321,100	58.5	377.8	228,400	339,700	63.0	382.8	211,000	326,700	130
135	53.4	369.6	228,500	306,400	56.5	374.4	217,400	324,800	61.1	380.0	200,700	312,300	135
140	51.2	365.6	217,900	292,300	54.5	370.8	207,100	311,000	59.1	376.9	191,100	299,000	140
145	49.1	361.2	208,000	278,800	52.4	366.9	197,600	298,200	57.2	373.6	182,200	286,600	145
150	46.8	356.4	198,800	266,100	50.3	362.7	188,800	286,300	55.2	370.1	173,900	275,100	150
155	44.4	351.3	190,100	254,100	48.0	358.1	180,500	275,200	53.1	366.3	166,200	264,300	155
160	41.9	345.6	182,000	243,000	45.7	353.2	172,700	264,800	50.9	362.1	158,900	254,300	160
165	39.3	339.5	174,400	232,700	43.3	347.9	165,400	255,000	48.7	357.7	152,100	244,900	165
170	36.6	332.7	167,200	223,300	40.8	342.0	158,600	245,800	46.5	352.9	145,600	236,000	170
175	33.6	325.2	160,400	214,900	38.1	335.6	152,100	237,200	44.1	347.7	139,600	227,700	175
180	30.3	316.7	154,000	207,500	35.3	328.5	145,900	229,100	41.6	342.0	133,800	219,900	180
185	26.7	307.0	147,900	201,300	32.2	320.6	140,100	221,400	39.0	335.8	128,400	212,500	185
190	22.5	295.3	142,000	196,400	28.8	311.6	134,500	214,100	36.2	328.9	123,200	205,400	190
195	17.3	280.3	136,300	182,500	24.9	301.1	129,200	207,200	33.2	321.3	118,300	198,800	195
200	9.3	256.5	130,600	159,400	20.4	288.2	124,000	196,300	29.9	312.6	113,500	192,500	200
205					14.3	270.6	119,000	177,200	26.2	302.6	109,000	186,400	205
210									21.9	290.6	104,600	180,700	210
215									16.5	275.0	100,300	175,100	215
220									7.4	247.9	95,900	164,300	220
225													225
230													230
235													235
240													240
250													250
260													260
270													270

MLC650 VPC-MAX S-2

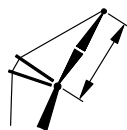
ASME B30.5



661,300 lb



223.1 ft



173.9 ft

	75°				70°				65°				
	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	64.4	380.4	156,800	267,600									145
150	62.6	377.7	149,400	256,700									150
155	60.7	374.9	142,500	246,600									155
160	58.7	371.8	136,000	237,200									160
165	56.8	368.4	130,000	228,300									165
170	54.7	364.8	124,200	220,000									170
175	52.7	361.0	118,800	212,100									175
180	50.5	356.8	113,700	204,800	58.2	364.7	94,000	190,000					180
185	48.3	352.3	108,900	197,800	56.2	361.3	89,800	183,500					185
190	46.0	347.4	104,300	191,200	54.1	357.6	85,800	177,300					190
195	43.6	342.1	100,000	184,900	52.0	353.6	81,900	171,400					195
200	41.1	336.3	95,800	179,000	49.9	349.4	78,300	165,800					200
205	38.4	330.0	91,900	173,300	47.6	344.7	74,800	160,500					205
210	35.6	323.0	88,100	168,000	45.3	339.7	71,500	155,500	53.3	348.3	55,300	143,400	210
215	32.5	315.1	84,400	162,800	42.9	334.3	68,300	150,700	51.1	344.2	52,600	138,900	215
220	29.2	306.3	80,900	157,900	40.3	328.4	65,300	146,100	48.9	339.8	49,900	134,600	220
225	25.4	295.9	77,500	153,200	37.6	321.8	62,400	141,700	46.7	335.0	47,400	130,500	225
230	20.9	283.3	74,200	148,700	34.7	314.6	59,600	137,500	44.3	329.8	45,000	126,500	230
235	15.1	266.5	70,900	144,300	31.6	306.5	56,800	133,400	41.8	324.2	42,700	122,800	235
240					28.1	297.2	54,200	129,500	39.2	318.0	40,400	119,100	240
250					19.4	272.8	49,000	122,200	33.4	303.6	36,100	112,300	250
260									26.5	285.2	32,000	106,000	260
270									17.0	258.2	28,000	100,000	270

MLC650 VPC-MAX S-2

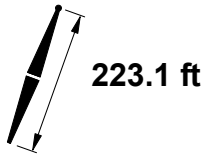
ASME B30.5



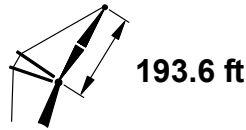
661,300 lb



360°



223.1 ft



193.6 ft

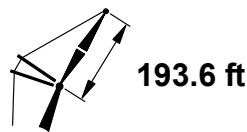
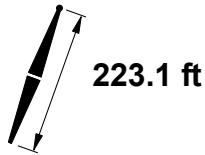
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	74.1	417.7	340,700	340,700									85
90	72.5	416.1	340,600	340,600									90
95	71.0	414.3	339,800	339,800									95
100	69.4	412.4	330,700	339,100	71.8	414.4	314,900	337,600					100
105	67.8	410.3	311,200	337,900	70.3	412.5	296,200	337,600					105
110	66.2	408.0	293,600	336,500	68.7	410.5	279,300	337,600					110
115	64.5	405.6	277,600	334,200	67.1	408.3	263,900	337,600					115
120	62.8	402.9	262,900	329,500	65.4	406.0	249,900	337,600	69.2	409.2	230,500	326,900	120
125	61.1	400.1	249,400	317,500	63.8	403.5	237,000	337,600	67.6	407.1	218,400	326,900	125
130	59.4	397.1	237,100	305,400	62.1	400.8	225,100	336,400	65.9	404.8	207,300	323,100	130
135	57.7	393.9	225,600	293,200	60.4	397.9	214,100	321,500	64.3	402.4	197,000	308,800	135
140	55.9	390.5	215,000	281,100	58.6	394.8	204,000	307,800	62.6	399.7	187,500	295,500	140
145	54.0	386.8	205,200	269,300	56.9	391.5	194,500	295,100	60.9	396.9	178,700	283,200	145
150	52.1	382.8	196,000	257,800	55.0	387.9	185,700	283,200	59.2	393.9	170,400	271,800	150
155	50.2	378.6	187,400	246,700	53.2	384.1	177,500	272,200	57.4	390.6	162,700	261,100	155
160	48.2	374.1	179,300	236,100	51.3	380.0	169,800	261,800	55.6	387.1	155,500	251,200	160
165	46.1	369.2	171,800	226,100	49.3	375.7	162,500	252,100	53.8	383.4	148,700	241,800	165
170	44.0	364.0	164,700	216,600	47.3	371.0	155,700	243,000	51.9	379.4	142,400	233,000	170
175	41.8	358.4	158,000	207,600	45.2	366.0	149,300	234,500	49.9	375.2	136,400	224,800	175
180	39.4	352.3	151,600	199,400	43.0	360.6	143,200	226,400	47.9	370.6	130,700	217,000	180
185	37.0	345.6	145,600	191,700	40.7	354.8	137,500	218,800	45.9	365.7	125,300	209,600	185
190	34.4	338.3	139,900	184,800	38.3	348.4	132,000	211,500	43.7	360.4	120,200	202,700	190
195	31.5	330.2	134,400	178,600	35.8	341.5	126,800	204,700	41.5	354.7	115,400	196,100	195
200	28.4	321.0	129,200	173,000	33.1	333.8	121,800	198,200	39.1	348.6	110,700	189,800	200
205	25.0	310.5	124,300	168,500	30.2	325.3	117,100	192,000	36.6	341.8	106,300	183,800	205
210	21.0	297.9	119,500	165,100	26.9	315.6	112,600	186,100	34.0	334.4	102,100	178,200	210
215	16.0	281.7	114,800	153,600	23.3	304.2	108,200	179,300	31.1	326.2	98,100	172,700	215
220	8.0	255.2	110,000	133,500	18.9	290.3	103,900	165,300	28.0	316.8	94,200	167,600	220
225					13.1	271.2	99,700	149,200	24.5	306.1	90,500	162,600	225
230									20.4	293.1	86,800	157,900	230
235									15.1	276.2	83,200	153,300	235
240									5.9	245.3	79,400	137,600	240
250													250
260													260
270													270
280													280
290													290

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



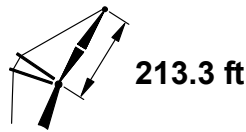
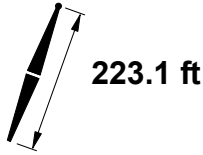
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85													85
90													90
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100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155	63.9	397.4	138,500	243,000									155
160	62.3	394.7	132,100	233,700									160
165	60.6	391.8	126,100	224,900									165
170	58.8	388.7	120,400	216,600									170
175	57.0	385.4	115,100	208,800									175
180	55.2	381.9	110,000	201,500									180
185	53.4	378.1	105,300	194,600									185
190	51.5	374.1	100,700	188,100	58.3	381.6	81,600	173,800					190
195	49.5	369.8	96,400	181,900	56.5	378.3	77,900	168,000					195
200	47.5	365.2	92,400	176,000	54.7	374.7	74,300	162,500					200
205	45.4	360.2	88,500	170,400	52.8	370.8	70,900	157,200					205
210	43.3	354.8	84,800	165,100	50.9	366.7	67,600	152,300					210
215	41.0	349.0	81,200	160,000	48.9	362.3	64,500	147,500					215
220	38.6	342.8	77,800	155,100	46.9	357.6	61,600	143,000	53.9	365.4	45,700	131,200	220
225	36.1	335.9	74,500	150,500	44.8	352.5	58,700	138,600	52.0	361.4	43,300	127,100	225
230	33.4	328.3	71,400	146,100	42.6	347.0	56,000	134,500	50.1	357.2	40,900	123,200	230
235	30.5	319.9	68,400	141,800	40.3	341.1	53,400	130,500	48.1	352.7	38,700	119,500	235
240	27.3	310.3	65,400	137,700	37.9	334.7	50,800	126,700	46.0	347.8	36,500	115,900	240
250	19.4	285.6	59,800	130,000	32.6	319.8	46,000	119,500	41.7	336.9	32,300	109,200	250
260					26.3	301.1	41,500	112,800	36.8	324.1	28,500	103,000	260
270					18.0	274.8	37,100	106,600	31.4	308.6	24,900	97,300	270
280									24.8	288.7	21,400	91,900	280
290									15.7	259.6		86,700	290

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



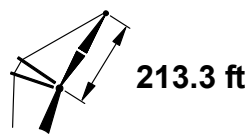
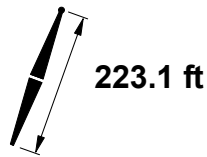
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	74.2	436.7	289,900	289,900									90
95	72.8	435.1	289,900	289,900									95
100	71.4	433.4	289,500	289,500									100
105	69.9	431.5	288,900	288,900	72.2	433.5	286,800	286,800					105
110	68.5	429.5	287,900	287,900	70.7	431.7	275,900	286,800					110
115	67.0	427.4	274,500	286,800	69.3	429.7	260,500	286,800					115
120	65.5	425.0	259,800	285,500	67.8	427.6	246,500	286,800					120
125	64.0	422.6	246,400	284,200	66.4	425.4	233,600	286,800	69.7	428.4	214,700	277,500	125
130	62.5	419.9	234,000	282,200	64.9	423.0	221,800	286,800	68.3	426.4	203,600	277,500	130
135	61.0	417.1	222,600	275,100	63.4	420.5	210,900	286,500	66.8	424.2	193,400	277,500	135
140	59.4	414.1	212,000	265,600	61.8	417.7	200,700	285,800	65.3	421.9	183,900	277,500	140
145	57.8	410.9	202,200	256,100	60.3	414.8	191,300	284,900	63.8	419.4	175,100	277,500	145
150	56.2	407.5	193,100	246,500	58.7	411.7	182,500	280,100	62.3	416.7	166,900	268,500	150
155	54.5	403.9	184,500	237,100	57.1	408.5	174,400	269,100	60.8	413.9	159,200	257,900	155
160	52.9	400.0	176,500	227,900	55.5	405.0	166,700	258,900	59.2	410.8	152,100	248,000	160
165	51.1	396.0	169,000	218,900	53.8	401.3	159,500	249,200	57.6	407.6	145,300	238,700	165
170	49.3	391.6	161,900	210,200	52.1	397.3	152,700	240,200	56.0	404.2	139,000	230,000	170
175	47.5	387.0	155,200	201,900	50.3	393.1	146,300	231,700	54.3	400.5	133,000	221,800	175
180	45.6	382.1	148,900	193,800	48.5	388.7	140,300	223,600	52.6	396.7	127,400	214,000	180
185	43.7	376.8	142,900	186,300	46.7	383.9	134,600	216,000	50.9	392.6	122,100	206,700	185
190	41.6	371.1	137,300	179,100	44.8	378.8	129,100	208,900	49.1	388.2	117,000	199,800	190
195	39.5	365.0	131,900	172,400	42.8	373.4	124,000	202,100	47.3	383.5	112,200	193,200	195
200	37.3	358.5	126,800	166,100	40.7	367.5	119,100	195,600	45.4	378.5	107,600	187,000	200
205	35.0	351.3	121,900	160,300	38.5	361.2	114,500	189,300	43.4	373.2	103,300	181,100	205
210	32.5	343.5	117,300	155,100	36.3	354.4	110,000	182,300	41.4	367.5	99,200	175,500	210
215	29.8	334.8	112,800	150,300	33.9	346.9	105,700	175,800	39.2	361.3	95,200	170,100	215
220	26.8	325.0	108,500	146,200	31.3	338.7	101,700	169,800	37.0	354.7	91,400	165,000	220
225	23.5	313.8	104,400	142,800	28.5	329.6	97,700	164,400	34.6	347.4	87,800	160,100	225
230	19.7	300.3	100,400	140,300	25.4	319.2	94,000	159,700	32.1	339.5	84,300	155,400	230
235	14.8	282.9	96,400	129,500	21.9	307.1	90,300	151,600	29.4	330.7	80,900	150,900	235
240	6.7	253.2	92,300	111,500	17.6	292.2	86,700	139,800	26.4	320.7	77,600	146,600	240
250									19.1	295.4	71,400	138,500	250
260									4.2	241.1	64,900	114,600	260
270													270
280													280
290													290
300													300
310													310

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



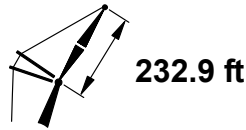
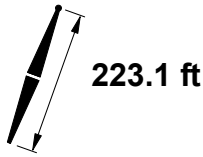
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90													90
95													95
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105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150													150
155													155
160													160
165	63.5	414.3	122,100	221,400									165
170	62.0	411.6	116,500	213,200									170
175	60.5	408.8	111,200	205,500									175
180	58.9	405.7	106,200	198,300									180
185	57.3	402.4	101,500	191,400									185
190	55.6	399.0	97,000	184,900									190
195	54.0	395.3	92,800	178,700	60.0	401.7	73,800	164,600					195
200	52.3	391.4	88,700	172,900	58.4	398.6	70,200	159,100					200
205	50.5	387.2	84,900	167,300	56.8	395.3	66,900	153,900					205
210	48.7	382.8	81,200	162,100	55.2	391.8	63,700	149,000					210
215	46.9	378.0	77,700	157,000	53.5	388.0	60,600	144,300					215
220	45.0	373.0	74,400	152,200	51.8	384.0	57,700	139,800					220
225	43.0	367.6	71,200	147,600	50.0	379.8	54,900	135,500					225
230	40.9	361.8	68,100	143,300	48.2	375.3	52,200	131,400	54.5	382.5	36,800	119,900	230
235	38.8	355.5	65,200	139,100	46.3	370.4	49,700	127,400	52.8	378.7	34,500	116,200	235
240	36.5	348.8	62,300	135,000	44.4	365.3	47,200	123,700	51.0	374.6	32,400	112,700	240
250	31.6	333.3	56,900	127,400	40.3	353.9	42,500	116,600	47.4	365.6	28,400	106,100	250
260	25.7	314.0	51,900	120,400	35.8	340.5	38,200	110,000	43.6	355.3	24,700	100,000	260
270	18.2	287.7	47,000	113,800	30.8	324.6	34,100	103,900	39.4	343.5	21,200	94,300	270
280					24.8	304.6	30,200	98,300	34.8	329.7		89,000	280
290					16.7	276.5	26,400	92,900	29.6	313.1		84,100	290
300									23.3	291.9		79,400	300
310									14.5	260.6		74,900	310

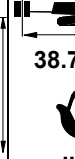
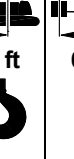
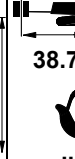
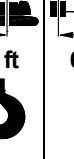
MLC650 VPC-MAX S-2

ASME B30.5



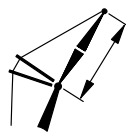
661,300 lb



	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95	74.3	455.8	263,900	263,900									95
100	73.0	454.2	263,600	263,600									100
105	71.7	452.5	263,200	263,200									105
110	70.4	450.7	262,600	262,600	72.4	452.5	260,200	260,200					110
115	69.1	448.7	261,800	261,800	71.1	450.8	254,600	260,200					115
120	67.8	446.7	254,400	260,800	69.8	448.9	240,700	260,200					120
125	66.4	444.4	241,000	259,700	68.5	446.9	227,900	260,200					125
130	65.0	442.1	228,700	258,400	67.1	444.7	216,100	260,200					130
135	63.7	439.5	217,300	257,100	65.8	442.5	205,200	260,000	68.9	445.6	187,100	251,700	135
140	62.3	436.9	206,800	254,900	64.4	440.0	195,100	259,400	67.6	443.5	177,700	251,700	140
145	60.9	434.0	197,000	246,900	63.0	437.4	185,800	258,800	66.2	441.3	169,000	251,700	145
150	59.4	431.0	187,900	238,700	61.6	434.7	177,000	258,000	64.9	438.9	160,900	251,700	150
155	58.0	427.9	179,400	230,600	60.2	431.8	168,900	257,100	63.5	436.4	153,300	251,700	155
160	56.5	424.5	171,400	222,400	58.8	428.7	161,200	254,200	62.1	433.7	146,100	243,000	160
165	55.0	421.0	163,900	214,400	57.3	425.4	154,100	244,700	60.7	430.8	139,500	233,800	165
170	53.4	417.2	156,900	206,500	55.8	422.0	147,400	235,700	59.2	427.8	133,200	225,200	170
175	51.9	413.2	150,200	198,700	54.3	418.4	141,000	227,200	57.8	424.6	127,300	217,000	175
180	50.3	409.0	144,000	191,200	52.7	414.5	135,000	219,200	56.3	421.2	121,700	209,300	180
185	48.6	404.6	138,000	184,000	51.2	410.5	129,400	211,700	54.8	417.6	116,400	202,100	185
190	46.9	399.9	132,400	177,100	49.5	406.1	124,000	204,600	53.2	413.8	111,400	195,200	190
195	45.2	394.9	127,100	170,500	47.9	401.6	118,900	197,800	51.7	409.8	106,700	188,700	195
200	43.4	389.5	122,000	164,200	46.2	396.7	114,100	191,400	50.0	405.6	102,100	182,500	200
205	41.5	383.9	117,200	158,200	44.4	391.6	109,400	185,300	48.4	401.1	97,900	176,700	205
210	39.6	377.8	112,600	152,600	42.6	386.1	105,100	179,500	46.7	396.4	93,800	171,100	210
215	37.6	371.3	108,200	147,300	40.7	380.3	100,900	174,000	44.9	391.3	89,900	165,800	215
220	35.5	364.3	104,000	142,400	38.7	374.0	96,900	168,500	43.1	386.0	86,100	160,700	220
225	33.2	356.6	100,000	137,900	36.6	367.3	93,000	162,600	41.3	380.2	82,600	155,800	225
230	30.8	348.3	96,200	133,800	34.5	360.0	89,300	157,100	39.3	374.1	79,100	151,200	230
235	28.2	339.0	92,400	130,200	32.2	352.0	85,800	151,900	37.3	367.5	75,800	146,800	235
240	25.4	328.7	88,800	127,000	29.7	343.3	82,400	147,300	35.2	360.4	72,700	142,500	240
250	18.5	302.4	82,000	118,400	24.0	322.6	75,900	136,100	30.5	344.2	66,700	134,500	250
260	5.4	250.3	75,000	90,900	16.5	293.9	69,700	116,500	25.0	324.3	61,100	127,100	260
270									17.9	297.4	55,800	120,200	270
280													280
290													290
300													300
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330													330

MLC650 VPC-MAX S-2

ASME B30.5



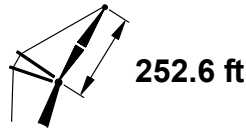
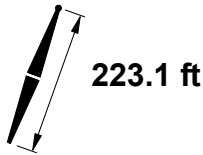
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb
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100												100
105												105
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115												115
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125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170	64.6	433.9	109,900	207,900								170
175	63.2	431.3	104,700	200,300								175
180	61.8	428.6	99,800	193,100								180
185	60.4	425.7	95,100	186,300								185
190	58.9	422.7	90,700	179,800								190
195	57.5	419.4	86,500	173,700								195
200	56.0	416.0	82,600	167,900								200
205	54.5	412.4	78,800	162,500	60.0	418.7	60,100	148,600				205
210	52.9	408.6	75,200	157,200	58.5	415.6	57,000	143,700				210
215	51.3	404.5	71,700	152,200	57.0	412.3	54,000	139,100				215
220	49.7	400.2	68,400	147,500	55.5	408.8	51,100	134,600				220
225	48.1	395.7	65,300	143,000	54.0	405.1	48,400	130,400				225
230	46.3	390.9	62,300	138,600	52.4	401.3	45,800	126,300				230
235	44.6	385.8	59,400	134,500	50.9	397.1	43,300	122,500				235
240	42.8	380.3	56,600	130,500	49.2	392.8	40,900	118,700	54.9	399.6	107,400	240
250	38.9	368.3	51,400	123,000	45.8	383.3	36,300	111,800	51.8	391.8	100,900	250
260	34.7	354.4	46,500	116,100	42.2	372.5	32,100	105,300	48.5	383.2	94,900	260
270	30.0	337.9	42,000	109,700	38.3	360.3	28,200	99,300	45.1	373.4	89,300	270
280	24.4	317.5	37,600	103,700	34.0	346.0	24,500	93,700	41.4	362.4	84,100	280
290	17.0	289.4	33,500	98,000	29.2	329.1	21,000	88,500	37.5	349.8	79,300	290
300					23.4	307.8		83,600	33.1	335.0	74,700	300
310					15.7	277.9		79,000	28.1	317.4	70,500	310
320									22.0	294.9	66,400	320
330									13.5	261.5	62,500	330

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100	74.4	474.8	227,400	227,400									100
105	73.2	473.3	227,000	227,000									105
110	72.0	471.6	226,600	226,600									110
115	70.8	469.8	225,900	225,900	72.7	471.6	223,700	223,700					115
120	69.6	467.9	225,200	225,200	71.5	469.9	223,700	223,700					120
125	68.4	465.9	224,300	224,300	70.2	468.1	223,700	223,700					125
130	67.1	463.8	223,300	223,300	69.0	466.1	212,500	223,500					130
135	65.9	461.5	214,100	222,300	67.8	464.0	201,700	223,200					135
140	64.6	459.1	203,600	221,100	66.6	461.8	191,600	222,800	69.4	464.8	173,900	215,400	140
145	63.3	456.5	193,800	219,900	65.3	459.5	182,300	222,300	68.2	462.8	165,200	215,400	145
150	62.1	453.8	184,700	218,600	64.0	457.0	173,600	221,700	66.9	460.6	157,100	215,400	150
155	60.8	451.0	176,200	215,500	62.8	454.4	165,500	221,000	65.7	458.3	149,500	215,400	155
160	59.4	448.0	168,200	208,900	61.5	451.6	157,900	220,300	64.4	455.9	142,500	215,400	160
165	58.1	444.8	160,800	202,400	60.2	448.7	150,700	219,400	63.2	453.3	135,800	215,400	165
170	56.7	441.5	153,800	195,800	58.8	445.7	144,000	218,500	61.9	450.6	129,600	215,400	170
175	55.3	438.0	147,100	189,200	57.5	442.4	137,700	217,600	60.6	447.8	123,700	213,800	175
180	53.9	434.3	140,900	182,800	56.1	439.0	131,700	214,300	59.2	444.7	118,100	206,200	180
185	52.5	430.5	135,000	176,400	54.7	435.5	126,100	207,700	57.9	441.6	112,900	199,000	185
190	51.0	426.4	129,400	170,200	53.3	431.7	120,800	201,100	56.5	438.2	107,900	192,200	190
195	49.5	422.1	124,100	164,200	51.8	427.7	115,700	194,500	55.2	434.7	103,200	185,700	195
200	48.0	417.5	119,100	158,400	50.4	423.5	110,900	188,100	53.7	431.0	98,700	179,600	200
205	46.4	412.7	114,300	152,800	48.9	419.1	106,300	181,600	52.3	427.1	94,500	173,700	205
210	44.8	407.7	109,700	147,500	47.3	414.5	102,000	175,400	50.8	423.0	90,400	168,200	210
215	43.2	402.3	105,400	142,300	45.7	409.6	97,800	169,300	49.3	418.6	86,500	162,900	215
220	41.4	396.6	101,200	137,500	44.1	404.4	93,800	163,500	47.8	414.1	82,800	157,900	220
225	39.7	390.6	97,200	132,900	42.4	398.9	90,000	157,800	46.2	409.2	79,300	153,000	225
230	37.8	384.1	93,400	128,400	40.7	393.0	86,400	152,400	44.6	404.1	75,900	148,400	230
235	35.9	377.2	89,800	124,400	38.8	386.8	82,900	147,200	42.9	398.7	72,700	144,000	235
240	33.8	369.7	86,200	120,600	36.9	380.1	79,500	142,300	41.2	393.0	69,500	139,800	240
250	29.4	352.8	79,600	114,000	32.9	365.2	73,200	133,500	37.5	380.3	63,700	131,900	250
260	24.2	332.1	73,400	108,800	28.3	347.6	67,300	125,800	33.5	365.8	58,200	124,600	260
270	17.5	304.3	67,500	99,400	22.8	325.7	61,800	114,900	29.0	348.7	53,100	117,800	270
280	4.0	246.0	61,400	74,000	15.6	295.3	56,400	97,800	23.8	327.6	48,300	111,400	280
290									16.9	299.1	43,600	104,400	290
300													300
310													310
320													320
330													330
340													340
350													350

MLC650 VPC-MAX S-2

ASME B30.5



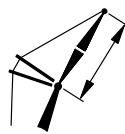
661,300 lb



360°



223.1 ft



252.6 ft

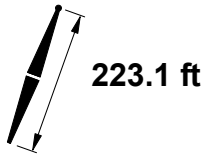
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180	64.2	450.9	95,800	189,700								180
185	62.9	448.3	91,100	182,900								185
190	61.6	445.6	86,800	176,500								190
195	60.3	442.7	82,600	170,500								195
200	59.0	439.6	78,700	164,700								200
205	57.6	436.4	74,900	159,300								205
210	56.3	433.0	71,400	154,100								210
215	54.9	429.5	68,000	149,100	59.9	435.6	49,800	135,700				215
220	53.4	425.7	64,700	144,400	58.6	432.6	47,000	131,300				220
225	52.0	421.8	61,600	139,900	57.2	429.3	44,300	127,100				225
230	50.5	417.6	58,600	135,600	55.9	425.9	41,800	123,100				230
235	49.0	413.2	55,800	131,500	54.5	422.2	39,300	119,200				235
240	47.5	408.6	53,100	127,500	53.0	418.4	36,900	115,600				240
250	44.3	398.6	47,900	120,100	50.1	410.2	32,500	108,600				250
260	40.8	387.3	43,100	113,300	47.0	401.1	28,300	102,300	52.4	409.1	91,600	260
270	37.2	374.5	38,700	106,900	43.8	390.8	24,500	96,300	49.5	400.7	86,100	270
280	33.1	359.7	34,500	101,000	40.3	379.4	20,900	90,800	46.4	391.3	81,000	280
290	28.6	342.3	30,600	95,500	36.6	366.3		85,700	43.1	380.8	76,200	290
300	23.2	320.7	26,800	90,300	32.5	351.2		80,900	39.6	369.1	71,800	300
310	16.0	290.9	23,200	85,400	27.8	333.3		76,400	35.8	355.6	67,600	310
320					22.3	310.8		72,100	31.6	340.0	63,600	320
330					14.7	279.0		68,000	26.8	321.3	59,900	330
340									20.9	297.6	56,300	340
350									12.5	262.0	52,900	350

MLC650 VPC-MAX S-2

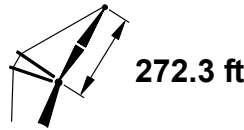
ASME B30.5



661,300 lb



223.1 ft



272.3 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105	74.4	493.9	197,800	197,800									105
110	73.3	492.4	196,900	196,900									110
115	72.2	490.7	196,400	196,400									115
120	71.1	489.0	195,700	195,700	72.8	490.7	194,100	194,100					120
125	70.0	487.1	195,000	195,000	71.7	489.0	194,100	194,100					125
130	68.9	485.1	194,200	194,200	70.6	487.2	193,900	193,900					130
135	67.7	483.1	193,300	193,300	69.5	485.3	193,600	193,600					135
140	66.6	480.9	192,400	192,400	68.4	483.3	189,300	193,300					140
145	65.4	478.5	191,300	191,300	67.2	481.2	180,000	192,800	69.8	484.0	162,600	186,900	145
150	64.2	476.1	182,700	190,300	66.1	478.9	171,400	192,300	68.7	482.0	154,600	186,900	150
155	63.1	473.5	174,200	189,100	64.9	476.5	163,300	191,700	67.6	479.9	147,000	186,900	155
160	61.9	470.8	166,300	188,000	63.7	474.0	155,700	191,000	66.4	477.7	140,000	186,900	160
165	60.7	467.9	158,800	186,700	62.5	471.4	148,600	190,300	65.3	475.4	133,400	186,900	165
170	59.4	464.9	151,800	183,100	61.3	468.6	141,900	189,500	64.1	472.9	127,200	186,900	170
175	58.2	461.8	145,200	177,800	60.1	465.7	135,600	188,700	62.9	470.3	121,300	186,900	175
180	56.9	458.5	139,000	172,400	58.9	462.6	129,700	187,900	61.7	467.6	115,800	186,900	180
185	55.7	455.1	133,100	167,100	57.6	459.4	124,100	186,900	60.5	464.7	110,600	186,900	185
190	54.4	451.4	127,600	161,900	56.4	456.1	118,800	186,000	59.3	461.7	105,600	186,900	190
195	53.0	447.6	122,300	156,600	55.1	452.5	113,700	183,300	58.0	458.5	101,000	183,600	195
200	51.7	443.6	117,300	151,500	53.8	448.8	108,900	178,000	56.8	455.2	96,500	177,600	200
205	50.3	439.5	112,500	146,600	52.4	444.9	104,400	172,700	55.5	451.7	92,300	171,800	205
210	48.9	435.1	108,000	141,700	51.1	440.9	100,100	167,400	54.2	448.1	88,200	166,200	210
215	47.5	430.4	103,700	137,100	49.7	436.6	95,900	162,200	52.8	444.3	84,400	161,000	215
220	46.0	425.6	99,500	132,500	48.3	432.1	92,000	157,000	51.5	440.3	80,700	156,000	220
225	44.5	420.5	95,600	128,200	46.8	427.4	88,200	152,000	50.1	436.0	77,200	151,200	225
230	43.0	415.1	91,800	124,000	45.3	422.4	84,600	147,100	48.7	431.6	73,900	146,600	230
235	41.4	409.4	88,200	120,000	43.8	417.1	81,200	142,400	47.3	427.0	70,700	142,300	235
240	39.7	403.3	84,700	116,200	42.2	411.6	77,800	137,800	45.8	422.1	67,600	138,100	240
250	36.2	390.1	78,200	109,200	39.0	399.5	71,600	129,100	42.7	411.5	61,800	130,200	250
260	32.4	374.9	72,100	103,100	35.4	385.9	65,800	121,200	39.5	399.6	56,400	122,900	260
270	28.1	357.1	66,400	97,900	31.5	370.2	60,400	114,200	36.0	386.3	51,400	116,200	270
280	23.0	335.3	61,100	93,900	27.0	351.7	55,300	108,300	32.1	370.9	46,700	109,900	280
290	16.5	306.0	56,000	84,000	21.8	328.6	50,500	97,700	27.8	352.9	42,300	104,100	290
300	1.8	236.7	50,500	59,100	14.7	296.5	45,900	82,700	22.7	330.7	38,100	98,600	300
310									16.0	300.6	34,100	88,700	310
320													320
330													330
340													340
350													350
360													360
370													370

MLC650 VPC-MAX S-2

ASME B30.5



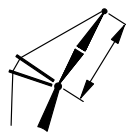
661,300 lb



360°



223.1 ft



272.3 ft

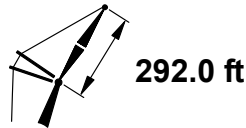
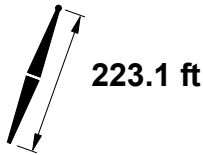
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190	63.8	467.9	84,100	173,000								190
195	62.7	465.3	80,000	168,200								195
200	61.5	462.5	76,100	162,500								200
205	60.2	459.6	72,400	157,000								205
210	59.0	456.6	68,800	151,900								210
215	57.8	453.4	65,500	147,000								215
220	56.5	450.0	62,300	142,300								220
225	55.2	446.5	59,200	137,800	59.9	452.6	41,500	124,800				225
230	53.9	442.8	56,200	133,600	58.6	449.5	39,000	120,800				230
235	52.6	439.0	53,400	129,500	57.4	446.3	36,600	117,000				235
240	51.2	434.9	50,700	125,600	56.1	442.9	34,200	113,400				240
250	48.4	426.2	45,600	118,200	53.5	435.6	29,900	106,500				250
260	45.5	416.5	40,900	111,400	50.8	427.6	25,800	100,200				260
270	42.4	405.8	36,600	105,100	48.0	418.7	22,000	94,300	53.0	426.3	83,900	270
280	39.1	393.9	32,500	99,300	45.1	408.9		88,900	50.2	418.1	78,800	280
290	35.6	380.3	28,700	93,800	42.0	398.0		83,800	47.4	409.0	74,100	290
300	31.7	364.7	25,100	88,700	38.6	385.8		79,100	44.4	399.0	69,700	300
310	27.3	346.4	21,600	84,000	35.0	372.0		74,600	41.3	387.9	65,600	310
320	22.1	323.6		79,400	31.1	356.1		70,500	37.9	375.4	61,700	320
330	15.1	292.2		75,100	26.6	337.2		66,500	34.3	361.2	58,100	330
340					21.2	313.6		62,800	30.2	344.7	54,600	340
350					13.8	280.0		59,100	25.6	325.0	51,300	350
360									19.9	300.0	48,200	360
370									11.7	262.3	45,100	370

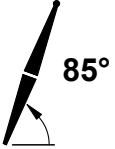
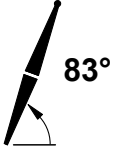
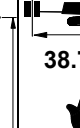
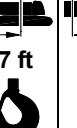
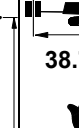
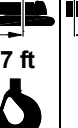
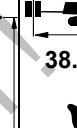
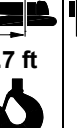
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



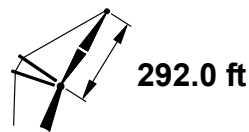
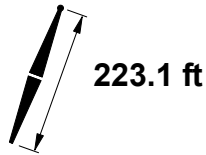
	 85°					 83°					 80°					
 ft	 °	 ft	 lb	 lb		 °	 ft	 lb	 lb		 °	 ft	 lb	 lb	 ft	
110	74.5	512.9	184,300	184,300												110
115	73.5	511.4	183,800	183,800												115
120	72.4	509.8	183,100	183,100												120
125	71.4	508.1	182,400	182,400												125
130	70.4	506.3	181,700	181,700												130
135	69.3	504.3	180,900	180,900	72.0	508.1	180,900	180,900								135
140	68.3	502.3	180,000	180,000	70.9	506.3	180,600	180,600								140
145	67.2	500.2	179,000	179,000	69.9	504.5	180,200	180,200								145
150	66.1	497.9	174,900	178,000	68.8	502.5	171,700	179,800								150
155	65.0	495.6	166,500	177,000	67.8	500.4	163,100	179,300								155
160	63.9	493.1	158,600	175,900	66.7	498.2	155,100	178,700	69.2	501.2	138,100	174,000				160
165	62.8	490.5	151,200	174,800	65.6	495.9	147,500	178,000	68.1	499.2	131,200	174,000				165
170	61.7	487.7	144,200	173,700	64.5	493.5	140,500	177,300	67.0	497.0	124,600	174,000				170
175	60.6	484.9	137,600	172,500	63.4	491.0	133,900	176,600	66.0	494.8	118,500	174,000				175
180	59.4	481.9	131,400	168,400	62.3	488.3	127,600	175,800	64.9	492.4	112,700	174,000				180
185	58.3	478.8	125,600	163,700	61.2	485.6	121,700	175,000	63.8	489.9	107,200	173,900				185
190	57.1	475.5	120,100	159,000	60.1	482.6	116,100	174,100	62.7	487.3	102,100	173,700				190
195	55.9	472.1	114,800	154,400	58.9	479.6	110,900	173,200	61.6	484.5	97,200	173,400				195
200	54.7	468.5	109,800	149,700	57.8	476.4	105,900	172,300	60.4	481.7	92,500	173,100				200
205	53.5	464.8	105,100	145,100	56.6	473.1	101,100	171,400	59.3	478.7	88,100	171,000				205
210	52.2	460.9	100,600	140,500	55.4	469.6	96,600	170,000	58.1	475.5	83,900	165,300				210
215	51.0	456.8	96,300	136,100	54.2	465.9	92,300	165,300	56.9	472.2	80,000	159,800				215
220	49.7	452.5	92,200	131,800	52.9	462.1	88,200	160,700	55.8	468.8	76,200	154,600				220
225	48.4	448.0	88,300	127,600	51.7	458.1	84,300	156,000	54.5	465.2	72,500	149,600				225
230	47.0	443.3	84,500	123,600	50.4	454.0	80,600	151,400	53.3	461.4	69,100	144,900				230
235	45.6	438.4	80,900	119,600	49.1	449.6	77,000	146,800	52.1	457.5	65,800	140,300				235
240	44.2	433.2	77,500	115,800	47.8	445.0	73,600	142,300	50.8	453.4	62,600	136,000				240
250	41.3	422.1	71,000	108,600	46.4	440.2	70,300	137,900	49.5	449.1	59,500	131,800				250
260	38.2	409.7	65,000	102,100	43.6	429.9	64,100	129,500	46.8	439.8	53,800	124,000				260
270	34.8	395.7	59,400	96,300	40.6	418.5	58,400	121,600	44.0	429.7	48,500	116,800				270
280	31.1	379.8	54,200	91,200	37.4	405.8	53,000	114,300	41.1	418.5	43,600	110,200				280
290	26.9	361.1	49,300	87,000	34.0	391.4	48,100	107,700	37.9	406.0	39,000	104,000				290
300	22.0	338.2	44,600	78,600	30.2	374.9	43,400	101,200	34.6	391.9	34,700	98,200				300
310	15.7	307.4	40,100	65,700	25.9	355.5	39,000	89,800	30.8	375.8	30,700	92,800				310
320					20.8	331.3	34,900	78,000	26.6	356.8	26,900	87,700				320
330					13.9	297.4	30,800	64,600	21.7	333.6	23,200	82,900				330
340										15.2	301.9		70,100			340
350																350
360																360
370																370
380																380
390																390

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



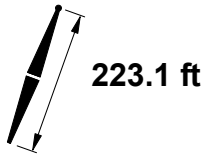
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195	64.7	487.4	70,700	159,700								195
200	63.6	484.9	66,800	155,300								200
205	62.4	482.2	63,200	150,000								205
210	61.3	479.5	59,700	144,900								210
215	60.2	476.6	56,400	140,000								215
220	59.0	473.5	53,300	135,400								220
225	57.9	470.4	50,200	131,000								225
230	56.7	467.0	47,400	126,700								230
235	55.5	463.6	44,600	122,700	59.9	469.6	109,700					235
240	54.3	459.9	41,900	118,800	58.7	466.5	106,100					240
250	51.8	452.2	37,000	111,500	56.4	459.9	99,400					250
260	49.2	443.7	32,300	104,800	53.9	452.7	93,100					260
270	46.6	434.4	28,100	98,600	51.4	444.8	87,400					270
280	43.7	424.1	24,100	92,800	48.8	436.2	82,000	53.4	443.4	71,500		280
290	40.8	412.8	20,400	87,500	46.2	426.8	77,000	50.9	435.4	66,900		290
300	37.6	400.1		82,400	43.3	416.4	72,400	48.3	426.6	62,600		300
310	34.2	385.8		77,700	40.3	404.8	68,000	45.6	417.0	58,600		310
320	30.4	369.5		73,300	37.1	392.0	63,900	42.7	406.4	54,800		320
330	26.2	350.2		69,100	33.7	377.4	60,000	39.7	394.6	51,200		330
340	21.1	326.4		65,200	29.8	360.7	56,400	36.4	381.4	47,800		340
350	14.3	293.3		61,400	25.5	340.9	52,900	32.9	366.4	44,600		350
360					20.2	316.2	49,600	29.0	349.2	41,600		360
370					13.0	280.7	46,400	24.5	328.5	38,700		370
380								19.0	302.3	35,900		380
390								10.9	262.4	33,200		390

MLC650 VPC-MAX S-2

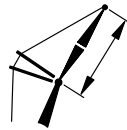
ASME B30.5



661,300 lb



223.1 ft



311.7 ft

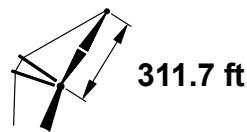
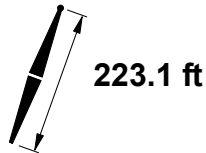
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.6	532.0	159,900	159,900									115
120	73.6	530.5	159,400	159,400									120
125	72.6	528.9	158,800	158,800									125
130	71.7	527.2	158,100	158,100									130
135	70.7	525.4	157,300	157,300	72.2	527.2	156,600	156,600					135
140	69.7	523.5	156,500	156,500	71.2	525.5	156,200	156,200					140
145	68.7	521.5	155,700	155,700	70.2	523.6	155,800	155,800					145
150	67.7	519.5	155,000	155,000	69.3	521.7	155,300	155,300					150
155	66.7	517.3	153,900	153,900	68.3	519.7	153,000	154,700					155
160	65.7	515.0	153,100	153,100	67.3	517.6	145,500	154,100	69.6	520.4	128,900	150,100	160
165	64.7	512.6	149,400	152,100	66.3	515.3	138,500	153,600	68.6	518.4	122,400	150,000	165
170	63.7	510.1	142,400	151,100	65.2	513.0	131,900	152,900	67.6	516.3	116,200	150,000	170
175	62.6	507.4	135,900	150,100	64.2	510.5	125,700	152,200	66.6	514.1	110,500	149,800	175
180	61.6	504.7	129,700	149,100	63.2	508.0	119,800	151,400	65.6	511.8	105,000	149,600	180
185	60.5	501.8	123,900	148,000	62.1	505.3	114,200	150,600	64.5	509.4	99,900	149,400	185
190	59.4	498.9	118,300	147,000	61.1	502.5	109,000	149,900	63.5	506.9	95,000	149,100	190
195	58.4	495.7	113,100	144,700	60.0	499.6	104,000	149,100	62.5	504.3	90,400	148,700	195
200	57.3	492.5	108,100	140,900	59.0	496.5	99,300	148,200	61.4	501.5	86,000	148,300	200
205	56.1	489.1	103,400	137,000	57.9	493.4	94,800	147,400	60.4	498.6	81,900	147,900	205
210	55.0	485.6	98,900	133,200	56.8	490.1	90,500	146,500	59.3	495.6	77,900	147,500	210
215	53.9	481.9	94,600	129,300	55.6	486.6	86,400	145,700	58.2	492.5	74,100	147,000	215
220	52.7	478.1	90,500	125,500	54.5	483.0	82,500	144,800	57.1	489.2	70,500	146,500	220
225	51.5	474.1	86,600	121,800	53.4	479.3	78,800	143,200	56.0	485.8	67,100	143,100	225
230	50.3	469.9	82,900	118,200	52.2	475.3	75,200	139,300	54.9	482.3	63,800	138,600	230
235	49.1	465.5	79,300	114,700	51.0	471.3	71,800	135,500	53.7	478.5	60,600	134,300	235
240	47.9	461.0	75,900	111,200	49.8	467.0	68,500	131,600	52.6	474.7	57,600	130,100	240
250	45.3	451.2	69,400	104,500	47.3	457.9	62,400	124,200	50.2	466.5	51,900	122,400	250
260	42.6	440.6	63,500	98,300	44.7	448.0	56,700	117,100	47.7	457.5	46,700	115,200	260
270	39.8	428.8	57,900	92,600	42.0	437.1	51,400	110,300	45.1	447.7	41,800	108,600	270
280	36.8	415.8	52,800	87,400	39.1	425.1	46,500	103,900	42.4	437.0	37,300	102,400	280
290	33.5	401.1	47,900	82,700	36.1	411.7	42,000	98,100	39.6	425.1	33,000	96,700	290
300	29.9	384.4	43,400	78,600	32.7	396.6	37,600	92,800	36.6	412.0	29,000	91,300	300
310	25.9	364.9	39,100	75,200	29.1	379.4	33,600	85,900	33.3	397.2	25,300	86,300	310
320	21.1	341.0	35,000	65,700	24.9	359.0	29,700	75,800	29.7	380.4	21,800	81,600	320
330	14.9	308.7	31,100	54,200	19.9	333.8	26,000	65,300	25.6	360.6	17,100	77,100	330
340					13.1	298.2	22,400	53,200	20.8	336.3		69,900	340
350									14.4	303.1		58,400	350
360													360
370													370
380													380
390													390
400													400
410													410

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



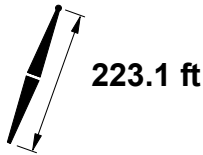
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205	64.3	504.4	60,700	137,300								205
210	63.3	501.9	57,300	137,300								210
215	62.3	499.2	54,000	137,300								215
220	61.2	496.4	50,900	133,400								220
225	60.1	493.5	47,900	129,000								225
230	59.1	490.5	45,000	124,800								230
235	58.0	487.3	42,300	120,800								235
240	56.9	484.0	39,700	116,900								240
250	54.6	477.0	34,700	109,700	58.8	483.4	97,300					250
260	52.3	469.4	30,200	103,000	56.6	476.9	91,100					260
270	49.9	461.1	25,900	96,800	54.3	469.8	85,400					270
280	47.5	452.0	22,000	91,100	52.0	462.1	80,100					280
290	44.9	442.2		85,800	49.6	453.7	75,100	53.8	460.5	64,800		290
300	42.2	431.3		80,800	47.1	444.5	70,500	51.5	452.7	60,600		300
310	39.3	419.4		76,100	44.5	434.5	66,200	49.1	444.1	56,600		310
320	36.2	406.1		71,700	41.8	423.5	62,100	46.6	434.8	52,800		320
330	32.9	391.1		67,600	38.9	411.4	58,300	43.9	424.6	49,300		330
340	29.3	374.0		63,700	35.8	397.9	54,700	41.2	413.4	46,000		340
350	25.2	353.9		60,000	32.4	382.6	51,300	38.2	401.0	42,900		350
360	20.2	328.9		56,500	28.7	365.1	48,100	35.1	387.1	39,900		360
370	13.6	294.2		53,100	24.5	344.4	45,000	31.7	371.5	37,100		370
380					19.4	318.5	42,100	27.9	353.4	34,400		380
390					12.3	281.2	39,200	23.5	331.8	31,800		390
400								18.1	304.4	29,300		400
410								10.2	262.2	26,800		410

MLC650 VPC-MAX S-2

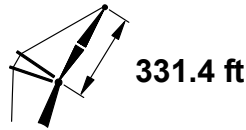
ASME B30.5



661,300 lb



223.1 ft



331.4 ft

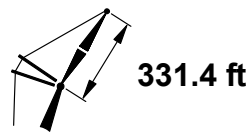
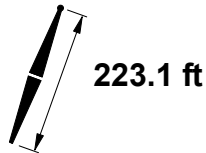
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
120	74.6	551.0	138,100	138,100									120
125	73.7	549.5	137,500	137,500									125
130	72.8	547.9	136,800	136,800									130
135	71.9	546.3	136,100	136,100									135
140	71.0	544.5	135,300	135,300									140
145	70.0	542.7	134,600	134,600	72.4	546.3	134,600	134,600					145
150	69.1	540.7	133,700	133,700	71.5	544.6	134,200	134,200					150
155	68.2	538.7	132,900	132,900	70.5	542.8	133,700	133,700					155
160	67.2	536.6	132,000	132,000	69.6	540.9	133,100	133,100					160
165	66.3	534.3	131,100	131,100	68.7	538.9	132,500	132,500					165
170	65.3	532.0	130,200	130,200	67.8	536.8	131,900	131,900	69.9	539.6	118,600	128,400	170
175	64.4	529.6	129,400	129,400	66.8	534.7	128,400	131,200	69.0	537.6	112,500	128,200	175
180	63.4	527.1	126,400	128,400	65.9	532.4	122,200	130,600	68.0	535.6	106,700	128,000	180
185	62.4	524.4	120,600	127,500	64.9	530.0	116,300	129,900	67.1	533.5	101,300	127,800	185
190	61.4	521.7	115,100	126,600	63.9	527.5	110,800	129,200	66.2	531.2	96,200	127,500	190
195	60.4	518.8	109,800	125,600	63.0	525.0	105,500	128,500	65.2	528.9	91,300	127,200	195
200	59.4	515.8	104,900	124,700	62.0	522.3	100,600	127,700	64.2	526.4	86,700	126,800	200
205	58.4	512.7	100,200	123,800	61.0	519.5	95,800	127,000	63.3	523.9	82,400	126,400	205
210	57.4	509.5	95,700	122,800	60.0	516.5	91,400	126,200	62.3	521.2	78,200	126,000	210
215	56.4	506.1	91,400	120,700	59.0	513.5	87,100	125,400	61.3	518.5	74,300	125,500	215
220	55.3	502.6	87,300	117,600	58.0	510.3	83,000	124,700	60.3	515.6	70,500	125,100	220
225	54.2	499.0	83,400	114,400	56.9	507.1	79,100	123,900	59.3	512.6	67,000	124,600	225
230	53.1	495.2	79,700	111,300	55.9	503.6	75,400	123,100	58.3	509.4	63,500	124,100	230
235	52.0	491.3	76,100	108,200	54.8	500.1	71,900	122,300	57.2	506.2	60,200	123,600	235
240	50.9	487.2	72,700	105,100	53.7	496.4	68,500	121,500	56.2	502.8	57,100	123,000	240
250	48.6	478.5	66,300	99,300	52.7	492.5	65,200	120,800	55.2	499.3	54,100	122,500	250
260	46.3	469.1	60,300	93,600	50.4	484.4	59,100	117,100	53.0	491.9	48,500	119,500	260
270	43.8	458.8	54,800	88,300	48.1	475.5	53,500	110,900	50.8	483.8	43,200	112,400	270
280	41.2	447.6	49,700	83,300	45.7	465.9	48,200	104,900	48.5	475.1	38,400	105,800	280
290	38.4	435.3	44,900	78,600	43.2	455.4	43,400	99,200	46.1	465.6	33,900	99,700	290
300	35.5	421.6	40,400	74,400	40.6	444.0	38,800	93,700	43.6	455.2	29,700	94,000	300
310	32.4	406.3	36,200	70,700	37.8	431.4	34,500	88,600	41.0	443.9	25,800	88,700	310
320	28.9	388.9	32,200	67,400	34.8	417.4	30,500	83,900	38.2	431.5	22,100	83,700	320
330	25.0	368.5	28,500	62,100	31.6	401.7	26,800	78,100	35.3	417.8		79,000	330
340	20.3	343.6	24,900	52,800	28.0	383.7	23,200	70,900	32.1	402.3		74,600	340
350		309.8	21,300	42,400	24.0	362.4		61,900	28.6	384.7		70,400	350
360					19.1	336.1		52,500	24.7	364.1		66,000	360
370					12.4	298.7		41,600	19.9	338.8		56,800	370
380									13.7	304.0		46,300	380
390													390
400													400
410													410
420													420
425													425

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



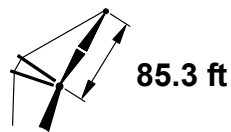
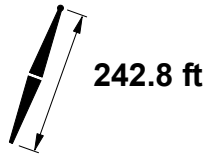
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215	64.0	521.4	50,100	116,600								215
220	63.1	518.9	47,000	116,600								220
225	62.1	516.2	44,000	116,600								225
230	61.1	513.4	41,200	116,600								230
235	60.1	510.5	38,400	116,600								235
240	59.1	507.5	35,800	113,800								240
250	57.0	501.0	30,900	106,600								250
260	54.9	494.1	26,400	100,000	58.8	500.4	87,900					260
270	52.8	486.6	22,200	93,900	56.7	493.9	82,200					270
280	50.5	478.4		88,200	54.6	486.9	77,000					280
290	48.2	469.6		82,900	52.4	479.3	72,100					290
300	45.8	460.1		77,900	50.2	471.1	67,500	54.2	477.6	57,400		300
310	43.3	449.6		73,300	47.9	462.1	63,200	52.0	469.9	53,400		310
320	40.7	438.3		69,000	45.5	452.5	59,200	49.7	461.5	49,700		320
330	38.0	425.7		64,900	43.0	441.9	55,400	47.4	452.5	46,300		330
340	35.0	411.8		61,000	40.3	430.3	51,900	45.0	442.6	43,000		340
350	31.8	396.2		57,400	37.5	417.6	48,500	42.4	431.9	39,900		350
360	28.2	378.3		53,900	34.5	403.5	45,300	39.8	420.1	36,900		360
370	24.2	357.3		50,600	31.3	387.6	42,300	36.9	407.1	34,200		370
380	19.4	331.3		47,500	27.7	369.3	39,400	33.9	392.6	31,500		380
390	12.9	294.9		44,500	23.6	347.7	36,600	30.6	376.3	29,000		390
400					18.6	320.7	34,000	26.9	357.4	26,600		400
410					11.6	281.5	31,400	22.6	334.9	24,200		410
420								17.4	306.3	22,000		420
425								14.0	287.5	20,900		425

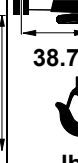
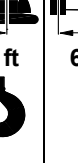
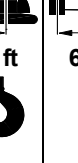
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



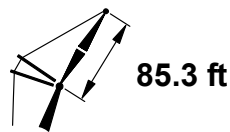
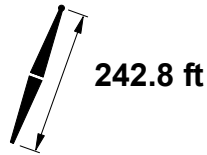
	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	72.0	332.1	561,300 d	668,300 d									60
65	68.3	330.0	511,000 c	646,600 c									65
70	64.6	327.5	468,400 c	624,300 c	70.9	330.5	445,800 c	661,200 c					70
75	60.7	324.6	431,700 b	602,100 b	67.2	328.3	410,900 c	640,500 c					75
80	56.6	321.2	399,900 b	580,400 b	63.4	325.6	380,600 c	619,300 c					80
85	52.4	317.2	372,000 b	559,600 b	59.5	322.6	354,000 b	577,400 b	69.1	327.4	326,800 c	556,300 c	85
90	47.8	312.5	347,300	540,100	55.3	319.0	330,400 b	540,100 b	65.4	325.0	305,000 c	520,400 c	90
95	42.8	307.1	325,200	519,600	51.0	314.8	309,400	507,100	61.5	322.2	285,600 b	488,500 b	95
100	37.2	300.4	305,300	489,500	46.3	309.9	290,600	477,700	57.5	318.9	268,200 b	460,200 b	100
105	30.7	292.1	287,200	462,400	41.1	304.1	273,500	451,300	53.3	315.0	252,400 b	434,700 b	105
110	22.3	280.6	270,500	385,900	35.3	297.1	257,900	427,400	48.7	310.5	238,100	411,700	110
115					28.4	288.0	243,500	405,700	43.8	305.2	224,900	390,800	115
120					18.8	274.7	229,900	369,600	38.4	298.8	212,800	371,800	120
125									32.1	290.9	201,600	354,300	125
130									24.3	280.3	191,000	338,200	130
135									11.0	261.2	180,500	323,000	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-2

ASME B30.5



661,300 lb



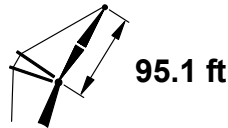
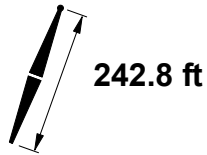
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115	62.0	317.7	193,200 b	366,400 b									115
120	58.0	314.5	182,800 b	348,500 b									120
125	53.8	310.7	173,200 b	332,100 b									125
130	49.4	306.3	164,300	317,100									130
135	44.5	301.1	156,000	303,200									135
140	39.2	294.9	148,300	290,300	58.2	307.9	123,400 b	271,200 b					140
145	33.0	287.2	140,900	278,300	54.0	304.2	117,300 b	260,000 b					145
150	25.5	277.1	133,900	267,000	49.5	299.8	111,500	249,600					150
155	13.7	260.3	126,800	256,300	44.7	294.6	106,100	239,900					155
160					39.4	288.5	100,900	230,700					160
165					33.3	280.9	95,900	222,100	53.5	295.4	75,900	206,800	165
170					25.7	270.8	91,100	213,900	49.0	290.9	72,100	199,300	170
175					14.3	254.5	86,100	206,000	44.2	285.7	68,400	192,200	175
180									38.8	279.4	64,900	185,500	180
185									32.6	271.6	61,400	179,100	185
190									24.9	261.3	58,000	172,900	190
195									12.4	243.4	54,200	166,800	195

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



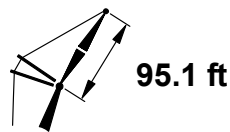
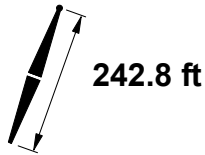
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	73.9	342.6	558,600 c	644,500 c									60
65	70.7	340.7	508,400 c	625,400 c									65
70	67.4	338.5	465,800 c	605,500 c	72.9	341.0	442,800 c	638,400 c					70
75	64.1	336.0	429,300 b	585,200 b	69.7	339.1	408,000 c	620,600 c					75
80	60.6	333.0	397,600 b	565,100 b	66.4	336.8	377,800 b	601,700 b					80
85	57.0	329.7	369,800 b	545,500 b	63.0	334.1	351,300 b	574,100 b					85
90	53.2	325.8	345,200	526,800	59.5	331.0	327,900 b	537,000 b	68.1	335.9	301,900 b	517,000 b	90
95	49.1	321.4	323,200	509,000	55.8	327.5	307,000	504,200	64.8	333.5	282,600 b	485,400 b	95
100	44.8	316.3	303,500	487,000	51.9	323.5	288,300	475,000	61.3	330.6	265,300 b	457,200 b	100
105	40.1	310.3	285,700	460,100	47.8	318.9	271,300	448,700	57.7	327.4	249,600 b	431,800 b	105
110	34.9	303.1	269,500	435,700	43.4	313.5	255,900	425,000	53.9	323.6	235,400	409,000	110
115	28.7	294.1	254,500	413,700	38.6	307.2	241,900	403,400	50.0	319.3	222,400	388,200	115
120	20.6	281.7	240,600	349,300	33.1	299.5	228,900	383,800	45.7	314.3	210,500	369,300	120
125					26.4	289.7	216,800	365,700	41.1	308.5	199,500	352,000	125
130					17.3	275.4	205,300	335,500	36.0	301.6	189,300	336,000	130
135									30.0	293.1	179,800	321,300	135
140									22.5	281.6	170,700	307,600	140
145									9.4	260.5	161,500	294,600	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-2

ASME B30.5



661,300 lb



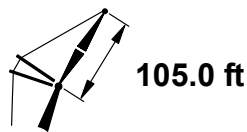
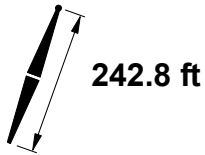
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	61.8	326.2	179,600 b	345,500 b									120
125	58.2	323.0	170,100 b	329,300 b									125
130	54.5	319.3	161,300	314,300									130
135	50.5	315.0	153,200	300,600									135
140	46.3	310.2	145,600	287,800									140
145	41.8	304.5	138,500	275,900	58.3	316.4	113,900	257,200					145
150	36.7	297.8	131,800	264,900	54.6	312.7	108,300	246,900					150
155	30.9	289.5	125,400	254,500	50.6	308.5	103,000	237,200					155
160	23.7	278.6	119,200	244,700	46.5	303.7	98,000	228,200					160
165	12.2	260.3	113,000	235,300	41.9	298.0	93,200	219,700					165
170					36.9	291.3	88,700	211,700	54.2	304.0	68,700	196,600	170
175					31.1	283.1	84,300	204,100	50.2	299.7	65,200	189,500	175
180					23.9	272.3	80,000	196,900	46.0	294.8	61,800	182,900	180
185					12.8	254.5	75,500	189,900	41.4	289.1	58,500	176,600	185
190									36.4	282.2	55,400	170,700	190
195									30.5	273.8	52,300	164,900	195
200									23.1	262.7	49,200	159,400	200
205									10.9	243.1	45,800	153,900	205

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



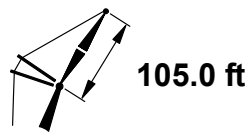
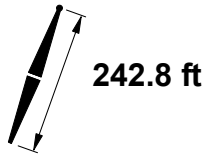
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	72.6	351.2	506,900 c	604,600 c									65
70	69.7	349.3	464,400 c	586,900 c									70
75	66.7	347.0	428,000 b	568,700 b	71.7	349.6	406,400 c	600,600 c					75
80	63.6	344.4	396,400 b	550,300 b	68.8	347.6	376,300 b	584,000 b					80
85	60.5	341.5	368,600 b	532,100 b	65.8	345.3	349,800 b	566,800 b					85
90	57.2	338.2	344,100	514,400	62.7	342.6	326,500 b	534,900 b					90
95	53.8	334.4	322,300	497,400	59.5	339.5	305,700 b	502,200 b	67.3	344.5	280,900 b	483,200 b	95
100	50.2	330.2	302,700	481,300	56.1	336.1	287,100	473,100	64.3	341.9	263,700 b	455,100 b	100
105	46.4	325.3	285,000	455,900	52.7	332.2	270,300	447,000	61.1	339.1	248,100 b	429,900 b	105
110	42.3	319.8	269,000	432,000	49.0	327.7	255,000	423,400	57.9	335.9	234,000	407,200	110
115	37.9	313.3	254,300	410,800	45.2	322.7	241,100	402,000	54.5	332.2	221,100	386,500	115
120	32.9	305.6	240,800	392,300	41.0	316.9	228,300	382,400	50.9	328.0	209,300	367,700	120
125	26.9	296.0	228,200	374,000	36.4	310.0	216,500	364,600	47.2	323.3	198,500	350,500	125
130	19.2	282.7	216,400	318,500	31.1	301.8	205,500	348,100	43.2	317.9	188,400	334,700	130
135					24.8	291.4	195,200	332,900	38.8	311.6	179,100	320,100	135
140					15.9	275.9	185,300	306,700	33.9	304.2	170,300	306,500	140
145									28.2	295.1	162,100	293,900	145
150									21.0	282.8	154,200	282,100	150
155									8.0	259.4	146,100	270,900	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-2

ASME B30.5



661,300 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	177,700	343,600									120
125	61.5	334.6	168,300	327,500									125
130	58.3	331.4	159,700	312,600									130
135	55.0	327.8	151,600	298,900									135
140	51.4	323.8	144,100	286,200									140
145	47.7	319.1	137,100	274,500									145
150	43.7	313.8	130,600	263,500	58.4	324.9	106,400	245,200					150
155	39.4	307.7	124,400	253,300	55.1	321.3	101,200	235,600					155
160	34.6	300.4	118,500	243,700	51.5	317.2	96,300	226,600					160
165	29.1	291.6	112,900	234,600	47.8	312.6	91,700	218,200					165
170	22.1	279.9	107,500	226,000	43.9	307.3	87,300	210,300					170
175	10.9	260.0	101,900	217,800	39.6	301.2	83,100	202,900	54.7	312.6	63,300	187,900	175
180					34.8	294.0	79,000	195,800	51.2	308.4	60,000	181,400	180
185					29.3	285.2	75,100	189,100	47.5	303.8	56,900	175,200	185
190					22.4	273.7	71,300	182,700	43.5	298.4	53,900	169,300	190
195					11.5	254.4	67,200	176,400	39.1	292.2	51,000	163,700	195
200									34.3	284.9	48,200	158,400	200
205									28.7	275.9	45,400	153,200	205
210									21.6	263.9	42,600	148,300	210
215									9.6	242.5	39,400	143,300	215

MLC650 VPC-MAX S-2

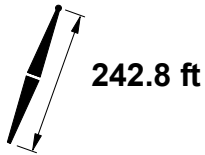
ASME B30.5



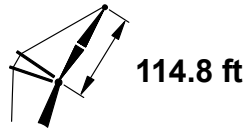
661,300 lb



360°



242.8 ft



114.8 ft

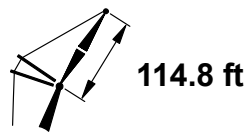
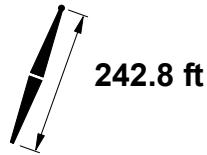
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	74.2	361.6	504,200 c	572,200 c									65
70	71.5	359.9	461,700 b	564,600 b									70
75	68.8	357.8	425,400 b	548,500 b									75
80	66.1	355.5	393,800 b	532,100 b	70.7	358.3	373,300 b	562,200 b					80
85	63.3	352.9	366,100 b	515,500 b	68.0	356.1	347,000 b	547,300 b					85
90	60.4	350.0	341,700	499,200	65.2	353.7	323,700 b	531,700 b					90
95	57.4	346.7	319,900	483,300	62.4	351.0	303,000	499,300	69.4	355.2	277,800 b	480,000 b	95
100	54.3	343.0	300,400	468,000	59.5	348.0	284,500	470,300	66.6	353.0	260,600 b	452,000 b	100
105	51.1	338.9	282,800	444,100	56.4	344.6	267,700	444,200	63.9	350.4	245,100	426,900	105
110	47.7	334.3	266,900	420,500	53.3	340.8	252,500	420,800	61.0	347.6	231,100	404,300	110
115	44.1	329.0	252,300	398,700	50.0	336.5	238,700	399,400	58.0	344.4	218,300	383,800	115
120	40.2	323.0	238,900	378,900	46.6	331.7	226,000	380,000	54.9	340.8	206,600	365,100	120
125	35.9	316.1	226,600	361,600	42.9	326.2	214,300	362,200	51.7	336.7	195,800	347,900	125
130	31.1	307.9	215,200	347,100	38.9	320.0	203,500	345,900	48.4	332.2	185,900	332,200	130
135	25.4	297.7	204,500	336,200	34.5	312.7	193,500	330,800	44.8	327.1	176,600	317,700	135
140	18.0	283.5	194,300	289,700	29.5	304.0	184,100	316,800	41.0	321.3	168,000	304,200	140
145					23.4	292.8	175,200	303,700	36.8	314.6	160,000	291,700	145
150					14.8	276.3	166,600	279,300	32.1	306.6	152,400	280,100	150
155									26.7	296.9	145,300	269,200	155
160									19.7	283.9	138,400	258,900	160
165									6.5	257.9	131,100	249,000	165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
225													225

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



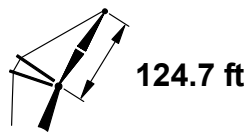
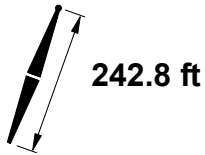
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	64.2	345.9	165,000	324,500									125
130	61.4	343.1	156,400	309,800									130
135	58.4	339.9	148,500	296,200									135
140	55.4	336.4	141,100	283,600									140
145	52.2	332.4	134,200	271,900									145
150	48.8	328.0	127,700	261,000									150
155	45.3	322.9	121,600	250,800	58.5	333.4	97,900	232,800					155
160	41.5	317.2	115,900	241,300	55.5	329.9	93,000	223,900					160
165	37.4	310.6	110,500	232,400	52.3	325.9	88,500	215,600					165
170	32.8	302.9	105,300	223,900	48.9	321.5	84,200	207,700					170
175	27.5	293.5	100,400	216,000	45.4	316.5	80,100	200,400					175
180	20.8	281.1	95,600	208,400	41.6	310.8	76,200	193,400					180
185	9.7	259.5	90,500	201,000	37.5	304.2	72,400	186,800	52.0	317.1	53,500	172,500	185
190					33.0	296.5	68,900	180,500	48.6	312.6	50,600	166,700	190
195					27.7	287.2	65,400	174,500	45.1	307.5	47,800	161,100	195
200					21.0	274.9	61,900	168,800	41.3	301.8	45,100	155,900	200
205					10.3	254.0	58,200	163,100	37.1	295.1	42,500	150,900	205
210									32.5	287.3	40,000	146,100	210
215									27.1	277.7	37,500	141,500	215
220									20.3	265.0	35,000	137,000	220
225									8.3	241.7	32,000	132,400	225

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



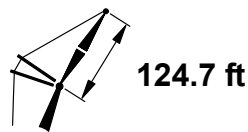
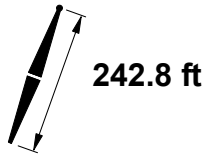
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.0	370.3	507,300 b	507,300 b									70
75	70.6	368.5	479,800 b	507,300 b									75
80	68.1	366.4	444,600 b	502,300 b	72.3	368.8	423,900 b	495,000 b					80
85	65.6	364.0	413,800 b	488,500 b	69.8	366.8	394,500 b	481,400 b					85
90	63.0	361.4	386,700	475,300	67.3	364.7	368,500 b	468,300 b					90
95	60.3	358.5	362,500	462,700	64.8	362.2	345,300	468,300					95
100	57.6	355.2	340,800	457,100	62.2	359.5	324,600	468,300	68.6	363.8	300,400	451,200	100
105	54.7	351.6	321,200	433,700	59.5	356.5	305,900	443,600	66.1	361.5	283,000	426,300	105
110	51.8	347.6	303,500	411,200	56.7	353.1	289,000	420,200	63.5	358.9	267,200	403,700	110
115	48.7	343.1	287,400	390,000	53.8	349.4	273,500	399,000	60.9	356.0	252,800	383,300	115
120	45.5	338.1	272,600	370,200	50.8	345.2	259,400	379,700	58.1	352.8	239,700	364,600	120
125	42.0	332.5	259,000	352,100	47.7	340.6	246,500	361,900	55.3	349.3	227,600	347,600	125
130	38.3	326.1	246,500	335,800	44.4	335.4	234,500	345,700	52.4	345.4	216,500	331,900	130
135	34.2	318.8	234,800	321,600	40.9	329.6	223,400	330,700	49.3	341.0	206,100	317,400	135
140	29.6	310.1	224,000	309,800	37.1	322.9	213,100	316,800	46.1	336.1	196,600	304,100	140
145	24.1	299.2	213,700	301,100	32.8	315.2	203,400	303,800	42.7	330.6	187,600	291,600	145
150	16.9	284.3	204,000	267,300	28.0	306.0	194,300	291,800	39.1	324.4	179,300	280,100	150
155					22.1	294.2	185,700	280,500	35.1	317.3	171,400	269,300	155
160					13.7	276.6	177,300	258,100	30.6	308.9	164,000	259,100	160
165									25.3	298.6	156,900	249,600	165
170									18.6	284.8	150,100	240,600	170
175									4.9	255.6	142,900	228,000	175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
225													225
230													230
235													235

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



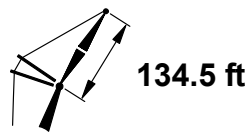
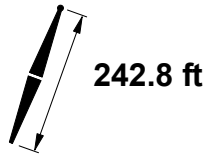
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	63.9	354.4	186,600	309,300									130
135	61.2	351.6	177,500	295,800									135
140	58.5	348.4	169,100	283,200									140
145	55.7	344.9	161,300	271,600									145
150	52.8	341.0	153,900	260,800									150
155	49.8	336.7	147,100	250,700									155
160	46.6	331.9	140,600	241,200	58.6	341.9	117,300	223,700					160
165	43.2	326.5	134,500	232,300	55.8	338.4	112,100	215,400					165
170	39.6	320.4	128,800	224,000	52.9	334.5	107,100	207,600					170
175	35.6	313.4	123,300	216,100	49.9	330.2	102,400	200,300					175
180	31.2	305.2	118,100	208,700	46.7	325.4	97,900	193,300					180
185	26.1	295.3	113,100	201,600	43.3	320.1	93,700	186,800					185
190	19.6	282.1	108,200	194,900	39.7	314.0	89,700	180,600	52.6	325.7	71,000	166,500	190
195	8.6	258.8	103,000	188,300	35.8	307.0	85,800	174,700	49.6	321.4	67,700	161,100	195
200					31.4	298.9	82,100	169,100	46.4	316.6	64,600	155,900	200
205					26.3	289.0	78,400	163,700	43.0	311.1	61,600	150,900	205
210					19.9	276.0	74,800	158,500	39.3	305.0	58,700	146,200	210
215					9.3	253.4	71,000	153,400	35.3	297.9	55,900	141,700	215
220									30.9	289.6	53,200	137,300	220
225									25.7	279.5	50,500	133,100	225
230									19.1	266.0	47,800	129,000	230
235									7.1	240.5	44,800	124,900	235

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.3	380.7	491,300 b	491,300 b									70
75	72.1	379.0	477,100 b	485,600 b									75
80	69.8	377.1	442,000 b	485,600 b									80
85	67.5	374.9	411,300	477,600	71.4	377.4	391,600 b	470,600 b					85
90	65.1	372.5	384,100	464,900	69.1	375.4	365,700	458,000					90
95	62.7	369.9	360,000	452,700	66.8	373.2	342,600	450,400					95
100	60.3	366.9	338,400	442,500	64.4	370.7	321,900	450,400					100
105	57.7	363.7	318,900	421,200	62.0	368.0	303,300	440,900	68.0	372.3	280,000	423,300	105
110	55.1	360.1	301,200	400,500	59.5	365.0	286,400	417,600	65.6	370.0	264,200	400,900	110
115	52.4	356.2	285,100	380,400	56.9	361.6	271,000	396,500	63.2	367.4	249,900	380,500	115
120	49.6	351.9	270,400	361,400	54.3	357.9	257,000	377,200	60.8	364.5	236,800	361,900	120
125	46.6	347.1	256,900	343,500	51.5	353.9	244,000	359,500	58.2	361.3	224,800	345,000	125
130	43.5	341.8	244,400	327,000	48.7	349.4	232,100	343,300	55.6	357.8	213,700	329,400	130
135	40.2	335.8	232,900	311,900	45.7	344.5	221,100	328,400	52.9	354.0	203,500	315,000	135
140	36.6	329.0	222,100	298,400	42.5	339.0	210,900	314,500	50.2	349.7	193,900	301,600	140
145	32.7	321.3	212,100	286,700	39.1	332.8	201,300	301,700	47.2	345.0	185,100	289,300	145
150	28.2	312.1	202,700	277,000	35.4	325.7	192,400	289,700	44.2	339.8	176,800	277,800	150
155	22.9	300.7	193,800	270,200	31.4	317.6	184,000	278,600	40.9	334.0	169,000	267,000	155
160	15.9	284.9	185,200	245,000	26.7	307.8	176,000	268,100	37.4	327.4	161,700	257,000	160
165					21.0	295.4	168,400	258,200	33.5	319.9	154,800	247,600	165
170					12.8	276.8	161,000	236,700	29.2	311.0	148,300	238,700	170
175									24.1	300.2	142,000	230,300	175
180									17.6	285.6	135,900	222,300	180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
225													225
230													230
235													235
240													240

MLC650 VPC-MAX S-2

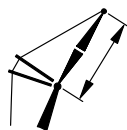
ASME B30.5



661,300 lb



242.8 ft



134.5 ft

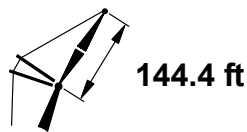
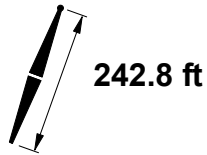
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	63.5	362.9	174,300	293,000									135
140	61.1	360.0	165,900	280,500									140
145	58.6	356.9	158,200	268,900									145
150	56.0	353.5	150,900	258,200									150
155	53.3	349.7	144,100	248,100									155
160	50.5	345.5	137,700	238,700									160
165	47.6	340.8	131,700	229,900	58.7	350.4	108,700	212,700					165
170	44.6	335.7	126,000	221,600	56.1	346.9	103,800	204,900					170
175	41.3	330.0	120,600	213,800	53.4	343.1	99,200	197,700					175
180	37.9	323.5	115,500	206,400	50.6	339.0	94,800	190,800					180
185	34.1	316.1	110,700	199,500	47.7	334.3	90,700	184,300					185
190	29.8	307.4	106,000	192,900	44.7	329.2	86,700	178,100					190
195	24.8	296.9	101,500	186,500	41.4	323.5	82,900	172,300	53.1	334.4	64,400	158,400	195
200	18.6	283.1	97,100	180,500	38.0	317.1	79,300	166,800	50.3	330.1	61,300	153,300	200
205	7.6	257.8	92,400	174,600	34.2	309.7	75,800	161,500	47.4	325.5	58,400	148,300	205
210					30.0	301.1	72,400	156,400	44.4	320.3	55,600	143,700	210
215					25.0	290.7	69,200	151,600	41.1	314.5	52,900	139,200	215
220					18.8	277.0	65,900	146,900	37.6	308.0	50,300	134,900	220
225					8.2	252.7	62,300	142,200	33.8	300.5	47,800	130,800	225
230									29.5	291.8	45,300	126,900	230
235									24.5	281.1	42,900	123,100	235
240									18.1	266.9	40,400	119,400	240

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



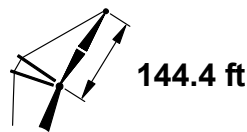
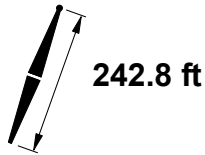
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	73.4	389.4	454,800 b	454,800 b									75
80	71.3	387.6	440,200	454,100									80
85	69.1	385.6	409,500	452,000	72.7	387.9	389,600	454,200					85
90	67.0	383.4	382,400	448,900	70.6	386.0	363,700	447,300					90
95	64.7	381.0	358,200	442,400	68.4	384.0	340,700	435,800					95
100	62.5	378.3	336,600	428,200	66.3	381.7	320,000	435,800					100
105	60.2	375.4	317,200	409,300	64.0	379.2	301,400	435,800	69.6	383.0	277,900	421,000	105
110	57.8	372.2	299,600	390,500	61.8	376.5	284,600	415,500	67.4	380.9	262,200	398,700	110
115	55.4	368.7	283,500	372,000	59.5	373.4	269,200	394,500	65.2	378.5	247,900	378,400	115
120	52.9	364.8	268,800	354,100	57.1	370.1	255,200	375,300	63.0	375.9	234,900	359,900	120
125	50.3	360.6	255,400	337,000	54.6	366.5	242,300	357,700	60.7	373.0	222,900	343,000	125
130	47.6	356.0	243,000	320,700	52.1	362.5	230,500	341,500	58.3	369.8	211,800	327,400	130
135	44.8	350.9	231,500	305,600	49.5	358.2	219,500	326,600	55.9	366.4	201,600	313,100	135
140	41.8	345.2	220,800	291,700	46.7	353.4	209,300	312,900	53.4	362.6	192,100	299,800	140
145	38.6	338.9	210,800	279,000	43.9	348.2	199,800	300,100	50.8	358.4	183,300	287,500	145
150	35.1	331.8	201,500	267,700	40.8	342.3	191,000	288,200	48.2	353.9	175,100	276,100	150
155	31.3	323.6	192,800	257,800	37.5	335.8	182,600	277,000	45.4	348.9	167,400	265,400	155
160	27.0	314.0	184,500	249,800	34.0	328.4	174,800	266,600	42.4	343.4	160,100	255,400	160
165	21.9	302.1	176,700	244,300	30.1	319.8	167,400	256,900	39.3	337.2	153,300	246,000	165
170	15.0	285.4	169,100	223,900	25.5	309.6	160,400	247,700	35.9	330.3	146,900	237,200	170
175					20.0	296.6	153,700	239,000	32.1	322.4	140,800	228,900	175
180					11.9	276.8	147,000	217,500	28.0	313.1	135,000	221,000	180
185									23.0	301.7	129,400	213,600	185
190									16.6	286.4	123,900	206,500	190
195													195
200													200
205													205
210													210
215													215
220													220
225													225
230													230
235													235
240													240
250													250

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



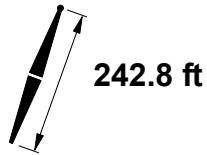
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	63.3	371.4	163,800	278,600									140
145	61.0	368.5	156,100	267,000									145
150	58.6	365.4	148,800	256,300									150
155	56.2	362.0	142,100	246,300									155
160	53.8	358.2	135,700	236,900									160
165	51.2	354.1	129,800	228,200									165
170	48.5	349.7	124,200	219,900	58.7	358.8	101,700	203,100					170
175	45.7	344.7	118,800	212,200	56.3	355.4	97,100	195,800					175
180	42.8	339.3	113,800	204,800	53.8	351.7	92,800	189,000					180
185	39.7	333.2	109,000	197,900	51.3	347.6	88,600	182,600					185
190	36.3	326.4	104,500	191,400	48.6	343.2	84,700	176,500					190
195	32.7	318.6	100,100	185,100	45.8	338.2	81,000	170,700					195
200	28.5	309.5	95,900	179,200	42.9	332.8	77,400	165,200	53.6	342.9	59,200	151,500	200
205	23.7	298.5	91,900	173,500	39.8	326.8	74,000	159,900	51.0	338.8	56,300	146,600	205
210	17.6	283.9	87,800	168,100	36.4	320.0	70,800	154,900	48.3	334.3	53,500	142,000	210
215	6.5	256.4	83,500	162,700	32.8	312.2	67,600	150,100	45.6	329.4	50,900	137,600	215
220					28.7	303.2	64,500	145,600	42.6	323.9	48,400	133,300	220
225					23.9	292.2	61,600	141,200	39.5	317.7	45,900	129,300	225
230					17.9	277.8	58,600	136,900	36.1	310.9	43,500	125,400	230
235					7.2	251.6	55,300	132,600	32.4	303.0	41,200	121,700	235
240									28.3	293.8	39,000	118,100	240
250									17.1	267.7	34,500	111,200	250

MLC650 VPC-MAX S-2

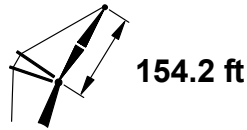
ASME B30.5



661,300 lb



242.8 ft



154.2 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	74.5	399.7	421,400 b	421,400 b									75
80	72.5	398.1	421,400	421,400									80
85	70.5	396.2	406,900	420,600									85
90	68.5	394.2	379,800	418,700	71.9	396.5	360,900	421,200					90
95	66.5	392.0	355,700	415,700	69.9	394.6	337,900	421,200					95
100	64.4	389.5	334,200	411,400	67.9	392.5	317,300	421,200					100
105	62.3	386.8	314,800	395,300	65.8	390.2	298,700	421,200					105
110	60.2	383.9	297,200	378,500	63.8	387.7	281,900	412,900	68.9	391.6	259,200	395,800	110
115	57.9	380.7	281,200	361,700	61.6	384.9	266,600	391,900	66.9	389.4	245,000	375,600	115
120	55.7	377.2	266,500	345,200	59.5	381.9	252,600	372,800	64.8	387.0	232,000	357,200	120
125	53.4	373.4	253,100	329,200	57.2	378.6	239,800	355,300	62.7	384.3	220,000	340,400	125
130	50.9	369.3	240,700	313,800	55.0	375.1	228,000	339,200	60.6	381.5	209,000	324,900	130
135	48.4	364.8	229,200	299,200	52.6	371.2	217,100	324,300	58.4	378.3	198,900	310,600	135
140	45.8	359.9	218,600	285,400	50.2	366.9	206,900	310,600	56.1	374.9	189,400	297,400	140
145	43.1	354.5	208,700	272,600	47.6	362.3	197,500	297,800	53.8	371.2	180,700	285,200	145
150	40.2	348.5	199,500	260,700	45.0	357.3	188,700	286,000	51.4	367.1	172,500	273,700	150
155	37.1	341.9	190,800	250,100	42.2	351.7	180,400	274,900	49.0	362.7	164,800	263,100	155
160	33.8	334.5	182,700	240,600	39.3	345.5	172,700	264,600	46.4	357.9	157,600	253,100	160
165	30.1	325.9	175,000	232,500	36.1	338.7	165,400	254,900	43.7	352.6	150,900	243,800	165
170	25.9	315.8	167,700	225,900	32.7	330.9	158,500	245,700	40.8	346.7	144,500	235,000	170
175	20.9	303.3	160,800	221,500	28.9	321.9	151,900	237,100	37.8	340.3	138,500	226,800	175
180	14.2	285.8	154,000	203,000	24.5	311.2	145,700	229,000	34.5	333.0	132,700	219,000	180
185					19.1	297.6	139,700	221,300	30.9	324.7	127,300	211,600	185
190					11.1	276.7	133,700	197,800	26.8	315.0	122,100	204,600	190
195									22.0	303.1	117,100	197,900	195
200									15.8	287.0	112,100	191,600	200
205													205
210													210
215													215
220													220
225													225
230													230
235													235
240													240
250													250
260													260

MLC650 VPC-MAX S-2

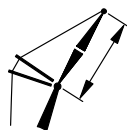
ASME B30.5



661,300 lb



242.8 ft



154.2 ft

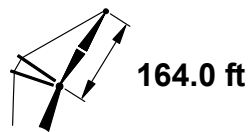
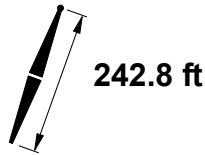
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	63.0	379.8	152,900	264,400									145
150	60.9	377.0	145,700	253,700									150
155	58.7	373.9	139,000	243,700									155
160	56.4	370.5	132,700	234,400									160
165	54.1	366.8	126,800	225,700									165
170	51.8	362.8	121,200	217,500									170
175	49.3	358.4	116,000	209,800	58.8	367.3	93,800	193,200					175
180	46.7	353.7	111,000	202,500	56.5	364.0	89,500	186,400					180
185	44.0	348.4	106,300	195,600	54.2	360.3	85,500	180,000					185
190	41.2	342.7	101,800	189,100	51.8	356.3	81,600	173,900					190
195	38.2	336.3	97,500	182,900	49.4	351.9	77,900	168,200					195
200	35.0	329.1	93,400	177,100	46.8	347.2	74,400	162,700					200
205	31.4	321.0	89,500	171,500	44.1	342.0	71,100	157,500	54.0	351.5	53,000	144,000	205
210	27.4	311.5	85,700	166,100	41.3	336.2	67,900	152,600	51.6	347.5	50,300	139,400	210
215	22.7	300.0	82,000	161,000	38.3	329.9	64,800	147,900	49.1	343.1	47,700	135,000	215
220	16.8	284.7	78,400	156,100	35.1	322.7	61,900	143,300	46.6	338.3	45,200	130,800	220
225	5.4	254.6	74,400	151,100	31.5	314.6	59,000	139,000	43.9	333.1	42,800	126,800	225
230					27.6	305.2	56,200	134,800	41.0	327.3	40,500	123,000	230
235					22.9	293.7	53,500	130,800	38.0	320.8	38,300	119,300	235
240					17.0	278.6	50,700	126,900	34.7	313.6	36,100	115,800	240
250									27.1	295.8	32,000	109,100	250
260									16.3	268.4	27,800	102,700	260

MLC650 VPC-MAX S-2

ASME B30.5



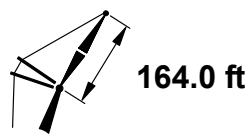
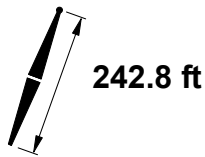
661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	73.6	408.5	391,000	391,000									80
85	71.7	406.7	390,800	390,800									85
90	69.9	404.9	379,200	389,600									90
95	68.0	402.8	355,100	387,400	71.2	405.2	337,100	390,300					95
100	66.1	400.5	333,600	384,400	69.3	403.2	316,500	390,300					100
105	64.1	398.0	314,200	380,600	67.4	401.1	298,000	390,300					105
110	62.1	395.3	296,600	366,100	65.5	398.7	281,200	390,300					110
115	60.1	392.4	280,600	351,100	63.5	396.2	265,900	389,200	68.4	400.2	244,100	374,400	115
120	58.0	389.2	266,000	336,000	61.5	393.4	252,000	371,700	66.5	397.9	231,100	356,100	120
125	55.9	385.7	252,600	321,300	59.5	390.4	239,200	354,200	64.5	395.5	219,200	339,300	125
130	53.7	382.0	240,200	306,700	57.4	387.1	227,400	338,200	62.5	392.8	208,200	323,800	130
135	51.5	378.0	228,800	292,900	55.2	383.6	216,500	323,400	60.5	389.9	198,100	309,600	135
140	49.2	373.6	218,200	279,500	53.0	379.8	206,400	309,700	58.5	386.8	188,700	296,400	140
145	46.8	368.8	208,400	267,000	50.8	375.6	197,000	297,000	56.4	383.4	180,000	284,200	145
150	44.3	363.6	199,200	255,200	48.4	371.1	188,200	285,200	54.2	379.7	171,800	272,900	150
155	41.6	358.0	190,600	244,200	46.0	366.3	180,000	274,200	52.0	375.8	164,200	262,300	155
160	38.8	351.7	182,500	234,200	43.4	360.9	172,300	263,900	49.7	371.5	157,000	252,300	160
165	35.8	344.8	174,900	225,000	40.8	355.1	165,000	254,200	47.3	366.8	150,300	243,100	165
170	32.6	337.0	167,700	216,900	37.9	348.6	158,200	245,100	44.8	361.7	144,000	234,300	170
175	29.0	328.0	160,900	210,100	34.8	341.4	151,700	236,500	42.2	356.1	138,000	226,100	175
180	25.0	317.5	154,400	204,500	31.5	333.3	145,600	228,500	39.4	350.0	132,300	218,300	180
185	20.1	304.5	148,200	200,900	27.8	324.0	139,800	220,800	36.5	343.2	127,000	211,000	185
190	13.4	286.1	142,100	186,200	23.5	312.8	134,200	213,600	33.3	335.6	121,800	204,100	190
195					18.3	298.6	128,800	205,900	29.8	326.9	117,000	197,500	195
200					10.4	276.5	123,300	181,400	25.8	316.8	112,300	191,200	200
205									21.2	304.4	107,700	185,200	205
210									15.0	287.5	103,200	179,400	210
215													215
220													220
225													225
230													230
235													235
240													240
250													250
260													260
270													270

MLC650 VPC-MAX S-2

ASME B30.5



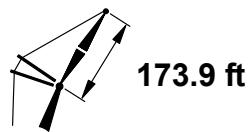
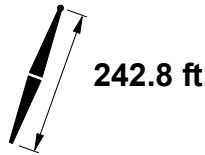
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	64.8	390.9	151,900	263,300									145
150	62.8	388.3	144,800	252,700									150
155	60.8	385.5	138,100	242,700									155
160	58.7	382.4	131,800	233,500									160
165	56.6	379.0	126,000	224,800									165
170	54.5	375.4	120,400	216,600									170
175	52.3	371.4	115,200	208,900									175
180	50.0	367.2	110,300	201,700	58.8	375.8	88,500	185,500					180
185	47.6	362.6	105,600	194,800	56.7	372.5	84,500	179,100					185
190	45.1	357.5	101,100	188,400	54.5	368.8	80,700	173,000					190
195	42.5	352.0	96,900	182,200	52.3	364.9	77,000	167,300					195
200	39.8	346.0	92,900	176,400	50.0	360.7	73,600	161,900					200
205	36.9	339.3	89,000	170,800	47.7	356.1	70,300	156,700					205
210	33.7	331.8	85,300	165,500	45.2	351.0	67,100	151,800	54.3	360.1	49,300	138,500	210
215	30.3	323.3	81,800	160,500	42.6	345.5	64,100	147,100	52.1	356.1	46,700	134,100	215
220	26.4	313.4	78,300	155,600	39.9	339.5	61,200	142,600	49.8	351.8	44,300	130,000	220
225	21.8	301.3	74,900	151,000	37.0	332.9	58,400	138,400	47.4	347.2	41,900	126,000	225
230	16.0	285.3	71,600	146,500	33.8	325.4	55,700	134,300	44.9	342.1	39,600	122,200	230
235	4.2	252.0	67,800	142,000	30.4	316.9	53,100	130,300	42.3	336.6	37,500	118,600	235
240					26.5	307.1	50,500	126,500	39.6	330.5	35,400	115,100	240
250					16.2	279.3	45,500	119,200	33.5	316.2	31,300	108,500	250
260									26.1	297.6	27,500	102,300	260
270									15.5	269.0	23,700	96,500	270

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



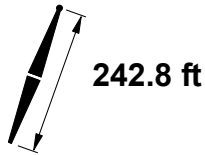
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	74.6	418.8	362,000	362,000									80
85	72.8	417.2	362,000	362,000									85
90	71.1	415.4	361,700	361,700									90
95	69.3	413.4	352,600	360,300	72.3	415.6	334,300	360,100					95
100	67.5	411.3	331,100	358,500	70.5	413.8	313,800	360,100					100
105	65.7	409.0	311,700	355,900	68.7	411.8	295,300	360,100					105
110	63.9	406.5	294,200	352,600	67.0	409.6	278,500	360,100					110
115	62.0	403.8	278,200	340,100	65.1	407.2	263,300	360,100	69.7	410.8	241,100	351,800	115
120	60.1	400.8	263,600	326,700	63.3	404.7	249,400	360,100	67.9	408.7	228,200	351,800	120
125	58.1	397.7	250,200	313,400	61.4	401.9	236,600	351,800	66.1	406.4	216,300	336,600	125
130	56.1	394.3	237,900	300,200	59.5	398.9	224,800	335,800	64.2	404.0	205,400	321,300	130
135	54.1	390.6	226,500	287,200	57.5	395.6	214,000	321,100	62.4	401.3	195,300	307,100	135
140	52.0	386.6	215,900	274,700	55.5	392.1	203,900	307,400	60.5	398.4	185,900	294,000	140
145	49.8	382.3	206,100	262,600	53.4	388.4	194,500	294,800	58.5	395.3	177,200	281,800	145
150	47.6	377.7	197,000	251,100	51.3	384.3	185,800	283,000	56.5	391.9	169,100	270,500	150
155	45.2	372.7	188,400	240,300	49.1	379.9	177,600	272,000	54.5	388.3	161,500	259,900	155
160	42.8	367.2	180,300	230,100	46.8	375.2	169,900	261,700	52.4	384.4	154,400	250,100	160
165	40.2	361.3	172,800	220,700	44.5	370.0	162,700	252,100	50.3	380.2	147,700	240,800	165
170	37.5	354.8	165,700	212,100	42.0	364.4	155,900	243,100	48.0	375.6	141,400	232,100	170
175	34.6	347.5	158,900	204,300	39.4	358.3	149,500	234,500	45.7	370.7	135,500	223,900	175
180	31.5	339.4	152,500	197,400	36.6	351.6	143,500	226,500	43.3	365.3	129,900	216,200	180
185	28.0	330.1	146,500	191,500	33.7	344.1	137,700	218,900	40.8	359.5	124,500	208,900	185
190	24.0	319.2	140,700	186,900	30.4	335.6	132,200	211,700	38.1	353.1	119,500	202,000	190
195	19.3	305.6	135,100	184,000	26.8	325.9	127,000	204,900	35.2	346.0	114,700	195,400	195
200	12.7	286.3	129,500	169,700	22.7	314.3	121,900	198,400	32.1	338.1	110,100	189,200	200
205					17.5	299.4	117,000	187,900	28.7	329.0	105,700	183,300	205
210					9.7	276.1	112,100	165,300	24.9	318.5	101,400	177,600	210
215									20.3	305.6	97,300	172,200	215
220									14.3	288.0	93,200	167,000	220
225													225
230													230
235													235
240													240
250													250
260													260
270													270
280													280

MLC650 VPC-MAX S-2

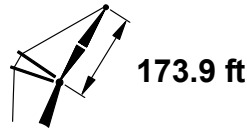
ASME B30.5



661,300 lb



242.8 ft



173.9 ft

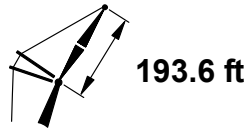
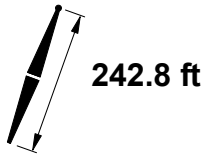
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	64.5	399.4	141,700	250,000									150
155	62.6	396.8	135,000	240,200									155
160	60.7	393.9	128,800	230,900									160
165	58.8	390.8	123,000	222,300									165
170	56.8	387.5	117,500	214,200									170
175	54.8	383.9	112,300	206,500									175
180	52.7	380.1	107,400	199,300									180
185	50.5	375.9	102,700	192,500	58.8	384.3	81,300	176,500					185
190	48.3	371.4	98,300	186,100	56.9	381.0	77,500	170,500					190
195	46.0	366.5	94,100	179,900	54.8	377.4	73,900	164,800					195
200	43.6	361.2	90,200	174,100	52.8	373.5	70,500	159,400					200
205	41.1	355.4	86,400	168,600	50.6	369.4	67,200	154,300					205
210	38.5	349.1	82,700	163,400	48.4	364.9	64,100	149,400					210
215	35.6	342.1	79,200	158,400	46.1	360.0	61,100	144,800	54.6	368.6	43,400	131,600	215
220	32.6	334.3	75,900	153,600	43.7	354.7	58,300	140,300	52.6	364.8	41,000	127,400	220
225	29.2	325.4	72,600	149,000	41.2	349.0	55,500	136,100	50.4	360.6	38,700	123,500	225
230	25.4	315.1	69,500	144,600	38.5	342.7	52,900	132,000	48.2	356.0	36,500	119,700	230
235	21.0	302.6	66,400	140,300	35.7	335.7	50,300	128,100	45.9	351.1	34,400	116,100	235
240	15.3	285.9	63,300	136,200	32.7	327.9	47,900	124,300	43.5	345.8	32,300	112,700	240
250					25.6	308.8	43,100	117,300	38.3	333.6	28,400	106,100	250
260					15.5	279.9	38,500	110,600	32.4	318.7	24,700	100,100	260
270									25.2	299.4	21,200	94,400	270
280									14.8	269.5		89,000	280

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	74.6	437.8	311,800	311,800									85
90	73.1	436.2	311,800	311,800									90
95	71.5	434.5	311,300	311,300									95
100	69.9	432.6	310,500	310,500	72.6	434.7	309,000	309,000					100
105	68.3	430.6	308,500	309,400	71.0	433.0	291,700	309,000					105
110	66.7	428.4	291,000	307,900	69.4	431.0	275,000	309,000					110
115	65.1	426.0	275,100	306,000	67.8	428.9	259,800	309,000					115
120	63.4	423.5	260,500	303,500	66.2	426.7	245,900	309,000					120
125	61.7	420.7	247,200	294,300	64.6	424.2	233,200	309,000	68.7	428.0	212,400	302,000	125
130	60.0	417.8	234,900	283,600	62.9	421.6	221,500	309,000	67.0	425.8	201,600	302,000	130
135	58.3	414.6	223,500	272,800	61.2	418.8	210,700	307,900	65.4	423.5	191,500	302,000	135
140	56.5	411.3	213,000	262,100	59.5	415.8	200,600	304,200	63.8	421.0	182,200	290,500	140
145	54.7	407.7	203,200	251,600	57.7	412.6	191,300	291,600	62.1	418.2	173,600	278,400	145
150	52.8	403.8	194,100	241,400	55.9	409.2	182,600	279,900	60.4	415.3	165,500	267,200	150
155	50.9	399.7	185,600	231,400	54.1	405.5	174,500	269,000	58.6	412.2	158,000	256,700	155
160	48.9	395.3	177,600	221,900	52.2	401.6	166,900	258,800	56.8	408.9	150,900	246,900	160
165	46.9	390.6	170,100	212,900	50.3	397.4	159,700	249,200	55.0	405.4	144,300	237,700	165
170	44.7	385.5	163,000	204,200	48.3	392.9	153,000	240,200	53.2	401.6	138,100	229,000	170
175	42.6	380.0	156,400	196,100	46.2	388.0	146,700	231,700	51.3	397.5	132,200	220,900	175
180	40.3	374.0	150,100	188,600	44.1	382.8	140,700	223,800	49.3	393.2	126,600	213,200	180
185	37.8	367.6	144,100	181,600	41.8	377.2	135,000	215,300	47.3	388.5	121,400	206,000	185
190	35.3	360.5	138,400	175,200	39.5	371.1	129,600	206,900	45.2	383.5	116,400	199,100	190
195	32.5	352.7	133,000	169,400	37.1	364.4	124,500	199,100	43.0	378.1	111,600	192,600	195
200	29.5	343.9	127,900	164,300	34.4	357.1	119,600	191,900	40.7	372.2	107,100	186,500	200
205	26.2	333.9	123,000	160,100	31.6	349.0	114,900	185,400	38.3	365.9	102,800	180,600	205
210	22.4	322.2	118,200	156,700	28.5	339.9	110,500	179,600	35.8	358.9	98,700	175,000	210
215	17.9	307.5	113,600	154,800	25.1	329.5	106,200	174,700	33.1	351.3	94,800	169,700	215
220	11.4	286.4	109,000	142,500	21.1	317.0	102,000	170,800	30.2	342.7	91,000	164,600	220
225					16.2	300.9	97,900	158,200	26.9	333.0	87,400	159,800	225
230					8.3	275.0	93,700	138,600	23.3	321.7	83,800	155,100	230
235									18.9	307.7	80,400	150,600	235
240									13.0	288.6	76,900	146,200	240
250													250
260													260
270													270
280													280
290													290
300													300

MLC650 VPC-MAX S-2

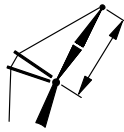
ASME B30.5



661,300 lb



242.8 ft



193.6 ft

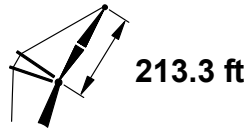
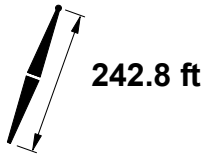
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
85												85
90												90
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160	64.0	416.4	124,700	227,300								160
165	62.3	413.8	118,900	218,800								165
170	60.6	410.9	113,500	210,700								170
175	58.9	407.8	108,300	203,100								175
180	57.1	404.5	103,500	196,000								180
185	55.3	401.0	98,900	189,200								185
190	53.4	397.2	94,600	182,800								190
195	51.5	393.2	90,500	176,800	58.9	401.3	69,700	161,300				195
200	49.6	388.9	86,500	171,000	57.1	398.0	66,300	156,000				200
205	47.6	384.3	82,800	165,600	55.3	394.5	63,100	150,900				205
210	45.5	379.3	79,200	160,400	53.5	390.7	60,100	146,100				210
215	43.3	374.0	75,800	155,400	51.6	386.7	57,100	141,500				215
220	41.0	368.2	72,600	150,700	49.6	382.4	54,400	137,100				220
225	38.7	361.9	69,400	146,200	47.6	377.8	51,700	132,900				225
230	36.1	355.0	66,400	141,900	45.5	372.8	49,100	128,900	53.3	381.9	116,300	230
235	33.5	347.5	63,500	137,700	43.4	367.5	46,700	125,000	51.4	377.9	112,800	235
240	30.6	339.1	60,700	133,700	41.1	361.7	44,300	121,400	49.4	373.6	109,300	240
250	23.8	318.4	55,400	126,200	36.2	348.6	39,800	114,400	45.3	363.9	102,900	250
260	14.0	286.8	50,100	119,100	30.7	332.7	35,600	108,000	40.9	352.7	97,000	260
270					23.9	312.2	31,500	102,000	36.0	339.5	91,500	270
280					14.2	280.9	27,500	96,300	30.4	323.4	86,300	280
290									23.5	302.6	81,500	290
300									13.5	270.3	76,800	300

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	74.7	456.9	267,400	267,400									90
95	73.3	455.3	267,400	267,400									95
100	71.9	453.6	267,100	267,100									100
105	70.4	451.8	266,600	266,600	72.8	453.8	264,800	264,800					105
110	69.0	449.8	265,900	265,900	71.4	452.1	264,800	264,800					110
115	67.5	447.7	264,700	264,700	70.0	450.2	256,300	264,800					115
120	66.1	445.5	257,400	264,300	68.5	448.2	242,500	264,800					120
125	64.6	443.0	244,000	263,200	67.1	446.0	229,800	264,800					125
130	63.1	440.4	231,800	261,300	65.6	443.7	218,100	264,800	69.3	447.2	197,800	258,000	130
135	61.5	437.7	220,500	255,500	64.1	441.2	207,300	264,800	67.8	445.1	187,800	258,000	135
140	60.0	434.7	210,000	247,000	62.6	438.6	197,300	264,300	66.4	442.9	178,500	258,000	140
145	58.4	431.6	200,200	238,600	61.0	435.8	188,000	263,500	64.9	440.5	169,900	258,000	145
150	56.8	428.3	191,100	230,000	59.5	432.8	179,400	262,400	63.4	437.9	161,900	258,000	150
155	55.1	424.8	182,600	221,600	57.9	429.6	171,300	259,100	61.8	435.2	154,400	253,400	155
160	53.4	421.0	174,700	213,300	56.3	426.2	163,700	250,700	60.3	432.3	147,400	243,600	160
165	51.7	417.0	167,200	205,200	54.6	422.6	156,600	242,200	58.7	429.2	140,800	234,500	165
170	50.0	412.8	160,200	197,400	52.9	418.8	149,900	233,700	57.1	425.9	134,600	225,900	170
175	48.1	408.2	153,600	189,800	51.2	414.7	143,600	225,300	55.5	422.4	128,800	217,800	175
180	46.3	403.4	147,300	182,500	49.4	410.4	137,600	217,000	53.8	418.7	123,200	210,200	180
185	44.4	398.2	141,400	175,600	47.6	405.8	132,000	208,900	52.1	414.8	118,000	203,000	185
190	42.3	392.7	135,800	169,100	45.7	400.8	126,700	201,100	50.3	410.6	113,100	196,200	190
195	40.3	386.8	130,500	162,900	43.7	395.6	121,600	193,600	48.5	406.1	108,400	189,800	195
200	38.1	380.4	125,400	157,200	41.7	389.9	116,800	186,400	46.7	401.4	103,900	183,600	200
205	35.8	373.4	120,600	151,800	39.6	383.8	112,200	179,600	44.7	396.3	99,700	177,800	205
210	33.3	365.8	115,900	147,000	37.4	377.3	107,800	173,100	42.8	390.8	95,600	172,300	210
215	30.7	357.5	111,500	142,600	35.0	370.1	103,600	167,200	40.7	385.0	91,800	167,000	215
220	27.9	348.1	107,300	138,800	32.5	362.3	99,600	161,700	38.5	378.7	88,100	162,000	220
225	24.7	337.4	103,200	135,600	29.9	353.7	95,700	156,600	36.3	371.8	84,500	157,200	225
230	21.1	324.9	99,200	133,100	26.9	343.9	92,000	152,200	33.8	364.4	81,100	152,600	230
235	16.6	309.1	95,300	131,800	23.6	332.7	88,400	148,400	31.3	356.2	77,800	148,100	235
240	10.3	286.2	91,400	119,800	19.8	319.4	84,900	145,500	28.5	347.0	74,700	143,900	240
250					7.1	273.3	77,800	116,200	21.8	324.5	68,600	135,900	250
260									11.9	288.9	62,700	128,400	260
270													270
280													280
290													290
300													300
310													310
320													320

MLC650 VPC-MAX S-2

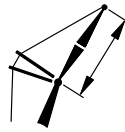
ASME B30.5



661,300 lb



242.8 ft



213.3 ft

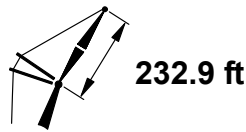
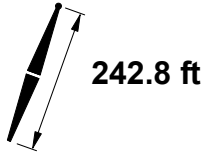
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
90												90
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170	63.6	433.4	109,400	207,200								170
175	62.0	430.7	104,400	199,700								175
180	60.5	427.8	99,600	192,600								180
185	58.9	424.8	95,000	185,900								185
190	57.3	421.5	90,700	179,600								190
195	55.7	418.0	86,700	173,600								195
200	54.0	414.4	82,800	167,900								200
205	52.3	410.5	79,100	162,500	59.0	418.2	58,900	147,500				205
210	50.6	406.3	75,600	157,300	57.4	415.0	55,900	142,700				210
215	48.8	401.9	72,200	152,400	55.7	411.5	53,100	138,200				215
220	46.9	397.1	69,000	147,700	54.1	407.8	50,300	133,800				220
225	45.0	392.1	66,000	143,200	52.4	403.9	47,700	129,700				225
230	43.0	386.7	63,000	139,000	50.6	399.8	45,200	125,700				230
235	41.0	380.9	60,200	134,900	48.8	395.4	42,800	121,900				235
240	38.8	374.7	57,500	130,900	47.0	390.7	40,500	118,300	53.9	399.1	106,000	240
250	34.2	360.6	52,300	123,500	43.1	380.2	36,100	111,400	50.4	391.0	99,600	250
260	28.9	343.5	47,500	116,700	38.9	368.2	32,000	105,100	46.8	381.8	93,800	260
270	22.3	321.4	42,900	110,300	34.3	354.2	28,200	99,200	42.9	371.3	88,400	270
280	12.8	287.4	38,400	104,200	28.9	337.1	24,600	93,700	38.7	359.2	83,300	280
290					22.5	315.2	21,100	88,500	34.0	345.0	78,600	290
300					13.0	281.5		83,600	28.7	327.8	74,200	300
310									22.1	305.5	70,000	310
320									12.4	270.7	65,900	320

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



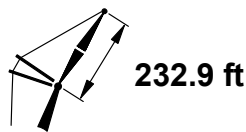
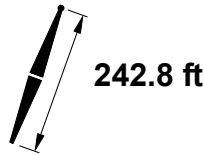
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95	74.7	475.9	243,600	243,600									95
100	73.5	474.4	243,500	243,500									100
105	72.2	472.7	243,100	243,100									105
110	70.9	470.9	242,600	242,600									110
115	69.5	469.0	241,900	241,900	71.8	471.2	241,000	241,000					115
120	68.2	467.0	241,000	241,000	70.4	469.4	236,500	241,000					120
125	66.9	464.8	238,600	239,900	69.1	467.4	223,900	241,000					125
130	65.5	462.5	226,400	238,700	67.8	465.3	212,300	241,000					130
135	64.1	460.0	215,100	237,600	66.4	463.1	201,500	240,900	69.8	466.4	181,300	232,900	135
140	62.8	457.4	204,600	236,000	65.1	460.7	191,600	240,400	68.5	464.4	172,200	232,900	140
145	61.3	454.6	194,900	228,900	63.7	458.2	182,400	239,900	67.1	462.2	163,600	232,900	145
150	59.9	451.7	185,900	221,600	62.3	455.6	173,700	239,200	65.8	459.9	155,700	232,900	150
155	58.5	448.6	177,400	214,300	60.9	452.7	165,700	238,400	64.4	457.5	148,300	232,900	155
160	57.0	445.3	169,500	207,000	59.5	449.7	158,200	237,400	63.0	454.9	141,300	232,900	160
165	55.5	441.8	162,100	199,800	58.0	446.6	151,100	233,900	61.6	452.2	134,800	229,500	165
170	54.0	438.1	155,100	192,700	56.5	443.2	144,500	226,600	60.2	449.3	128,600	221,000	170
175	52.4	434.2	148,500	185,700	55.0	439.7	138,200	219,400	58.8	446.2	122,900	213,000	175
180	50.8	430.1	142,300	179,000	53.5	435.9	132,300	212,100	57.3	442.9	117,400	205,400	180
185	49.2	425.8	136,400	172,400	51.9	432.0	126,700	204,900	55.8	439.5	112,200	198,300	185
190	47.5	421.1	130,900	166,100	50.3	427.8	121,400	197,800	54.3	435.8	107,400	191,500	190
195	45.8	416.2	125,600	160,100	48.7	423.3	116,400	190,800	52.7	432.0	102,700	185,100	195
200	44.0	411.0	120,600	154,300	47.0	418.6	111,600	184,000	51.1	427.9	98,300	179,100	200
205	42.2	405.5	115,800	148,900	45.2	413.6	107,100	177,500	49.5	423.6	94,100	173,300	205
210	40.3	399.5	111,200	143,800	43.5	408.3	102,800	171,200	47.9	419.0	90,100	167,800	210
215	38.3	393.2	106,900	139,000	41.6	402.7	98,600	165,100	46.1	414.2	86,300	162,600	215
220	36.2	386.3	102,700	134,400	39.7	396.6	94,700	159,400	44.4	409.1	82,700	157,600	220
225	34.0	378.9	98,700	130,300	37.6	390.1	90,900	153,900	42.6	403.6	79,200	152,800	225
230	31.7	370.8	94,900	126,500	35.5	383.1	87,300	148,900	40.7	397.7	75,800	148,300	230
235	29.2	361.9	91,200	123,100	33.3	375.5	83,800	144,100	38.7	391.5	72,600	143,900	235
240	26.4	352.0	87,700	120,200	30.9	367.2	80,400	139,800	36.6	384.7	69,500	139,700	240
250	19.9	327.3	80,900	116,100	25.5	347.6	74,000	132,500	32.1	369.5	63,700	131,800	250
260	9.3	285.6	74,200	98,800	18.6	321.5	68,000	122,100	27.0	351.1	58,300	124,500	260
270					5.9	270.8	61,900	95,300	20.6	327.2	53,100	117,800	270
280									10.9	288.9	48,000	108,900	280
290													290
300													300
310													310
320													320
330													330
340													340

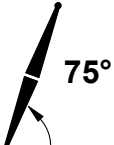
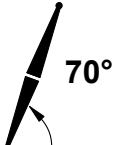
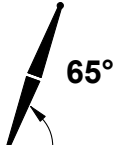
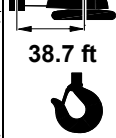
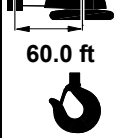
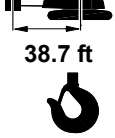
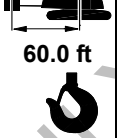
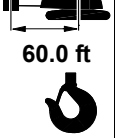
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	 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	64.6	453.0	97,600	194,300									175
180	63.2	450.4	92,900	187,300									180
185	61.8	447.7	88,500	180,700									185
190	60.4	444.8	84,200	174,400									190
195	59.0	441.7	80,200	168,500									195
200	57.5	438.5	76,400	162,800									200
205	56.0	435.1	72,800	157,500									205
210	54.5	431.5	69,300	152,400									210
215	52.9	427.6	66,000	147,500	59.0	435.2	46,200	132,800					215
220	51.4	423.6	62,900	142,900	57.5	432.0	43,500	128,500					220
225	49.7	419.3	59,900	138,400	56.1	428.5	41,000	124,400					225
230	48.1	414.8	57,000	134,200	54.5	424.9	38,500	120,500					230
235	46.4	410.0	54,200	130,200	53.0	421.1	36,200	116,800					235
240	44.6	404.9	51,600	126,300	51.4	417.1	33,900	113,200					240
250	40.9	393.7	46,600	119,000	48.1	408.3	29,700	106,400	54.4	416.2	94,300		250
260	36.9	380.8	41,900	112,200	44.7	398.4	25,800	100,200	51.3	408.3	88,500		260
270	32.5	365.7	37,500	106,000	41.0	387.2	22,100	94,400	48.0	399.5	83,200		270
280	27.4	347.5	33,400	100,100	37.0	374.3		89,100	44.5	389.5	78,300		280
290	21.1	324.1	29,500	94,700	32.5	359.3		84,000	40.8	378.2	73,700		290
300					27.5	341.2		79,300	36.8	365.3	69,300		300
310					21.2	317.9		74,800	32.3	350.1	65,300		310
320					12.0	281.9		70,500	27.2	331.8	61,400		320
330									20.9	308.2	57,800		330
340									11.4	270.9	54,200		340

MLC650 VPC-MAX S-2

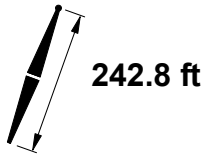
ASME B30.5



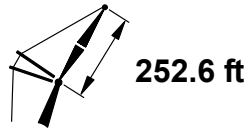
661,300 lb



360°



242.8 ft



252.6 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100	74.8	495.0	211,100	211,100									100
105	73.6	493.4	211,000	211,000									105
110	72.4	491.8	210,600	210,600									110
115	71.2	490.1	210,100	210,100									115
120	70.0	488.2	209,500	209,500	72.0	490.3	208,300	208,300					120
125	68.8	486.2	208,800	208,800	70.8	488.5	208,300	208,300					125
130	67.5	484.1	207,900	207,900	69.6	486.6	208,300	208,300					130
135	66.3	481.9	207,000	207,000	68.4	484.6	197,900	208,200					135
140	65.0	479.5	201,300	205,900	67.2	482.4	188,000	207,900					140
145	63.8	477.0	191,700	204,700	65.9	480.2	178,800	207,500	69.0	483.6	159,700	201,400	145
150	62.5	474.4	182,600	203,600	64.7	477.8	170,200	207,000	67.8	481.5	151,800	201,400	150
155	61.2	471.6	174,200	200,100	63.4	475.2	162,200	206,500	66.6	479.3	144,400	201,400	155
160	59.9	468.6	166,300	194,300	62.1	472.5	154,700	205,800	65.3	477.0	137,500	201,400	160
165	58.6	465.5	158,900	188,300	60.8	469.7	147,700	205,000	64.0	474.5	131,000	201,400	165
170	57.2	462.3	151,900	182,400	59.5	466.7	141,100	204,200	62.8	471.9	124,900	201,400	170
175	55.8	458.8	145,400	176,500	58.1	463.5	134,900	203,400	61.5	469.1	119,200	201,400	175
180	54.4	455.2	139,200	170,600	56.8	460.2	129,000	199,900	60.2	466.2	113,800	201,400	180
185	53.0	451.4	133,300	164,900	55.4	456.7	123,400	194,000	58.8	463.1	108,600	195,200	185
190	51.5	447.4	127,800	159,300	54.0	453.1	118,200	188,100	57.5	459.9	103,800	188,500	190
195	50.1	443.2	122,600	153,800	52.5	449.2	113,200	182,200	56.1	456.5	99,200	182,100	195
200	48.5	438.7	117,600	148,500	51.1	445.1	108,400	176,300	54.7	452.9	94,800	176,100	200
205	47.0	434.0	112,800	143,300	49.6	440.8	103,900	170,500	53.3	449.2	90,600	170,300	205
210	45.4	429.1	108,300	138,500	48.1	436.3	99,600	164,900	51.8	445.2	86,700	164,900	210
215	43.7	423.8	104,000	133,700	46.5	431.5	95,500	159,300	50.4	441.0	82,900	159,700	215
220	42.0	418.2	99,800	129,300	44.9	426.4	91,600	154,000	48.8	436.6	79,300	154,700	220
225	40.3	412.3	95,900	125,000	43.2	421.1	87,800	148,800	47.3	431.9	75,800	150,000	225
230	38.5	406.0	92,100	121,000	41.5	415.4	84,300	143,900	45.7	427.0	72,500	145,500	230
235	36.5	399.2	88,500	117,300	39.7	409.4	80,800	139,100	44.1	421.8	69,400	141,100	235
240	34.5	391.9	85,000	113,700	37.9	402.9	77,500	134,700	42.4	416.3	66,300	137,000	240
250	30.2	375.5	78,400	107,600	33.9	388.6	71,300	126,400	38.8	404.2	60,600	129,200	250
260	25.1	355.6	72,300	102,800	29.5	371.7	65,500	119,300	35.0	390.4	55,300	122,000	260
270	18.8	329.5	66,400	99,700	24.2	351.0	60,000	113,600	30.7	374.3	50,300	115,300	270
280	8.3	284.6	60,700	81,900	17.6	323.4	54,800	102,800	25.7	354.8	45,600	109,000	280
290					4.6	267.2	49,400	78,300	19.5	329.5	41,100	103,200	290
300									10.0	288.6	36,700	91,300	300
310													310
320													320
330													330
340													340
350													350
360													360

MLC650 VPC-MAX S-2

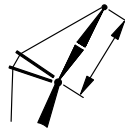
ASME B30.5



661,300 lb



242.8 ft



252.6 ft

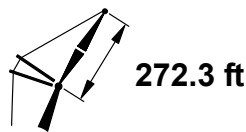
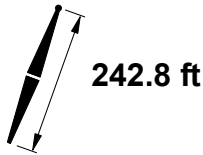
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185	64.2	470.0	84,400	177,200								185
190	62.9	467.4	80,200	171,000								190
195	61.6	464.6	76,200	165,100								195
200	60.3	461.7	72,400	159,500								200
205	59.0	458.7	68,900	154,200								205
210	57.7	455.5	65,400	149,100								210
215	56.3	452.1	62,200	144,300								215
220	54.9	448.5	59,100	139,700								220
225	53.5	444.8	56,100	135,300	59.0	452.1	36,800	121,100				225
230	52.0	440.9	53,200	131,100	57.7	448.9	34,400	117,200				230
235	50.6	436.7	50,500	127,100	56.3	445.6	32,100	113,500				235
240	49.1	432.3	47,900	123,300	54.9	442.0	29,900	109,900				240
250	45.9	422.8	43,000	116,000	52.1	434.3	25,700	103,200				250
260	42.6	412.2	38,400	109,400	49.1	425.8	21,800	97,100	54.8	433.3	85,200	260
270	39.1	400.2	34,100	103,200	46.0	416.3		91,400	51.9	425.6	79,900	270
280	35.2	386.5	30,200	97,400	42.7	405.7		86,100	49.0	417.0	75,000	280
290	31.0	370.6	26,400	92,000	39.1	393.8		81,100	45.8	407.5	70,500	290
300	26.0	351.4	22,800	87,000	35.3	380.1		76,500	42.5	396.8	66,200	300
310	20.0	326.6		82,200	31.0	364.2		72,100	39.0	384.8	62,300	310
320	10.9	287.7		77,700	26.1	345.1		68,000	35.1	371.0	58,500	320
330					20.1	320.4		64,100	30.8	355.0	55,000	330
340					11.1	282.0		60,300	25.9	335.6	51,600	340
350									19.8	310.6	48,400	350
360									10.4	270.8	45,200	360

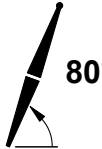
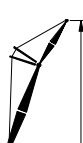
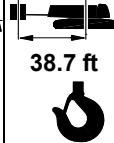
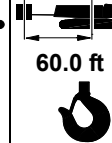
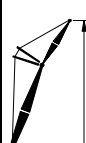
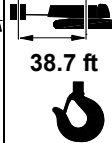
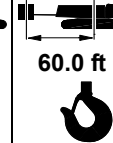
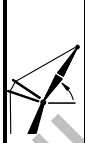
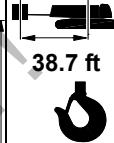
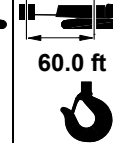
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



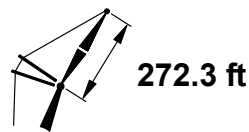
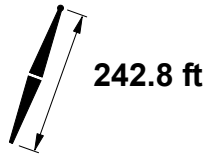
 85°					 83°					 80°						
 ft	 °	 ft	 lb	 lb		 °	 ft	 lb	 lb		 °	 ft	 lb	 lb	 ft	
105	74.8	514.0	182,900	182,900												105
110	73.7	512.5	182,300	182,300												110
115	72.6	510.9	181,900	181,900												115
120	71.5	509.2	181,400	181,400												120
125	70.4	507.4	180,900	180,900												125
130	69.3	505.4	180,200	180,200												130
135	68.1	503.4	179,500	179,500												135
140	67.0	501.2	178,700	178,700												140
145	65.8	498.9	177,800	177,800												145
150	64.7	496.5	176,900	176,900												150
155	63.5	494.0	172,200	175,900												155
160	62.3	491.3	164,300	174,900												160
165	61.1	488.5	156,900	173,900												165
170	59.9	485.6	150,000	171,100												170
175	58.6	482.5	143,400	166,400												175
180	57.4	479.3	137,300	161,600												180
185	56.1	475.9	131,500	156,700												185
190	54.8	472.3	125,900	152,000												190
195	53.5	468.6	120,700	147,300												195
200	52.2	464.6	115,700	142,600												200
205	50.8	460.5	111,000	138,100												205
210	49.4	456.2	106,500	133,700												210
215	48.0	451.7	102,200	129,400												215
220	46.5	446.9	98,100	125,200												220
225	45.0	441.9	94,200	121,200												225
230	43.5	436.6	90,500	117,300												230
235	41.9	431.0	86,900	113,600												235
240	40.3	425.0	83,400	110,000												240
250	36.8	412.1	76,900	103,500												250
260	33.1	397.3	70,900	97,800												260
270	28.9	380.0	65,300	92,900												270
280	24.0	359.0	60,000	89,100												280
290	17.8	331.5	55,000	86,900												290
300	7.4	283.1	49,900	68,300												300
310																310
320																320
330																330
340																340
350																350
360																360
370																370
380																380

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



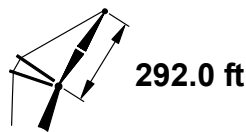
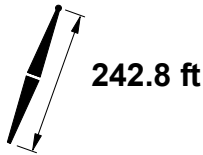
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195	63.9	487.0	73,500	161,800								195
200	62.7	484.3	69,700	157,200								200
205	61.5	481.6	66,200	151,900								205
210	60.3	478.7	62,800	146,900								210
215	59.0	475.6	59,600	142,100								215
220	57.8	472.5	56,500	137,500								220
225	56.5	469.1	53,600	133,200								225
230	55.2	465.6	50,800	129,000								230
235	53.9	461.9	48,100	125,000	59.1	469.1	111,200					235
240	52.6	458.1	45,500	121,200	57.8	465.9	107,600					240
250	49.9	449.8	40,600	114,100	55.3	459.1	101,000					250
260	47.0	440.6	36,100	107,400	52.6	451.5	94,900					260
270	44.0	430.5	31,900	101,300	49.9	443.3	89,300					270
280	40.8	419.1	28,000	95,600	47.1	434.1	84,000	52.5	442.8	72,800		280
290	37.4	406.4	24,400	90,300	44.1	424.0	79,100	49.8	434.4	68,300		290
300	33.7	392.0	20,900	85,300	40.9	412.7	74,600	46.9	425.2	64,100		300
310	29.6	375.2		80,700	37.5	400.0	70,300	43.9	415.1	60,200		310
320	24.9	354.9		76,300	33.8	385.6	66,300	40.7	403.7	56,500		320
330	19.0	328.9		72,100	29.7	368.8	62,500	37.3	391.0	53,000		330
340	10.0	287.5		68,100	25.0	348.6	58,900	33.6	376.4	49,700		340
350					19.1	322.7	55,400	29.5	359.5	46,600		350
360					10.2	281.8	52,000	24.7	339.1	43,700		360
370								18.8	312.8	40,800		370
380								9.6	270.3	37,900		380

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



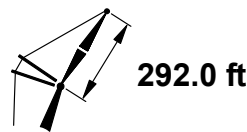
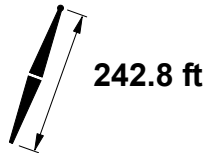
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
110	74.9	533.0	171,600	171,600									110
115	73.8	531.6	171,300	171,300									115
120	72.8	530.0	170,800	170,800									120
125	71.8	528.3	170,300	170,300									125
130	70.7	526.5	169,600	169,600	72.5	528.5	168,900	168,900					130
135	69.7	524.6	168,900	168,900	71.4	526.7	168,800	168,800					135
140	68.6	522.6	168,200	168,200	70.4	524.9	168,600	168,600					140
145	67.6	520.5	167,400	167,400	69.3	523.0	168,000	168,300					145
150	66.5	518.3	166,500	166,500	68.3	521.0	159,500	167,900					150
155	65.4	516.0	164,300	165,600	67.2	518.8	151,600	167,500	69.9	522.0	132,700	162,700	155
160	64.3	513.6	156,500	164,600	66.1	516.6	144,200	167,000	68.8	520.0	125,900	162,700	160
165	63.2	511.0	149,100	163,600	65.1	514.2	137,300	166,400	67.8	517.9	119,600	162,700	165
170	62.1	508.3	142,200	162,500	64.0	511.8	130,700	165,800	66.7	515.7	113,600	162,700	170
175	61.0	505.5	135,700	160,400	62.9	509.2	124,600	165,100	65.6	513.4	107,900	162,700	175
180	59.8	502.6	129,600	156,200	61.7	506.4	118,800	164,400	64.5	511.0	102,600	162,700	180
185	58.7	499.5	123,800	151,900	60.6	503.6	113,300	163,700	63.4	508.5	97,600	162,700	185
190	57.5	496.3	118,300	147,500	59.5	500.6	108,100	162,900	62.3	505.8	92,800	162,700	190
195	56.3	492.9	113,100	143,300	58.3	497.5	103,100	162,100	61.2	503.0	88,300	162,700	195
200	55.1	489.4	108,200	139,100	57.1	494.2	98,500	161,200	60.1	500.1	84,000	162,700	200
205	53.9	485.7	103,500	134,800	56.0	490.8	94,000	158,200	58.9	497.1	79,900	161,700	205
210	52.7	481.8	99,000	130,800	54.7	487.2	89,800	154,000	57.7	493.9	76,000	156,300	210
215	51.4	477.8	94,800	126,700	53.5	483.5	85,800	149,800	56.6	490.5	72,300	151,200	215
220	50.1	473.6	90,700	122,700	52.3	479.6	81,900	145,500	55.4	487.0	68,800	146,300	220
225	48.8	469.2	86,800	118,900	51.0	475.5	78,200	141,400	54.2	483.4	65,400	141,700	225
230	47.5	464.6	83,100	115,100	49.7	471.2	74,700	137,200	52.9	479.6	62,200	137,200	230
235	46.1	459.7	79,500	111,500	48.4	466.8	71,300	133,100	51.7	475.6	59,100	132,900	235
240	44.7	454.7	76,100	108,100	47.1	462.1	68,100	129,100	50.4	471.4	56,100	128,900	240
250	41.8	443.7	69,700	101,500	44.3	452.0	62,000	121,400	47.8	462.5	50,500	121,200	250
260	38.7	431.5	63,700	95,500	41.3	440.9	56,400	114,100	45.0	452.7	45,400	114,100	260
270	35.4	417.9	58,200	90,200	38.2	428.5	51,100	107,400	42.1	441.8	40,600	107,500	270
280	31.8	402.3	53,000	85,500	34.9	414.6	46,200	101,300	39.0	429.8	36,100	101,400	280
290	27.7	384.1	48,200	81,600	31.2	398.6	41,700	95,900	35.7	416.3	31,900	95,800	290
300	23.0	362.2	43,600	78,600	27.0	380.0	37,300	91,400	32.1	400.9	28,000	90,400	300
310	17.0	333.2	39,200	68,600	22.1	357.2	33,200	81,400	28.1	383.1	24,300	85,500	310
320	6.5	281.2	34,700	51,100	15.8	326.6	29,300	68,600	23.5	361.6	20,700	80,800	320
330									17.7	333.6		75,300	330
340									8.3	287.0		59,300	340
350													350
360													360
370													370
380													380
390													390
400													400

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



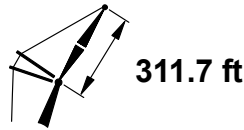
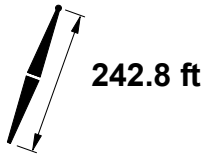
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200	64.7	506.5	60,200	149,900								200
205	63.6	503.9	56,800	144,700								205
210	62.5	501.3	53,400	139,700								210
215	61.3	498.5	50,300	135,000								215
220	60.2	495.6	47,300	130,500								220
225	59.1	492.6	44,400	126,200								225
230	57.9	489.4	41,700	122,100								230
235	56.7	486.1	39,000	118,100								235
240	55.5	482.7	36,500	114,300								240
250	53.1	475.2	31,700	107,300	57.9	482.9	93,700					250
260	50.6	467.1	27,300	100,700	55.6	476.1	87,700					260
270	47.9	458.2	23,300	94,700	53.1	468.7	82,100					270
280	45.2	448.5		89,100	50.6	460.6	77,000					280
290	42.3	437.7		83,800	48.0	451.7	72,200	53.0	459.9	60,900		290
300	39.3	425.7		78,900	45.2	442.0	67,700	50.5	451.8	56,800		300
310	36.0	412.4		74,300	42.4	431.2	63,500	47.8	442.9	53,000		310
320	32.4	397.1		70,000	39.3	419.3	59,500	45.1	433.1	49,400		320
330	28.4	379.5		66,000	36.0	405.9	55,800	42.2	422.3	46,000		330
340	23.8	358.3		62,100	32.5	390.8	52,300	39.1	410.3	42,800		340
350	18.1	330.9		58,400	28.5	373.1	49,000	35.9	396.8	39,700		350
360	9.2	286.9		54,900	23.9	352.0	45,800	32.3	381.6	36,900		360
370					18.2	324.8	42,800	28.3	363.8	34,100		370
380					9.4	281.3	39,700	23.6	342.5	31,500		380
390								17.9	314.8	29,000		390
400								8.8	269.5	26,400		400

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



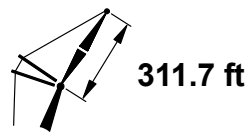
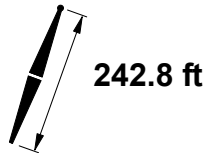
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.9	552.1	150,000	150,000									115
120	73.9	550.6	149,600	149,600									120
125	73.0	549.0	148,900	148,900									125
130	72.0	547.4	148,400	148,400									130
135	71.0	545.6	147,700	147,700	72.7	547.5	147,000	147,000					135
140	70.0	543.8	147,100	147,100	71.7	545.8	146,800	146,800					140
145	69.1	541.8	146,400	146,400	70.7	544.1	146,500	146,500					145
150	68.1	539.8	145,600	145,600	69.7	542.2	146,100	146,100					150
155	67.1	537.6	144,800	144,800	68.7	540.2	145,800	145,800					155
160	66.0	535.4	144,000	144,000	67.7	538.1	142,100	145,400					160
165	65.0	533.0	143,200	143,200	66.7	535.9	135,200	144,900	69.3	539.2	117,200	141,200	165
170	64.0	530.6	140,400	142,400	65.7	533.7	128,700	144,300	68.3	537.2	111,300	141,200	170
175	63.0	528.0	133,900	141,400	64.7	531.3	122,600	143,700	67.3	535.0	105,600	141,200	175
180	61.9	525.3	127,800	140,500	63.7	528.8	116,800	143,100	66.3	532.8	100,300	141,200	180
185	60.9	522.5	122,000	139,600	62.6	526.1	111,300	142,500	65.2	530.5	95,300	141,200	185
190	59.8	519.5	116,600	138,000	61.6	523.4	106,100	141,800	64.2	528.0	90,600	141,000	190
195	58.7	516.4	111,400	134,400	60.5	520.5	101,200	141,100	63.2	525.5	86,100	140,800	195
200	57.6	513.2	106,500	130,900	59.5	517.6	96,600	140,400	62.1	522.8	81,800	140,600	200
205	56.5	509.9	101,800	127,300	58.4	514.5	92,100	139,600	61.1	520.0	77,800	140,300	205
210	55.4	506.4	97,300	123,800	57.3	511.2	87,900	138,900	60.0	517.1	73,900	140,000	210
215	54.3	502.8	93,100	120,200	56.2	507.8	83,900	138,100	58.9	514.0	70,200	139,600	215
220	53.1	499.0	89,000	116,800	55.1	504.3	80,100	137,100	57.9	510.8	66,700	139,200	220
225	52.0	495.1	85,200	113,400	53.9	500.6	76,400	133,600	56.8	507.5	63,400	138,800	225
230	50.8	490.9	81,400	110,000	52.8	496.8	72,900	130,100	55.6	504.1	60,200	135,400	230
235	49.6	486.6	77,900	106,800	51.6	492.8	69,500	126,500	54.5	500.5	57,100	131,200	235
240	48.3	482.2	74,500	103,500	50.4	488.6	66,300	123,000	53.4	496.7	54,100	127,100	240
250	45.8	472.6	68,100	97,400	47.9	479.7	60,300	116,300	51.0	488.7	48,600	119,500	250
260	43.1	462.1	62,200	91,700	45.4	470.0	54,700	109,700	48.6	480.0	43,500	112,400	260
270	40.3	450.5	56,700	86,500	42.7	459.4	49,500	103,400	46.0	470.5	38,700	105,900	270
280	37.3	437.7	51,600	81,600	39.8	447.6	44,600	97,500	43.4	460.1	34,300	99,900	280
290	34.1	423.4	46,800	77,300	36.8	434.6	40,100	92,100	40.6	448.7	30,200	94,200	290
300	30.6	407.1	42,300	73,600	33.6	420.0	35,900	87,200	37.6	436.0	26,300	88,900	300
310	26.6	388.1	38,100	70,500	30.0	403.3	31,900	82,900	34.4	421.9	22,700	84,000	310
320	22.0	365.1	34,100	68,000	26.0	383.8	28,100	78,700	31.0	405.8		79,400	320
330	16.2	334.8	30,200	56,800	21.2	360.0	24,500	68,400	27.1	387.1		75,000	330
340	5.7	278.6	26,100	40,600	15.0	327.9	21,000	56,900	22.5	364.6		70,900	340
350									16.8	335.4		63,000	350
360									7.5	285.6		48,400	360
370													370
380													380
390													390
400													400
410													410
420													420

MLC650 VPC-MAX S-2

ASME B30.5



661,300 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	64.4	523.5	50,900	129,400								210
215	63.3	520.9	47,800	129,400								215
220	62.3	518.3	44,800	128,400								220
225	61.2	515.5	42,000	124,100								225
230	60.2	512.6	39,200	120,000								230
235	59.1	509.6	36,600	116,100								235
240	58.0	506.4	34,100	112,400								240
250	55.8	499.7	29,400	105,300								250
260	53.5	492.4	25,100	98,900	58.0	499.9	85,600					260
270	51.2	484.4	21,000	92,800	55.8	493.1	80,100					270
280	48.7	475.8		87,300	53.5	485.8	75,000					280
290	46.2	466.3		82,100	51.2	477.9	70,200					290
300	43.6	456.0		77,200	48.8	469.3	65,800	53.4	477.1	54,700		300
310	40.8	444.6		72,700	46.2	459.8	61,600	51.1	469.1	50,900		310
320	37.8	432.1		68,400	43.6	449.5	57,700	48.7	460.4	47,400		320
330	34.7	418.0		64,400	40.8	438.2	54,100	46.1	451.0	44,000		330
340	31.2	402.1		60,600	37.9	425.6	50,600	43.5	440.6	40,900		340
350	27.3	383.6		57,000	34.7	411.6	47,300	40.7	429.2	37,900		350
360	22.9	361.4		53,600	31.3	395.7	44,200	37.7	416.6	35,100		360
370	17.3	332.8		50,300	27.4	377.3	41,200	34.5	402.5	32,400		370
380	8.5	286.0		47,100	22.9	355.2	38,400	31.1	386.5	29,800		380
390					17.4	326.7	35,700	27.2	367.9	27,400		390
400					8.7	280.6	33,000	22.7	345.6	25,000		400
410								17.1	316.6	22,700		410
420								8.0	268.4	20,400		420

MLC650 VPC-MAX S-2

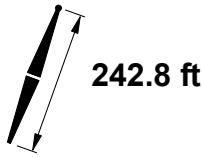
ASME B30.5



661,300 lb



360°



242.8 ft



331.4 ft

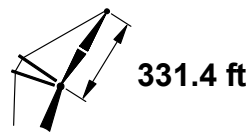
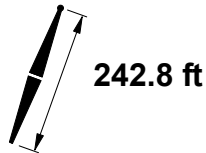
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
120	74.9	571.1	130,000	130,000									120
125	74.0	569.7	129,500	129,500									125
130	73.1	568.1	129,000	129,000									130
135	72.2	566.5	128,400	128,400									135
140	71.3	564.7	127,700	127,700	72.8	566.6	127,000	127,000					140
145	70.4	562.9	127,100	127,100	71.9	564.9	126,700	126,700					145
150	69.4	561.0	126,400	126,400	71.0	563.2	126,300	126,300					150
155	68.5	559.0	125,600	125,600	70.1	561.3	125,900	125,900					155
160	67.6	556.9	124,900	124,900	69.1	559.4	125,500	125,500					160
165	66.6	554.7	124,100	124,100	68.2	557.4	125,000	125,000					165
170	65.7	552.4	123,300	123,300	67.3	555.3	124,400	124,400	69.6	558.4	107,400	121,200	170
175	64.7	550.0	122,500	122,500	66.3	553.0	119,000	123,900	68.7	556.4	101,800	121,100	175
180	63.7	547.6	121,700	121,700	65.4	550.7	113,200	123,300	67.8	554.3	96,500	121,000	180
185	62.8	544.9	118,700	120,900	64.4	548.3	107,800	122,700	66.8	552.1	91,500	120,900	185
190	61.8	542.2	113,300	120,000	63.4	545.7	102,600	122,100	65.9	549.9	86,800	120,700	190
195	60.8	539.4	108,100	119,200	62.5	543.1	97,700	121,500	64.9	547.5	82,400	120,500	195
200	59.8	536.5	103,200	118,300	61.5	540.4	93,100	120,800	63.9	545.0	78,100	120,200	200
205	58.8	533.4	98,500	117,500	60.5	537.5	88,700	120,200	63.0	542.4	74,100	119,900	205
210	57.7	530.2	94,100	115,200	59.5	534.5	84,500	119,500	62.0	539.7	70,200	119,600	210
215	56.7	526.9	89,800	112,200	58.5	531.4	80,500	118,800	61.0	536.9	66,600	119,300	215
220	55.7	523.5	85,800	109,300	57.4	528.2	76,700	118,100	60.0	534.0	63,100	118,900	220
225	54.6	519.9	81,900	106,400	56.4	524.8	73,000	117,400	59.0	531.0	59,700	118,500	225
230	53.5	516.1	78,200	103,500	55.3	521.3	69,500	116,700	58.0	527.8	56,600	118,100	230
235	52.4	512.3	74,700	100,600	54.3	517.7	66,200	116,000	56.9	524.5	53,500	117,700	235
240	51.3	508.2	71,300	97,800	53.2	513.9	63,000	115,300	55.9	521.1	50,600	117,200	240
250	49.0	499.7	64,900	92,300	51.0	505.9	56,900	109,400	53.7	513.9	45,100	116,300	250
260	46.7	490.4	59,000	87,100	48.7	497.3	51,400	103,700	51.5	506.0	40,000	109,600	260
270	44.2	480.2	53,600	82,100	46.3	487.8	46,200	98,200	49.3	497.5	35,300	103,100	270
280	41.6	469.2	48,500	77,500	43.8	477.6	41,400	92,900	46.9	488.3	30,900	97,100	280
290	38.9	457.1	43,800	73,200	41.2	466.4	36,900	87,800	44.5	478.3	26,800	91,500	290
300	36.0	443.7	39,300	69,300	38.5	454.1	32,800	83,000	41.9	467.3	23,000	86,200	300
310	32.9	428.7	35,200	65,900	35.6	440.4	28,800	78,600	39.2	455.3		81,300	310
320	29.5	411.6	31,200	62,900	32.4	425.1	25,100	74,600	36.3	442.0		76,700	320
330	25.7	391.9	27,500	60,400	28.9	407.8	21,600	71,200	33.2	427.2		72,400	330
340	21.2	367.9	23,900	54,900	25.0	387.4		64,500	29.9	410.4		68,300	340
350	15.4	336.2	20,400	44,800	20.4	362.6		55,300	26.1	391.0		64,500	350
360	4.7	275.3		29,500	14.3	329.0		44,900	21.7	367.5		60,400	360
370									16.1	337.0		50,600	370
380									6.8	283.8		37,100	380
390													390
400													400
410													410
420													420

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



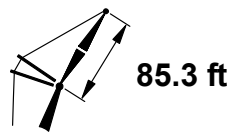
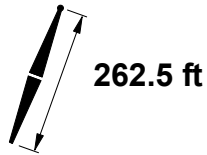
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215												215
220	64.1	540.5	40,800	110,300								220
225	63.1	537.9	38,000	110,300								225
230	62.1	535.2	35,300	110,300								230
235	61.1	532.5	32,700	110,300								235
240	60.1	529.5	30,200	109,200								240
250	58.1	523.4	25,500	102,300								250
260	56.0	516.7	21,200	95,800								260
270	53.9	509.5		89,800	58.1	516.8	76,900					270
280	51.7	501.7		84,300	56.0	510.2	71,800					280
290	49.4	493.2		79,100	53.9	503.0	67,100					290
300	47.1	484.1		74,300	51.7	495.2	62,700					300
310	44.6	474.1		69,800	49.5	486.7	58,600	53.8	494.2	47,700		310
320	42.1	463.2		65,600	47.1	477.6	54,700	51.6	486.4	44,200		320
330	39.4	451.3		61,600	44.7	467.6	51,100	49.3	477.9	40,900		330
340	36.5	438.1		57,900	42.1	456.7	47,600	47.0	468.7	37,800		340
350	33.5	423.4		54,300	39.4	444.8	44,400	44.6	458.7	34,800		350
360	30.1	406.7		51,000	36.6	431.7	41,300	42.0	447.8	32,000		360
370	26.3	387.5		47,800	33.5	417.0	38,400	39.3	435.8	29,400		370
380	22.0	364.4		44,700	30.2	400.4	35,700	36.4	422.6	26,900		380
390	16.5	334.5		41,800	26.4	381.2	33,000	33.3	407.8	24,500		390
400	7.8	284.8		38,900	22.1	358.2	30,500	30.0	391.1	22,200		400
410					16.6	328.4	28,000	26.2	371.8	20,000		410
420					8.0	279.5	25,600					420

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



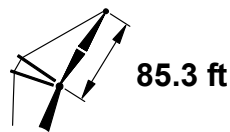
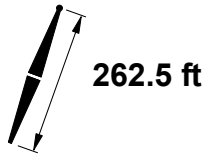
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	73.2	352.3	572,200 d	572,200 d									60
65	69.6	350.4	553,700 d	553,700 d									65
70	65.9	348.0	522,700 c	553,100 c	72.6	351.0	497,500 d	554,200 d					70
75	62.1	345.2	482,300 c	545,900 c	69.0	348.9	459,000 c	537,200 c					75
80	58.1	342.0	447,100 b	529,700 b	65.2	346.5	425,500 c	521,000 c					80
85	53.9	338.2	416,200 b	514,300 b	61.4	343.6	396,100 c	505,800 c					85
90	49.4	333.8	388,900	504,500	57.3	340.3	370,100 b	505,800 b	67.9	346.1	341,800 c	511,900 c	90
95	44.6	328.7	364,600	487,800	53.1	336.4	346,900 b	501,200 b	64.2	343.5	320,300 c	480,700 c	95
100	39.2	322.5	342,700	472,500	48.6	331.9	326,100	472,200	60.3	340.6	301,100 b	452,800 b	100
105	33.1	314.8	322,800	458,500	43.7	326.6	307,300	446,200	56.2	337.1	283,700 b	427,800 b	105
110	25.5	304.7	304,500	415,700	38.2	320.2	290,200	422,600	51.9	333.0	267,900 b	405,300 b	110
115	13.8	288.1	287,200	328,000	31.9	312.2	274,400	401,200	47.2	328.3	253,500	384,800	115
120					23.9	301.4	259,700	381,600	42.2	322.7	240,200	366,000	120
125					10.0	281.4	245,400	315,200	36.5	315.9	228,000	348,900	125
130									29.9	307.3	216,500	333,100	130
135									21.1	295.3	205,600	318,400	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-2

ASME B30.5



661,300 lb



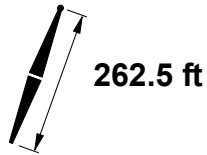
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120	62.1	336.8	206,600 b	340,200 b									120
125	58.1	333.5	196,000 b	324,300 b									125
130	53.9	329.8	186,300 b	309,600 b									130
135	49.4	325.4	177,200 b	296,100 b									135
140	44.6	320.2	168,700	283,500									140
145	39.3	314.0	160,800	271,800	59.6	327.6	134,100 b	251,500 b					145
150	33.2	306.4	153,300	260,900	55.4	324.0	127,800 b	241,400 b					150
155	25.6	296.3	146,100	250,600	51.1	319.9	121,900 b	232,000 b					155
160	14.0	279.8	138,800	240,800	46.4	315.0	116,300	223,200					160
165					41.3	309.2	111,000	214,900					165
170					35.5	302.2	105,900	207,000					170
175					28.6	293.2	101,000	199,600	52.1	311.8	80,300	183,800	175
180					19.2	280.1	96,000	192,400	47.5	307.1	76,500	177,400	180
185									42.4	301.5	72,900	171,300	185
190									36.8	294.8	69,400	165,500	190
195									30.2	286.4	65,900	159,900	195
200									21.6	274.5	62,400	154,500	200

MLC650 VPC-MAX S-2

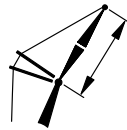
ASME B30.5



661,300 lb



262.5 ft



95.1 ft

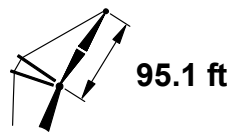
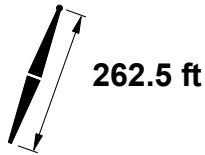
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	71.8	361.0	538,300 c	538,300 c									65
70	68.6	358.9	520,100 c	523,700 c									70
75	65.2	356.5	479,700 c	523,700 c	71.3	359.6	456,000 c	522,900 c					75
80	61.8	353.7	444,700 b	515,900 b	68.0	357.4	422,600 c	507,600 c					80
85	58.2	350.5	413,900 b	501,300 b	64.6	355.0	393,300 b	493,000 b					85
90	54.5	346.8	386,700	487,300	61.2	352.1	367,400 b	487,600 b					90
95	50.5	342.6	362,500	473,600	57.6	348.8	344,400 b	487,600 b	67.1	354.6	317,200 b	477,500 b	95
100	46.3	337.7	340,800	458,500	53.8	345.1	323,700	469,400	63.7	352.0	298,000 b	449,800 b	100
105	41.8	332.1	321,100	439,600	49.8	340.7	305,000	443,500	60.2	349.0	280,800 b	424,900 b	105
110	36.8	325.3	303,200	419,500	45.6	335.7	288,100	420,100	56.5	345.6	265,100 b	402,400 b	110
115	30.9	317.1	286,800	403,100	41.0	329.9	272,600	398,900	52.7	341.7	250,800	382,100	115
120	23.7	306.2	271,600	374,800	35.8	322.9	258,300	379,500	48.7	337.2	237,700	363,500	120
125	12.4	288.0	257,000	296,700	29.8	314.3	245,100	361,700	44.3	332.0	225,700	346,500	125
130					22.2	302.7	232,700	345,300	39.6	325.9	214,500	330,800	130
135					8.4	280.4	220,400	284,300	34.2	318.5	204,000	316,300	135
140									27.9	309.3	194,200	302,900	140
145									19.5	296.3	184,800	290,300	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-2

ASME B30.5



661,300 lb



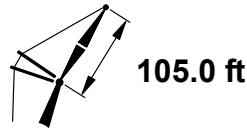
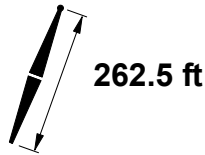
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	61.8	345.2	192,700 b	321,300 b									125
130	58.3	342.0	183,100 b	306,800 b									130
135	54.5	338.4	174,100 b	293,300 b									135
140	50.6	334.1	165,800	280,900									140
145	46.4	329.3	158,000	269,300									145
150	41.9	323.6	150,700	258,500	59.6	336.1	124,300	238,500					150
155	36.8	316.9	143,800	248,400	55.9	332.6	118,500	229,200					155
160	31.0	308.7	137,300	239,000	52.0	328.6	113,100	220,500					160
165	23.8	297.8	130,900	230,000	47.9	324.0	107,900	212,300					165
170	12.6	279.8	124,500	221,400	43.5	318.6	103,000	204,600					170
175					38.7	312.3	98,300	197,300					175
180					33.2	304.7	93,800	190,400	52.9	320.5	73,100	174,700	180
185					26.6	295.0	89,500	183,800	48.9	316.0	69,600	168,700	185
190					17.6	280.8	85,000	177,400	44.5	310.8	66,200	163,000	190
195									39.8	304.7	63,000	157,500	195
200									34.5	297.5	59,900	152,300	200
205									28.2	288.3	56,800	147,300	205
210									20.0	275.6	53,600	142,500	210

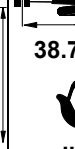
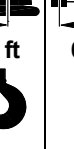
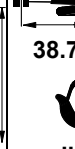
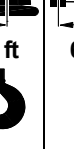
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
													
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	73.6	371.4	524,100 c	524,100 c									65
70	70.7	369.6	508,400 c	508,400 c									70
75	67.7	367.4	478,300 c	508,400 c									75
80	64.7	365.0	443,400 b	503,400 b	70.2	368.2	421,000 c	495,300 c					80
85	61.6	362.2	412,700 b	489,400 b	67.2	366.0	391,800 b	481,400 b					85
90	58.3	359.0	385,600	476,100	64.2	363.4	366,000 b	468,200 b					90
95	55.0	355.4	361,500	462,500	61.0	360.6	343,000 b	468,200 b	69.4	365.4	315,400 b	475,200 b	95
100	51.5	351.3	339,900	447,800	57.8	357.3	322,400	467,600	66.4	363.1	296,300 b	447,700 b	100
105	47.7	346.7	320,400	425,200	54.4	353.6	303,900	441,800	63.3	360.5	279,200 b	422,900 b	105
110	43.8	341.4	302,600	404,100	50.8	349.5	287,000	418,500	60.1	357.5	263,600 b	400,600 b	110
115	39.5	335.2	286,400	385,300	47.1	344.7	271,700	397,400	56.8	354.1	249,400	380,300	115
120	34.7	328.0	271,600	368,900	43.0	339.3	257,600	378,100	53.4	350.3	236,400	361,900	120
125	29.1	319.2	257,800	355,900	38.6	333.0	244,600	360,500	49.8	346.0	224,400	344,900	125
130	22.2	307.5	244,900	341,300	33.7	325.5	232,500	344,200	46.0	341.1	213,400	329,400	130
135	11.1	287.8	232,400	270,900	28.0	316.3	221,300	329,200	41.8	335.4	203,100	315,000	135
140					20.7	303.9	210,600	315,300	37.3	328.8	193,600	301,700	140
145					6.8	279.0	199,900	258,400	32.2	320.9	184,600	289,300	145
150									26.2	311.0	176,100	277,800	150
155									18.1	297.1	167,900	266,900	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-2

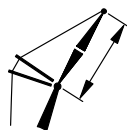
ASME B30.5



661,300 lb



262.5 ft



105.0 ft

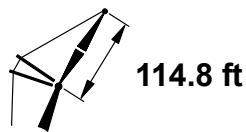
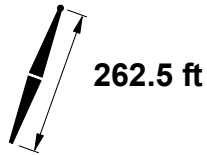
	75°				70°				65°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	64.7	356.5	190,800 b	319,500 b									125
130	61.6	353.7	181,300	305,000									130
135	58.4	350.5	172,400	291,600									135
140	55.0	346.9	164,200	279,300									140
145	51.5	342.9	156,500	267,800									145
150	47.8	338.2	149,300	257,100									150
155	43.8	332.9	142,600	247,100	59.6	344.5	116,600	227,500					155
160	39.5	326.8	136,200	237,700	56.2	341.1	111,300	218,800					160
165	34.7	319.6	130,200	228,900	52.8	337.2	106,200	210,700					165
170	29.2	310.8	124,400	220,600	49.1	332.8	101,400	203,100					170
175	22.3	299.2	118,800	212,700	45.3	327.8	96,800	195,900					175
180	11.3	279.6	113,000	205,100	41.1	322.0	92,500	189,100					180
185					36.5	315.2	88,300	182,600	53.6	329.1	67,700	167,100	185
190					31.3	307.0	84,300	176,500	50.0	324.8	64,500	161,400	190
195					25.0	296.6	80,400	170,600	46.1	319.9	61,400	156,100	195
200					16.3	281.4	76,400	164,800	42.0	314.3	58,400	151,000	200
205									37.6	307.7	55,500	146,100	205
210									32.5	299.9	52,600	141,500	210
215									26.5	290.1	49,800	137,000	215
220									18.6	276.5	47,000	132,600	220

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



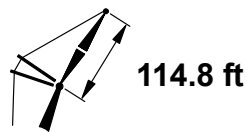
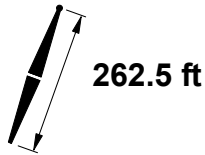
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	72.4	380.1	492,700 c	492,700 c									70
75	69.8	378.2	475,600 b	482,100 b									75
80	67.0	376.0	440,700 b	482,100 b	72.0	378.7	418,000 b	480,600 b					80
85	64.2	373.5	410,100 b	475,300 b	69.3	376.7	388,800 b	467,500 b					85
90	61.4	370.6	383,100	462,700	66.6	374.5	363,100 b	455,000 b					90
95	58.4	367.5	359,100	450,600	63.8	371.9	340,200 b	446,300 b					95
100	55.4	363.9	337,500	433,900	60.9	369.0	319,700	446,300	68.5	373.9	293,100 b	444,500 b	100
105	52.2	360.0	318,100	412,300	57.9	365.8	301,200	439,000	65.8	371.6	276,100 b	419,900 b	105
110	48.9	355.5	300,400	391,900	54.8	362.2	284,500	415,800	63.0	368.9	260,600	397,700	110
115	45.3	350.5	284,400	372,800	51.6	358.2	269,200	394,800	60.1	366.0	246,400	377,500	115
120	41.5	344.8	269,600	355,300	48.3	353.6	255,200	375,700	57.1	362.6	233,500	359,100	120
125	37.4	338.2	256,100	339,800	44.7	348.5	242,300	358,100	53.9	358.9	221,700	342,300	125
130	32.8	330.5	243,500	326,500	40.8	342.6	230,400	342,000	50.7	354.7	210,700	326,800	130
135	27.5	321.1	231,800	316,000	36.7	335.9	219,400	327,100	47.3	350.0	200,500	312,600	135
140	20.9	308.7	220,700	309,700	32.0	327.9	209,100	313,200	43.6	344.7	191,100	299,300	140
145	9.9	287.3	209,800	246,500	26.5	318.1	199,400	300,400	39.7	338.6	182,300	287,100	145
150					19.4	304.9	190,100	288,400	35.4	331.6	174,000	275,600	150
155					5.1	276.7	180,600	232,600	30.5	323.2	166,200	264,900	155
160									24.7	312.7	158,800	254,900	160
165									16.9	297.8	151,500	245,300	165
170													170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
225													225
230													230

MLC650 VPC-MAX S-2

ASME B30.5



661,300 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	64.3	365.0	177,900	302,000									130
135	61.4	362.2	169,100	288,800									135
140	58.5	359.0	161,000	276,500									140
145	55.4	355.5	153,400	265,100									145
150	52.2	351.5	146,300	254,500									150
155	48.9	347.1	139,600	244,500									155
160	45.4	342.1	133,400	235,300	59.5	353.0	107,800	216,000					160
165	41.6	336.4	127,500	226,600	56.5	349.6	102,800	208,000					165
170	37.5	329.8	121,900	218,400	53.4	345.8	98,100	200,400					170
175	32.9	322.1	116,500	210,600	50.1	341.6	93,600	193,200					175
180	27.6	312.7	111,400	203,300	46.7	336.8	89,400	186,500					180
185	20.9	300.3	106,400	196,300	43.0	331.3	85,400	180,100					185
190	10.1	279.2	101,200	189,400	39.0	325.1	81,500	174,100	54.1	337.7	61,000	158,700	190
195					34.6	317.9	77,800	168,300	50.9	333.5	58,000	153,400	195
200					29.6	309.2	74,200	162,800	47.4	328.8	55,100	148,400	200
205					23.6	298.1	70,700	157,500	43.8	323.5	52,300	143,600	205
210					15.1	281.9	67,000	152,400	39.9	317.5	49,600	139,000	210
215									35.6	310.5	47,000	134,600	215
220									30.8	302.2	44,400	130,400	220
225									25.0	291.8	41,900	126,300	225
230									17.3	277.2	39,300	122,300	230

MLC650 VPC-MAX S-2

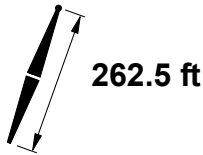
ASME B30.5



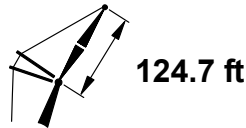
661,300 lb



360°



262.5 ft



124.7 ft

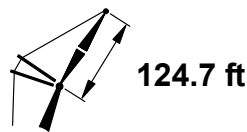
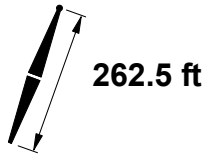
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.9	390.5	467,600 c	467,600 c									70
75	71.4	388.7	466,100 b	466,100 b									75
80	69.0	386.7	440,900 b	462,900 b									80
85	66.4	384.5	410,400 b	458,300 b	71.0	387.3	388,900 b	460,700 b					85
90	63.9	381.9	383,400 b	451,800 b	68.5	385.3	363,200 b	448,600 b					90
95	61.2	379.1	359,400	438,600	66.0	383.0	340,400 b	437,000 b					95
100	58.5	376.0	337,900	422,100	63.4	380.4	319,900	437,000					100
105	55.7	372.5	318,500	402,300	60.8	377.5	301,500	437,000	67.8	382.5	276,100 b	419,200 b	105
110	52.8	368.6	300,900	383,000	58.0	374.3	284,800	415,300	65.3	380.1	260,600	397,100	110
115	49.8	364.3	284,900	364,600	55.2	370.8	269,600	394,400	62.7	377.4	246,600	377,000	115
120	46.6	359.5	270,300	347,200	52.3	366.8	255,600	375,300	60.0	374.4	233,700	358,700	120
125	43.2	354.1	256,800	331,100	49.2	362.4	242,800	357,800	57.3	371.1	221,900	341,900	125
130	39.6	348.0	244,400	316,500	46.0	357.5	231,000	341,700	54.4	367.5	211,000	326,500	130
135	35.7	341.0	232,800	303,500	42.6	352.0	220,100	326,900	51.4	363.4	200,900	312,300	135
140	31.3	332.8	222,000	292,600	38.9	345.8	209,900	313,200	48.3	358.9	191,500	299,200	140
145	26.1	322.9	211,900	284,200	34.9	338.6	200,400	300,400	45.1	353.8	182,800	286,900	145
150	19.7	309.8	202,300	279,400	30.4	330.2	191,400	288,600	41.6	348.1	174,600	275,600	150
155	8.8	286.6	192,800	226,500	25.1	319.8	183,000	277,400	37.8	341.7	166,900	264,900	155
160					18.3	305.8	174,900	267,000	33.7	334.2	159,700	255,000	160
165									29.0	325.3	152,900	245,600	165
170									23.4	314.2	146,300	236,800	170
175									15.8	298.4	139,900	228,400	175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
225													225
230													230
235													235
240													240

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



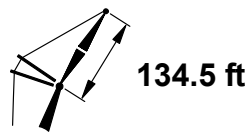
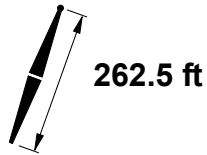
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	63.9	373.5	169,100	288,400									135
140	61.3	370.6	161,000	276,100									140
145	58.6	367.5	153,500	264,800									145
150	55.8	364.0	146,400	254,200									150
155	52.8	360.1	139,800	244,400									155
160	49.8	355.8	133,700	235,100									160
165	46.6	351.0	127,800	226,500	59.5	361.5	102,800	207,700					165
170	43.3	345.7	122,300	218,300	56.8	358.1	98,200	200,200					170
175	39.6	339.6	117,100	210,700	53.9	354.4	93,800	193,100					175
180	35.7	332.6	112,100	203,400	50.9	350.3	89,600	186,400					180
185	31.3	324.4	107,300	196,600	47.8	345.7	85,600	180,100					185
190	26.2	314.5	102,700	190,000	44.5	340.5	81,800	174,100					190
195	19.8	301.4	98,200	183,800	41.0	334.7	78,200	168,400	54.5	346.2	58,000	153,300	195
200	9.0	278.6	93,500	177,600	37.2	328.1	74,700	163,000	51.6	342.2	55,200	148,300	200
205					33.0	320.4	71,400	157,800	48.5	337.7	52,500	143,500	205
210					28.1	311.2	68,100	152,800	45.2	332.6	49,800	139,000	210
215					22.3	299.5	64,900	148,100	41.8	327.0	47,300	134,700	215
220					14.0	282.2	61,600	143,400	38.0	320.6	44,900	130,600	220
225									33.9	313.1	42,500	126,600	225
230									29.3	304.3	40,200	122,800	230
235									23.7	293.3	37,900	119,100	235
240									16.2	277.9	35,500	115,400	240

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



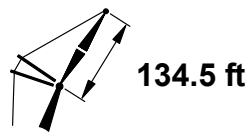
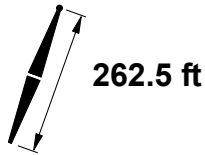
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	72.9	399.2	434,500 b	434,500 b									75
80	70.6	397.4	432,700 b	432,700 b									80
85	68.3	395.3	407,700 b	429,600 b	72.5	397.8	386,000 b	435,600 b					85
90	65.9	393.0	380,800	425,500	70.2	395.9	360,300 b	435,600 b					90
95	63.6	390.4	356,900	420,500	67.9	393.8	337,600	426,100					95
100	61.1	387.6	335,400	407,500	65.5	391.5	317,200	419,800					100
105	58.6	384.5	316,100	389,500	63.1	388.9	298,800	419,800	69.5	393.2	273,000	416,200	105
110	56.0	381.0	298,600	371,900	60.7	386.0	282,100	412,600	67.2	391.0	257,600	394,200	110
115	53.3	377.2	282,600	354,500	58.1	382.8	266,900	391,800	64.9	388.6	243,600	374,200	115
120	50.6	373.0	268,000	338,000	55.5	379.3	253,100	372,800	62.4	385.9	230,800	355,900	120
125	47.7	368.4	254,600	322,200	52.9	375.4	240,300	355,400	60.0	382.9	219,000	339,300	125
130	44.6	363.3	242,200	307,500	50.1	371.2	228,600	339,400	57.4	379.6	208,200	323,900	130
135	41.4	357.5	230,800	294,000	47.1	366.5	217,700	324,600	54.8	376.0	198,100	309,800	135
140	37.9	351.1	220,100	281,800	44.1	361.2	207,600	310,900	52.1	372.1	188,800	296,700	140
145	34.1	343.7	210,200	271,100	40.8	355.4	198,200	298,300	49.2	367.7	180,200	284,500	145
150	29.8	335.1	200,800	262,000	37.2	348.8	189,400	286,500	46.3	362.8	172,100	273,200	150
155	24.9	324.6	192,000	255,300	33.4	341.2	181,100	275,400	43.2	357.4	164,500	262,700	155
160	18.6	310.7	183,600	251,800	29.0	332.3	173,300	265,100	39.8	351.4	157,300	252,800	160
165	7.7	285.7	175,200	206,700	23.9	321.4	165,900	255,400	36.2	344.5	150,600	243,500	165
170					17.3	306.6	158,700	246,200	32.2	336.6	144,200	234,800	170
175									27.7	327.3	138,200	226,500	175
180									22.3	315.5	132,300	218,700	180
185									14.8	298.8	126,600	211,300	185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
225													225
230													230
235													235
240													240
250													250

MLC650 VPC-MAX S-2

ASME B30.5



661,300 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	157,800	273,300									140
145	61.1	379.1	150,300	262,100									145
150	58.6	376.0	143,300	251,500									150
155	56.0	372.5	136,800	241,700									155
160	53.4	368.7	130,600	232,600									160
165	50.6	364.6	124,900	224,000									165
170	47.7	359.9	119,400	215,900	59.5	370.0	94,800	197,400					170
175	44.6	354.8	114,300	208,300	57.0	366.7	90,400	190,400					175
180	41.4	349.1	109,400	201,100	54.3	363.0	86,300	183,800					180
185	37.9	342.6	104,700	194,300	51.6	358.9	82,400	177,500					185
190	34.1	335.3	100,300	187,900	48.7	354.5	78,700	171,500					190
195	29.9	326.6	96,000	181,700	45.8	349.6	75,200	165,900					195
200	25.0	316.2	91,900	175,900	42.6	344.1	71,800	160,500	54.9	354.8	51,700	145,600	200
205	18.7	302.4	87,800	170,200	39.2	337.9	68,500	155,400	52.2	350.8	49,100	140,900	205
210	8.0	277.7	83,500	164,700	35.5	330.9	65,400	150,600	49.4	346.5	46,500	136,400	210
215					31.5	322.8	62,400	145,900	46.4	341.6	44,100	132,100	215
220					26.8	313.1	59,400	141,400	43.3	336.3	41,700	128,100	220
225					21.2	300.7	56,500	137,100	40.0	330.3	39,500	124,100	225
230					13.1	282.4	53,500	132,800	36.4	323.4	37,200	120,400	230
235									32.4	315.6	35,100	116,800	235
240									27.9	306.3	33,000	113,300	240
250									15.3	278.4	28,600	106,600	250

MLC650 VPC-MAX S-2

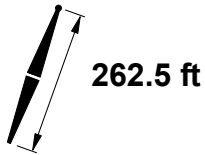
ASME B30.5



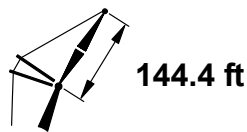
661,300 lb



360°



262.5 ft



144.4 ft

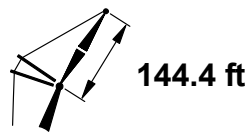
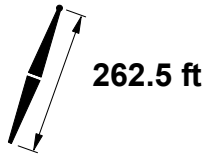
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	74.1	409.6	404,800 b	404,800 b									75
80	72.0	407.9	404,200 b	404,200 b									80
85	69.9	406.0	402,400	402,400									85
90	67.7	403.8	379,000	399,600	71.6	406.5	358,300	405,600					90
95	65.5	401.5	355,100	395,800	69.5	404.5	335,600	405,600					95
100	63.3	398.9	333,700	391,600	67.3	402.4	315,200	405,400					100
105	61.0	396.1	314,400	377,000	65.1	400.0	296,900	403,700					105
110	58.7	392.9	296,900	361,000	62.9	397.3	280,200	401,200	68.9	401.7	255,500	392,000	110
115	56.3	389.5	280,900	345,000	60.6	394.5	265,100	389,800	66.7	399.5	241,500	372,000	115
120	53.8	385.8	266,400	329,500	58.2	391.3	251,300	370,800	64.5	397.1	228,700	353,900	120
125	51.2	381.7	253,000	314,600	55.8	387.8	238,600	353,500	62.2	394.4	217,000	337,300	125
130	48.6	377.2	240,700	300,300	53.3	384.0	226,900	337,500	59.9	391.4	206,200	322,000	130
135	45.8	372.3	229,300	286,900	50.8	379.9	216,000	322,800	57.6	388.1	196,200	307,900	135
140	42.8	366.8	218,700	274,400	48.1	375.3	206,000	309,200	55.1	384.6	187,000	294,900	140
145	39.7	360.8	208,900	263,000	45.3	370.3	196,600	296,600	52.6	380.7	178,300	282,800	145
150	36.4	354.0	199,600	252,800	42.3	364.8	187,900	284,800	50.0	376.4	170,300	271,500	150
155	32.7	346.2	191,000	243,800	39.1	358.6	179,700	273,900	47.3	371.8	162,800	261,000	155
160	28.6	337.1	182,800	236,300	35.7	351.6	172,000	263,600	44.4	366.6	155,700	251,200	160
165	23.8	326.1	175,100	230,800	32.0	343.6	164,700	253,900	41.4	360.9	149,000	241,900	165
170	17.7	311.6	167,600	228,200	27.8	334.3	157,800	244,900	38.2	354.5	142,700	233,300	170
175	6.7	284.4	160,000	189,200	22.8	322.8	151,200	236,300	34.7	347.3	136,800	225,100	175
180					16.4	307.3	144,900	228,200	30.9	339.0	131,100	217,400	180
185									26.5	329.1	125,700	210,100	185
190									21.2	316.8	120,500	203,100	190
195									13.9	299.2	115,300	196,400	195
200													200
205													205
210													210
215													215
220													220
225													225
230													230
235													235
240													240
250													250
260													260

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



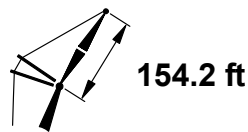
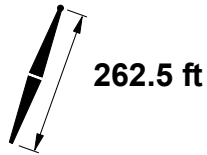
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	63.3	390.4	148,100	260,100									145
150	61.0	387.6	141,200	249,700									150
155	58.7	384.5	134,700	239,900									155
160	56.3	381.1	128,600	230,800									160
165	53.8	377.3	122,900	222,200									165
170	51.2	373.2	117,500	214,200									170
175	48.6	368.8	112,400	206,600	59.5	378.5	88,200	188,500					175
180	45.8	363.8	107,500	199,500	57.2	375.2	84,200	181,900					180
185	42.9	358.4	103,000	192,700	54.7	371.5	80,300	175,700					185
190	39.7	352.3	98,600	186,300	52.2	367.6	76,600	169,800					190
195	36.4	345.5	94,400	180,200	49.6	363.3	73,100	164,200					195
200	32.7	337.8	90,400	174,500	46.8	358.5	69,800	158,900					200
205	28.6	328.7	86,600	168,900	43.9	353.3	66,600	153,800					205
210	23.8	317.7	82,800	163,700	40.9	347.4	63,600	149,000	52.7	359.4	44,400	134,600	210
215	17.8	303.3	79,200	158,600	37.6	340.9	60,600	144,400	50.1	355.2	42,000	130,400	215
220	7.0	276.5	75,200	153,500	34.1	333.5	57,800	140,000	47.4	350.5	39,700	126,400	220
225					30.2	325.0	55,000	135,700	44.6	345.4	37,400	122,500	225
230					25.7	314.8	52,300	131,700	41.6	339.7	35,300	118,800	230
235					20.2	301.9	49,700	127,700	38.4	333.4	33,200	115,200	235
240					12.2	282.5	46,900	123,800	34.9	326.2	31,200	111,800	240
250									26.7	308.2	27,300	105,300	250
260									14.4	278.8	23,300	99,100	260

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



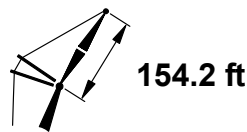
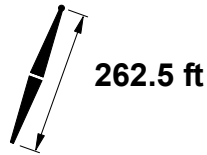
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	73.2	418.3	385,600 b	385,600 b									80
85	71.2	416.5	375,100	375,100									85
90	69.2	414.5	373,400	373,400	72.8	416.9	355,400	375,300					90
95	67.2	412.4	352,500	370,900	70.9	415.1	332,700	375,300					95
100	65.1	410.0	331,100	368,000	68.9	413.1	312,400	375,300					100
105	63.0	407.4	311,900	363,900	66.8	410.9	294,100	375,300					105
110	60.9	404.5	294,400	349,600	64.8	408.5	277,500	374,800					110
115	58.7	401.4	278,500	335,300	62.7	405.8	262,400	372,800	68.3	410.3	238,500	369,200	115
120	56.5	398.0	264,000	321,100	60.5	402.9	248,600	368,300	66.2	408.0	225,700	351,100	120
125	54.2	394.4	250,700	307,100	58.3	399.8	236,000	351,000	64.2	405.6	214,100	334,600	125
130	51.8	390.4	238,400	293,700	56.1	396.3	224,300	335,100	62.1	402.8	203,300	319,400	130
135	49.3	386.0	227,000	280,700	53.7	392.6	213,500	320,500	59.9	399.9	193,400	305,400	135
140	46.8	381.2	216,500	268,500	51.4	388.6	203,500	306,900	57.7	396.6	184,200	292,400	140
145	44.1	376.0	206,700	257,000	48.9	384.1	194,200	294,400	55.4	393.1	175,600	280,300	145
150	41.2	370.3	197,500	246,400	46.3	379.3	185,500	282,600	53.1	389.3	167,600	269,100	150
155	38.2	363.9	189,000	236,700	43.6	374.0	177,400	271,700	50.7	385.1	160,100	258,700	155
160	35.0	356.7	180,900	228,000	40.7	368.1	169,800	261,500	48.2	380.6	153,100	248,900	160
165	31.4	348.6	173,300	220,500	37.7	361.6	162,600	251,900	45.5	375.6	146,500	239,700	165
170	27.5	339.1	166,100	214,300	34.4	354.3	155,800	242,900	42.8	370.2	140,200	231,100	170
175	22.8	327.6	159,200	209,800	30.8	346.0	149,300	234,400	39.9	364.2	134,400	222,900	175
180	16.8	312.3	152,600	207,900	26.7	336.2	143,200	226,300	36.8	357.4	128,800	215,300	180
185	5.7	282.7	145,700	171,700	21.9	324.2	137,300	218,700	33.4	349.9	123,500	208,000	185
190					15.5	307.9	131,600	211,500	29.7	341.2	118,400	201,100	190
195									25.4	330.9	113,500	194,600	195
200									20.3	318.0	108,800	188,400	200
205									13.1	299.4	104,100	182,400	205
210													210
215													215
220													220
225													225
230													230
235													235
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250													250
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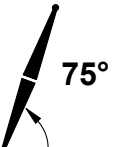
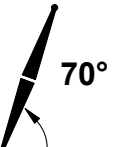
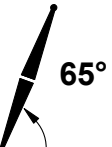
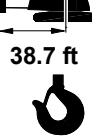
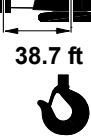
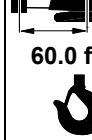
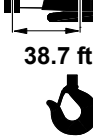
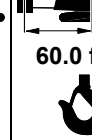
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



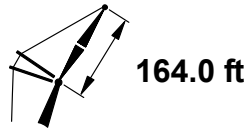
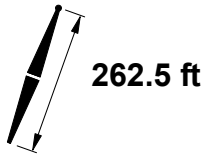
	 75°				 70°				 65°						
	 ft	 °	 ft	 lb	 lb	 °	 ft	 lb	 lb	 °	 ft	 lb		 lb	 ft
80															80
85															85
90															90
95															95
100															100
105															105
110															110
115															115
120															120
125															125
130															130
135															135
140															140
145															145
150	63.1	398.9	138,000	247,000											150
155	60.9	396.1	131,500	237,200											155
160	58.7	393.0	125,500	228,200											160
165	56.5	389.6	119,800	219,700											165
170	54.2	385.9	114,500	211,700											170
175	51.8	381.9	109,400	204,100											175
180	49.3	377.5	104,600	197,000	59.5	386.9	80,800	179,300							180
185	46.8	372.8	100,100	190,300	57.3	383.7	77,000	173,100							185
190	44.1	367.6	95,800	184,000	55.0	380.1	73,400	167,200							190
195	41.3	361.8	91,700	178,000	52.7	376.2	69,900	161,600							195
200	38.3	355.4	87,800	172,200	50.2	372.0	66,700	156,400							200
205	35.0	348.3	84,000	166,800	47.7	367.4	63,500	151,300							205
210	31.5	340.2	80,400	161,600	45.1	362.3	60,500	146,600							210
215	27.5	330.7	77,000	156,600	42.3	356.8	57,700	142,000	53.2	368.0	38,600	127,800			215
220	22.8	319.2	73,600	151,800	39.4	350.7	54,900	137,600	50.8	363.9	36,400	123,800			220
225	16.9	304.0	70,200	147,200	36.2	343.8	52,200	133,500	48.3	359.4	34,200	119,900			225
230	5.9	275.0	66,500	142,600	32.8	336.1	49,700	129,500	45.7	354.4	32,100	116,300			230
235					29.0	327.1	47,200	125,600	42.9	349.0	30,100	112,800			235
240					24.6	316.5	44,700	121,900	40.0	343.0	28,200	109,400			240
250					11.4	282.4	39,600	114,700	33.6	328.8	24,400	103,000			250
260									25.6	310.0	20,800	97,100			260
270									13.6	279.1		91,300			270

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



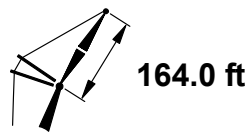
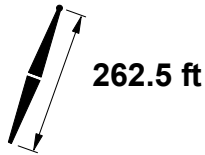
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	74.2	428.6	350,300	350,300									80
85	72.4	427.0	350,100	350,100									85
90	70.5	425.1	349,200	349,200									90
95	68.6	423.1	347,500	347,500	72.1	425.6	331,900	349,700					95
100	66.7	420.9	330,500	345,400	70.2	423.7	311,600	349,700					100
105	64.8	418.5	311,200	342,500	68.3	421.7	293,300	349,700					105
110	62.8	415.9	293,800	337,700	66.4	419.4	276,800	349,700					110
115	60.8	413.0	278,000	324,900	64.4	417.0	261,700	348,800	69.7	421.0	237,500	343,700	115
120	58.8	409.9	263,500	312,000	62.5	414.3	248,000	347,100	67.8	418.9	224,800	343,700	120
125	56.7	406.6	250,200	299,200	60.5	411.4	235,300	344,900	65.8	416.6	213,200	333,500	125
130	54.5	402.9	237,900	286,600	58.4	408.3	223,700	334,200	63.9	414.0	202,500	318,300	130
135	52.3	399.0	226,600	274,300	56.3	404.9	212,900	319,600	61.9	411.3	192,600	304,300	135
140	50.0	394.7	216,100	262,600	54.1	401.2	203,000	306,100	59.9	408.3	183,400	291,400	140
145	47.6	390.1	206,300	251,400	51.9	397.2	193,700	293,500	57.8	405.1	174,800	279,400	145
150	45.1	385.1	197,200	240,800	49.6	392.9	185,000	281,800	55.7	401.7	166,900	268,200	150
155	42.5	379.6	188,700	230,900	47.2	388.2	176,900	271,000	53.5	397.9	159,400	257,800	155
160	39.8	373.5	180,600	221,800	44.7	383.1	169,300	260,800	51.2	393.8	152,400	248,000	160
165	36.9	366.9	173,100	213,500	42.1	377.5	162,200	251,200	48.9	389.4	145,900	238,900	165
170	33.7	359.4	166,000	206,000	39.3	371.3	155,500	241,900	46.5	384.6	139,700	230,300	170
175	30.3	350.9	159,300	199,500	36.3	364.5	149,100	232,700	44.0	379.4	133,800	222,200	175
180	26.4	341.0	152,800	194,300	33.2	356.9	143,100	224,400	41.3	373.6	128,300	214,600	180
185	21.9	329.0	146,700	190,500	29.6	348.2	137,300	217,000	38.5	367.3	123,100	207,400	185
190	16.0	313.0	140,700	189,200	25.7	338.0	131,800	211,000	35.5	360.3	118,100	200,500	190
195	4.5	280.4	134,500	157,500	21.0	325.5	126,500	204,300	32.2	352.4	113,300	194,100	195
200					14.7	308.4	121,400	195,300	28.6	343.3	108,800	187,900	200
205									24.4	332.5	104,400	182,000	205
210									19.4	319.1	100,100	176,400	210
215									12.4	299.6	95,800	171,000	215
220													220
225													225
230													230
235													235
240													240
250													250
260													260
270													270
280													280

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



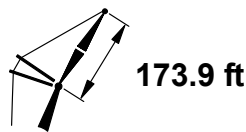
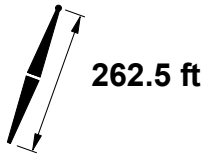
ft	75°				70°				65°				ft
	ft	°	ft	lb	lb	ft	°	ft	lb	lb	ft	°	ft
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145													145
150	64.8	410.0	137,000	245,900									150
155	62.8	407.4	130,500	236,200									155
160	60.8	404.5	124,500	227,200									160
165	58.8	401.4	118,900	218,700									165
170	56.7	398.1	113,600	210,800									170
175	54.5	394.5	108,600	203,300									175
180	52.3	390.5	103,800	196,200									180
185	50.0	386.3	99,300	189,500	59.5	395.4	76,000	172,100					185
190	47.6	381.7	95,100	183,200	57.4	392.2	72,400	166,300					190
195	45.2	376.6	91,000	177,200	55.3	388.6	69,000	160,700					195
200	42.6	371.1	87,100	171,500	53.1	384.8	65,700	155,500					200
205	39.8	365.1	83,500	166,100	50.8	380.7	62,600	150,500					205
210	36.9	358.4	79,900	160,900	48.5	376.2	59,700	145,700					210
215	33.8	350.9	76,500	156,000	46.1	371.3	56,800	141,200					215
220	30.3	342.5	73,200	151,300	43.5	366.0	54,100	136,900	53.6	376.6	35,300	122,900	220
225	26.5	332.6	70,100	146,800	40.8	360.2	51,500	132,800	51.3	372.6	33,200	119,100	225
230	21.9	320.6	67,000	142,400	38.0	353.7	49,000	128,800	49.0	368.2	31,100	115,400	230
235	16.1	304.7	63,900	138,200	34.9	346.6	46,600	125,000	46.6	363.4	29,200	112,000	235
240	4.8	272.9	60,400	134,000	31.6	338.5	44,200	121,300	44.1	358.2	27,300	108,600	240
250					23.7	318.1	39,600	114,400	38.6	346.2	23,700	102,300	250
260					10.7	282.3	35,000	107,800	32.4	331.3	20,200	96,500	260
270									24.7	311.6		91,000	270
280									12.8	279.3		85,700	280

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



85°					83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	73.4	437.3	326,500	326,500									85
90	71.7	435.6	326,100	326,100									90
95	69.9	433.7	325,200	325,200									95
100	68.1	431.7	323,700	323,700	71.4	434.2	308,800	325,800					100
105	66.3	429.4	308,700	321,500	69.6	432.3	290,500	325,800					105
110	64.5	427.0	291,300	318,900	67.8	430.2	274,000	325,800					110
115	62.6	424.3	275,500	313,400	66.0	427.9	259,000	325,800					115
120	60.7	421.5	261,000	301,900	64.2	425.5	245,300	324,900	69.1	429.6	221,800	319,800	120
125	58.8	418.4	247,800	290,400	62.3	422.8	232,700	323,500	67.3	427.4	210,200	319,800	125
130	56.8	415.1	235,500	278,800	60.4	419.9	221,100	321,600	65.5	425.1	199,500	315,700	130
135	54.8	411.5	224,200	267,500	58.5	416.8	210,400	313,600	63.6	422.5	189,700	301,800	135
140	52.7	407.6	213,800	256,400	56.5	413.4	200,400	302,200	61.8	419.8	180,500	288,900	140
145	50.6	403.4	204,000	245,800	54.4	409.7	191,200	290,700	59.9	416.8	172,000	276,900	145
150	48.3	398.9	194,900	235,600	52.3	405.8	182,600	279,400	57.9	413.6	164,100	265,800	150
155	46.0	394.1	186,400	225,900	50.2	401.6	174,500	268,200	55.9	410.2	156,700	255,400	155
160	43.6	388.8	178,500	216,800	47.9	397.0	166,900	257,400	53.8	406.5	149,700	245,700	160
165	41.1	383.0	171,000	208,300	45.6	392.1	159,800	247,100	51.7	402.5	143,200	236,600	165
170	38.5	376.7	163,900	200,500	43.2	386.7	153,100	237,200	49.6	398.2	137,100	228,100	170
175	35.7	369.7	157,200	193,400	40.7	380.9	146,800	227,900	47.3	393.5	131,300	220,000	175
180	32.6	361.9	150,900	187,000	38.0	374.4	140,900	219,200	45.0	388.4	125,800	212,400	180
185	29.2	353.0	144,900	181,600	35.1	367.3	135,200	211,400	42.5	382.9	120,600	205,200	185
190	25.5	342.8	139,200	177,200	32.0	359.4	129,800	204,200	39.9	376.9	115,600	198,400	190
195	21.0	330.2	133,600	174,100	28.6	350.3	124,600	197,900	37.2	370.3	110,900	192,000	195
200	15.3	313.6	128,200	173,300	24.8	339.7	119,700	192,800	34.3	363.0	106,500	185,900	200
205	2.9	276.3	122,400	141,300	20.2	326.6	114,900	189,100	31.1	354.7	102,200	180,100	205
210					14.0	308.8	110,200	178,100	27.6	345.3	98,000	174,500	210
215									23.6	334.1	94,000	169,200	215
220									18.7	320.1	90,100	164,100	220
225									11.7	299.6	86,200	159,100	225
230													230
235													235
240													240
250													250
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290													290

MLC650 VPC-MAX S-2

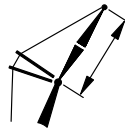
ASME B30.5



661,300 lb



262.5 ft



173.9 ft

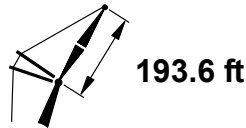
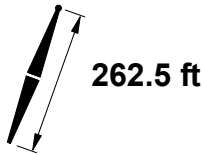
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
85												85
90												90
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155	64.5	418.5	127,300	233,600								155
160	62.7	415.9	121,400	224,600								160
165	60.8	413.0	115,800	216,100								165
170	58.8	409.9	110,500	208,200								170
175	56.8	406.6	105,500	200,800								175
180	54.8	403.0	100,800	193,700								180
185	52.7	399.1	96,400	187,100								185
190	50.6	395.0	92,200	180,800	59.5	403.9	69,100	163,600				190
195	48.4	390.5	88,200	174,900	57.6	400.6	65,700	158,200				195
200	46.1	385.6	84,300	169,200	55.5	397.2	62,500	152,900				200
205	43.7	380.3	80,700	163,800	53.5	393.4	59,500	148,000				205
210	41.2	374.6	77,200	158,700	51.4	389.3	56,600	143,300				210
215	38.5	368.2	73,900	153,800	49.2	385.0	53,800	138,800				215
220	35.7	361.3	70,700	149,200	46.9	380.2	51,100	134,500				220
225	32.6	353.5	67,600	144,700	44.6	375.1	48,500	130,400	53.9	385.2	116,500	225
230	29.3	344.6	64,600	140,400	42.1	369.5	46,100	126,500	51.8	381.2	112,900	230
235	25.5	334.4	61,700	136,300	39.5	363.4	43,700	122,700	49.7	376.9	109,400	235
240	21.1	321.9	58,800	132,300	36.7	356.7	41,400	119,100	47.4	372.3	106,100	240
250	3.5	269.6	52,700	124,500	30.5	340.8	37,000	112,200	42.6	361.7	99,900	250
260					22.8	319.5	32,800	105,900	37.3	349.2	94,100	260
270					10.0	282.0	28,500	99,800	31.3	333.7	88,700	270
280									23.8	313.2	83,700	280
290									12.1	279.4	78,800	290

MLC650 VPC-MAX S-2

ASME B30.5



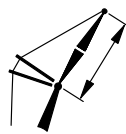
661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	73.6	456.4	283,000	283,000									90
95	72.0	454.7	282,600	282,600									95
100	70.5	452.9	281,900	281,900									100
105	68.9	450.9	280,800	280,800	71.8	453.4	281,200	281,200					105
110	67.3	448.8	279,400	279,400	70.2	451.5	270,400	281,200					110
115	65.6	446.5	272,300	277,800	68.6	449.5	255,400	281,200					115
120	64.0	444.0	257,900	275,800	67.0	447.3	241,800	281,200					120
125	62.3	441.3	244,600	272,400	65.4	445.0	229,200	281,200	69.7	448.8	206,200	274,100	125
130	60.6	438.4	232,400	263,200	63.7	442.4	217,600	280,500	68.1	446.7	195,600	274,100	130
135	58.9	435.4	221,200	253,900	62.0	439.7	207,000	279,400	66.5	444.5	185,800	274,100	135
140	57.1	432.1	210,800	244,600	60.3	436.8	197,100	278,100	64.9	442.1	176,700	274,100	140
145	55.3	428.5	201,100	235,300	58.6	433.7	187,900	275,100	63.2	439.5	168,300	273,400	145
150	53.4	424.8	192,000	226,300	56.8	430.4	179,300	265,900	61.5	436.7	160,400	262,400	150
155	51.5	420.8	183,600	217,500	55.0	426.8	171,300	256,600	59.8	433.8	153,000	252,100	155
160	49.6	416.5	175,600	209,000	53.1	423.0	163,800	247,400	58.1	430.6	146,100	242,400	160
165	47.6	411.8	168,200	200,800	51.2	419.0	156,800	238,300	56.3	427.2	139,700	233,400	165
170	45.5	406.9	161,200	193,000	49.2	414.6	150,100	229,300	54.4	423.6	133,600	224,900	170
175	43.3	401.5	154,600	185,700	47.2	409.9	143,900	220,600	52.6	419.7	127,800	216,900	175
180	41.1	395.7	148,400	178,800	45.1	404.9	138,000	212,200	50.6	415.6	122,400	209,400	180
185	38.7	389.5	142,500	172,400	42.9	399.5	132,400	204,200	48.7	411.1	117,300	202,300	185
190	36.2	382.6	136,800	166,400	40.6	393.6	127,100	196,600	46.6	406.3	112,400	195,500	190
195	33.5	375.1	131,500	161,100	38.2	387.2	122,000	189,500	44.5	401.2	107,800	189,100	195
200	30.6	366.7	126,400	156,400	35.7	380.3	117,200	182,900	42.3	395.7	103,400	183,100	200
205	27.4	357.1	121,500	152,300	33.0	372.6	112,600	176,800	40.0	389.7	99,200	177,300	205
210	23.8	346.0	116,800	149,100	30.1	364.0	108,200	171,400	37.6	383.1	95,200	171,800	210
215	19.6	332.6	112,300	147,000	26.8	354.2	104,000	166,700	35.0	376.0	91,300	166,600	215
220	14.0	314.5	107,800	146,800	23.1	342.8	99,900	162,800	32.2	368.1	87,700	161,600	220
225					18.7	328.8	95,900	160,200	29.2	359.2	84,100	156,800	225
230					12.8	309.3	92,000	150,100	25.8	349.0	80,700	152,200	230
235									22.0	337.0	77,300	147,800	235
240									17.3	321.9	74,100	143,500	240
250													250
260													260
270													270
280													280
290													290
300													300
310													310

MLC650 VPC-MAX S-2

ASME B30.5



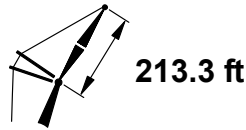
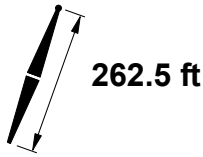
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
90												90
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165	64.0	435.5	111,600	212,500								165
170	62.3	432.8	106,400	204,700								170
175	60.6	430.0	101,500	197,300								175
180	58.9	426.9	96,800	190,300								180
185	57.1	423.6	92,400	183,700								185
190	55.3	420.1	88,300	177,500								190
195	53.5	416.3	84,300	171,600								195
200	51.6	412.3	80,600	166,000	59.5	420.8	58,200	149,400				200
205	49.6	408.0	77,000	160,700	57.8	417.6	55,200	144,500				205
210	47.6	403.4	73,600	155,600	56.0	414.2	52,300	139,800				210
215	45.5	398.4	70,300	150,800	54.1	410.5	49,600	135,400				215
220	43.3	393.1	67,200	146,200	52.2	406.6	47,000	131,100				220
225	41.1	387.3	64,200	141,800	50.3	402.4	44,500	127,100				225
230	38.7	381.0	61,300	137,600	48.3	397.9	42,100	123,200				230
235	36.2	374.2	58,500	133,500	46.3	393.1	39,800	119,500	54.5	402.3	105,900	235
240	33.5	366.6	55,900	129,600	44.1	387.9	37,600	116,000	52.7	398.5	102,700	240
250	27.4	348.7	50,800	122,300	39.6	376.2	33,400	109,300	48.8	389.9	96,600	250
260	19.6	324.2	45,900	115,500	34.5	362.3	29,500	103,100	44.6	380.0	90,900	260
270					28.6	345.1	25,800	97,300	40.1	368.5	85,600	270
280					21.2	322.3	22,200	91,800	35.1	354.9	80,700	280
290					8.7	281.0		86,600	29.3	338.2	76,100	290
300									22.2	316.2	71,800	300
310									10.9	279.4	67,500	310

MLC650 VPC-MAX S-2

ASME B30.5



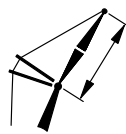
661,300 lb



85°					83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95	73.8	475.5	245,600	245,600									95
100	72.4	473.8	245,200	245,200									100
105	70.9	472.1	244,700	244,700									105
110	69.5	470.1	243,900	243,900	72.1	472.5	243,900	243,900					110
115	68.0	468.1	242,900	242,900	70.7	470.7	243,900	243,900					115
120	66.6	465.9	241,700	241,700	69.2	468.7	238,200	243,900					120
125	65.1	463.5	241,000	241,000	67.8	466.6	225,700	243,900					125
130	63.6	461.0	229,300	239,400	66.3	464.4	214,200	243,900					130
135	62.0	458.3	218,100	236,500	64.8	462.0	203,500	243,400					135
140	60.5	455.4	207,700	229,100	63.3	459.4	193,700	242,700	68.8	465.9	181,900	238,500	140
145	58.9	452.3	198,000	221,500	61.8	456.7	184,500	241,800	67.4	463.8	172,900	238,500	145
150	57.3	449.1	189,000	214,000	60.2	453.8	176,000	240,800	65.9	461.5	164,500	238,500	150
155	55.7	445.6	180,600	206,500	58.6	450.7	168,000	239,600	64.4	459.1	156,700	238,500	155
160	54.0	441.9	172,700	199,100	57.0	447.4	160,600	233,300	62.9	456.5	149,300	238,500	160
165	52.3	438.0	165,300	191,900	55.4	443.9	153,500	225,800	61.3	453.7	142,500	238,500	165
170	50.6	433.9	158,300	184,800	53.7	440.2	147,000	218,300	59.8	450.7	136,100	230,200	165
175	48.8	429.4	151,800	178,100	52.0	436.2	140,700	210,800	58.2	447.6	130,000	221,700	170
180	46.9	424.7	145,600	171,500	50.3	432.0	134,900	203,500	56.6	444.2	124,300	213,800	175
185	45.0	419.7	139,700	165,300	48.5	427.5	129,300	196,300	54.9	440.7	118,900	206,300	180
190	43.0	414.3	134,100	159,300	46.6	422.8	124,100	189,300	53.2	436.9	113,900	199,200	185
195	41.0	408.5	128,900	153,700	44.7	417.7	119,100	182,500	51.5	432.9	109,000	192,600	190
200	38.8	402.3	123,800	148,500	42.7	412.2	114,300	176,000	49.8	428.6	104,500	186,200	195
205	36.6	395.5	119,000	143,600	40.6	406.4	109,800	169,800	47.9	424.0	100,100	180,200	200
210	34.2	388.1	114,500	139,200	38.5	400.0	105,500	164,000	46.1	419.2	96,000	174,500	205
215	31.6	380.1	110,100	135,100	36.2	393.2	101,300	158,500	44.1	414.0	92,000	169,000	210
220	28.9	371.1	105,900	131,500	33.8	385.7	97,400	153,400	42.1	408.4	88,200	163,800	215
225	25.8	360.9	101,800	128,500	31.2	377.5	93,600	148,800	40.0	402.4	84,600	158,900	220
230	22.4	349.0	97,900	126,200	28.4	368.3	89,900	144,600	37.8	396.0	81,100	154,100	225
235	18.3	334.6	94,100	124,800	25.3	357.9	86,400	141,000	35.5	388.9	77,800	149,600	230
240	12.9	315.1	90,300	124,800	21.7	345.7	83,000	138,200	33.1	381.3	74,600	145,300	235
250					11.6	309.6	76,200	126,400	30.4	372.8	71,500	141,100	240
260									24.3	352.4	65,700	133,200	250
270									16.0	323.4	60,000	125,900	260
280													270
290													280
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MLC650 VPC-MAX S-2

ASME B30.5



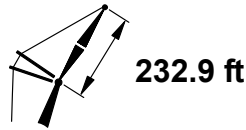
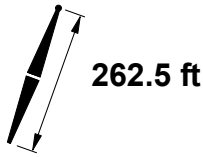
	75°				70°				65°			
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175	63.6	452.5	97,300	193,800								175
180	62.1	449.8	92,800	186,900								180
185	60.5	446.9	88,400	180,400								185
190	58.9	443.8	84,300	174,200								190
195	57.3	440.6	80,400	168,300								195
200	55.7	437.1	76,700	162,800								200
205	54.0	433.5	73,200	157,500								205
210	52.3	429.5	69,800	152,500	59.5	437.8	48,100	136,400				210
215	50.6	425.4	66,600	147,700	57.9	434.6	45,400	132,000				215
220	48.8	421.0	63,500	143,100	56.3	431.2	42,800	127,800				220
225	46.9	416.2	60,600	138,800	54.6	427.6	40,400	123,800				225
230	45.0	411.2	57,800	134,600	53.0	423.8	38,100	119,900				230
235	43.1	405.8	55,100	130,600	51.2	419.7	35,800	116,300				235
240	41.0	400.0	52,500	126,800	49.4	415.4	33,600	112,800				240
250	36.6	387.1	47,500	119,600	45.7	405.9	29,600	106,200	53.3	415.6	93,200	250
260	31.7	371.6	42,900	112,900	41.8	395.0	25,800	100,100	49.8	407.4	87,600	260
270	25.9	352.5	38,600	106,700	37.4	382.4	22,200	94,400	46.2	398.0	82,400	270
280	18.3	326.3	34,400	100,800	32.6	367.5		89,100	42.2	387.2	77,600	280
290					27.0	349.1		84,100	37.9	374.8	73,100	290
300					19.9	324.7		79,400	33.2	360.2	68,900	300
310					7.4	279.5		74,800	27.7	342.3	64,900	310
320									20.8	318.8	61,100	320
330									9.7	278.9	57,300	330

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



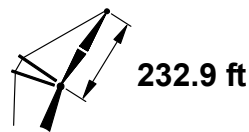
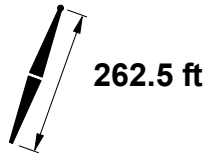
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
100	73.9	494.5	223,700	223,700									100
105	72.6	492.9	223,300	223,300									105
110	71.3	491.2	222,800	222,800									110
115	70.0	489.3	222,100	222,100	72.4	491.6	221,700	221,700					115
120	68.7	487.3	221,300	221,300	71.1	489.8	221,700	221,700					120
125	67.3	485.2	220,300	220,300	69.8	487.9	219,700	221,700					125
130	66.0	482.9	219,200	219,200	68.4	485.9	208,200	221,700					130
135	64.6	480.5	212,600	217,800	67.1	483.7	197,600	221,600					135
140	63.2	477.9	202,300	216,700	65.7	481.4	187,800	221,200	69.4	485.2	166,400	215,400	140
145	61.8	475.2	192,600	211,500	64.4	479.0	178,700	220,600	68.1	483.1	158,100	215,400	145
150	60.4	472.3	183,700	205,000	63.0	476.4	170,300	219,900	66.7	480.9	150,300	215,400	150
155	59.0	469.3	175,300	198,600	61.6	473.6	162,300	219,100	65.4	478.6	143,100	215,400	155
160	57.5	466.0	167,400	192,100	60.2	470.7	154,900	218,200	64.0	476.1	136,300	215,400	160
165	56.0	462.6	160,100	185,700	58.7	467.7	148,000	216,600	62.6	473.4	129,900	215,400	165
170	54.5	459.0	153,200	179,300	57.2	464.4	141,400	210,300	61.2	470.6	123,900	215,400	170
175	53.0	455.2	146,600	173,100	55.8	460.9	135,300	203,900	59.8	467.7	118,300	208,900	175
180	51.4	451.2	140,500	167,000	54.2	457.3	129,400	197,500	58.3	464.6	113,000	201,400	180
185	49.8	446.9	134,700	161,200	52.7	453.4	123,900	191,200	56.8	461.2	107,900	194,400	185
190	48.1	442.4	129,200	155,500	51.1	449.4	118,700	184,800	55.3	457.7	103,200	187,800	190
195	46.4	437.6	123,900	150,100	49.5	445.0	113,800	178,600	53.8	454.0	98,600	181,500	195
200	44.6	432.5	118,900	144,900	47.8	440.5	109,100	172,500	52.2	450.1	94,300	175,500	200
205	42.8	427.0	114,200	139,900	46.1	435.6	104,600	166,600	50.6	446.0	90,300	169,900	205
210	40.9	421.2	109,700	135,200	44.3	430.5	100,300	160,900	49.0	441.6	86,400	164,500	210
215	39.0	415.0	105,400	130,800	42.5	425.0	96,300	155,500	47.3	436.9	82,600	159,300	215
220	36.9	408.4	101,300	126,800	40.6	419.1	92,400	150,300	45.6	432.0	79,100	154,400	220
225	34.8	401.1	97,300	122,900	38.6	412.8	88,600	145,300	43.8	426.7	75,700	149,700	225
230	32.5	393.3	93,500	119,400	36.6	406.1	85,100	140,700	42.0	421.2	72,400	145,200	230
235	30.0	384.7	89,900	116,300	34.4	398.7	81,600	136,400	40.1	415.2	69,300	140,900	235
240	27.4	375.1	86,300	113,600	32.1	390.8	78,300	132,400	38.1	408.8	66,300	136,800	240
250	21.1	351.8	79,600	109,700	26.9	372.3	72,100	125,500	33.7	394.4	60,600	129,100	250
260	11.9	315.5	73,200	104,500	20.5	348.2	66,100	120,700	28.9	377.2	55,300	121,900	260
270					10.6	309.5	60,400	104,800	23.0	355.6	50,300	115,300	270
280									15.0	324.6	45,400	109,000	280
290													290
300													300
310													310
320													320
330													330
340													340
350													350

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	 75°				 70°				 65°				
 ft	 °	 ft	 lb	 lb	 °	 ft	 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	64.6	472.0	85,900	181,400							180		
185	63.2	469.5	81,700	175,000							185		
190	61.8	466.7	77,600	168,900							190		
195	60.4	463.9	73,800	163,100							195		
200	59.0	460.8	70,100	157,600							200		
205	57.5	457.6	66,700	152,400							205		
210	56.0	454.2	63,400	147,400							210		
215	54.5	450.6	60,200	142,700							215		
220	53.0	446.7	57,200	138,200	59.5	454.8	122,300				220		
225	51.4	442.7	54,300	133,900	58.1	451.6	118,400				225		
230	49.8	438.4	51,600	129,700	56.6	448.2	114,600				230		
235	48.1	433.9	48,900	125,800	55.1	444.7	111,000				235		
240	46.4	429.1	46,400	122,000	53.5	441.0	107,500				240		
250	42.8	418.6	41,600	114,900	50.4	432.8	101,000				250		
260	39.0	406.6	37,200	108,300	47.0	423.7	95,000	53.9	432.8	82,200	260		
270	34.8	392.7	33,000	102,200	43.5	413.4	89,500	50.7	424.7	77,100	270		
280	30.1	376.3	29,100	96,600	39.7	401.7	84,300	47.4	415.7	72,400	280		
290	24.5	356.0	25,400	91,200	35.6	388.2	79,400	43.9	405.6	68,000	290		
300	17.2	328.1	21,700	86,200	31.0	372.3	74,900	40.1	394.0	63,900	300		
310					25.6	352.8	70,600	36.1	380.8	60,000	310		
320					18.7	326.9	66,500	31.5	365.2	56,400	320		
330					6.3	277.3	62,500	26.2	346.2	52,900	330		
340								19.6	321.2	49,600	340		
350								8.7	278.0	46,200	350		

MLC650 VPC-MAX S-2

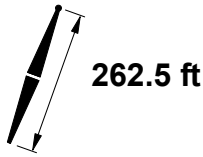
ASME B30.5



661,300 lb



360°



262.5 ft



252.6 ft

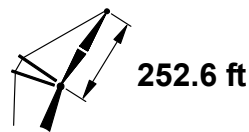
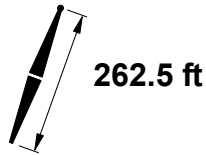
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105	74.0	513.6	193,500	193,500									105
110	72.8	512.0	193,200	193,200									110
115	71.6	510.3	192,700	192,700									115
120	70.4	508.5	192,200	192,200	72.6	510.6	191,300	191,300					120
125	69.2	506.5	191,600	191,600	71.4	508.9	191,300	191,300					125
130	68.0	504.5	190,800	190,800	70.2	507.1	191,300	191,300					130
135	66.7	502.3	190,000	190,000	69.0	505.1	191,300	191,300					135
140	65.5	500.0	189,000	189,000	67.8	503.0	184,200	191,200					140
145	64.2	497.5	188,700	188,700	66.5	500.8	175,100	190,900	69.9	504.3	154,100	185,300	145
150	62.9	494.9	180,400	187,900	65.3	498.5	166,700	190,400	68.6	502.3	146,300	185,300	150
155	61.6	492.2	172,000	185,800	64.0	496.0	158,800	189,900	67.4	500.2	139,100	185,300	155
160	60.3	489.3	164,200	180,600	62.7	493.4	151,400	189,300	66.2	498.0	132,400	185,300	160
165	59.0	486.2	156,900	175,300	61.4	490.6	144,500	188,700	64.9	495.6	126,100	185,300	165
170	57.7	483.0	150,000	170,100	60.1	487.7	138,000	187,900	63.6	493.1	120,100	185,300	170
175	56.3	479.7	143,500	164,900	58.8	484.6	131,800	187,200	62.4	490.4	114,500	185,300	175
180	54.9	476.1	137,300	159,600	57.4	481.4	126,000	186,300	61.1	487.6	109,200	185,300	180
185	53.5	472.4	131,500	154,500	56.1	478.0	120,600	181,100	59.7	484.6	104,200	185,300	185
190	52.0	468.4	126,000	149,500	54.7	474.4	115,400	176,000	58.4	481.5	99,500	184,700	190
195	50.6	464.3	120,800	144,500	53.2	470.6	110,500	170,800	57.0	478.2	95,000	178,400	195
200	49.1	459.9	115,900	139,700	51.8	466.6	105,800	165,600	55.7	474.8	90,800	172,500	200
205	47.5	455.3	111,200	135,100	50.3	462.4	101,300	160,400	54.3	471.1	86,700	166,800	205
210	45.9	450.4	106,700	130,600	48.8	458.0	97,100	155,400	52.8	467.3	82,800	161,500	210
215	44.3	445.2	102,400	126,300	47.2	453.4	93,100	150,400	51.4	463.3	79,200	156,400	215
220	42.6	439.8	98,300	122,200	45.7	448.4	89,200	145,600	49.9	459.0	75,600	151,500	220
225	40.9	434.0	94,400	118,200	44.0	443.2	85,500	140,900	48.4	454.5	72,300	146,800	225
230	39.1	427.8	90,700	114,600	42.3	437.7	82,000	136,300	46.8	449.8	69,000	142,400	230
235	37.2	421.2	87,100	111,100	40.6	431.8	78,600	132,000	45.2	444.8	66,000	138,100	235
240	35.2	414.1	83,600	107,800	38.8	425.6	75,400	127,900	43.5	439.5	63,000	134,000	240
250	31.0	398.2	77,100	102,100	34.9	411.7	69,200	120,300	40.1	427.9	57,400	126,400	250
260	26.1	379.0	71,000	97,500	30.6	395.6	63,500	113,700	36.3	414.7	52,200	119,300	260
270	20.0	354.3	65,300	94,600	25.6	376.0	58,100	108,200	32.2	399.5	47,400	112,700	270
280	10.9	315.5	59,700	87,300	19.4	350.6	53,100	104,500	27.5	381.3	42,800	106,600	280
290					9.7	309.0	48,000	87,700	21.8	358.5	38,500	100,800	290
300									14.0	325.6	34,300	95,400	300
310													310
320													320
330													330
340													340
350													350
360													360
370													370

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



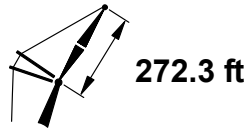
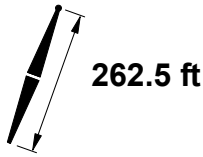
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190	64.2	489.0	73,400	165,400								190
195	63.0	486.4	69,700	159,700								195
200	61.7	483.7	66,100	154,200								200
205	60.4	480.8	62,600	149,100								205
210	59.0	477.8	59,400	144,100								210
215	57.7	474.6	56,300	139,400								215
220	56.3	471.2	53,300	135,000								220
225	54.9	467.6	50,500	130,700								225
230	53.5	463.9	47,700	126,600	59.5	471.7	111,200					230
235	52.1	460.0	45,100	122,700	58.2	468.6	107,600					235
240	50.6	455.8	42,600	118,900	56.8	465.3	104,200					240
250	47.5	446.8	37,900	111,900	54.0	458.1	97,800					250
260	44.3	436.8	33,600	105,400	51.1	450.2	91,800					260
270	40.9	425.5	29,500	99,400	48.1	441.3	86,300	54.3	449.9	73,700		270
280	37.2	412.8	25,700	93,800	44.9	431.5	81,200	51.4	442.0	69,100		280
290	33.2	398.0	22,100	88,500	41.5	420.5	76,400	48.4	433.3	64,700		290
300	28.6	380.7		83,600	37.9	408.0	72,000	45.3	423.6	60,700		300
310	23.3	359.2		79,000	34.0	393.7	67,800	41.9	412.7	56,900		310
320	16.2	329.7		74,600	29.5	376.9	63,800	38.3	400.4	53,300		320
330					24.3	356.3	60,100	34.4	386.3	50,000		330
340					17.7	328.8	56,500	30.0	369.8	46,800		340
350					5.1	274.2	52,900	24.9	349.7	43,700		350
360								18.5	323.3	40,800		360
370								7.7	276.7	37,800		370

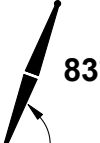
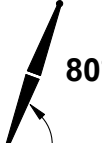
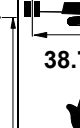
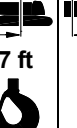
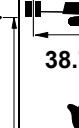
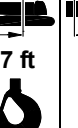
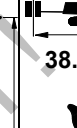
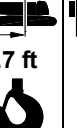
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



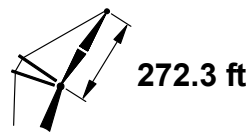
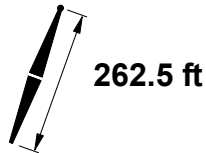
	 85°					 83°					 80°					
																
ft	°	ft	lb	lb		°	ft	lb	lb		°	ft	lb	lb	ft	
110	74.1	532.6	169,800	169,800											110	
115	73.0	531.1	169,100	169,100											115	
120	71.9	529.4	168,700	168,700											120	
125	70.8	527.6	168,200	168,200	72.8	529.7	167,500	167,500							125	
130	69.6	525.7	167,600	167,600	71.7	528.0	167,500	167,500							130	
135	68.5	523.7	167,000	167,000	70.6	526.2	167,500	167,500							135	
140	67.4	521.6	166,200	166,200	69.4	524.3	167,400	167,400							140	
145	66.2	519.4	165,400	165,400	68.3	522.3	167,200	167,200							145	
150	65.1	517.0	164,600	164,600	67.2	520.1	164,300	166,900							150	
155	63.9	514.5	163,600	163,600	66.0	517.9	156,500	166,500	69.1	521.5	136,500	162,600			155	
160	62.7	511.9	162,100	162,700	64.8	515.5	149,100	166,100	68.0	519.5	129,800	162,600			160	
165	61.5	509.1	154,800	161,700	63.7	513.0	142,200	165,500	66.8	517.3	123,500	162,600			165	
170	60.3	506.2	147,900	158,800	62.5	510.3	135,700	165,000	65.7	515.0	117,600	162,600			170	
175	59.0	503.2	141,500	154,500	61.3	507.6	129,600	164,300	64.5	512.6	112,000	162,600			175	
180	57.8	500.0	135,400	150,100	60.1	504.6	123,900	163,700	63.3	510.0	106,700	162,600			180	
185	56.5	496.7	129,600	145,800	58.8	501.6	118,400	162,900	62.1	507.4	101,800	162,600			185	
190	55.2	493.2	124,100	141,400	57.6	498.4	113,300	162,200	60.9	504.6	97,100	162,600			190	
195	53.9	489.5	119,000	137,200	56.3	495.0	108,400	160,300	59.7	501.6	92,600	162,600			195	
200	52.6	485.6	114,000	133,000	55.0	491.5	103,700	156,100	58.5	498.5	88,400	162,600			200	
205	51.3	481.6	109,400	128,900	53.7	487.7	99,300	151,800	57.2	495.2	84,400	162,600			205	
210	49.9	477.3	104,900	124,800	52.4	483.9	95,100	147,500	55.9	491.8	80,500	159,400			210	
215	48.5	472.9	100,600	121,000	51.0	479.8	91,100	143,200	54.7	488.2	76,900	154,400			215	
220	47.0	468.2	96,600	117,100	49.6	475.5	87,300	139,000	53.3	484.5	73,400	149,500			220	
225	45.5	463.2	92,700	113,500	48.2	471.0	83,600	134,800	52.0	480.5	70,100	144,900			225	
230	44.0	458.0	89,000	109,900	46.8	466.2	80,100	130,800	50.6	476.4	66,900	140,500			230	
235	42.5	452.5	85,400	106,500	45.3	461.3	76,800	126,900	49.2	472.0	63,800	136,300			235	
240	40.9	446.7	82,000	103,300	43.8	456.0	73,500	123,000	47.8	467.5	60,900	132,200			240	
250	37.5	434.0	75,600	97,300	40.6	444.6	67,500	115,600	44.9	457.6	55,400	124,600			250	
260	33.8	419.6	69,600	92,000	37.1	431.7	61,900	108,900	41.7	446.6	50,300	117,600			260	
270	29.6	402.8	64,100	87,500	33.4	417.1	56,600	102,900	38.4	434.3	45,500	111,000			270	
280	24.9	382.5	58,800	84,000	29.2	400.1	51,700	97,700	34.8	420.4	41,100	105,000			280	
290	19.0	356.5	53,900	81,800	24.4	379.5	47,100	93,500	30.8	404.3	36,900	99,300			290	
300	10.1	315.2	49,000	73,200	18.4	352.7	42,700	90,600	26.3	385.2	33,000	94,000			300	
310					8.8	308.3	38,300	73,500	20.8	361.1	29,200	89,100			310	
320										13.2	326.3	25,500	84,300		320	
330															330	
340															340	
350															350	
360															360	
370															370	
380															380	
390															390	

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



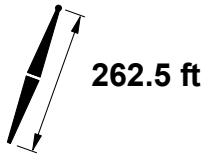
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200	63.9		506.0	63,200	151,500							200
205	62.7		503.4	59,800	146,700							205
210	61.5		500.6	56,600	141,800							210
215	60.3		497.8	53,600	137,200							215
220	59.1		494.7	50,600	132,700							220
225	57.8		491.5	47,800	128,500							225
230	56.5		488.2	45,100	124,400							230
235	55.3		484.7	42,600	120,500							235
240	54.0		481.0	40,100	116,800	59.5	488.7	101,800				240
250	51.3		473.1	35,500	109,800	57.0	482.2	95,500				250
260	48.5		464.4	31,200	103,400	54.4	475.2	89,600				260
270	45.6		454.8	27,200	97,400	51.8	467.4	84,200				270
280	42.5		444.1	23,500	91,900	49.0	458.9	79,100	54.7	467.0	66,700	280
290	39.2		432.1	20,000	86,700	46.1	449.4	74,400	52.1	459.3	62,500	290
300	35.7		418.6		81,900	43.1	438.9	70,000	49.3	450.8	58,500	300
310	31.8		403.1		77,400	39.8	427.2	65,900	46.4	441.5	54,700	310
320	27.4		384.8		73,100	36.3	414.0	62,000	43.4	431.1	51,200	320
330	22.2		362.2		69,000	32.5	398.9	58,300	40.2	419.5	47,900	330
340	15.3		331.0		65,200	28.2	381.2	54,900	36.7	406.5	44,800	340
350						23.2	359.5	51,600	32.9	391.6	41,800	350
360						16.8	330.5	48,400	28.7	374.2	39,000	360
370						3.7	269.4	45,100	23.8	353.1	36,300	370
380									17.6	325.2	33,700	380
390									6.8	274.9	31,000	390

MLC650 VPC-MAX S-2

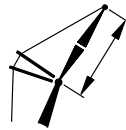
ASME B30.5



661,300 lb



262.5 ft



292.0 ft

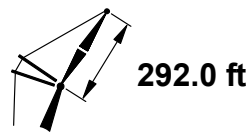
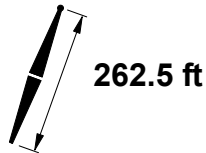
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.2	551.7	158,600	158,600									115
120	73.2	550.1	158,300	158,300									120
125	72.1	548.5	157,800	157,800									125
130	71.1	546.7	157,500	157,500	73.0	548.8	156,700	156,700					130
135	70.0	544.9	156,600	156,600	71.9	547.1	156,700	156,700					135
140	69.0	542.9	155,900	155,900	70.9	545.4	156,500	156,500					140
145	67.9	540.9	155,200	155,200	69.9	543.5	156,300	156,300					145
150	66.9	538.7	154,400	154,400	68.8	541.5	155,800	156,100					150
155	65.8	536.4	153,600	153,600	67.7	539.4	148,000	155,700					155
160	64.7	534.0	152,700	152,700	66.7	537.2	140,700	155,300	69.6	540.7	120,500	151,500	160
165	63.6	531.5	147,000	151,700	65.6	534.9	133,800	154,800	68.5	538.7	114,300	151,500	165
170	62.5	528.9	140,100	150,700	64.5	532.5	127,400	154,300	67.4	536.6	108,500	151,500	170
175	61.4	526.1	133,700	148,000	63.4	530.0	121,400	153,700	66.4	534.4	103,000	151,500	175
180	60.2	523.2	127,600	144,100	62.3	527.3	115,600	153,100	65.3	532.1	97,800	151,500	180
185	59.1	520.2	121,900	140,300	61.2	524.5	110,200	152,400	64.2	529.6	92,900	151,500	185
190	57.9	517.0	116,400	136,400	60.0	521.6	105,100	151,700	63.1	527.0	88,300	151,500	190
195	56.7	513.7	111,300	132,500	58.9	518.5	100,300	150,900	62.0	524.3	83,900	151,500	195
200	55.5	510.2	106,400	128,700	57.7	515.3	95,700	150,100	60.8	521.5	79,700	151,500	200
205	54.3	506.6	101,800	124,900	56.5	512.0	91,300	146,500	59.7	518.5	75,700	151,500	205
210	53.1	502.8	97,300	121,200	55.3	508.5	87,100	142,700	58.5	515.5	72,000	151,500	210
215	51.8	498.8	93,100	117,500	54.1	504.9	83,200	139,000	57.4	512.2	68,400	147,800	215
220	50.6	494.7	89,100	113,900	52.9	501.0	79,400	135,200	56.2	508.8	64,900	143,000	220
225	49.3	490.3	85,200	110,400	51.6	497.0	75,700	131,400	55.0	505.3	61,600	138,400	225
230	47.9	485.8	81,500	107,100	50.3	492.9	72,300	127,600	53.8	501.6	58,500	134,000	230
235	46.6	481.0	78,000	103,700	49.0	488.5	69,000	124,000	52.5	497.7	55,500	129,800	235
240	45.2	476.0	74,600	100,600	47.7	483.9	65,800	120,300	51.3	493.7	52,600	125,800	240
250	42.3	465.3	68,300	94,600	45.0	474.1	59,800	113,300	48.7	485.0	47,200	118,200	250
260	39.3	453.3	62,400	89,200	42.1	463.2	54,200	106,800	46.0	475.5	42,100	111,300	260
270	36.0	439.9	56,900	84,200	39.0	451.1	49,100	100,600	43.1	465.0	37,500	104,800	270
280	32.4	424.7	51,800	80,000	35.7	437.6	44,300	95,000	40.1	453.4	33,100	98,800	280
290	28.4	407.1	47,000	76,400	32.1	422.2	39,800	90,100	36.9	440.5	29,000	93,300	290
300	23.8	385.9	42,400	73,600	28.1	404.3	35,600	85,800	33.4	425.8	25,200	88,000	300
310	18.1	358.6	38,100	71,300	23.4	382.7	31,500	82,500	29.6	408.9	21,600	83,100	310
320	9.3	314.7	33,800	55,700	17.5	354.6	27,600	72,300	25.2	388.8		78,500	320
330					8.0	307.2	23,700	56,000	19.8	363.6		74,200	330
340									12.4	326.9		66,200	340
350													350
360													360
370													370
380													380
390													390
400													400

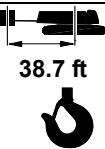
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



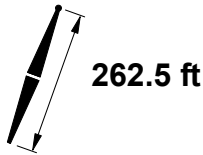
	 75°				 70°				 65°				
 ft	 °	 ft	 38.7 ft lb	 60.0 ft lb	 °	 ft	 60.0 ft lb	 °	 ft	 60.0 ft lb	 ft		
115											115		
120											120		
125											125		
130											130		
135											135		
140											140		
145											145		
150											150		
155											155		
160											160		
165											165		
170											170		
175											175		
180											180		
185											185		
190											190		
195											195		
200											200		
205	64.7	525.5	50,200	139,300							205		
210	63.6	523.0	47,100	134,500							210		
215	62.5	520.4	44,100	129,900							215		
220	61.4	517.6	41,200	125,500							220		
225	60.2	514.7	38,500	121,300							225		
230	59.1	511.7	35,800	117,300							230		
235	57.9	508.5	33,300	113,500							235		
240	56.7	505.2	30,900	109,800							240		
250	54.3	498.1	26,400	102,900	59.5	505.6	88,000				250		
260	51.9	490.4	22,200	96,600	57.2	499.2	82,200				260		
270	49.3	481.9		90,700	54.8	492.3	76,900				270		
280	46.6	472.6		85,200	52.3	484.6	71,900				280		
290	43.8	462.3		80,100	49.8	476.3	67,300				290		
300	40.8	451.0		75,400	47.1	467.2	63,000	52.6	476.5	51,000	300		
310	37.7	438.4		70,900	44.3	457.1	58,900	50.0	468.2	47,300	310		
320	34.3	424.2		66,700	41.4	446.0	55,100	47.4	459.2	43,900	320		
330	30.5	407.8		62,700	38.3	433.6	51,500	44.6	449.2	40,700	330		
340	26.3	388.6		59,000	34.9	419.7	48,200	41.7	438.2	37,700	340		
350	21.2	364.9		55,400	31.2	403.8	45,000	38.6	426.0	34,800	350		
360	14.5	332.2		52,000	27.1	385.2	41,900	35.3	412.3	32,100	360		
370					22.2	362.5	39,000	31.6	396.6	29,500	370		
380					15.9	332.0	36,200	27.6	378.4	27,000	380		
390								22.8	356.2	24,600	390		
400								16.7	327.0	22,300	400		

MLC650 VPC-MAX S-2

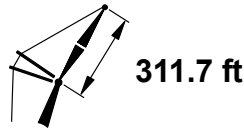
ASME B30.5



661,300 lb



262.5 ft



311.7 ft

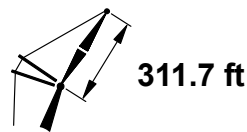
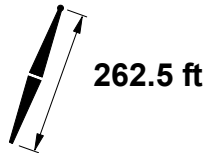
	85°				83°				80°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
120	74.3	570.7	139,300	139,300									120
125	73.3	569.2	138,700	138,700									125
130	72.3	567.6	138,200	138,200									130
135	71.4	565.9	137,900	137,900									135
140	70.4	564.0	137,200	137,200									140
145	69.4	562.1	136,600	136,600	72.2	566.2	137,000	137,000					145
150	68.4	560.1	135,900	135,900	71.2	564.5	136,800	136,800					150
155	67.4	558.0	135,200	135,200	70.2	562.6	136,500	136,500					155
160	66.4	555.8	134,400	134,400	69.2	560.7	136,300	136,300					160
165	65.4	553.5	133,700	133,700	68.2	558.7	135,900	135,900					165
170	64.4	551.0	132,900	132,900	67.2	556.5	131,700	135,500	69.9	559.9	111,900	131,900	170
175	63.3	548.5	131,800	132,000	66.2	554.3	125,300	135,100	68.9	557.9	106,100	131,900	175
180	62.3	545.8	125,800	131,300	65.2	552.0	119,300	134,700	67.9	555.9	100,600	131,900	180
185	61.2	543.0	120,100	130,300	64.2	549.5	113,600	134,100	66.9	553.7	95,500	131,900	185
190	60.2	540.1	114,600	127,500	63.1	546.9	108,200	133,500	65.9	551.5	90,600	131,900	190
195	59.1	537.1	109,500	124,300	62.1	544.3	103,100	132,900	64.9	549.1	86,000	131,900	195
200	58.0	534.0	104,600	121,000	61.0	541.5	98,300	132,300	63.9	546.6	81,600	131,900	200
205	56.9	530.7	100,000	117,800	60.0	538.5	93,700	131,600	62.9	544.0	77,500	131,900	205
210	55.8	527.2	95,600	114,600	58.9	535.5	89,400	131,000	61.8	541.3	73,500	131,900	210
215	54.7	523.7	91,400	111,300	57.8	532.3	85,200	130,300	60.8	538.5	69,800	131,600	215
220	53.5	519.9	87,400	108,200	56.7	529.0	81,300	129,600	59.7	535.5	66,200	131,400	220
225	52.4	516.0	83,500	105,100	55.6	525.5	77,500	127,200	58.6	532.4	62,800	131,100	225
230	51.2	512.0	79,900	102,000	54.5	521.9	73,900	124,000	57.5	529.2	59,500	130,800	230
235	50.0	507.7	76,400	99,000	53.3	518.2	70,400	120,800	56.4	525.8	56,400	130,400	235
240	48.7	503.3	73,000	96,100	52.1	514.3	67,100	117,600	55.3	522.3	53,400	128,000	240
250	46.2	493.9	66,700	90,500	51.0	510.2	64,000	114,500	54.1	518.7	50,500	124,000	250
260	43.6	483.6	60,800	85,300	48.5	501.5	58,000	108,200	51.8	510.9	45,100	116,500	260
270	40.8	472.2	55,400	80,400	46.0	492.0	52,500	102,200	49.4	502.5	40,200	109,600	270
280	37.8	459.6	50,300	76,100	43.3	481.5	47,400	96,600	46.9	493.3	35,500	103,200	280
290	34.7	445.6	45,600	72,100	40.5	470.1	42,700	91,200	44.3	483.2	31,200	97,200	290
300	31.2	429.6	41,100	68,700	37.6	457.4	38,200	86,200	41.6	472.1	27,200	91,700	300
310	27.4	411.2	37,000	65,800	34.4	443.2	34,000	81,700	38.7	459.9	23,500	86,500	310
320	22.9	389.0	33,000	63,700	30.9	427.1	30,100	77,700	35.6	446.3		81,700	320
330	17.3	360.5	29,100	59,300	27.0	408.3	26,400	74,300	32.2	430.9		77,100	330
340	8.5	313.8	25,300	45,000	22.4	385.8	22,900	71,300	28.4	413.2		72,800	340
350					16.7	356.4		60,200	24.2	392.3		68,700	350
360					7.2	305.7		45,300	19.0	365.9		64,900	360
370									11.6	327.2		54,800	370
380													380
390													390
400													400

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



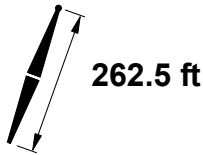
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210												210
215	64.4	542.5	41,500	121,400								215
220	63.3	540.0	38,600	121,400								220
225	62.3	537.3	35,900	119,200								225
230	61.2	534.6	33,300	115,200								230
235	60.2	531.7	30,900	111,400								235
240	59.1	528.6	28,500	107,800								240
250	56.9	522.2	24,000	100,900								250
260	54.7	515.2		94,600	59.5	522.6	80,000					260
270	52.4	507.6		88,800	57.3	516.2	74,700					270
280	50.0	499.3		83,400	55.1	509.3	69,800					280
290	47.5	490.3		78,300	52.8	501.8	65,300					290
300	44.9	480.4		73,600	50.4	493.7	61,000					300
310	42.2	469.6		69,200	48.0	484.8	57,000	53.0	493.6	45,200		310
320	39.4	457.6		65,000	45.4	475.1	53,200	50.7	485.5	41,800		320
330	36.3	444.4		61,100	42.7	464.4	49,700	48.2	476.7	38,700		330
340	33.0	429.5		57,400	39.9	452.7	46,400	45.7	467.1	35,700		340
350	29.4	412.4		54,000	36.9	439.7	43,200	43.0	456.6	32,800		350
360	25.2	392.3		50,600	33.6	425.1	40,300	40.2	445.0	30,200		360
370	20.3	367.5		47,500	30.0	408.5	37,400	37.2	432.2	27,600		370
380	13.7	333.1		44,400	26.0	389.0	34,700	34.0	417.8	25,200		380
390					21.3	365.3	32,100	30.5	401.4	22,900		390
400					15.1	333.4	29,600	26.5	382.3	20,700		400

MLC650 VPC-MAX S-2

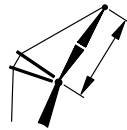
ASME B30.5



661,300 lb



262.5 ft

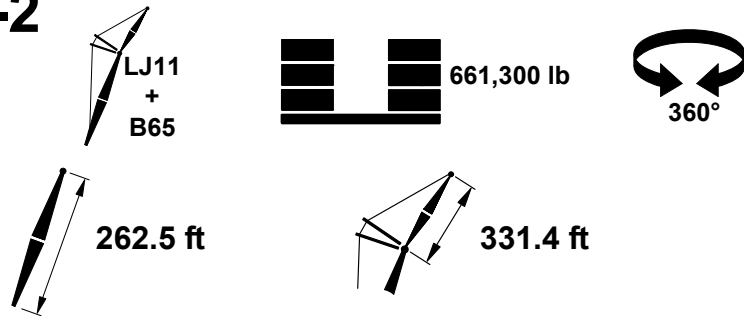


331.4 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
125	74.3	589.8	121,100	121,100									125
130	73.4	588.3	120,700	120,700									130
135	72.5	586.7	120,200	120,200									135
140	71.6	585.0	119,700	119,700									140
145	70.7	583.2	119,200	119,200									145
150	69.7	581.3	118,600	118,600	72.3	585.3	118,800	118,800					150
155	68.8	579.3	117,900	117,900	71.4	583.6	118,500	118,500					155
160	67.9	577.3	117,200	117,200	70.5	581.8	118,200	118,200					160
165	66.9	575.1	116,500	116,500	69.6	579.9	117,900	117,900					165
170	66.0	572.9	115,800	115,800	68.7	577.9	117,500	117,500					170
175	65.0	570.5	115,100	115,100	67.7	575.8	117,100	117,100					175
180	64.1	568.0	114,400	114,400	66.8	573.6	115,700	116,600	69.3	577.1	96,700	113,800	180
185	63.1	565.5	113,600	113,600	65.8	571.4	110,000	116,200	68.4	575.1	91,600	113,800	185
190	62.1	562.8	111,300	112,800	64.9	569.0	104,700	115,700	67.5	573.0	86,800	113,800	190
195	61.1	560.0	106,200	112,000	63.9	566.5	99,600	115,100	66.5	570.8	82,200	113,700	195
200	60.1	557.1	101,300	111,200	62.9	563.9	94,800	114,600	65.6	568.5	77,800	113,600	200
205	59.1	554.1	96,700	109,200	61.9	561.2	90,200	114,000	64.6	566.1	73,700	113,500	205
210	58.1	550.9	92,300	106,500	61.0	558.4	85,900	113,400	63.6	563.6	69,800	113,300	210
215	57.1	547.7	88,100	103,800	60.0	555.5	81,700	112,800	62.7	561.0	66,000	113,000	215
220	56.0	544.3	84,100	101,100	58.9	552.5	77,800	112,200	61.7	558.3	62,500	112,800	220
225	55.0	540.7	80,300	98,400	57.9	549.3	74,000	111,500	60.7	555.4	59,100	112,500	225
230	53.9	537.0	76,600	95,800	56.9	546.0	70,400	110,900	59.7	552.5	55,800	112,200	230
235	52.8	533.2	73,100	93,100	55.8	542.6	67,000	110,300	58.7	549.4	52,700	111,900	235
240	51.7	529.2	69,800	90,600	54.8	539.0	63,700	109,600	57.6	546.2	49,800	111,500	240
250	49.4	520.8	63,500	85,500	53.7	535.3	60,600	107,000	56.6	542.8	46,900	111,200	250
260	47.1	511.6	57,600	80,700	51.5	527.4	54,700	101,700	54.5	535.8	41,600	110,400	260
270	44.6	501.7	52,200	76,200	49.2	518.9	49,200	96,500	52.3	528.1	36,600	106,700	270
280	42.1	490.8	47,200	71,900	46.9	509.7	44,100	91,400	50.1	519.9	32,000	100,300	280
290	39.4	478.8	42,500	68,000	44.4	499.7	39,400	86,500	47.7	510.9	27,800	94,400	290
300	36.5	465.7	38,100	64,400	41.9	488.7	35,000	81,800	45.3	501.2	23,800	88,900	300
310	33.5	451.0	34,000	61,200	39.2	476.7	30,900	77,400	42.8	490.6	20,100	83,800	310
320	30.1	434.3	30,100	58,500	36.3	463.4	27,000	73,400	40.1	478.9		79,000	320
330	26.4	415.1	26,400	56,200	33.2	448.5	23,300	69,800	37.3	466.1		74,400	330
340	22.0	392.0	22,900	54,500	29.8	431.7		66,500	34.3	451.9		70,200	340
350	16.6	362.2		47,000	26.0	412.2		63,800	31.1	435.8		66,200	350
360	7.8	312.7		33,900	21.6	388.6		57,900	27.4	417.4		62,400	360
370					16.0	357.9		48,000	23.3	395.5		58,800	370
380					6.5	303.7		34,100	18.2	368.0		54,400	380
390									11.0	327.3		43,100	390
400													400
410													410
420													420
425													425

MLC650 VPC-MAX S-2

ASME B30.5



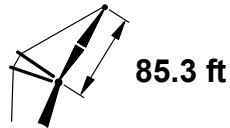
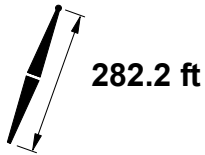
	75°			70°			65°			
	ft	°	ft	lb	°	ft	lb	°	ft	lb
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170
175										175
180										180
185										185
190										190
195										195
200										200
205										205
210										210
215										215
220										220
225	64.1	559.5	103,900							225
230	63.1	557.0	103,900							230
235	62.1	554.3	103,900							235
240	61.1	551.5	103,900							240
250	59.1	545.6	97,800							250
260	57.1	539.2	91,500							260
270	55.0	532.3	85,700	59.5	539.5	71,500				270
280	52.8	524.7	80,300	57.5	533.2	66,600				280
290	50.6	516.6	75,300	55.4	526.4	62,100				290
300	48.3	507.8	70,700	53.2	519.0	57,800				300
310	45.9	498.3	66,300	51.0	511.0	53,900				310
320	43.4	487.9	62,200	48.7	502.3	50,200	53.4	510.8	38,600	320
330	40.8	476.5	58,300	46.3	492.9	46,700	51.2	502.8	35,400	330
340	38.0	464.0	54,600	43.9	482.7	43,400	49.0	494.2	32,500	340
350	35.1	450.1	51,200	41.3	471.5	40,300	46.6	484.9	29,700	350
360	31.8	434.5	47,900	38.5	459.2	37,300	44.1	474.8	27,100	360
370	28.3	416.7	44,800	35.6	445.6	34,500	41.6	463.7	24,600	370
380	24.3	395.8	41,900	32.4	430.3	31,900	38.8	451.5	22,200	380
390	19.5	369.9	39,000	29.0	412.9	29,300				390
400	13.0	333.9	36,300	25.1	392.7	26,900				400
410				20.5	367.9	24,600				410
420				14.4	334.5	22,300				420
425				10.1	309.9	21,100				425

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



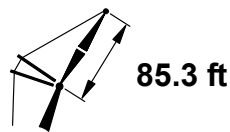
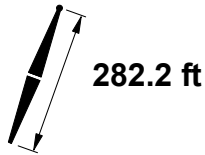
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60	74.4	372.6	540,700 d	540,700 d									60
65	70.9	370.7	524,200 d	524,200 d									65
70	67.2	368.5	508,500 c	508,500 c									70
75	63.4	365.9	477,900 c	508,500 c	70.7	369.5	452,100 d	509,100 d					75
80	59.5	362.8	443,100 b	502,300 b	67.0	367.2	419,100 c	494,500 c					80
85	55.3	359.2	412,500 b	485,500 b	63.2	364.6	390,100 c	480,700 c					85
90	51.0	355.0	385,500 b	469,500 b	59.3	361.5	364,500 b	467,500 b					90
95	46.3	350.1	361,300	454,400	55.2	357.9	341,700 b	467,500 b	66.7	364.7	312,100 c	472,300 c	95
100	41.1	344.3	339,600	440,300	50.8	353.7	321,200 b	466,400 b	62.9	362.0	293,300 c	445,000 c	100
105	35.3	337.3	319,900	425,900	46.1	348.8	302,600	440,700	59.0	358.9	276,300 b	420,500 b	105
110	28.4	328.2	301,900	411,600	40.9	342.9	285,800	417,600	54.8	355.3	260,900 b	398,300 b	110
115	18.8	314.9	285,100	362,400	35.1	335.8	270,300	396,500	50.4	351.0	246,900 b	378,200 b	115
120					28.0	326.6	256,000	377,200	45.7	346.0	234,000	359,900	120
125					18.3	313.0	242,400	359,400	40.5	340.1	222,000	343,000	125
130									34.6	332.8	210,900	327,500	130
135									27.4	323.4	200,500	313,200	135
140									17.3	309.2	190,400	299,700	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-2

ASME B30.5



661,300 lb



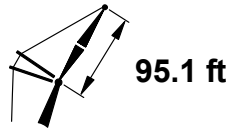
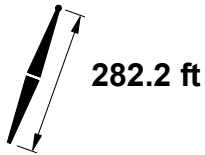
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
60													60
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125	62.2	355.8	186,300 b	315,700 b									125
130	58.2	352.6	177,000 b	301,500 b									130
135	54.0	348.9	168,300 b	288,300 b									135
140	49.5	344.5	160,300 b	276,100 b									140
145	44.7	339.3	152,700	264,700									145
150	39.4	333.2	145,600	254,100									150
155	33.3	325.6	138,800	244,200	56.9	343.8	111,400 b	223,400 b					155
160	25.8	315.6	132,300	234,800	52.6	339.9	106,300 b	214,900 b					160
165	14.4	299.3	125,700	225,800	48.1	335.3	101,300 b	206,900 b					165
170					43.1	329.8	96,700	199,300					170
175					37.6	323.3	92,200	192,200					175
180					31.1	315.1	87,800	185,400	55.0	332.4	65,300	168,400	180
185					22.9	303.9	83,500	178,900	50.6	328.1	62,100	162,600	185
190					6.0	279.3	78,500	172,300	45.8	323.2	59,000	157,100	190
195									40.6	317.3	56,000	151,900	195
200									34.7	310.1	53,100	146,900	200
205									27.6	300.7	50,100	142,000	205
210									17.7	286.8	47,000	137,200	210

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



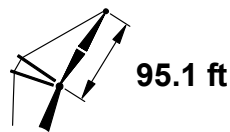
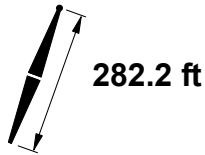
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	72.9	381.2	507,000 d	507,000 d									65
70	69.7	379.3	494,300 c	494,300 c									70
75	66.4	377.0	475,300 c	485,600 c	72.8	380.0	449,000 c	495,100 c					75
80	63.0	374.3	440,600 b	485,600 b	69.6	378.0	416,100 c	481,300 c					80
85	59.5	371.3	410,100 b	472,200 b	66.3	375.7	387,200 c	468,100 c					85
90	55.8	367.8	383,200 b	457,000 b	62.8	373.1	361,700 b	455,500 b					90
95	51.9	363.7	359,200	442,500	59.3	370.0	339,000 b	449,300 b	69.3	375.5	308,800 c	466,900 c	95
100	47.8	359.1	337,600	426,900	55.6	366.5	318,600 b	449,300 b	66.0	373.2	290,100 b	441,800 b	100
105	43.4	353.7	318,200	407,100	51.8	362.4	300,300	438,100	62.6	370.5	273,300 b	417,500 b	105
110	38.6	347.4	300,400	389,300	47.7	357.8	283,500	415,000	59.0	367.4	258,000 b	395,400 b	110
115	33.0	339.7	284,200	374,400	43.2	352.4	268,300	394,100	55.3	363.8	244,100 b	375,500 b	115
120	26.4	330.0	269,200	363,300	38.4	346.0	254,300	375,000	51.5	359.7	231,300	357,200	120
125	17.3	315.6	255,000	328,600	32.8	338.3	241,300	357,400	47.3	355.0	219,500	340,500	125
130					26.1	328.4	229,200	341,300	42.9	349.6	208,600	325,200	130
135					16.8	313.7	217,600	326,300	38.0	343.1	198,500	311,000	135
140									32.3	335.2	189,000	297,800	140
145									25.5	325.1	180,000	285,500	145
150									15.8	309.7	171,200	273,900	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-2

ASME B30.5



661,300 lb



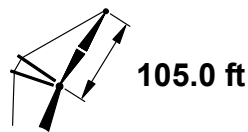
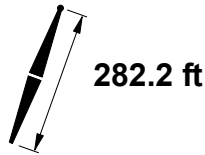
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65													65
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130	61.9	364.3	173,600 b	298,500 b									130
135	58.3	361.1	165,100 b	285,500 b									135
140	54.6	357.4	157,100 b	273,300 b									140
145	50.7	353.2	149,700	262,100									145
150	46.5	348.4	142,800	251,600									150
155	41.9	342.8	136,200	241,800									155
160	36.9	336.1	130,000	232,600	57.2	352.3	102,800	212,000					160
165	31.1	327.9	124,100	223,900	53.4	348.5	98,000	204,100					165
170	24.0	317.1	118,300	215,700	49.4	344.1	93,500	196,700					170
175	12.9	299.4	112,400	207,800	45.1	339.1	89,200	189,700					175
180					40.4	333.1	85,000	183,100					180
185					35.2	326.0	81,100	176,800					185
190					29.1	317.2	77,200	170,700	51.6	336.9	55,600	154,400	190
195					21.2	305.1	73,300	164,900	47.4	332.2	52,700	149,300	195
200									43.0	326.7	49,900	144,300	200
205									38.1	320.3	47,300	139,600	205
210									32.5	312.5	44,600	135,100	210
215									25.8	302.4	42,000	130,800	215
220									16.2	287.3	39,200	126,400	220

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	74.6	391.6	471,700 d	471,700 d									65
70	71.7	389.9	470,300 c	470,300 c									70
75	68.8	387.8	465,800 c	465,800 c									75
80	65.7	385.5	439,200 b	460,100 b	71.6	388.6	414,400 c	473,100 c					80
85	62.7	382.8	408,800 b	453,500 b	68.6	386.6	385,600 c	460,300 c					85
90	59.5	379.7	382,000 b	443,300 b	65.6	384.2	360,200 b	448,100 b					90
95	56.1	376.3	358,100	429,600	62.5	381.5	337,600 b	436,400 b					95
100	52.7	372.4	336,700	413,200	59.3	378.5	317,300 b	436,400 b	68.4	384.1	288,300 b	439,700 b	100
105	49.0	368.0	317,300	393,800	56.0	375.0	299,000	432,000	65.4	381.7	271,600 b	415,500 b	105
110	45.2	362.9	299,700	375,500	52.5	371.1	282,400	413,400	62.3	379.0	256,400 b	393,600 b	110
115	41.0	357.1	283,700	358,900	48.9	366.6	267,300	392,500	59.1	375.9	242,500 b	373,700 b	115
120	36.4	350.3	269,000	344,300	45.0	361.5	253,400	373,500	55.8	372.4	229,900	355,500	120
125	31.1	342.0	255,400	332,100	40.8	355.7	240,600	356,100	52.3	368.4	218,200	338,900	125
130	24.8	331.6	242,700	323,500	36.2	348.8	228,800	340,100	48.6	363.9	207,400	323,700	130
135	15.9	316.1	230,600	299,300	30.9	340.5	217,700	325,300	44.7	358.8	197,400	309,600	135
140					24.5	329.9	207,300	311,600	40.5	352.8	188,100	296,500	140
145					15.5	314.2	197,300	298,700	35.8	345.9	179,400	284,400	145
150									30.5	337.5	171,200	273,000	150
155									23.9	326.6	163,300	262,400	155
160									14.5	310.1	155,600	252,300	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
225													225
230													230

MLC650 VPC-MAX S-2

ASME B30.5



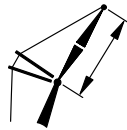
661,300 lb



360°



282.2 ft



105.0 ft

	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	171,700 b	296,700 b									130
135	61.7	372.8	163,200 b	283,700 b									135
140	58.4	369.6	155,400	271,700									140
145	55.1	366.0	148,100	260,500									145
150	51.6	361.9	141,200	250,100									150
155	47.9	357.3	134,800	240,400									155
160	43.9	352.1	128,700	231,300									160
165	39.6	346.0	122,900	222,700	57.4	360.8	96,100	202,500					165
170	34.8	338.8	117,500	214,600	54.0	357.1	91,700	195,100					170
175	29.3	330.0	112,200	207,000	50.4	352.9	87,500	188,200					175
180	22.4	318.4	107,100	199,700	46.6	348.1	83,400	181,600					180
185	11.6	299.2	101,900	192,700	42.6	342.6	79,600	175,400					185
190					38.2	336.2	75,900	169,500					190
195					33.2	328.5	72,400	163,900	52.4	345.5	50,800	147,700	195
200					27.3	319.1	68,900	158,500	48.7	341.0	48,200	142,800	200
205					19.8	306.1	65,400	153,300	44.8	335.9	45,600	138,200	205
210									40.6	330.0	43,100	133,800	210
215									35.9	323.1	40,700	129,600	215
220									30.6	314.7	38,300	125,500	220
225									24.1	304.0	35,900	121,500	225
230									14.8	287.7	33,300	117,600	230

MLC650 VPC-MAX S-2

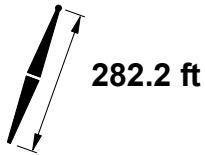
ASME B30.5



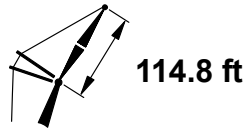
661,300 lb



360°



282.2 ft



114.8 ft

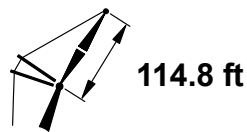
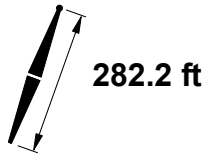
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	73.3	400.3	439,600 c	439,600 c									70
75	70.7	398.5	437,100 c	437,100 c									75
80	68.0	396.4	432,900 b	432,900 b									80
85	65.2	394.0	406,200 b	427,600 b	70.6	397.3	382,600 b	441,200 b					85
90	62.4	391.3	379,400 b	421,700 b	67.9	395.1	357,200 b	436,800 b					90
95	59.5	388.2	355,600	414,100	65.1	392.7	334,700 b	425,600 b					95
100	56.4	384.8	334,200	399,100	62.3	390.0	314,500 b	422,500 b					100
105	53.3	381.0	315,000	381,000	59.3	386.9	296,300	421,000	67.7	392.6	268,300 b	412,400 b	105
110	50.0	376.7	297,500	363,400	56.3	383.5	279,800	408,800	64.9	390.2	253,200 b	390,600 b	110
115	46.6	371.9	281,600	346,800	53.2	379.7	264,700	389,900	62.0	387.4	239,500 b	370,800 b	115
120	42.9	366.5	267,000	331,400	49.9	375.4	250,900	371,000	59.1	384.3	226,900	352,800	120
125	38.9	360.2	253,500	317,600	46.4	370.6	238,300	353,700	56.1	380.9	215,300	336,200	125
130	34.5	352.9	241,100	305,500	42.7	365.1	226,500	337,800	52.9	377.0	204,600	321,100	130
135	29.5	344.2	229,500	295,800	38.7	358.8	215,700	323,100	49.6	372.7	194,700	307,000	135
140	23.4	333.0	218,600	289,100	34.3	351.5	205,500	309,500	46.1	367.8	185,500	294,100	140
145	14.8	316.5	208,100	273,000	29.2	342.6	196,000	296,800	42.4	362.3	176,900	282,000	145
150					23.1	331.4	187,000	285,000	38.4	355.9	168,900	270,800	150
155					14.3	314.5	178,300	273,800	33.9	348.5	161,300	260,300	155
160									28.8	339.5	154,100	250,400	160
165									22.5	328.0	147,200	241,100	165
170									13.3	310.3	140,400	232,300	170
175													175
180													180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
225													225
230													230
235													235
240													240

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



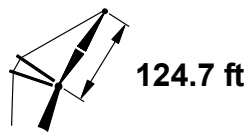
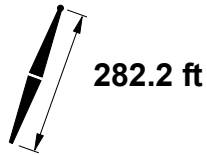
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135	64.3	384.0	159,800	280,700									135
140	61.5	381.2	152,000	268,800									140
145	58.5	378.1	144,800	257,700									145
150	55.5	374.6	138,000	247,400									150
155	52.3	370.6	131,700	237,700									155
160	49.0	366.2	125,700	228,700									160
165	45.4	361.2	120,100	220,200									165
170	41.7	355.5	114,700	212,200	57.6	369.3	88,200	192,300					170
175	37.6	348.9	109,600	204,700	54.5	365.7	84,100	185,400					175
180	33.0	341.3	104,800	197,600	51.3	361.6	80,200	179,000					180
185	27.7	331.9	100,100	190,800	47.9	357.0	76,400	172,800					185
190	21.1	319.6	95,600	184,400	44.3	351.8	72,800	167,000					190
195	10.4	298.9	90,800	178,000	40.4	345.9	69,400	161,500					195
200					36.2	339.0	66,100	156,200	53.0	354.1	44,700	140,100	200
205					31.4	330.9	62,900	151,200	49.7	349.8	42,200	135,500	205
210					25.8	320.8	59,800	146,300	46.2	345.0	39,800	131,200	210
215					18.5	307.0	56,600	141,600	42.5	339.4	37,500	127,000	215
220									38.5	333.1	35,300	123,100	220
225									34.1	325.7	33,100	119,200	225
230									29.0	316.8	30,900	115,500	230
235									22.7	305.4	28,700	111,900	235
240									13.7	287.9	26,400	108,300	240

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



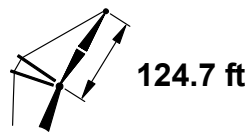
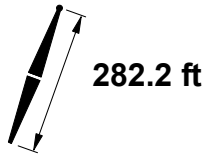
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70	74.7	410.7	411,800 c	411,800 c									70
75	72.3	409.0	410,900 c	410,900 c									75
80	69.8	407.1	408,100 b	408,100 b									80
85	67.3	404.9	404,300 b	404,300 b	72.2	407.8	382,600 b	413,200 b					85
90	64.8	402.5	379,600 b	399,500 b	69.7	405.8	357,300 b	412,800 b					90
95	62.1	399.7	355,900	393,900	67.2	403.7	334,800 b	410,900 b					95
100	59.5	396.7	334,600	386,900	64.7	401.2	314,700 b	408,000 b					100
105	56.7	393.3	315,300	370,200	62.0	398.5	296,500	404,000	69.5	403.3	268,300 b	410,600 b	105
110	53.8	389.6	297,900	353,800	59.4	395.4	280,000	399,500	67.0	401.1	253,300 b	390,000 b	110
115	50.8	385.4	282,100	337,800	56.6	392.0	265,000	389,400	64.5	398.7	239,600	370,300	115
120	47.7	380.8	267,600	322,800	53.7	388.3	251,300	370,600	61.8	395.9	227,000	352,300	120
125	44.4	375.6	254,200	308,600	50.7	384.1	238,700	353,400	59.1	392.8	215,500	335,800	125
130	40.9	369.8	241,900	295,700	47.6	379.5	227,100	337,600	56.4	389.4	204,800	320,700	130
135	37.1	363.2	230,500	284,100	44.3	374.3	216,300	322,900	53.5	385.6	195,000	306,800	135
140	32.8	355.4	219,800	274,100	40.7	368.4	206,300	309,400	50.5	381.4	185,900	293,900	140
145	28.0	346.2	209,800	266,200	36.9	361.7	196,900	296,800	47.3	376.7	177,400	281,900	145
150	22.1	334.4	200,400	260,900	32.6	354.0	188,100	285,100	44.0	371.5	169,400	270,700	150
155	13.7	316.8	191,200	252,100	27.8	344.6	179,900	274,100	40.4	365.6	161,900	260,300	155
160					21.8	332.7	172,000	263,800	36.6	358.8	154,900	250,500	160
165					13.3	314.7	164,200	254,100	32.3	350.9	148,200	241,300	165
170									27.4	341.5	141,900	232,700	170
175									21.3	329.3	135,800	224,500	175
180									12.3	310.3	129,700	216,700	180
185													185
190													190
195													195
200													200
205													205
210													210
215													215
220													220
225													225
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250													250

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



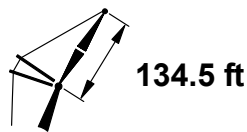
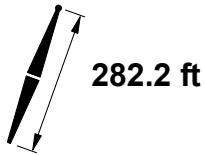
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
70													70
75													75
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85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140	64.0	392.5	152,000	268,400									140
145	61.3	389.7	144,800	257,400									145
150	58.6	386.6	138,100	247,100									150
155	55.8	383.1	131,800	237,500									155
160	52.9	379.2	125,900	228,500									160
165	49.9	374.9	120,300	220,100									165
170	46.7	370.2	115,000	212,200									170
175	43.3	364.8	110,100	204,700	57.7	377.8	84,100	185,300					175
180	39.7	358.7	105,300	197,700	54.9	374.2	80,200	178,800					180
185	35.8	351.8	100,800	191,000	52.0	370.3	76,600	172,700					185
190	31.4	343.6	96,500	184,700	48.9	365.8	73,000	166,900					190
195	26.3	333.7	92,300	178,600	45.7	360.9	69,700	161,500					195
200	19.9	320.7	88,200	172,800	42.2	355.3	66,500	156,200	53.6	362.8	42,200	135,400	200
205	9.4	298.3	83,800	167,100	38.5	349.0	63,400	151,300	50.6	358.6	39,900	131,100	205
210					34.5	341.7	60,400	146,500	47.4	353.9	37,700	127,000	210
215					29.9	333.1	57,500	142,000					215
220					24.5	322.4	54,700	137,600	44.1	348.7	35,500	123,100	220
225					17.4	307.8	51,800	133,300	40.5	342.8	33,400	119,300	225
230									36.7	336.0	31,400	115,700	230
235									32.4	328.2	29,400	112,200	235
240									27.5	318.8	27,400	108,900	240
250									12.6	288.1	23,200	102,200	250

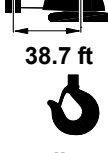
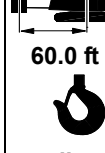
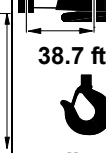
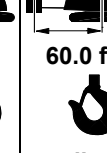
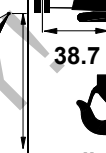
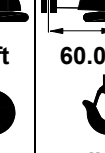
MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	 85°					 83°					 80°					
																
75	73.6	419.4	383,000 b	383,000 b										75		
80	71.4	417.6	381,700 b	381,700 b										80		
85	69.1	415.6	379,100 b	379,100 b										85		
90	66.8	413.4	375,600 b	375,600 b	71.3	416.4	354,300 b	384,400 b						90		
95	64.4	410.9	353,300	371,500	69.0	414.4	331,900 b	383,800 b						95		
100	62.0	408.2	332,000	366,200	66.7	412.2	311,800	382,100						100		
105	59.5	405.2	312,900	358,100	64.3	409.7	293,700	379,500						105		
110	56.9	401.8	295,500	343,200	61.9	406.9	277,300	376,100	68.8	411.9	250,100	382,200		110		
115	54.3	398.2	279,700	328,400	59.4	403.9	262,300	372,300	66.5	409.6	236,400	367,400		115		
120	51.5	394.1	265,200	314,000	56.8	400.6	248,700	366,900	64.1	407.1	224,000	349,500		120		
125	48.7	389.6	252,000	300,300	54.2	396.9	236,100	350,900	61.7	404.4	212,500	333,100		125		
130	45.7	384.7	239,700	287,400	51.4	392.8	224,600	335,100	59.2	401.3	201,900	318,100		130		
135	42.5	379.2	228,400	275,400	48.6	388.3	213,900	320,600	56.6	397.9	192,100	304,200		135		
140	39.1	373.0	217,800	264,500	45.6	383.3	203,900	307,100	53.9	394.2	183,100	291,400		140		
145	35.4	365.9	208,000	254,700	42.4	377.8	194,600	294,600	51.2	390.1	174,600	279,400		145		
150	31.4	357.8	198,700	246,500	39.0	371.6	186,000	282,900	48.3	385.6	166,700	268,300		150		
155	26.7	348.0	190,000	239,900	35.3	364.5	177,800	272,100	45.3	380.6	159,300	258,000		155		
160	21.0	335.6	181,800	235,900	31.2	356.3	170,200	261,900	42.1	375.0	152,400	248,200		160		
165	12.8	317.0	173,700	230,200	26.5	346.5	162,900	252,300	38.7	368.7	145,800	239,100		165		
170					20.7	333.9	155,900	243,200	35.0	361.6	139,600	230,600		170		
175					12.3	314.8	149,000	234,600	30.9	353.3	133,800	222,500		175		
180									26.1	343.3	128,100	214,800		180		
185									20.2	330.4	122,700	207,600		185		
190									11.4	310.2	117,200	200,600		190		
195														195		
200														200		
205														205		
210														210		
215														215		
220														220		
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MLC650 VPC-MAX S-2

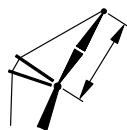
ASME B30.5



661,300 lb



282.2 ft



134.5 ft

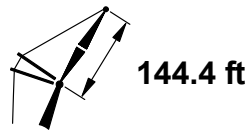
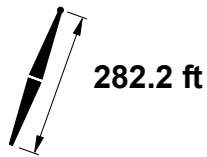
	75°				70°				65°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75													75
80													80
85													85
90													90
95													95
100													100
105													105
110													110
115													115
120													120
125													125
130													130
135													135
140													140
145	63.6	401.0	141,500	254,600									145
150	61.2	398.2	134,800	244,400									150
155	58.7	395.1	128,600	234,800									155
160	56.1	391.6	122,700	225,900									160
165	53.4	387.8	117,200	217,500									165
170	50.6	383.7	112,000	209,700									170
175	47.7	379.0	107,100	202,300									175
180	44.7	373.9	102,500	195,300	57.9	386.3	76,800	176,100					180
185	41.5	368.2	98,000	188,700	55.3	382.8	73,200	170,000					185
190	38.0	361.8	93,800	182,400	52.6	378.9	69,800	164,300					190
195	34.2	354.4	89,800	176,400	49.8	374.6	66,500	158,900					195
200	30.0	345.8	85,900	170,800	46.8	369.8	63,400	153,700					200
205	25.1	335.4	82,100	165,300	43.7	364.5	60,400	148,800					205
210	18.8	321.7	78,400	160,100	40.4	358.6	57,500	144,100	54.0	371.3	36,400	128,400	210
215	8.3	297.6	74,400	154,900	36.9	351.9	54,700	139,700	51.3	367.2	34,300	124,400	215
220					32.9	344.2	52,000	135,400	48.4	362.7	32,200	120,500	220
225					28.5	335.1	49,400	131,200	45.4	357.7	30,100	116,800	225
230					23.3	323.9	46,800	127,200	42.2	352.2	28,200	113,200	230
235					16.4	308.5	44,100	123,300	38.8	345.9	26,300	109,800	235
240									35.1	338.8	24,400	106,500	240
250									26.2	320.6	20,800	100,200	250
260									11.7	288.0		94,200	260

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
75	74.8	429.7	358,300 b	358,300 b									75
80	72.7	428.1	357,900 b	357,900 b									80
85	70.6	426.2	356,300 b	356,300 b									85
90	68.4	424.2	353,900	353,900	72.6	426.9	352,300 b	358,700 b					90
95	66.3	421.9	350,500	350,500	70.5	425.0	329,900	358,700					95
100	64.0	419.4	330,200	347,000	68.4	423.0	309,800	358,500					100
105	61.8	416.7	311,100	342,400	66.2	420.7	291,800	356,900					105
110	59.5	413.7	293,800	332,400	64.0	418.2	275,400	354,600					110
115	57.1	410.3	278,000	318,800	61.7	415.4	260,500	351,800	68.2	420.5	234,300	357,000	115
120	54.6	406.7	263,600	305,400	59.4	412.4	246,900	348,500	66.0	418.2	221,900	347,400	120
125	52.1	402.8	250,300	292,500	57.0	409.1	234,300	342,400	63.8	415.6	210,500	331,100	125
130	49.5	398.4	238,100	280,000	54.5	405.4	222,800	329,100	61.5	412.8	199,900	316,100	130
135	46.7	393.7	226,800	268,300	52.0	401.5	212,200	316,000	59.2	409.8	190,200	302,300	135
140	43.9	388.4	216,400	257,200	49.4	397.1	202,300	303,200	56.8	406.4	181,200	289,500	140
145	40.8	382.5	206,600	246,900	46.6	392.3	193,000	290,800	54.3	402.8	172,800	277,600	145
150	37.5	376.0	197,500	237,700	43.7	387.0	184,400	279,000	51.8	398.8	164,900	266,600	150
155	34.0	368.6	188,900	229,500	40.7	381.2	176,400	267,900	49.2	394.4	157,600	256,200	155
160	30.1	360.0	180,800	222,600	37.4	374.6	168,800	257,800	46.4	389.6	150,700	246,600	160
165	25.5	349.8	173,200	217,200	33.8	367.1	161,700	248,700	43.5	384.2	144,200	237,500	165
170	20.0	336.8	165,800	214,100	29.9	358.5	154,900	240,800	40.4	378.3	138,100	229,000	170
175	11.9	317.0	158,700	212,000	25.3	348.2	148,400	233,400	37.1	371.7	132,300	221,000	175
180					19.7	335.0	142,200	225,400	33.6	364.2	126,800	213,400	180
185					11.4	314.7	136,000	217,400	29.6	355.4	121,500	206,200	185
190									25.0	345.0	116,500	199,400	190
195									19.2	331.5	111,600	192,900	195
200									10.5	310.0	106,600	186,600	200
205													205
210													210
215													215
220													220
225													225
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260													260
270													270

MLC650 VPC-MAX S-2

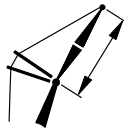
ASME B30.5



661,300 lb



282.2 ft



144.4 ft

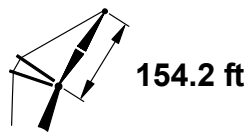
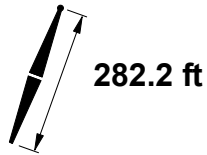
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb
75												75
80												80
85												85
90												90
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150	63.3	409.5	132,600	242,400								150
155	61.1	406.7	126,400	232,900								155
160	58.7	403.5	120,600	224,000								160
165	56.3	400.1	115,200	215,700								165
170	53.9	396.4	110,000	207,900								170
175	51.3	392.3	105,200	200,500								175
180	48.6	387.9	100,500	193,600								180
185	45.9	383.0	96,200	187,000	58.0	394.8	71,000	168,200				185
190	42.9	377.5	92,000	180,800	55.6	391.3	67,600	162,500				190
195	39.8	371.5	88,100	174,900	53.1	387.5	64,400	157,100				195
200	36.5	364.7	84,300	169,300	50.5	383.3	61,300	152,000				200
205	32.8	357.0	80,600	163,900	47.8	378.7	58,300	147,100				205
210	28.7	347.9	77,100	158,800	45.0	373.6	55,500	142,500				210
215	23.9	337.0	73,700	153,900	42.0	368.0	52,800	138,100	54.4	379.9	122,600	215
220	17.9	322.6	70,300	149,100	38.8	361.8	50,200	133,800	51.9	375.9	118,700	220
225	7.4	296.6	66,600	144,400	35.4	354.7	47,700	129,800	49.2	371.5	115,000	225
230					31.6	346.6	45,200	125,800	46.5	366.7	111,500	230
235					27.3	337.1	42,800	122,100	43.6	361.4	108,100	235
240					22.2	325.3	40,400	118,400	40.5	355.5	104,900	240
250									33.7	341.4	98,800	250
260									25.1	322.3	93,000	260
270									10.8	287.9	87,400	270

MLC650 VPC-MAX S-2

ASME B30.5



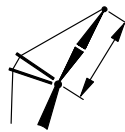
661,300 lb

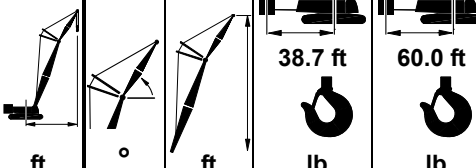
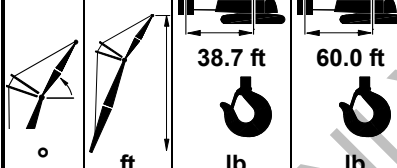
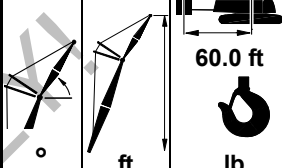


	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	73.8	438.4	334,700 b	334,700 b									80
85	71.9	436.7	334,000	334,000									85
90	69.9	434.9	332,400	332,400									90
95	67.9	432.8	330,200	330,200	71.8	435.5	327,000	335,100					95
100	65.8	430.4	327,300	327,300	69.8	433.6	306,900	335,100					100
105	63.8	427.9	308,600	323,600	67.8	431.5	288,900	334,500					105
110	61.6	425.1	291,300	319,900	65.8	429.2	272,600	333,200					110
115	59.5	422.1	275,500	308,400	63.7	426.7	257,700	331,200	69.7	431.1	231,200	331,000	115
120	57.2	418.8	261,200	296,200	61.5	423.9	244,200	328,800	67.6	429.0	218,800	331,000	120
125	55.0	415.3	248,000	284,200	59.4	420.9	231,700	326,000	65.6	426.7	207,400	328,400	125
130	52.6	411.4	235,800	272,400	57.2	417.6	220,200	319,100	63.5	424.1	196,900	313,500	130
135	50.2	407.2	224,500	261,100	54.9	414.0	209,600	307,100	61.4	421.3	187,300	299,700	135
140	47.6	402.5	214,100	250,400	52.5	410.1	199,700	295,200	59.2	418.3	178,300	287,000	140
145	45.0	397.5	204,400	240,200	50.1	405.8	190,600	283,600	57.0	414.9	169,900	275,100	145
150	42.2	391.9	195,300	230,700	47.5	401.2	182,000	272,200	54.7	411.3	162,100	264,100	150
155	39.3	385.8	186,800	222,100	44.9	396.1	174,000	261,400	52.3	407.4	154,800	253,900	155
160	36.1	378.9	178,800	214,200	42.1	390.5	166,500	251,200	49.9	403.1	148,000	244,200	160
165	32.7	371.1	171,300	207,300	39.2	384.4	159,400	241,700	47.3	398.5	141,600	235,200	165
170	28.9	362.2	164,200	201,500	36.0	377.5	152,700	233,000	44.7	393.4	135,500	226,800	170
175	24.5	351.4	157,400	197,200	32.6	369.7	146,400	225,200	41.9	387.7	129,800	218,800	175
180	19.1	337.8	150,900	194,800	28.7	360.6	140,400	218,600	38.9	381.5	124,300	211,300	180
185	11.1	316.9	144,400	194,800	24.3	349.8	134,600	213,300	35.7	374.5	119,200	204,100	185
190					18.8	336.0	129,100	208,900	32.3	366.6	114,300	197,400	190
195					10.6	314.5	123,500	198,100	28.4	357.5	109,500	191,000	195
200									23.9	346.5	105,000	184,900	200
205									18.4	332.4	100,600	179,000	205
210									9.7	309.6	96,000	173,300	210
215													215
220													220
225													225
230													230
235													235
240													240
250													250
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MLC650 VPC-MAX S-2

ASME B30.5



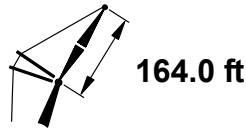
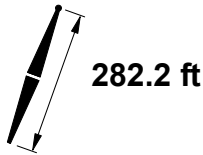
	75°					70°						
	ft	°	ft	lb		lb	°	ft	lb			lb
80												80
85												85
90												90
95												95
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105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155	63.1	418.0	123,200	230,200								155
160	61.0	415.1	117,400	221,400								160
165	58.8	412.0	112,000	213,100								165
170	56.5	408.7	106,900	205,300								170
175	54.2	405.0	102,100	198,000								175
180	51.9	401.0	97,500	191,100								180
185	49.4	396.6	93,200	184,600								185
190	46.8	391.9	89,100	178,400	58.1	403.3	64,300	159,800				190
195	44.1	386.7	85,200	172,500	55.8	399.9	61,100	154,500				195
200	41.3	381.0	81,500	167,000	53.5	396.1	58,000	149,400				200
205	38.3	374.6	77,900	161,700	51.1	392.0	55,100	144,600				205
210	35.1	367.5	74,500	156,600	48.6	387.5	52,400	140,000				210
215	31.5	359.4	71,200	151,800	46.0	382.6	49,700	135,600				215
220	27.6	349.9	68,000	147,100	43.3	377.3	47,200	131,400	54.8	388.5	116,000	220
225	22.9	338.5	64,900	142,700	40.4	371.4	44,700	127,400	52.4	384.5	112,400	225
230	17.0	323.4	61,800	138,400	37.3	364.8	42,300	123,500	50.0	380.3	108,900	230
235	6.4	295.2	58,400	134,000	34.0	357.4	40,000	119,800	47.4	375.6	105,600	235
240					30.4	348.9	37,800	116,300	44.8	370.5	102,400	240
250					21.3	326.6	33,400	109,500	39.0	358.7	96,300	250
260									32.4	343.9	90,700	260
270									24.1	323.9	85,400	270
280									10.0	287.5	80,200	280

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb

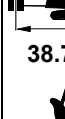
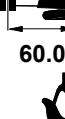
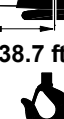
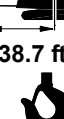
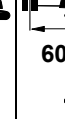


	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
80	74.8	448.8	313,300 b	313,300 b									80
85	73.0	447.2	313,200	313,200									85
90	71.2	445.4	312,200	312,200									90
95	69.3	443.4	310,700	310,700	72.9	446.0	312,700	312,700					95
100	67.4	441.3	308,600	308,600	71.1	444.2	306,100	312,700					100
105	65.5	439.0	306,100	306,100	69.2	442.2	288,100	312,700					105
110	63.5	436.4	290,700	303,000	67.3	440.1	271,800	312,600					110
115	61.5	433.6	274,900	298,500	65.4	437.7	257,000	311,400					115
120	59.5	430.6	260,600	287,400	63.4	435.2	243,400	309,700	69.1	439.7	217,900	309,300	120
125	57.4	427.3	247,400	276,300	61.4	432.4	231,000	307,600	67.2	437.5	206,500	309,300	125
130	55.2	423.8	235,300	265,400	59.4	429.3	219,500	305,300	65.2	435.2	196,100	309,300	130
135	53.0	420.0	224,100	254,700	57.3	426.1	208,900	298,400	63.3	432.6	186,400	298,600	135
140	50.8	415.8	213,600	244,400	55.2	422.5	199,100	287,600	61.3	429.8	177,400	286,000	140
145	48.4	411.4	204,000	234,500	53.0	418.7	190,000	276,700	59.2	426.7	169,100	274,200	145
150	46.0	406.5	194,900	225,100	50.7	414.5	181,500	266,100	57.1	423.5	161,400	263,200	150
155	43.4	401.1	186,500	216,300	48.3	410.0	173,500	255,700	55.0	419.9	154,100	253,000	155
160	40.8	395.3	178,500	208,100	45.9	405.1	166,000	245,700	52.8	416.0	147,300	243,400	160
165	37.9	388.8	171,100	200,700	43.3	399.8	159,000	236,200	50.5	411.8	140,900	234,400	165
170	34.8	381.7	164,000	193,900	40.6	393.9	152,400	227,300	48.2	407.3	134,900	226,000	170
175	31.5	373.5	157,400	188,000	37.8	387.4	146,100	219,000	45.7	402.4	129,200	218,000	175
180	27.8	364.2	151,000	183,000	34.7	380.2	140,200	211,400	43.1	397.0	123,800	210,600	180
185	23.5	353.0	145,000	179,300	31.4	372.0	134,500	204,600	40.4	391.1	118,700	203,500	185
190	18.3	338.8	139,100	177,500	27.7	362.6	129,100	198,900	37.6	384.5	113,800	196,800	190
195	10.4	316.7	133,300	177,500	23.3	351.4	124,000	194,400	34.5	377.3	109,200	190,400	195
200					18.0	337.0	118,900	191,700	31.1	369.0	104,800	184,300	200
205					9.9	314.2	113,900	181,700	27.3	359.5	100,500	178,600	205
210									23.0	348.0	96,400	173,100	210
215									17.5	333.3	92,400	167,800	215
220									8.9	309.1	88,200	162,600	220
225													225
230													230
235													235
240													240
250													250
260													260
270													270
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MLC650 VPC-MAX S-2

ASME B30.5



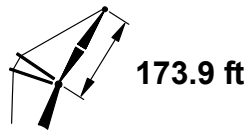
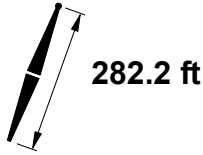
 75°	 70°				 65°							
	 ft	 °	 ft	 lb	 lb	 ft	 lb	 lb		 ft	 lb	 lb
80												80
85												85
90												90
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155	64.9	429.1	122,100	229,200								155
160	62.9	426.4	116,400	220,400								160
165	60.9	423.6	111,000	212,100								165
170	58.8	420.5	106,000	204,400								170
175	56.7	417.2	101,200	197,100								175
180	54.6	413.5	96,700	190,200								180
185	52.3	409.6	92,400	183,700								185
190	50.1	405.4	88,300	177,600								190
195	47.7	400.8	84,400	171,700	58.2	411.8	60,000	153,500				195
200	45.2	395.7	80,800	166,200	56.0	408.4	57,000	148,500				200
205	42.6	390.3	77,300	160,900	53.9	404.7	54,100	143,700				205
210	39.9	384.2	73,900	155,900	51.6	400.6	51,400	139,100				210
215	37.0	377.6	70,700	151,100	49.3	396.3	48,800	134,800				215
220	33.8	370.1	67,600	146,600	46.9	391.6	46,300	130,600				220
225	30.4	361.6	64,600	142,200	44.4	386.4	43,900	126,600				225
230	26.5	351.8	61,600	138,000	41.8	380.8	41,600	122,800	52.8	393.1	108,000	230
235	22.0	339.9	58,800	133,900	39.0	374.5	39,300	119,100	50.6	389.0	104,700	235
240	16.2	324.1	55,900	129,900	36.0	367.6	37,100	115,600	48.2	384.4	101,500	240
250					29.2	351.1	33,000	109,000	43.2	374.1	95,600	250
260					20.4	327.8	28,900	102,800	37.6	361.7	90,000	260
270									31.2	346.3	84,800	270
280									23.1	325.4	79,900	280
290									9.3	287.1	75,100	290

MLC650 VPC-MAX S-2

ASME B30.5



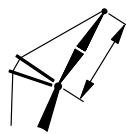
661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
85	74.0	457.5	293,000	293,000									85
90	72.3	455.9	292,700	292,700									90
95	70.5	454.0	291,700	291,700									95
100	68.7	452.0	290,200	290,200	72.2	454.6	292,400	292,400					100
105	67.0	449.8	288,400	288,400	70.5	452.8	285,300	292,400					105
110	65.1	447.5	285,800	285,800	68.7	450.8	269,000	292,400					110
115	63.3	444.9	272,400	283,100	66.9	448.6	254,200	292,100					115
120	61.4	442.1	258,100	277,600	65.1	446.2	240,700	291,000					120
125	59.5	439.1	245,000	267,600	63.2	443.6	228,300	289,500	68.5	448.3	203,500	288,800	125
130	57.5	435.8	232,800	257,600	61.3	440.8	216,900	287,800	66.7	446.1	193,000	288,800	130
135	55.5	432.3	221,700	247,800	59.4	437.8	206,300	285,900	64.9	443.7	183,400	288,800	135
140	53.4	428.6	211,300	238,100	57.4	434.6	196,500	278,900	63.1	441.1	174,500	283,400	140
145	51.3	424.5	201,600	228,700	55.4	431.1	187,400	269,100	61.2	438.3	166,200	271,700	145
150	49.1	420.1	192,600	219,700	53.3	427.3	178,900	259,200	59.2	435.2	158,500	260,800	150
155	46.8	415.4	184,200	211,100	51.2	423.2	171,000	249,600	57.3	432.0	151,300	250,600	155
160	44.5	410.2	176,300	203,000	49.0	418.8	163,600	240,100	55.3	428.4	144,500	241,000	160
165	42.0	404.7	168,900	195,300	46.8	414.0	156,600	231,000	53.2	424.6	138,200	232,100	165
170	39.4	398.5	161,900	188,300	44.4	408.9	150,000	222,300	51.1	420.5	132,200	223,700	170
175	36.6	391.8	155,300	181,900	41.9	403.3	143,800	214,000	48.9	416.1	126,500	215,800	175
180	33.7	384.3	149,000	176,100	39.3	397.1	137,900	206,200	46.6	411.3	121,200	208,300	180
185	30.4	375.8	143,100	171,000	36.5	390.4	132,300	199,000	44.2	406.1	116,100	201,300	185
190	26.8	366.1	137,400	166,900	33.6	382.8	127,000	192,500	41.7	400.5	111,300	194,600	190
195	22.7	354.5	132,000	163,900	30.3	374.3	122,000	186,700	39.1	394.3	106,800	188,300	195
200	17.5	339.6	126,700	162,600	26.7	364.5	117,100	181,800	36.3	387.5	102,400	182,300	200
205	9.6	316.3	121,400	162,600	22.5	352.8	112,400	178,000	33.3	379.9	98,200	176,500	205
210					17.3	337.8	107,900	175,900	30.0	371.3	94,200	171,100	210
215					9.2	313.8	103,200	165,400	26.4	361.4	90,400	165,900	215
220									22.1	349.4	86,600	160,900	220
225									16.8	334.1	82,900	156,100	225
230									8.2	308.4	79,100	151,300	230
235													235
240													240
250													250
260													260
270													270
280													280
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300													300

MLC650 VPC-MAX S-2

ASME B30.5



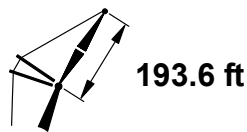
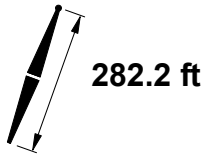
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
85												85
90												90
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160	64.5	437.6	113,100	217,700								160
165	62.7	434.9	107,800	209,500								165
170	60.8	432.1	102,800	201,800								170
175	58.9	429.0	98,100	194,600								175
180	56.9	425.7	93,600	187,700								180
185	54.9	422.1	89,300	181,300								185
190	52.8	418.2	85,300	175,100								190
195	50.6	414.1	81,500	169,400								195
200	48.4	409.6	77,900	163,900	58.2	420.3	53,700	145,900				200
205	46.1	404.7	74,400	158,600	56.3	416.9	50,900	141,100				205
210	43.7	399.4	71,100	153,600	54.2	413.2	48,200	136,600				210
215	41.2	393.7	67,900	148,900	52.1	409.3	45,600	132,200				215
220	38.6	387.4	64,900	144,300	49.9	405.0	43,100	128,100				220
225	35.7	380.4	61,900	140,000	47.7	400.4	40,800	124,200				225
230	32.7	372.7	59,100	135,800	45.4	395.4	38,500	120,400				230
235	29.4	363.8	56,400	131,800	43.0	390.0	36,300	116,800	53.2	401.7	102,100	235
240	25.6	353.6	53,700	128,000	40.4	384.1	34,200	113,300	51.1	397.6	99,000	240
250	15.5	324.7	48,400	120,600	34.8	370.4	30,200	106,700	46.6	388.5	93,100	250
260					28.2	353.1	26,400	100,600	41.8	377.6	87,600	260
270					19.6	328.9	22,600	94,900	36.4	364.7	82,500	270
280									30.1	348.5	77,700	280
290									22.3	326.8	73,200	290
300									8.5	286.5	68,700	300

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
90	74.1	476.6	255,700	255,700									90
95	72.6	474.9	255,600	255,600									95
100	71.0	473.2	255,000	255,000									100
105	69.4	471.2	254,100	254,100	72.5	473.7	254,400	254,400					105
110	67.8	469.2	252,900	252,900	71.0	472.0	254,400	254,400					110
115	66.2	466.9	251,300	251,300	69.4	470.0	250,500	254,400					115
120	64.6	464.5	249,400	249,400	67.8	467.9	237,100	254,400					120
125	62.9	461.8	241,800	247,300	66.1	465.7	224,700	254,300					125
130	61.2	459.0	229,700	242,200	64.5	463.2	213,300	253,500	69.2	467.5	189,000	249,700	130
135	59.5	456.0	218,500	234,200	62.8	460.6	202,800	252,500	67.6	465.4	179,400	249,700	135
140	57.7	452.8	208,200	226,000	61.1	457.8	193,100	251,200	66.0	463.1	170,600	249,700	140
145	55.9	449.4	198,600	218,000	59.4	454.8	184,000	249,800	64.4	460.7	162,400	249,700	145
150	54.1	445.7	189,700	210,000	57.6	451.6	175,600	245,500	62.7	458.0	154,700	249,700	150
155	52.2	441.8	181,300	202,200	55.8	448.1	167,700	237,500	61.0	455.2	147,500	247,200	155
160	50.3	437.6	173,400	194,700	54.0	444.4	160,300	229,500	59.3	452.2	140,800	237,700	160
165	48.3	433.1	166,100	187,400	52.1	440.5	153,400	221,500	57.5	448.9	134,500	228,800	165
170	46.2	428.2	159,200	180,400	50.2	436.3	146,900	213,600	55.7	445.5	128,600	220,500	170
175	44.1	423.0	152,600	173,900	48.2	431.7	140,700	206,000	53.9	441.8	123,000	212,600	175
180	41.8	417.4	146,400	167,600	46.1	426.9	134,900	198,500	52.0	437.8	117,700	205,200	180
185	39.5	411.3	140,600	161,800	44.0	421.7	129,400	191,400	50.0	433.6	112,700	198,300	185
190	37.0	404.7	135,000	156,500	41.8	416.0	124,200	184,600	48.0	429.0	108,000	191,600	190
195	34.4	397.4	129,700	151,700	39.4	409.9	119,200	178,200	46.0	424.1	103,500	185,400	195
200	31.6	389.3	124,700	147,300	36.9	403.2	114,500	172,200	43.8	418.9	99,200	179,400	200
205	28.5	380.2	119,900	143,600	34.3	395.9	110,000	166,700	41.6	413.2	95,100	173,700	205
210	25.1	369.7	115,200	140,500	31.5	387.8	105,700	161,700	39.2	407.1	91,200	168,400	210
215	21.1	357.2	110,800	138,400	28.4	378.6	101,500	157,300	36.8	400.3	87,500	163,200	215
220	16.1	341.1	106,400	137,700	25.0	368.1	97,500	153,600	34.1	393.0	83,900	158,300	220
225	8.3	315.2	101,900	136,600	20.9	355.5	93,600	150,900	31.3	384.8	80,500	153,600	225
230					15.9	339.2	89,800	149,500	28.2	375.5	77,100	149,100	230
235					7.8	312.4	85,900	138,900	24.7	364.8	73,900	144,800	235
240									20.6	352.0	70,800	140,600	240
250									6.7	306.4	64,300	132,600	250
260													260
270													270
280													280
290													290
300													300
310													310
320													320

MLC650 VPC-MAX S-2

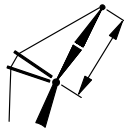
ASME B30.5



661,300 lb



282.2 ft



193.6 ft

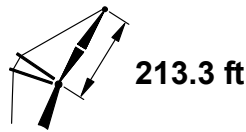
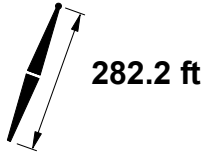
	75°				70°				65°			
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	ft
90												90
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170	64.0	454.6	98,500	198,200								170
175	62.4	451.9	93,800	191,000								175
180	60.7	449.0	89,400	184,200								180
185	58.9	446.0	85,200	177,800								185
190	57.1	442.7	81,300	171,800								190
195	55.3	439.2	77,500	166,000								195
200	53.5	435.4	73,900	160,600								200
205	51.6	431.4	70,500	155,400								205
210	49.6	427.1	67,300	150,500	58.4	437.3	43,800	133,000				210
215	47.6	422.5	64,200	145,800	56.6	433.9	41,300	128,800				215
220	45.5	417.5	61,200	141,300	54.8	430.3	38,900	124,700				220
225	43.4	412.2	58,400	137,000	52.9	426.5	36,600	120,800				225
230	41.1	406.4	55,600	132,900	51.0	422.4	34,400	117,100				230
235	38.8	400.2	53,000	129,000	49.0	418.0	32,300	113,500				235
240	36.2	393.3	50,500	125,200	47.0	413.3	30,200	110,100				240
250	30.7	377.4	45,600	118,100	42.7	402.8	26,300	103,600	52.0	414.9	89,600	250
260	23.9	356.9	41,100	111,500	38.0	390.4	22,700	97,700	48.1	406.2	84,200	260
270	14.2	325.7	36,600	105,200	32.7	375.6		92,100	43.9	396.0	79,200	270
280					26.4	357.0		86,900	39.3	384.2	74,600	280
290					18.2	330.9		82,000	34.2	370.2	70,200	290
300									28.2	352.8	66,100	300
310									20.7	329.4	62,200	310
320									7.1	284.8	58,200	320

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



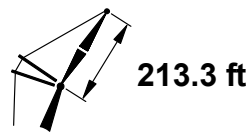
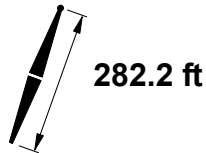
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
95	74.2	495.6	223,800	223,800									95
100	72.8	494.0	223,600	223,600									100
105	71.4	492.3	223,200	223,200									105
110	70.0	490.4	222,500	222,500	72.8	492.8	222,600	222,600					110
115	68.5	488.4	221,500	221,500	71.4	491.1	222,600	222,600					115
120	67.1	486.2	220,300	220,300	69.9	489.2	222,600	222,600					120
125	65.6	483.9	218,900	218,900	68.5	487.2	221,100	222,600					125
130	64.1	481.5	217,300	217,300	67.0	485.0	209,800	222,600					130
135	62.6	478.8	215,400	215,400	65.5	482.7	199,300	222,100	69.8	486.7	175,500	217,500	135
140	61.0	476.0	205,100	211,300	64.0	480.2	189,600	221,300	68.4	484.7	166,700	217,500	140
145	59.5	473.0	195,500	204,600	62.5	477.6	180,600	220,400	66.9	482.5	158,500	217,500	145
150	57.9	469.8	186,600	198,000	61.0	474.7	172,200	219,300	65.4	480.2	150,900	217,500	150
155	56.3	466.4	178,200	191,400	59.4	471.7	164,400	218,100	63.9	477.7	143,800	217,500	155
160	54.6	462.8	170,400	184,800	57.8	468.5	157,000	215,700	62.4	475.0	137,100	217,500	160
165	52.9	459.0	163,100	178,400	56.2	465.1	150,100	209,100	60.9	472.2	130,800	217,500	165
170	51.2	454.9	156,200	172,100	54.5	461.5	143,600	202,600	59.3	469.1	124,900	217,300	170
175	49.4	450.6	149,700	166,100	52.8	457.7	137,500	196,000	57.7	465.9	119,400	209,500	175
180	47.6	446.0	143,600	160,100	51.1	453.6	131,800	189,500	56.1	462.5	114,200	202,100	180
185	45.7	441.0	137,800	154,600	49.3	449.3	126,300	183,100	54.4	458.9	109,200	195,200	185
190	43.7	435.8	132,300	149,200	47.5	444.6	121,100	176,900	52.7	455.0	104,500	188,600	190
195	41.7	430.1	127,000	144,100	45.6	439.7	116,200	170,900	51.0	450.9	100,100	182,400	195
200	39.6	424.1	122,100	139,400	43.7	434.4	111,500	165,100	49.2	446.6	95,800	176,500	200
205	37.4	417.5	117,300	135,000	41.6	428.8	107,100	159,500	47.4	441.9	91,800	170,800	205
210	35.0	410.4	112,800	131,000	39.5	422.7	102,800	154,200	45.5	437.0	87,900	165,500	210
215	32.5	402.5	108,500	127,200	37.3	416.1	98,800	149,200	43.5	431.6	84,300	160,400	215
220	29.9	393.9	104,300	123,900	34.9	408.9	94,900	144,600	41.5	425.9	80,800	155,500	220
225	26.9	384.1	100,300	121,100	32.4	401.1	91,100	140,400	39.3	419.8	77,400	150,900	225
230	23.6	372.9	96,400	118,900	29.7	392.4	87,600	136,500	37.1	413.2	74,200	146,400	230
235	19.8	359.6	92,700	117,400	26.8	382.6	84,100	133,200	34.8	406.0	71,100	142,200	235
240	15.0	342.3	89,000	117,100	23.5	371.3	80,700	130,400	32.2	398.1	68,100	138,100	240
250					14.7	340.4	74,200	127,600	26.5	379.4	62,400	130,400	250
260									19.3	354.3	56,900	123,200	260
270									5.3	303.3	51,300	116,300	270
280													280
290													290
300													300
310													310
320													320
330													330
340													340

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



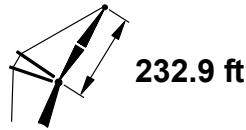
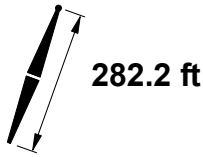
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
95												95
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180	63.6	471.5	85,200	180,700								180
185	62.1	468.8	81,100	174,400								185
190	60.5	466.0	77,200	168,400								190
195	59.0	462.9	73,500	162,700								195
200	57.4	459.7	70,000	157,300								200
205	55.7	456.2	66,600	152,100								205
210	54.1	452.5	63,400	147,300								210
215	52.4	448.6	60,400	142,600								215
220	50.6	444.5	57,400	138,200	58.5	454.2	121,200					220
225	48.8	440.1	54,600	133,900	56.9	450.9	117,400					225
230	47.0	435.4	52,000	129,900	55.2	447.4	113,700					230
235	45.1	430.3	49,400	126,000	53.5	443.7	110,200					235
240	43.1	424.9	46,900	122,300	51.8	439.7	106,800					240
250	38.9	412.9	42,200	115,200	48.3	430.9	100,400	52.8	432.1	80,800		250
260	34.3	398.9	37,900	108,800	44.5	421.0	94,600	49.2	423.7	75,900		260
270	29.0	381.8	33,800	102,700	40.4	409.6	89,100	45.5	414.1	71,300		270
280	22.5	359.9	29,800	97,100	35.9	396.3	84,000	41.5	403.1	67,100		280
290	13.1	326.4	25,900	91,700	30.9	380.4	79,300					290
300					24.9	360.6	74,800	37.2	390.4	63,100		300
310					16.9	332.7	70,500	32.3	375.3	59,300		310
320								26.6	356.7	55,700		320
330								19.4	331.7	52,300		330
340								5.8	282.1	48,800		340

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



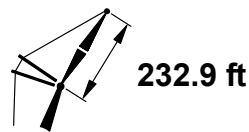
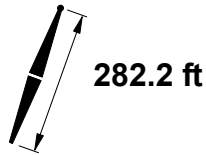
	85°				83°				80°				
	ft	°	ft	lb	lb	ft	lb	lb	ft	lb	lb	ft	
100	74.3	514.7	204,000	204,000									100
105	73.0	513.1	203,800	203,800									105
110	71.8	511.4	203,300	203,300									110
115	70.4	509.6	202,600	202,600	73.0	511.9	202,300	202,300					115
120	69.1	507.6	201,800	201,800	71.7	510.2	202,300	202,300					120
125	67.8	505.5	200,900	200,900	70.4	508.4	202,300	202,300					125
130	66.4	503.3	199,700	199,700	69.1	506.4	202,300	202,300					130
135	65.1	501.0	198,400	198,400	67.7	504.3	193,300	202,300					135
140	63.7	498.4	197,000	197,000	66.4	502.1	183,700	202,000					140
145	62.3	495.8	190,100	194,400	65.0	499.7	174,700	201,400	69.0	503.9	151,900	197,700	145
150	60.9	492.9	181,200	188,600	63.7	497.2	166,400	200,700	67.6	501.8	144,400	197,700	150
155	59.5	490.0	172,900	182,900	62.3	494.5	158,600	199,800	66.3	499.6	137,300	197,700	155
160	58.0	486.8	165,100	177,200	60.8	491.7	151,300	198,800	64.9	497.2	130,700	197,700	160
165	56.5	483.4	157,800	171,500	59.4	488.7	144,400	197,800	63.5	494.6	124,500	197,700	165
170	55.0	479.9	151,000	165,900	58.0	485.5	138,000	194,000	62.1	492.0	118,700	197,700	170
175	53.5	476.1	144,500	160,400	56.5	482.2	131,900	188,300	60.7	489.1	113,200	197,700	175
180	51.9	472.2	138,400	155,000	55.0	478.6	126,200	182,700	59.3	486.1	108,100	197,100	180
185	50.3	468.0	132,700	149,700	53.4	474.9	120,800	177,100	57.8	482.9	103,200	190,300	185
190	48.7	463.6	127,200	144,600	51.9	470.9	115,700	171,500	56.4	479.5	98,500	183,800	190
195	47.0	458.9	122,000	139,800	50.3	466.7	110,800	166,000	54.8	476.0	94,100	177,600	195
200	45.2	453.9	117,100	135,100	48.6	462.2	106,200	160,600	53.3	472.2	89,900	171,700	200
205	43.4	448.5	112,400	130,600	46.9	457.5	101,800	155,400	51.7	468.2	86,000	166,200	205
210	41.6	442.9	107,900	126,400	45.2	452.5	97,600	150,300	50.1	464.0	82,200	160,900	210
215	39.7	436.8	103,700	122,400	43.4	447.2	93,600	145,400	48.5	459.5	78,600	155,800	215
220	37.6	430.3	99,600	118,700	41.5	441.5	89,800	140,700	46.8	454.8	75,100	151,000	220
225	35.5	423.3	95,700	115,200	39.6	435.4	86,100	136,300	45.0	449.8	71,800	146,400	225
230	33.3	415.7	91,900	112,000	37.6	428.9	82,600	132,000	43.2	444.4	68,600	142,000	230
235	30.9	407.4	88,300	109,200	35.4	421.9	79,200	128,100	41.4	438.7	65,600	137,800	235
240	28.3	398.2	84,900	106,700	33.2	414.2	76,000	124,400	39.4	432.6	62,700	133,700	240
250	22.3	375.9	78,200	103,000	28.2	396.6	69,800	118,100	35.3	418.9	57,200	126,100	250
260	13.9	343.3	71,900	102,100	22.2	374.3	64,000	113,500	30.6	402.8	52,000	119,100	260
270					13.7	341.3	58,500	111,700	25.1	383.0	47,200	112,600	270
280									18.1	356.3	42,500	106,400	280
290									3.6	298.4	37,500	96,800	290
300													300
310													310
320													320
330													330
340													340
350													350
360													360

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



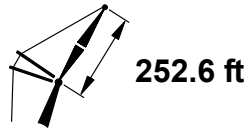
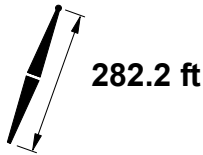
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
100												100
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185	64.7	491.1	74,200	168,800								185
190	63.3	488.5	70,300	162,900								190
195	61.9	485.8	66,700	157,300								195
200	60.5	482.9	63,200	152,000								200
205	59.0	479.9	59,900	146,900								205
210	57.6	476.7	56,800	142,100								210
215	56.1	473.2	53,800	137,500								215
220	54.5	469.6	51,000	133,100								220
225	53.0	465.8	48,200	128,900								225
230	51.4	461.8	45,600	124,900	58.6	471.2	108,200					230
235	49.8	457.5	43,100	121,100	57.1	467.9	104,700					235
240	48.1	453.0	40,700	117,400	55.6	464.5	101,400					240
250	44.7	443.1	36,200	110,500	52.5	456.9	95,200					250
260	41.0	431.9	31,900	104,100	49.3	448.5	89,400					260
270	37.0	419.1	28,000	98,200	45.9	439.0	84,100	53.3	449.3	70,400		270
280	32.6	404.1	24,300	92,600	42.3	428.2	79,100	50.2	441.1	66,000		280
290	27.5	386.0	20,800	87,500	38.4	416.0	74,500	46.8	431.9	61,800		290
300	21.2	362.7		82,600	34.1	401.8	70,100	43.3	421.6	57,900		300
310	12.0	326.7		77,900	29.3	384.9	66,000	39.5	409.8	54,300		310
320					23.6	363.8	62,100	35.3	396.2	50,800		320
330					15.8	334.1	58,400	30.7	380.1	47,600		330
340								25.2	360.3	44,400		340
350								18.2	333.8	41,400		350
360								4.3	278.1	38,300		360

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



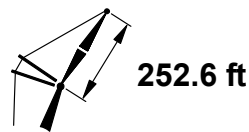
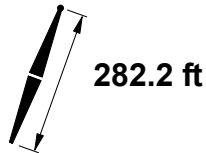
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
105	74.4	533.7	177,800	177,800									105
110	73.2	532.2	177,400	177,400									110
115	72.0	530.5	177,100	177,100									115
120	70.8	528.7	176,600	176,600									120
125	69.6	526.8	175,900	175,900	72.0	529.3	176,100	176,100					125
130	68.4	524.8	175,200	175,200	70.8	527.5	176,100	176,100					130
135	67.2	522.7	174,300	174,300	69.6	525.6	176,100	176,100					135
140	65.9	520.4	173,400	173,400	68.3	523.6	175,900	175,900					140
145	64.7	518.0	172,400	172,400	67.1	521.4	171,000	175,600					145
150	63.4	515.4	171,300	171,300	65.9	519.1	162,700	175,200	69.5	523.1	140,300	171,200	150
155	62.1	512.7	169,600	170,200	64.6	516.7	155,000	174,600	68.2	521.1	133,300	171,200	155
160	60.8	509.9	161,800	166,300	63.3	514.2	147,700	174,000	67.0	518.9	126,800	171,200	160
165	59.5	506.9	154,600	161,600	62.0	511.5	140,900	173,300	65.8	516.6	120,600	171,200	165
170	58.1	503.8	147,700	156,900	60.7	508.6	134,500	172,600	64.5	514.2	114,800	171,200	170
175	56.8	500.4	141,300	152,200	59.4	505.6	128,500	171,800	63.2	511.6	109,400	171,200	175
180	55.4	497.0	135,200	147,500	58.1	502.5	122,800	170,900	61.9	508.9	104,200	171,200	180
185	54.0	493.3	129,500	142,900	56.7	499.2	117,400	167,200	60.6	506.1	99,400	171,200	185
190	52.5	489.4	124,100	138,400	55.3	495.7	112,300	162,600	59.3	503.1	94,800	171,200	190
195	51.1	485.3	118,900	134,000	53.9	492.0	107,500	158,100	58.0	499.9	90,400	171,200	195
200	49.6	481.0	114,000	129,700	52.5	488.1	102,900	153,500	56.6	496.5	86,300	168,600	200
205	48.1	476.5	109,400	125,500	51.0	484.0	98,500	148,800	55.2	493.0	82,300	163,100	205
210	46.5	471.7	104,900	121,500	49.5	479.7	94,300	144,300	53.8	489.3	78,600	157,800	210
215	44.9	466.7	100,700	117,600	48.0	475.2	90,400	139,900	52.4	485.4	75,000	152,800	215
220	43.2	461.3	96,600	113,900	46.4	470.4	86,600	135,600	50.9	481.3	71,600	148,000	220
225	41.5	455.6	92,800	110,300	44.8	465.3	82,900	131,400	49.4	477.0	68,300	143,500	225
230	39.7	449.6	89,100	107,000	43.1	459.9	79,500	127,300	47.9	472.5	65,200	139,100	230
235	37.9	443.1	85,500	103,800	41.4	454.2	76,100	123,300	46.3	467.6	62,200	134,900	235
240	35.9	436.2	82,100	100,800	39.6	448.2	72,900	119,600	44.7	462.5	59,300	130,900	240
250	31.7	420.7	75,600	95,600	35.9	434.8	66,900	112,700	41.3	451.4	53,900	123,400	250
260	27.0	402.2	69,600	91,400	31.7	419.2	61,300	106,700	37.6	438.8	48,800	116,400	260
270	21.2	378.7	64,000	88,700	26.9	400.6	56,100	101,700	33.7	424.4	44,100	109,900	270
280	13.0	344.0	58,500	88,000	21.0	377.0	51,100	98,100	29.2	407.3	39,700	103,900	280
290					12.8	341.9	46,200	93,900	23.9	386.4	35,500	98,300	290
300									17.1	358.1	31,500	93,000	300
310													310
320													320
330													330
340													340
350													350
360													360
370													370
380													380

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



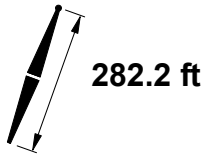
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
105												105
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195	64.3	508.1	62,400	153,800								195
200	63.0	505.5	59,000	148,500								200
205	61.7	502.8	55,800	143,500								205
210	60.4	499.9	52,700	138,700								210
215	59.1	496.8	49,700	134,200								215
220	57.7	493.6	46,900	129,800								220
225	56.3	490.3	44,200	125,700								225
230	54.9	486.7	41,700	121,700								230
235	53.5	483.0	39,200	117,900	60.0	491.3	101,300					235
240	52.1	479.0	36,800	114,200	58.6	488.2	98,000					240
250	49.1	470.5	32,400	107,400	55.9	481.5	91,800					250
260	46.0	461.1	28,200	101,100	53.1	474.1	86,100					260
270	42.7	450.4	24,400	95,200	50.1	465.9	80,900					270
280	39.1	438.5	20,800	89,800	47.1	456.7	75,900	53.8	466.4	62,500		280
290	35.3	424.8		84,700	43.8	446.6	71,400	50.9	458.5	58,500		290
300	31.0	408.9		79,900	40.4	435.1	67,100	47.9	449.6	54,600		300
310	26.1	389.8		75,500	36.7	422.1	63,100	44.7	439.7	51,000		310
320	20.1	365.2		71,200	32.6	407.0	59,300	41.3	428.6	47,700		320
330	11.1	326.8		67,100	27.9	389.2	55,700	37.7	416.0	44,500		330
340					22.4	366.8	52,300	33.7	401.6	41,500		340
350					14.9	335.3	49,000	29.2	384.6	38,600		350
360								24.0	363.7	35,900		360
370								17.2	335.6	33,200		370
380								2.1	269.8	30,300		380

MLC650 VPC-MAX S-2

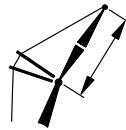
ASME B30.5



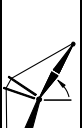
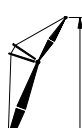
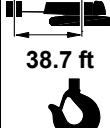
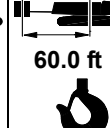
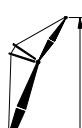
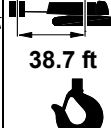
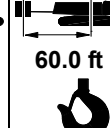
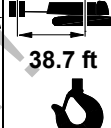
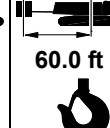
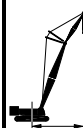
661,300 lb



282.2 ft



272.3 ft

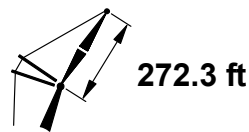
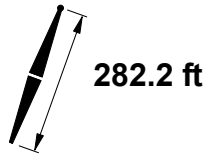
	 85°					 83°					 80°					
																
	ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft		
110	74.5	552.8	156,800	156,800										110		
115	73.4	551.2	156,500	156,500										115		
120	72.3	549.6	156,100	156,100										120		
125	71.2	547.8	155,400	155,400										125		
130	70.0	546.0	154,800	154,800	72.2	548.4	155,200	155,200						130		
135	68.9	544.0	154,200	154,200	71.1	546.6	154,900	154,900						135		
140	67.8	541.9	153,400	153,400	70.0	544.8	154,800	154,800						140		
145	66.6	539.7	152,600	152,600	68.9	542.8	154,600	154,600						145		
150	65.5	537.4	151,800	151,800	67.7	540.7	154,400	154,400						150		
155	64.3	535.0	150,900	150,900	66.6	538.5	152,600	154,000	69.9	542.3	130,500	150,500		155		
160	63.1	532.4	150,000	150,000	65.4	536.2	145,400	153,600	68.8	540.3	124,000	150,500		160		
165	61.9	529.7	149,100	149,100	64.2	533.7	138,600	153,100	67.6	538.2	117,900	150,500		165		
170	60.7	526.9	145,700	146,400	63.1	531.2	132,200	152,500	66.5	536.0	112,200	150,500		170		
175	59.5	523.9	139,300	142,500	61.9	528.4	126,200	151,900	65.3	533.7	106,800	150,500		175		
180	58.2	520.7	133,200	138,600	60.6	525.6	120,500	151,300	64.1	531.2	101,700	150,500		180		
185	57.0	517.4	127,500	134,700	59.4	522.6	115,200	150,600	63.0	528.6	96,900	150,500		185		
190	55.7	514.0	122,100	130,800	58.2	519.5	110,100	149,900	61.8	525.9	92,300	150,500		190		
195	54.4	510.4	117,000	127,000	56.9	516.2	105,300	148,300	60.6	523.0	88,000	150,500		195		
200	53.1	506.6	112,100	123,100	55.6	512.7	100,800	144,400	59.3	520.0	83,900	150,500		200		
205	51.7	502.6	107,500	119,500	54.3	509.1	96,400	140,600	58.1	516.9	79,900	150,500		205		
210	50.4	498.4	103,100	115,800	53.0	505.3	92,300	136,800	56.8	513.6	76,200	150,500		210		
215	49.0	494.0	98,900	112,200	51.7	501.3	88,300	132,900	55.5	510.1	72,700	150,500		215		
220	47.5	489.4	94,900	108,800	50.3	497.1	84,600	129,100	54.2	506.4	69,300	146,000		220		
225	46.1	484.6	91,000	105,500	48.9	492.7	81,000	125,400	52.9	502.6	66,100	141,500		225		
230	44.6	479.4	87,300	102,300	47.5	488.1	77,500	121,700	51.6	498.6	63,000	137,100		230		
235	43.0	474.1	83,800	99,200	46.0	483.2	74,200	118,200	50.2	494.4	60,000	133,000		235		
240	41.4	468.4	80,400	96,300	44.5	478.1	71,100	114,700	48.8	490.0	57,100	129,000		240		
250	38.1	455.9	74,100	90,800	41.3	467.0	65,100	108,100	45.9	480.5	51,800	121,500		250		
260	34.4	441.8	68,200	86,000	38.0	454.5	59,600	102,000	42.8	469.9	46,800	114,600		260		
270	30.4	425.4	62,700	81,900	34.3	440.4	54,500	96,400	39.6	458.1	42,200	108,200		270		
280	25.8	405.9	57,500	78,600	30.3	424.0	49,700	91,600	36.1	444.8	37,900	102,300		280		
290	20.2	381.2	52,600	76,500	25.7	404.4	45,100	87,700	32.2	429.5	33,800	96,800		290		
300	12.1	344.4	47,800	76,200	20.0	379.5	40,800	85,000	27.9	411.5	30,000	91,600		300		
310					11.9	342.3	36,600	79,200	22.8	389.5	26,400	86,700		310		
320									16.2	359.7	22,800	82,000		320		
330														330		
340														340		
350														350		
360														360		
370														370		
380														380		
390														390		

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



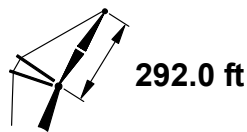
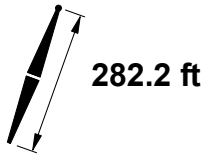
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
110												110
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205	63.9	525.1	52,900	141,000								205
210	62.7	522.5	49,800	136,300								210
215	61.5	519.7	46,900	131,800								215
220	60.3	516.8	44,200	127,500								220
225	59.1	513.8	41,500	123,400								225
230	57.8	510.6	39,000	119,400								230
235	56.6	507.3	36,500	115,700								235
240	55.3	503.8	34,200	112,100								240
250	52.7	496.2	29,800	105,300	58.7	505.1	89,500					250
260	49.9	488.0	25,800	99,000	56.2	498.5	83,800					260
270	47.1	478.8	22,000	93,200	53.6	491.2	78,600					270
280	44.1	468.7		87,900	50.9	483.2	73,800					280
290	40.9	457.4		82,800	48.1	474.4	69,300	54.3	483.6	56,100		290
300	37.5	444.7		78,100	45.1	464.6	65,000	51.6	475.7	52,300		300
310	33.8	430.3		73,700	42.0	453.7	61,100	48.8	467.1	48,800		310
320	29.7	413.5		69,600	38.7	441.6	57,400	45.9	457.6	45,500		320
330	25.0	393.4		65,700	35.1	427.8	53,900	42.9	447.1	42,400		330
340	19.1	367.5		61,900	31.2	411.9	50,500	39.6	435.3	39,400		340
350	10.3	326.7		58,300	26.7	393.1	47,400	36.1	422.0	36,600		350
360					21.3	369.6	44,400	32.3	406.7	34,000		360
370					14.0	336.3	41,400	28.0	388.8	31,500		370
380								22.9	366.9	29,000		380
390								16.3	337.2	26,600		390

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



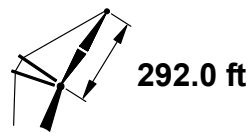
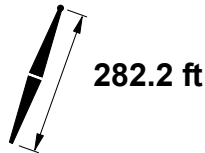
	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
115	74.5	571.8	146,000	146,000									115
120	73.5	570.3	145,600	145,600									120
125	72.5	568.7	145,200	145,200									125
130	71.4	567.0	144,700	144,700									130
135	70.4	565.1	144,100	144,100	72.4	567.5	144,400	144,400					135
140	69.3	563.2	143,500	143,500	71.4	565.7	144,300	144,300					140
145	68.3	561.2	142,700	142,700	70.4	563.9	144,100	144,100					145
150	67.2	559.1	142,000	142,000	69.3	562.0	143,900	143,900					150
155	66.1	556.8	141,100	141,100	68.2	560.0	143,600	143,600					155
160	65.1	554.5	140,300	140,300	67.2	557.8	143,200	143,200					160
165	64.0	552.0	139,400	139,400	66.1	555.6	142,700	142,700	69.2	559.5	108,600	140,100	165
170	62.9	549.4	137,800	138,400	65.0	553.2	142,200	142,200	68.2	557.5	102,900	140,100	170
175	61.7	546.7	131,400	135,600	63.9	550.7	141,700	141,700	67.1	555.3	97,600	140,100	175
180	60.6	543.8	125,400	132,100	62.8	548.1	141,100	141,100	66.0	553.1	92,600	140,100	180
185	59.5	540.8	119,700	128,700	61.7	545.4	140,400	140,400	64.9	550.7	87,800	140,100	185
190	58.3	537.7	114,300	125,200	60.6	542.5	140,100	140,100	63.8	548.2	83,300	140,100	190
195	57.1	534.4	109,200	121,700	59.4	539.6	139,000	139,000	62.7	545.6	79,100	140,100	195
200	56.0	531.0	104,400	118,300	58.3	536.4	138,100	138,100	61.6	542.8	75,000	140,100	200
205	54.7	527.5	99,800	114,900	57.1	533.2	137,000	137,000	60.5	540.0	71,200	140,100	205
210	53.5	523.7	95,400	111,500	55.9	529.7	136,000	136,000	59.3	537.0	67,500	140,100	210
215	52.3	519.8	91,300	108,200	54.7	526.2	135,000	135,000	58.2	533.8	64,000	139,900	215
220	51.0	515.7	87,300	104,900	53.5	522.4	134,000	134,000	57.0	530.5	60,700	139,300	220
225	49.7	511.5	83,500	101,800	52.2	518.5	133,000	133,000	55.8	527.1	57,500	134,800	225
230	48.4	507.0	79,800	98,800	51.0	514.4	132,000	132,000	54.6	523.5	54,400	130,600	230
235	47.1	502.3	76,300	95,800	49.7	510.1	131,000	131,000	53.4	519.8	51,500	126,400	235
240	45.7	497.4	73,000	92,900	48.4	505.7	130,000	130,000	52.1	515.9	48,700	122,500	240
250	42.8	486.8	66,700	87,500	45.6	496.1	127,900	127,900	49.6	507.5	43,400	115,100	250
260	39.8	475.1	60,900	82,500	42.8	485.4	124,500	124,500	46.9	498.2	38,500	108,300	260
270	36.6	462.0	55,400	78,100	39.7	473.7	121,100	121,100	44.1	488.1	34,000	101,900	270
280	33.1	447.1	50,400	74,200	36.5	460.5	117,800	117,800	41.2	476.9	29,800	96,100	280
290	29.2	429.9	45,600	70,900	33.0	445.6	114,500	114,500	38.0	464.4	25,900	90,600	290
300	24.7	409.5	41,200	68,400	29.1	428.4	111,200	111,200	34.6	450.4	22,200	85,500	300
310	19.2	383.5	36,900	66,900	24.6	407.9	108,000	108,000	30.9	434.4		80,700	310
320	11.3	344.6	32,700	59,400	19.1	381.8	104,900	104,900	26.7	415.5		76,100	320
330					11.1	342.4	101,900	101,900	21.8	392.4		71,900	330
340									15.4	361.1		67,800	340
350													350
360													360
370													370
380													380
390													390

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



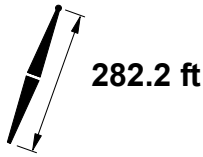
	75°				70°				65°			
	ft	°	ft	lb	lb	°	ft	lb	°	ft	lb	ft
115												115
120												120
125												125
130												130
135												135
140												140
145												145
150												150
155												155
160												160
165												165
170												170
175												175
180												180
185												185
190												190
195												195
200												200
205												205
210	64.7	544.6	40,000	128,800								210
215	63.6	542.1	37,200	124,400								215
220	62.5	539.4	34,500	120,100								220
225	61.4	536.7	31,900	116,000								225
230	60.3	533.8	29,500	112,200								230
235	59.1	530.8	27,100	108,500								235
240	57.9	527.6	24,800	104,900								240
250	55.6	520.8	20,600	98,200								250
260	53.1	513.4		92,100	58.7	522.1	76,200					260
270	50.6	505.3		86,300	56.4	515.5	71,100					270
280	48.0	496.4		81,000	54.0	508.3	66,400					280
290	45.2	486.7		76,100	51.5	500.5	62,000					290
300	42.4	475.9		71,500	48.9	491.9	57,800	54.6	500.6	44,600		300
310	39.3	464.0		67,200	46.2	482.5	54,000	52.2	493.0	41,200		310
320	36.0	450.7		63,100	43.4	472.1	50,300	49.6	484.6	38,000		320
330	32.5	435.5		59,300	40.4	460.6	46,900	46.9	475.4	35,000		330
340	28.5	417.9		55,600	37.2	447.7	43,700	44.1	465.3	32,100		340
350	23.9	396.8		52,200	33.7	433.2	40,600	41.2	454.1	29,400		350
360	18.2	369.6		48,900	29.9	416.6	37,700	38.1	441.6	26,800		360
370	9.5	326.2		45,700	25.6	396.8	35,000	34.7	427.6	24,400		370
380					20.4	372.2	32,300	31.0	411.6	22,100		380
390					13.2	337.1	29,700					390

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



282.2 ft

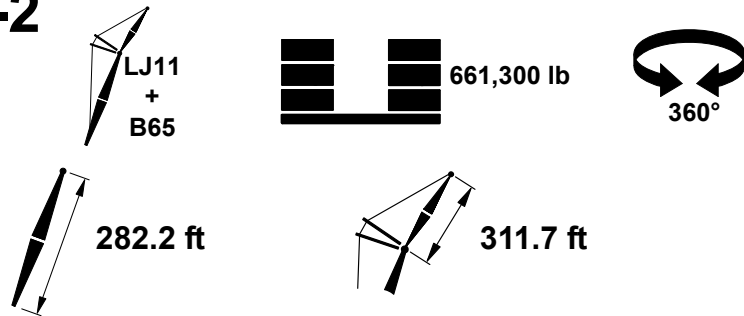


311.7 ft

	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
120	74.6	590.8	128,800	128,800									120
125	73.6	589.3	128,400	128,400									125
130	72.7	587.8	128,000	128,000									130
135	71.7	586.1	127,600	127,600									135
140	70.7	584.3	126,900	126,900	72.6	586.5	127,000	127,000					140
145	69.7	582.4	126,300	126,300	71.6	584.9	126,700	126,700					145
150	68.7	580.4	125,700	125,700	70.7	583.1	126,700	126,700					150
155	67.7	578.3	125,100	125,100	69.7	581.2	126,300	126,300					155
160	66.7	576.2	124,400	124,400	68.7	579.2	126,000	126,000					160
165	65.7	573.9	123,600	123,600	67.7	577.1	125,700	125,700					165
170	64.7	571.5	122,800	122,800	66.7	574.9	121,600	125,300	69.6	578.7	100,400	122,500	170
175	63.7	569.0	122,000	122,000	65.7	572.6	115,700	124,900	68.6	576.7	95,200	122,500	175
180	62.6	566.4	121,200	121,200	64.7	570.2	110,100	124,400	67.6	574.6	90,200	122,500	180
185	61.6	563.6	117,900	117,900	63.6	567.7	104,800	123,900	66.6	572.4	85,400	122,500	185
190	60.5	560.8	112,500	117,000	62.6	565.1	99,800	123,300	65.6	570.1	81,000	122,500	190
195	59.5	557.8	107,400	114,000	61.6	562.4	95,100	122,800	64.6	567.7	76,700	122,500	195
200	58.4	554.7	102,600	111,100	60.5	559.5	90,600	122,200	63.6	565.2	72,700	122,500	200
205	57.3	551.4	98,000	108,200	59.4	556.5	86,300	121,500	62.5	562.5	68,900	122,500	205
210	56.2	548.0	93,700	105,200	58.3	553.4	82,200	120,800	61.5	559.8	65,200	122,500	210
215	55.1	544.5	89,500	102,300	57.2	550.1	78,400	119,800	60.4	556.9	61,800	122,400	215
220	53.9	540.8	85,500	99,500	56.1	546.8	74,600	117,000	59.3	553.9	58,400	122,100	220
225	52.8	537.0	81,700	96,700	55.0	543.2	71,100	114,200	58.3	550.8	55,300	121,800	225
230	51.6	533.0	78,100	93,900	53.9	539.5	67,700	111,300	57.2	547.5	52,300	121,500	230
235	50.4	528.8	74,600	91,100	52.7	535.7	64,500	108,400	56.1	544.1	49,400	121,200	235
240	49.2	524.5	71,300	88,500	51.5	531.7	61,400	105,500	54.9	540.6	46,600	120,700	240
250	46.7	515.2	65,000	83,500	49.1	523.2	55,500	99,900	52.6	533.0	41,400	113,300	250
260	44.0	505.0	59,300	78,700	46.6	513.8	50,100	94,500	50.2	524.8	36,500	106,500	260
270	41.3	493.8	53,900	74,300	44.0	503.7	45,100	89,400	47.8	515.9	32,000	100,300	270
280	38.4	481.5	48,900	70,300	41.2	492.5	40,500	84,400	45.2	506.1	27,900	94,400	280
290	35.2	467.7	44,200	66,700	38.3	480.1	36,100	80,000	42.5	495.4	24,000	89,000	290
300	31.8	452.1	39,800	63,500	35.2	466.3	32,000	75,800	39.7	483.6	20,300	83,900	300
310	28.0	434.2	35,700	60,900	31.8	450.7	28,200	72,200	36.6	470.5		79,100	310
320	23.7	412.8	31,700	58,900	28.0	432.7	24,500	69,100	33.4	455.8		74,700	320
330	18.4	385.7	28,000	57,900	23.6	411.2	21,000	66,600	29.8	439.0		70,500	330
340	10.6	344.6	24,200	48,500	18.3	383.9		63,300	25.7	419.3		66,500	340
350					10.4	342.3		50,200	20.9	395.1		62,700	350
360									14.6	362.3		59,100	360
370													370
380													380
390													390
400													400
410													410

MLC650 VPC-MAX S-2

ASME B30.5



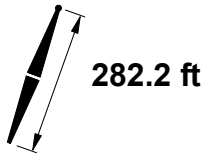
	75°			70°			65°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170
175										175
180										180
185										185
190										190
195										195
200										200
205										205
210										210
215										215
220	64.4	561.6	113,000							220
225	63.4	559.1	113,000							225
230	62.3	556.4	110,000							230
235	61.3	553.6	106,300							235
240	60.2	550.7	102,800							240
250	58.0	544.6	96,200							250
260	55.8	537.8	90,100							260
270	53.6	530.5	84,400	58.8	539.1	69,000				270
280	51.2	522.6	79,200	56.6	532.5	64,300				280
290	48.8	514.0	74,300	54.3	525.4	59,900				290
300	46.3	504.5	69,700	52.0	517.7	55,800				300
310	43.6	494.2	65,400	49.6	509.3	52,000	55.0	517.7	39,000	310
320	40.8	482.9	61,400	47.1	500.2	48,400	52.7	510.2	35,800	320
330	37.9	470.3	57,600	44.5	490.2	45,000	50.3	502.0	32,900	330
340	34.7	456.3	54,000	41.8	479.2	41,800	47.8	493.0	30,000	340
350	31.3	440.4	50,600	38.9	467.1	38,800	45.2	483.3	27,400	350
360	27.4	422.0	47,400	35.8	453.6	36,000	42.6	472.6	24,900	360
370	23.0	399.9	44,400	32.5	438.4	33,300	39.7	460.8	22,500	370
380	17.4	371.5	41,400	28.8	421.0	30,700	36.7	447.7	20,200	380
390	8.7	325.4	38,500	24.6	400.4	28,200				390
400				19.5	374.6	25,800				400
410				12.5	337.7	23,500				410

MLC650 VPC-MAX S-2

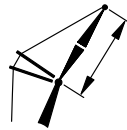
ASME B30.5



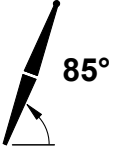
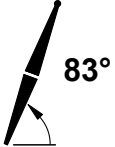
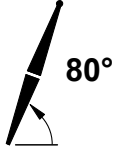
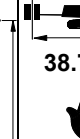
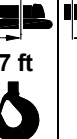
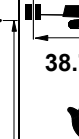
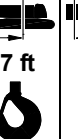
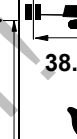
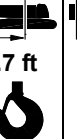
661,300 lb



282.2 ft

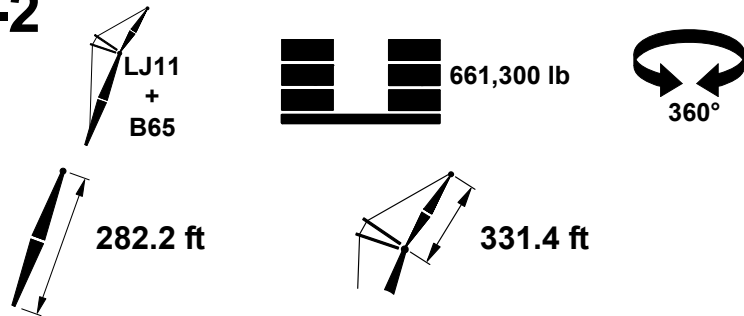


331.4 ft

 85°					 83°					 80°					
															
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft		
125	74.6	609.9	112,500	112,500									125		
130	73.7	608.4	112,100	112,100									130		
135	72.8	606.8	111,700	111,700									135		
140	71.9	605.2	111,300	111,300									140		
145	71.0	603.4	110,800	110,800	72.8	605.6	110,500	110,500					145		
150	70.1	601.6	110,200	110,200	71.9	604.0	110,400	110,400					150		
155	69.1	599.6	109,700	109,700	71.0	602.2	110,100	110,100					155		
160	68.2	597.6	109,100	109,100	70.0	600.3	109,900	109,900					160		
165	67.3	595.5	108,400	108,400	69.1	598.4	109,500	109,500					165		
170	66.3	593.2	107,800	107,800	68.2	596.4	109,200	109,200					170		
175	65.4	590.9	107,100	107,100	67.2	594.2	108,800	108,800	70.0	597.8	91,200	105,900	175		
180	64.4	588.5	106,400	106,400	66.3	592.0	106,500	108,400	69.0	595.9	86,200	105,900	180		
185	63.4	586.0	105,700	105,700	65.3	589.7	101,200	107,900	68.1	593.9	81,500	105,900	185		
190	62.5	583.3	104,900	104,900	64.4	587.3	96,200	107,500	67.2	591.7	77,100	105,900	190		
195	61.5	580.6	104,000	104,200	63.4	584.7	91,500	107,000	66.2	589.5	72,800	105,900	195		
200	60.5	577.7	99,200	102,600	62.4	582.1	87,000	106,500	65.3	587.1	68,800	105,900	200		
205	59.5	574.7	94,700	100,100	61.4	579.3	82,800	105,900	64.3	584.7	65,000	105,900	205		
210	58.5	571.6	90,300	97,700	60.4	576.5	78,700	105,400	63.3	582.2	61,400	105,800	210		
215	57.4	568.4	86,200	95,200	59.4	573.5	74,800	104,800	62.3	579.5	58,000	105,600	215		
220	56.4	565.1	82,200	92,700	58.4	570.4	71,200	104,200	61.4	576.8	54,700	105,400	220		
225	55.3	561.6	78,400	90,300	57.4	567.1	67,600	103,600	60.4	573.9	51,500	105,200	225		
230	54.3	557.9	74,800	87,900	56.3	563.8	64,300	103,000	59.4	570.9	48,500	104,900	230		
235	53.2	554.2	71,400	85,500	55.3	560.3	61,000	100,900	58.3	567.8	45,700	104,600	235		
240	52.1	550.2	68,000	83,100	54.2	556.6	57,900	98,500	57.3	564.5	42,900	104,300	240		
250	49.8	541.9	61,800	78,500	52.0	548.9	52,100	93,600	55.2	557.6	37,700	103,700	250		
260	47.5	532.9	56,100	74,200	49.8	540.6	46,800	88,900	53.0	550.2	32,900	102,900	260		
270	45.1	523.0	50,700	70,000	47.4	531.5	41,800	84,300	50.8	542.2	28,500	97,400	270		
280	42.5	512.3	45,700	66,100	45.0	521.7	37,100	79,800	48.5	533.4	24,300	91,600	280		
290	39.9	500.6	41,100	62,500	42.5	511.0	32,800	75,600	46.2	524.0	20,500	86,200	290		
300	37.0	487.6	36,800	59,200	39.8	499.2	28,800	71,600	43.7	513.7		81,100	300		
310	34.0	473.2	32,700	56,400	37.0	486.2	25,000	67,900	41.1	502.4		76,400	310		
320	30.7	457.0	28,800	53,800	33.9	471.8	21,400	64,600	38.3	490.0		72,000	320		
330	27.0	438.2	25,200	51,700	30.6	455.5		61,600	35.4	476.3		67,800	330		
340	22.8	415.9	21,700	50,200	27.0	436.7		59,100	32.2	460.9		63,900	340		
350	17.6	387.6		49,100	22.7	414.3		57,100	28.7	443.4		60,100	350		
360	9.9	344.3		37,100	17.5	385.8		50,800	24.8	422.8		56,600	360		
370					9.7	341.9		38,800	20.1	397.7		53,200	370		
380									13.9	363.3		47,700	380		
390													390		
400													400		
410													410		

MLC650 VPC-MAX S-2

ASME B30.5



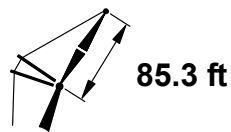
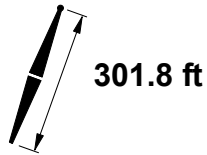
	75°			70°			65°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170
175										175
180										180
185										185
190										190
195										195
200										200
205										205
210										210
215										215
220										220
225										225
230	64.1	578.6	97,100							230
235	63.1	576.0	97,100							235
240	62.2	573.4	97,100							240
250	60.2	567.7	93,000							250
260	58.1	561.5	86,900							260
270	56.1	554.9	81,300							270
280	53.9	547.7	76,100	58.8	556.0	61,000				280
290	51.7	539.9	71,200	56.8	549.5	56,600				290
300	49.5	531.4	66,700	54.7	542.5	52,600				300
310	47.1	522.3	62,400	52.5	534.9	48,800				310
320	44.7	512.3	58,500	50.3	526.7	45,300				320
330	42.1	501.4	54,700	47.9	517.8	41,900	53.1	527.3	29,600	330
340	39.4	489.5	51,200	45.5	508.1	38,800	50.9	519.3	26,800	340
350	36.6	476.4	47,800	43.0	497.6	35,800	48.6	510.6	24,200	350
360	33.5	461.7	44,700	40.4	486.1	33,000	46.2	501.1	21,700	360
370	30.2	445.1	41,700	37.6	473.4	30,300				370
380	26.4	425.9	38,800	34.6	459.3	27,800				380
390	22.1	402.9	36,100	31.4	443.4	25,400				390
400	16.7	373.2	33,400	27.8	425.2	23,100				400
410	8.0	324.4	30,800	23.7	403.7	20,800				410

MLC650 VPC-MAX S-2

ASME B30.5



661,300 lb



	85°				83°				80°				
ft	°	ft	lb	lb	°	ft	lb	lb	°	ft	lb	lb	ft
65	72.1	391.0	489,800 d	489,800 d									65
70	68.5	388.9	484,600 d	484,600 d									70
75	64.7	386.4	470,900 c	470,900 c	72.4	390.0	443,700 d	480,400 d					75
80	60.8	383.5	437,900 c	470,300 c	68.8	387.9	411,200 d	471,400 d					80
85	56.8	380.1	407,700 b	457,000 b	65.1	385.5	382,800 c	458,600 c					85
90	52.5	376.2	381,000 b	442,200 b	61.2	382.6	357,600 c	446,500 c					90
95	47.9	371.5	357,100 b	428,200 b	57.2	379.2	335,200 b	434,900 b	69.3	385.7	302,300 c	450,500 c	95
100	43.0	366.1	335,700	415,100	52.9	375.3	315,100 b	434,900 b	65.6	383.3	284,000 c	436,200 c	100
105	37.4	359.5	316,200	401,500	48.4	370.8	296,900 b	429,900 b	61.7	380.5	267,600 c	412,200 c	105
110	30.9	351.2	298,500	387,500	43.5	365.4	280,400	411,800	57.7	377.2	252,600 b	390,500 b	110
115	22.6	339.9	282,000	378,500	38.0	359.0	265,200	391,100	53.5	373.4	239,000 b	370,800 b	115
120					31.6	350.9	251,200	372,100	49.0	368.9	226,500 b	352,900 b	120
125					23.6	340.0	238,100	354,700	44.1	363.7	214,900	336,400	125
130					8.8	318.7	225,100	311,000	38.7	357.3	204,200	321,200	130
135									32.5	349.5	194,100	307,200	135
140									24.7	339.1	184,600	294,100	140
145									12.1	321.0	175,100	281,700	145
150													150
155													155
160													160
165													165
170													170
175													175
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185													185
190													190
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210													210
215													215
220													220

MLC650 VPC-MAX S-2

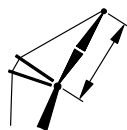
ASME B30.5



661,300 lb



301.8 ft



85.3 ft

	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	166,200 b	292,300 b									130
135	58.3	371.7	158,000 b	279,500 b									135
140	54.1	368.0	150,300 b	267,700 b									140
145	49.6	363.6	143,200 b	256,700 b									145
150	44.8	358.5	136,500	246,400									150
155	39.5	352.3	130,100	236,800									155
160	33.4	344.8	124,100	227,700	58.3	363.5	94,600 b	205,400 b					160
165	26.0	334.8	118,200	219,200	54.1	359.8	90,100 b	197,800 b					165
170	14.7	318.8	112,200	210,900	49.7	355.5	85,800 b	190,600 b					170
175					44.9	350.3	81,800	183,800					175
180					39.6	344.2	77,900	177,300					180
185					33.5	336.7	74,100	171,200					185
190					26.1	326.8	70,300	165,300	53.5	348.9	46,900 b	147,600 b	190
195					14.9	311.0	66,400	159,400	49.0	344.4	44,300	142,700	195
200									44.1	339.2	41,800	137,900	200
205									38.8	332.9	39,300	133,400	205
210									32.5	325.1	36,900	129,100	210
215									24.8	314.7	34,400	124,800	215
220									12.3	296.7	31,600	120,500	220