

# Liftcrane Luffing Jib Capacities

Luffing Jib No. LJ10:681-682 on  
 Boom No. B10:680  
 661,300 lb VPC (Variable Position Counterweight)  
 360 Degree Rating

## MLC650 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.

Consult Luffing Jib Raising Procedure chart **No. 9521-A** for allowable boom point configurations for 203.4 ft and 223.1 ft boom lengths.

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 11,000 lb minimum weight suspended beneath luffing jib point, (c) require 21,000 lb minimum weight, and (d) require 28,000 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. 81018143**, Wire Rope Specifications chart **No. 9524-A**, Counterweight Arrangements chart **No. 9349-A**, Luffing Jib Raising Procedure chart **No. 9521-A**, and Wind Conditions chart **No. 9523-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. 9522-A**.



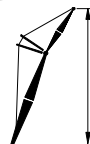
**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle and luffing jib angle are an indication of operating radius. In all cases, operating radius shall govern capacity.



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



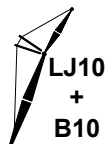
**LUFFING JIB ANGLE:** Luffing jib angle in degrees (°) is angle between horizontal and centerline of luffing jib butt and inserts.



**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 36 ft 6 in. crawlers, 60 in. or 80 in. treads, 36 ft 1 in. live mast, 30 part boom hoist reeving, boom support straps, 20 part luffing jib hoist reeving, luffing jib and backstay support straps, and 661,300 lb VPC.

## Explanation of Symbols



Luffing Jib No. LJ10:681-682  
+  
Boom No. B10:680



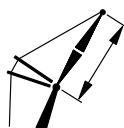
VPC (Variable Position Counterweight)



360 Degree Rating



Boom Length



Luffing Jib Length



Boom Angle  
(see page 1)



Operating Radius  
(see page 1)



Luffing Jib Angle  
(see page 1)



Luffing Jib Elevation  
(see page 1)



Lifting Capacities  
(see page 1)

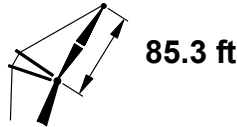
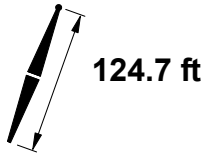
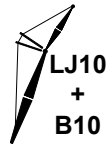


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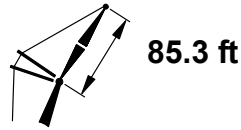
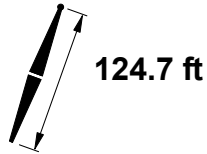
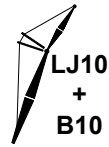
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	85°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
50	71.8	214.3	555,400 c							50
55	68.1	212.2	492,800 c	71.3	213.5	491,400 c				55
60	64.4	209.7	442,700 b	67.6	211.3	441,400 b				60
65	60.5	206.7	401,800 b	63.9	208.7	400,600 b	68.7	210.9	398,900 b	65
70	56.4	203.3	367,900	59.9	205.7	366,700 b	65.0	208.4	365,200 b	70
75	52.1	199.3	339,200	55.8	202.2	338,100	61.1	205.5	336,700 b	75
80	47.5	194.6	314,700	51.5	198.1	313,700	57.1	202.2	312,300	80
85	42.5	189.0	293,500	46.9	193.3	292,500	52.8	198.3	291,200	85
90	36.9	182.3	275,000	41.8	187.7	274,100	48.3	193.7	272,800	90
95	30.3	173.9	258,700	36.1	180.8	257,800	43.3	188.3	256,600	95
100	21.7	162.1	244,400	29.3	172.0	243,400	37.8	181.8	242,200	100
105				20.3	159.5	230,700	31.4	173.7	229,400	105
110							23.3	162.7	217,900	110
115							7.9	140.3	207,800	115
120										120
125										125
130										130
135										135
140										140
145										145

# MLC650 S-2

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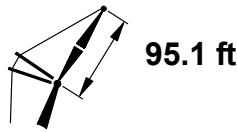
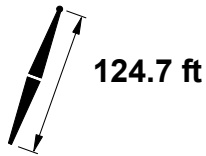
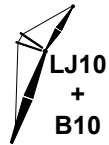


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	61.6	203.3	289,200							85
90	57.6	200.0	270,800							90
95	53.3	196.1	254,700							95
100	48.8	191.6	240,400	57.8	196.7	238,800				100
105	43.9	186.4	227,600	53.6	192.9	225,300				105
110	38.5	180.0	216,100	49.1	188.4	212,200				110
115	32.3	172.1	205,800	44.3	183.2	200,300	53.6	188.4	190,600	115
120	24.4	161.6	196,400	38.9	176.9	189,400	49.1	184.0	180,200	120
125	11.4	142.9	187,500	32.7	169.2	179,400	44.3	178.7	170,700	125
130				25.0	158.9	170,000	38.9	172.5	162,000	130
135				12.8	141.4	161,100	32.7	164.7	153,800	135
140							25.0	154.4	146,200	140
145							12.8	136.9	138,700	145

REFERENCE ONLY

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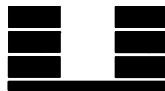
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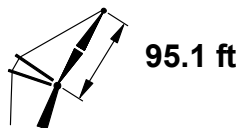
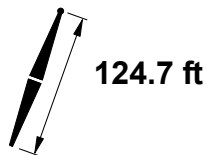
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
50	73.7	224.8	551,300 c							50
55	70.5	222.9	492,800 b							55
60	67.2	220.7	442,800 b	70.1	222.1	441,500 b				60
65	63.9	218.2	402,000 b	66.8	219.8	400,800 b				65
70	60.4	215.2	368,000	63.4	217.2	366,900 b	67.8	219.4	365,400	70
75	56.7	211.8	339,400	59.9	214.2	338,300	64.4	216.9	336,900	75
80	52.9	207.9	314,800	56.2	210.8	313,900	60.9	214.0	312,500	80
85	48.9	203.5	293,600	52.4	206.8	292,700	57.3	210.7	291,400	85
90	44.6	198.3	275,100	48.3	202.3	274,200	53.5	206.9	273,000	90
95	39.8	192.2	258,800	44.0	197.0	257,900	49.6	202.5	256,800	95
100	34.5	185.0	244,300	39.2	190.8	243,500	45.3	197.5	242,300	100
105	28.3	175.9	231,400	33.8	183.3	230,600	40.6	191.6	229,500	105
110	20.1	163.2	219,900	27.3	173.9	219,100	35.4	184.5	217,900	110
115				18.7	160.4	208,700	29.4	175.8	207,500	115
120							21.6	163.9	198,100	120
125							5.9	138.3	189,800	125
130										130
135										135
140										140
145										145
150										150
155										155

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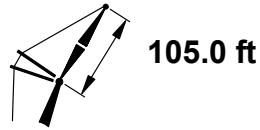
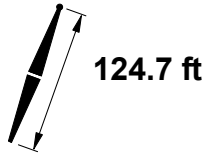
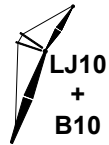
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	64.8	214.6	289,400							85
90	61.4	211.7	271,100							90
95	57.8	208.5	254,900							95
100	54.0	204.7	240,600							100
105	50.1	200.4	227,800	58.0	205.2	222,900				105
110	45.8	195.5	216,300	54.3	201.4	209,900				110
115	41.2	189.7	205,900	50.3	197.2	198,100				115
120	36.1	182.8	196,500	46.1	192.3	187,400	54.3	197.0	177,900	120
125	30.2	174.3	186,600	41.5	186.6	177,500	50.3	192.7	168,500	125
130	22.7	163.0	176,900	36.5	179.8	168,400	46.1	187.8	159,900	130
135	9.9	142.3	167,600	30.6	171.4	160,000	41.5	182.1	151,900	135
140				23.3	160.3	152,100	36.4	175.3	144,500	140
145				11.3	141.2	144,400	30.6	166.9	137,600	145
150							23.2	155.8	131,000	150
155							11.3	136.6	124,500	155

# MLC650 S-2

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	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	72.4	233.5	492,200 b						55	
60	69.5	231.5	442,400 b	72.1	232.6	441,100 b			60	
65	66.5	229.2	401,600 b	69.1	230.6	400,500 b			65	
70	63.5	226.6	367,800	66.1	228.3	366,700	70.0	230.1	365,200	70
75	60.3	223.7	339,200	63.0	225.7	338,200	67.0	227.9	336,700	75
80	57.0	220.3	314,700	59.9	222.7	313,700	63.9	225.4	312,400	80
85	53.6	216.5	293,500	56.6	219.3	292,600	60.8	222.5	291,300	85
90	50.0	212.3	275,000	53.1	215.4	274,100	57.5	219.2	272,900	90
95	46.2	207.4	258,700	49.5	211.1	257,800	54.1	215.5	256,700	95
100	42.1	201.8	244,200	45.7	206.1	243,400	50.6	211.3	242,300	100
105	37.6	195.2	231,200	41.5	200.4	230,500	46.8	206.5	229,400	105
110	32.5	187.4	219,600	37.0	193.7	218,900	42.8	201.0	217,800	110
115	26.6	177.7	209,200	31.8	185.7	208,400	38.3	194.6	207,400	115
120	18.6	164.1	199,700	25.7	175.6	198,900	33.4	187.1	197,900	120
125				17.3	161.1	190,400	27.6	177.7	189,300	125
130							20.1	165.0	181,500	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165

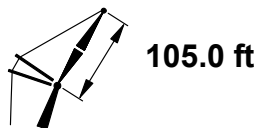
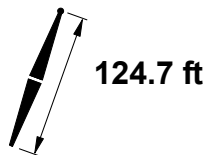


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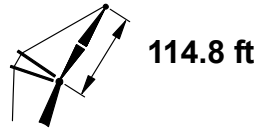
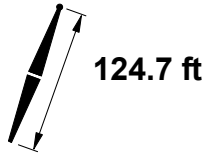
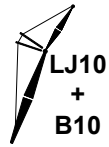
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55									55	
60									60	
65									65	
70									70	
75									75	
80									80	
85									85	
90	64.3	223.0	271,000						90	
95	61.2	220.2	254,900						95	
100	57.9	217.0	240,600						100	
105	54.6	213.3	227,800						105	
110	51.0	209.2	216,300	58.2	213.6	208,500			110	
115	47.3	204.5	205,800	54.8	210.0	196,800			115	
120	43.3	199.1	196,100	51.3	205.9	186,200			120	
125	38.9	192.8	185,800	47.5	201.2	176,400	54.8	205.6	167,200	125
130	34.0	185.4	176,400	43.5	195.9	167,500	51.3	201.5	158,700	130
135	28.4	176.3	167,600	39.2	189.7	159,200	47.5	196.8	150,800	135
140	21.2	164.2	159,400	34.4	182.4	151,500	43.5	191.5	143,500	140
145	8.5	141.4	151,400	28.8	173.4	144,300	39.2	185.3	136,700	145
150				21.7	161.6	137,500	34.4	178.0	130,300	150
155				10.0	140.7	130,800	28.8	169.0	124,300	155
160							21.7	157.1	118,600	160
165							10.0	136.1	112,900	165

# MLC650 S-2

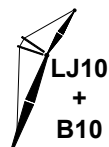
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	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	74.0	243.9	492,200 b						55	
60	71.4	242.1	442,500 b						60	
65	68.7	240.0	401,800	71.0	241.3	400,600			65	
70	65.9	237.7	368,000	68.3	239.2	366,900			70	
75	63.1	235.1	339,400	65.6	236.8	338,400	69.1	238.7	337,000	75
80	60.2	232.1	314,900	62.7	234.2	314,000	66.4	236.4	312,600	80
85	57.2	228.8	293,700	59.8	231.2	292,800	63.6	233.8	291,600	85
90	54.1	225.1	275,200	56.8	227.8	274,300	60.7	230.9	273,200	90
95	50.9	221.0	258,900	53.7	224.0	258,100	57.7	227.7	256,900	95
100	47.5	216.3	244,400	50.4	219.8	243,600	54.6	224.0	242,500	100
105	43.8	211.0	231,400	47.0	215.1	230,700	51.4	220.0	229,600	105
110	39.9	205.0	219,700	43.3	209.7	219,000	48.0	215.4	218,000	110
115	35.7	198.0	209,200	39.4	203.6	208,500	44.4	210.2	207,600	115
120	30.8	189.7	199,700	35.0	196.4	199,000	40.6	204.3	198,100	120
125	25.1	179.3	191,000	30.1	187.9	190,300	36.4	197.5	189,400	125
130	17.4	164.8	183,100	24.2	177.1	182,400	31.6	189.4	181,500	130
135				16.1	161.7	175,200	26.1	179.5	174,200	135
140							18.9	165.9	166,200	140
145									145	
150									150	
155									155	
160									160	
165									165	
170									170	
175									175	

# MLC650 S-2

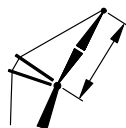
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661,300 lb



124.7 ft

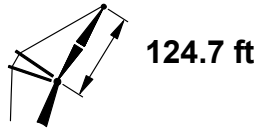
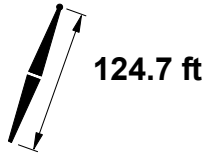
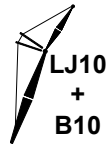


114.8 ft

	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55									55	
60									60	
65									65	
70									70	
75									75	
80									80	
85									85	
90									90	
95	63.9	231.5	255,200						95	
100	61.0	228.7	240,800						100	
105	58.1	225.5	228,000						105	
110	55.0	221.9	216,500						110	
115	51.8	217.9	205,100	58.3	222.1	194,500			115	
120	48.4	213.3	194,100	55.2	218.6	183,900			120	
125	44.9	208.2	183,900	52.0	214.6	174,200			125	
130	41.1	202.4	174,600	48.7	210.1	165,300			130	
135	36.9	195.7	165,900	45.1	205.0	157,100	52.0	210.1	148,500	
140	32.2	187.9	157,900	41.3	199.3	149,500	48.7	205.7	141,300	
145	26.8	178.2	150,400	37.2	192.7	142,500	45.1	200.6	134,600	
150	19.9	165.2	143,300	32.6	184.9	135,800	41.3	194.8	128,300	
155	7.1	140.2	136,300	27.2	175.3	129,600	37.2	188.2	122,400	
160				20.4	162.7	123,700	32.6	180.4	116,900	
165				8.8	140.0	117,800	27.2	170.9	111,700	
170							20.4	158.2	106,700	
175							8.7	135.4	101,600	

# MLC650 S-2

ASME B30.5



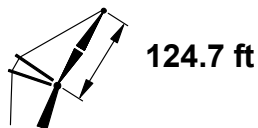
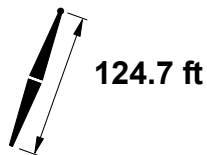
	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
60	72.9	252.5	441,400						60	
65	70.5	250.7	400,900	72.6	251.7	399,700			65	
70	68.0	248.6	367,200	70.1	249.9	366,100			70	
75	65.4	246.2	338,700	67.6	247.7	337,700			75	
80	62.8	243.6	314,300	65.1	245.3	313,400	68.4	247.2	312,100	
85	60.2	240.6	293,200	62.5	242.6	292,300	65.8	244.9	291,100	
90	57.4	237.3	274,700	59.8	239.6	273,900	63.2	242.3	272,700	
95	54.6	233.7	258,400	57.0	236.3	257,600	60.6	239.4	256,500	
100	51.6	229.7	243,900	54.2	232.6	243,200	57.9	236.2	242,100	
105	48.5	225.2	231,000	51.2	228.5	230,300	55.0	232.6	229,300	
110	45.3	220.1	219,400	48.1	224.0	218,700	52.1	228.6	217,700	
115	41.8	214.5	208,900	44.8	218.9	208,200	49.0	224.2	207,200	
120	38.1	208.1	199,300	41.3	213.1	198,700	45.8	219.3	197,700	
125	34.0	200.6	190,600	37.5	206.6	190,000	42.4	213.7	189,100	
130	29.3	191.8	182,600	33.4	199.0	182,000	38.7	207.4	181,100	
135	23.8	180.9	175,400	28.6	190.0	174,700	34.6	200.2	173,900	
140	16.3	165.5	168,700	22.9	178.6	168,000	30.1	191.6	166,900	
145				15.0	162.2	161,900	24.7	181.1	159,100	
150							17.7	166.7	151,700	
155									155	
160									160	
165									165	
170									170	
175									175	
180									180	
185									185	

# MLC650 S-2

ASME B30.5



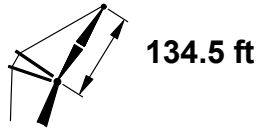
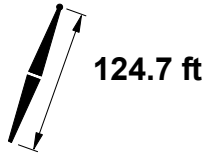
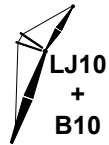
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60									60	
65									65	
70									70	
75									75	
80									80	
85									85	
90									90	
95									95	
100	63.6	240.0	240,500						100	
105	60.9	237.1	227,700						105	
110	58.2	234.0	216,200						110	
115	55.4	230.4	205,100						115	
120	52.5	226.5	194,100	58.4	230.6	183,800			120	
125	49.4	222.1	184,000	55.6	227.1	174,200			125	
130	46.2	217.3	174,700	52.7	223.2	165,400			130	
135	42.8	211.8	166,200	49.6	218.9	157,200			135	
140	39.1	205.6	158,200	46.4	214.1	149,700	52.6	218.8	141,300	140
145	35.1	198.5	150,900	43.0	208.6	142,700	49.6	214.4	134,700	145
150	30.7	190.1	144,000	39.4	202.5	136,200	46.4	209.6	128,500	150
155	25.4	179.9	137,500	35.4	195.5	130,100	43.0	204.2	122,700	155
160	18.7	166.2	131,400	31.0	187.2	124,300	39.4	198.0	117,200	160
165	5.7	138.3	125,200	25.8	177.1	118,900	35.4	191.0	112,100	165
170				19.3	163.7	113,700	31.0	182.7	107,300	170
175				7.6	138.9	108,400	25.8	172.6	102,700	175
180							19.2	159.2	98,200	180
185							7.6	134.4	93,700	185

# MLC650 S-2

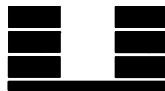
ASME B30.5



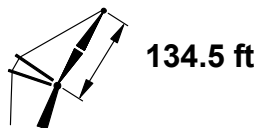
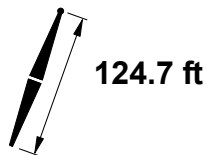
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60	74.2	262.9	441,500						60	
65	72.0	261.2	401,100						65	
70	69.7	259.3	367,400	71.7	260.4	366,400			70	
75	67.4	257.1	338,900	69.4	258.4	338,000			75	
80	65.0	254.7	314,600	67.0	256.3	313,600			80	
85	62.6	252.0	293,400	64.7	253.8	292,600	67.7	255.8	291,300	85
90	60.1	249.1	274,900	62.3	251.1	274,100	65.4	253.4	273,000	90
95	57.6	245.8	258,600	59.8	248.1	257,900	63.0	250.8	256,800	95
100	54.9	242.3	244,200	57.2	244.8	243,400	60.5	247.9	242,400	100
105	52.2	238.3	231,200	54.6	241.2	230,500	58.0	244.7	229,500	105
110	49.4	233.9	219,600	51.9	237.2	218,900	55.4	241.1	217,900	110
115	46.5	229.1	209,000	49.0	232.8	208,400	52.7	237.3	207,500	115
120	43.3	223.8	199,500	46.0	227.9	198,800	49.9	233.0	197,900	120
125	40.0	217.8	190,700	42.9	222.4	190,100	46.9	228.2	189,300	125
130	36.4	211.0	182,800	39.5	216.3	182,200	43.8	223.0	181,300	130
135	32.4	203.1	175,400	35.9	209.4	174,800	40.5	217.1	173,500	135
140	28.0	193.8	168,700	31.9	201.4	168,100	37.0	210.4	165,200	140
145	22.6	182.3	162,400	27.3	191.9	161,900	33.1	202.7	157,600	145
150	15.3	166.0	156,700	21.8	179.9	155,200	28.7	193.7	150,400	150
155				14.1	162.5	148,100	23.5	182.6	143,600	155
160							16.7	167.5	137,200	160
165										165
170										170
175										175
180										180
185										185
190										190
195										195

# MLC650 S-2

ASME B30.5



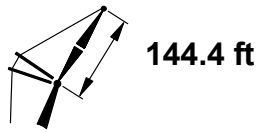
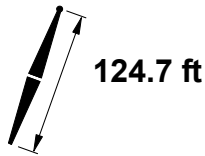
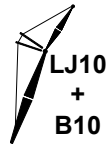
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60									60	
65									65	
70									70	
75									75	
80									80	
85									85	
90									90	
95									95	
100									100	
105	63.3	248.5	227,900						105	
110	60.8	245.6	215,000						110	
115	58.3	242.4	202,900						115	
120	55.7	239.0	191,900						120	
125	53.0	235.1	181,900	58.5	239.1	171,900			125	
130	50.2	230.9	172,700	55.9	235.6	163,100			130	
135	47.3	226.2	164,200	53.2	231.8	155,100			135	
140	44.2	221.0	156,300	50.4	227.6	147,600			140	
145	41.0	215.2	149,000	47.5	223.0	140,600	53.2	227.4	132,400	
150	37.4	208.6	142,200	44.4	217.8	134,200	50.4	223.2	126,300	
155	33.6	201.1	135,900	41.2	212.0	128,100	47.5	218.5	120,500	
160	29.3	192.3	129,900	37.7	205.5	122,500	44.4	213.3	115,200	
165	24.2	181.5	124,200	33.9	198.1	117,100	41.2	207.6	110,100	
170	17.7	167.0	118,800	29.6	189.4	112,100	37.7	201.1	105,400	
175	4.0	135.3	113,300	24.6	178.7	107,300	33.9	193.6	100,900	
180				18.2	164.6	102,700	29.6	184.9	96,600	
185				6.5	137.5	98,000	24.6	174.3	92,500	
190							18.2	160.2	88,500	
195							6.4	132.9	84,400	

# MLC650 S-2

ASME B30.5

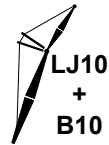


	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
65	73.2	271.6	400,700						65	
70	71.1	269.9	367,200	73.0	270.8	366,100			70	
75	69.0	267.9	338,800	70.8	269.0	337,800			75	
80	66.8	265.7	314,400	68.7	267.0	313,500			80	
85	64.6	263.2	293,300	66.5	264.8	292,500	69.3	266.5	291,200	85
90	62.4	260.5	274,900	64.3	262.3	274,100	67.2	264.3	272,900	90
95	60.1	257.6	258,600	62.1	259.6	257,800	65.0	261.9	256,700	95
100	57.7	254.3	244,100	59.7	256.6	243,400	62.7	259.3	242,300	100
105	55.3	250.8	231,200	57.4	253.3	230,500	60.4	256.4	229,500	105
110	52.8	246.9	219,500	54.9	249.7	218,900	58.1	253.2	217,900	110
115	50.2	242.7	209,000	52.4	245.8	208,400	55.7	249.7	207,400	115
120	47.4	238.0	199,400	49.8	241.5	198,800	53.2	245.9	197,900	120
125	44.6	232.9	190,700	47.1	236.8	190,100	50.6	241.7	189,200	125
130	41.6	227.2	182,700	44.2	231.6	182,100	47.9	237.1	181,000	130
135	38.4	220.9	175,300	41.2	225.8	174,800	45.1	232.0	172,200	135
140	34.9	213.7	168,600	38.0	219.4	168,000	42.1	226.5	164,000	140
145	31.1	205.5	162,300	34.4	212.1	161,600	38.9	220.2	156,400	145
150	26.8	195.7	156,500	30.6	203.7	154,300	35.5	213.2	149,300	150
155	21.6	183.6	150,600	26.1	193.7	147,400	31.7	205.2	142,600	155
160	14.5	166.4	143,900	20.8	181.1	140,900	27.5	195.7	136,400	160
165				13.2	162.7	134,700	22.5	184.0	130,500	165
170							15.8	168.1	124,800	170
175										175
180										180
185										185
190										190
195										195
200										200
205										205

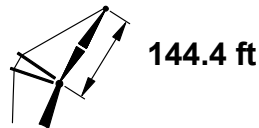
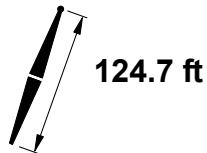


# MLC650 S-2

ASME B30.5



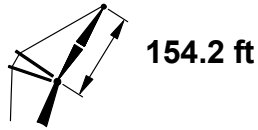
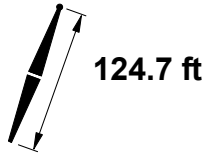
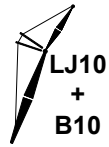
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	63.0	257.0	213,300							110
115	60.7	254.1	201,300							115
120	58.4	250.9	190,400							120
125	56.0	247.5	180,400							125
130	53.5	243.7	171,200	58.5	247.6	161,500				130
135	50.9	239.6	162,700	56.1	244.2	153,500				135
140	48.2	235.0	154,900	53.6	240.4	146,100				140
145	45.4	230.0	147,700	51.1	236.3	139,100				145
150	42.5	224.5	140,900	48.4	231.8	132,700	53.6	236.0	124,700	150
155	39.3	218.4	134,600	45.6	226.8	126,700	51.1	231.9	119,000	155
160	35.9	211.5	128,700	42.7	221.4	121,100	48.4	227.4	113,700	160
165	32.2	203.6	123,200	39.5	215.3	115,800	45.6	222.4	108,700	165
170	28.0	194.3	117,900	36.2	208.4	110,900	42.7	216.9	104,000	170
175	23.1	183.0	112,900	32.5	200.6	106,200	39.5	210.8	99,500	175
180	16.8	167.8	108,100	28.3	191.4	101,700	36.2	203.9	95,300	180
185				23.5	180.3	97,500	32.5	196.1	91,300	185
190				17.3	165.4	93,400	28.3	187.0	87,500	190
195				5.2	135.5	89,100	23.5	175.8	83,900	195
200							17.3	161.0	80,300	200
205							5.1	130.9	76,600	205

# MLC650 S-2

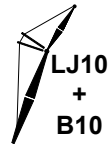
ASME B30.5



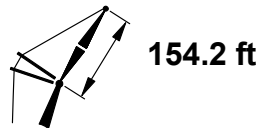
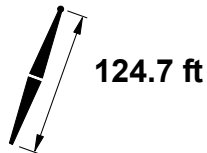
ft	85°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft		
65	74.3	282.0	400,900						65	
70	72.4	280.3	367,400						70	
75	70.4	278.5	339,000	72.1	279.5	338,000			75	
80	68.4	276.4	314,700	70.1	277.6	313,800			80	
85	66.4	274.2	293,600	68.1	275.6	292,700			85	
90	64.3	271.7	275,100	66.1	273.3	274,300	68.7	275.1	273,200	90
95	62.2	269.0	258,800	64.0	270.8	258,100	66.7	272.8	257,000	95
100	60.0	266.0	244,400	61.9	268.0	243,600	64.6	270.4	242,600	100
105	57.8	262.8	231,400	59.7	265.1	230,700	62.5	267.7	229,700	105
110	55.5	259.3	219,800	57.5	261.8	219,100	60.4	264.8	218,200	110
115	53.2	255.5	209,200	55.2	258.3	208,600	58.2	261.7	207,700	115
120	50.8	251.4	199,600	52.9	254.4	199,000	55.9	258.2	198,200	120
125	48.3	246.9	190,900	50.5	250.2	190,300	53.6	254.5	188,700	125
130	45.7	241.9	182,900	48.0	245.7	182,300	51.2	250.4	179,200	130
135	42.9	236.5	175,500	45.3	240.7	175,000	48.7	245.9	170,300	135
140	40.0	230.5	168,700	42.6	235.2	167,800	46.1	241.0	162,200	140
145	37.0	223.8	162,400	39.7	229.1	160,000	43.4	235.7	154,600	145
150	33.6	216.3	156,100	36.5	222.3	152,700	40.5	229.8	147,500	150
155	29.9	207.7	149,200	33.1	214.7	145,900	37.5	223.3	141,000	155
160	25.7	197.5	142,700	29.4	205.9	139,500	34.2	215.9	134,800	160
165	20.6	184.8	136,600	25.1	195.4	133,500	30.5	207.5	129,000	165
170	13.6	166.7	130,700	19.8	182.3	127,900	26.4	197.6	123,500	170
175				12.4	162.9	122,400	21.5	185.4	118,300	175
180							15.0	168.6	113,300	180
185										185
190										190
195										195
200										200
205										205
210										210
215										215

# MLC650 S-2

ASME B30.5



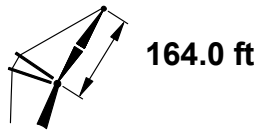
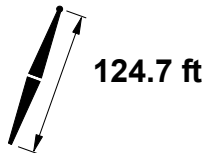
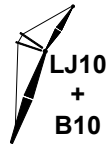
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	64.9	268.1	211,000							110
115	62.8	265.4	199,100							115
120	60.6	262.6	188,200							120
125	58.4	259.4	178,200							125
130	56.2	256.0	169,100							130
135	53.9	252.3	160,700	58.6	256.1	151,300				135
140	51.5	248.2	152,900	56.3	252.7	143,900				140
145	49.0	243.8	145,700	54.0	249.0	137,000				145
150	46.4	239.0	139,000	51.6	245.0	130,600				150
155	43.7	233.7	132,800	49.2	240.6	124,700	54.0	244.5	116,800	155
160	40.9	227.9	126,900	46.6	235.8	119,100	51.6	240.5	111,500	160
165	37.8	221.4	121,400	43.9	230.6	113,900	49.2	236.1	106,600	165
170	34.6	214.2	116,200	41.1	224.8	109,000	46.6	231.4	101,900	170
175	31.0	205.9	111,300	38.1	218.4	104,300	43.9	226.1	97,500	175
180	26.9	196.2	106,700	34.8	211.2	100,000	41.1	220.3	93,300	180
185	22.1	184.4	102,200	31.2	202.9	95,800	38.0	213.9	89,400	185
190	15.9	168.4	98,000	27.2	193.4	91,800	34.8	206.7	85,700	190
195				22.5	181.7	88,000	31.2	198.5	82,100	195
200				16.4	166.2	84,300	27.2	188.9	78,700	200
205				3.7	132.4	80,400	22.5	177.2	75,400	205
210							16.4	161.7	72,200	210
215							3.6	127.6	68,700	215

# MLC650 S-2

ASME B30.5



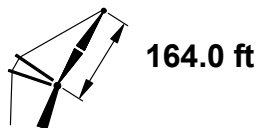
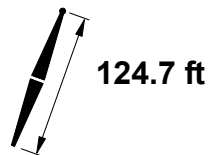
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
70	73.5	290.7	366,900						70	
75	71.6	289.0	338,600						75	
80	69.8	287.1	314,400	71.4	288.2	313,500			80	
85	67.9	285.0	293,300	69.5	286.2	292,500			85	
90	66.0	282.7	274,900	67.6	284.1	274,100			90	
95	64.0	280.2	258,700	65.7	281.8	257,900	68.2	283.6	256,800	95
100	62.0	277.5	244,200	63.7	279.3	243,500	66.3	281.4	242,400	100
105	60.0	274.5	231,300	61.7	276.5	230,600	64.3	278.9	229,600	105
110	57.9	271.3	219,600	59.7	273.5	219,000	62.3	276.2	218,000	110
115	55.8	267.9	209,100	57.6	270.3	208,500	60.3	273.3	207,600	115
120	53.6	264.1	199,500	55.5	266.8	198,900	58.2	270.1	198,100	120
125	51.4	260.1	190,800	53.3	263.0	190,200	56.1	266.7	188,100	125
130	49.0	255.7	182,800	51.1	258.9	182,200	54.0	263.0	178,600	130
135	46.6	250.9	175,400	48.7	254.5	174,900	51.7	259.0	169,800	135
140	44.1	245.7	168,600	46.3	249.6	167,300	49.4	254.7	161,700	140
145	41.5	240.0	162,300	43.8	244.4	159,600	47.0	250.0	154,100	145
150	38.6	233.7	155,800	41.1	238.6	152,300	44.5	244.8	147,100	150
155	35.6	226.7	149,000	38.3	232.2	145,600	41.9	239.2	140,600	155
160	32.4	218.8	142,500	35.2	225.1	139,300	39.1	233.0	134,400	160
165	28.8	209.8	136,500	31.9	217.1	133,400	36.1	226.1	128,700	165
170	24.7	199.2	130,800	28.3	207.9	127,800	32.9	218.4	123,300	170
175	19.7	185.9	125,300	24.1	197.0	122,500	29.4	209.6	118,200	175
180	12.9	167.0	120,100	19.0	183.3	117,400	25.4	199.3	113,300	180
185				11.6	162.9	112,600	20.6	186.6	108,700	185
190							14.2	169.0	104,200	190
195										195
200										200
205										205
210										210
215										215
220										220

# MLC650 S-2

ASME B30.5



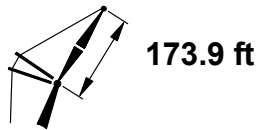
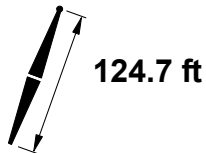
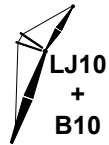
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	64.6	276.6	198,300							115
120	62.6	273.9	187,400							120
125	60.6	271.0	177,500							125
130	58.5	267.9	168,400							130
135	56.4	264.5	160,100							135
140	54.2	260.9	152,300	58.6	264.6	143,200				140
145	52.0	256.9	145,200	56.5	261.2	136,300				145
150	49.7	252.6	138,500	54.4	257.6	130,000				150
155	47.3	247.9	132,200	52.2	253.6	124,100				155
160	44.8	242.8	126,400	49.9	249.3	118,500	54.4	253.1	110,800	160
165	42.2	237.3	121,000	47.5	244.7	113,300	52.1	249.2	105,900	165
170	39.4	231.2	115,800	45.0	239.6	108,500	49.8	244.9	101,300	170
175	36.5	224.4	111,000	42.4	234.1	103,900	47.5	240.2	96,900	175
180	33.3	216.8	106,400	39.6	228.0	99,500	45.0	235.2	92,800	180
185	29.8	208.1	102,000	36.7	221.3	95,400	42.4	229.6	88,900	185
190	25.9	198.0	97,900	33.6	213.8	91,500	39.6	223.6	85,200	190
195	21.3	185.7	93,900	30.1	205.2	87,800	36.7	216.8	81,700	195
200	15.2	169.0	90,100	26.2	195.2	84,200	33.5	209.3	78,300	200
205				21.6	183.1	80,800	30.1	200.7	75,100	205
210				15.6	166.8	77,500	26.2	190.7	72,100	210
215							21.6	178.6	69,100	215
220							15.6	162.3	66,200	220

# MLC650 S-2

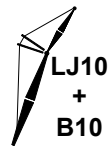
ASME B30.5



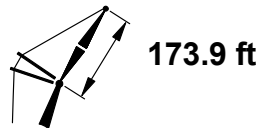
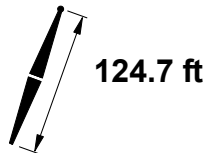
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
70	74.5	301.0	367,200						70	
75	72.7	299.4	338,900						75	
80	71.0	297.6	314,600	72.5	298.6	313,700			80	
85	69.2	295.7	293,600	70.7	296.8	292,700			85	
90	67.4	293.5	275,200	69.0	294.8	274,400			90	
95	65.6	291.2	258,900	67.2	292.7	258,200	69.5	294.3	257,100	95
100	63.7	288.7	244,500	65.4	290.3	243,700	67.7	292.2	242,700	100
105	61.9	285.9	231,500	63.5	287.8	230,800	65.9	289.9	229,800	105
110	60.0	283.0	219,900	61.6	285.0	219,200	64.0	287.4	218,300	110
115	58.0	279.8	209,300	59.7	282.0	208,700	62.2	284.7	207,800	115
120	56.0	276.4	199,700	57.7	278.8	199,100	60.3	281.8	196,500	120
125	54.0	272.7	191,000	55.7	275.3	190,400	58.3	278.6	186,200	125
130	51.9	268.7	183,000	53.7	271.6	182,400	56.3	275.2	176,700	130
135	49.7	264.4	175,600	51.6	267.6	173,900	54.3	271.6	167,900	135
140	47.4	259.8	168,800	49.4	263.2	165,600	52.2	267.7	159,800	140
145	45.1	254.7	161,600	47.1	258.5	157,800	50.0	263.4	152,300	145
150	42.7	249.2	154,200	44.8	253.4	150,700	47.8	258.8	145,300	150
155	40.1	243.3	147,400	42.3	247.9	143,900	45.5	253.8	138,800	155
160	37.4	236.7	141,000	39.7	241.9	137,700	43.1	248.4	132,700	160
165	34.5	229.4	135,000	37.0	235.2	131,800	40.5	242.5	127,000	165
170	31.3	221.2	129,300	34.0	227.8	126,200	37.8	236.1	121,600	170
175	27.8	211.8	124,000	30.9	219.5	121,000	34.9	228.9	116,600	175
180	23.8	200.8	118,900	27.3	209.9	116,100	31.8	220.9	111,800	180
185	19.0	187.0	114,100	23.2	198.6	111,400	28.4	211.7	107,200	185
190	12.2	167.1	109,400	18.2	184.3	106,900	24.5	201.0	102,900	190
195				11.0	162.8	102,500	19.8	187.7	98,800	195
200							13.5	169.3	94,700	200
205										205
210										210
215										215
220										220
225										225
230										230

# MLC650 S-2

ASME B30.5



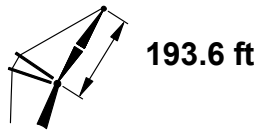
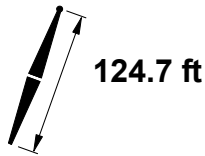
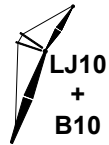
661,300 lb



ft	75°			70°			65°			ft
	ft	lb	lb	ft	lb	lb	ft	lb	lb	
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120	64.3	285.1	185,200							120
125	62.4	282.4	175,400							125
130	60.5	279.5	166,300							130
135	58.6	276.4	158,000							135
140	56.6	273.0	150,300							140
145	54.5	269.4	143,100	58.7	273.1	134,200				145
150	52.5	265.5	136,500	56.7	269.7	127,900				150
155	50.3	261.3	130,300	54.7	266.1	122,000				155
160	48.1	256.8	124,500	52.6	262.2	116,500				160
165	45.8	251.8	119,100	50.4	258.0	111,300	54.7	261.7	103,700	165
170	43.3	246.5	114,000	48.2	253.5	106,500	52.6	257.8	99,100	170
175	40.8	240.7	109,200	45.9	248.6	101,900	50.4	253.6	94,800	175
180	38.1	234.3	104,600	43.5	243.3	97,600	48.2	249.1	90,700	180
185	35.3	227.2	100,300	41.0	237.5	93,500	45.9	244.2	86,900	185
190	32.2	219.3	96,200	38.3	231.2	89,600	43.5	238.9	83,200	190
195	28.8	210.3	92,400	35.5	224.1	86,000	41.0	233.1	79,700	195
200	25.0	199.8	88,600	32.4	216.3	82,500	38.3	226.7	76,400	200
205	20.4	186.9	85,100	29.1	207.4	79,100	35.5	219.7	73,300	205
210	14.4	169.4	81,600	25.3	197.0	75,900	32.4	211.8	70,300	210
215				20.8	184.3	72,800	29.0	202.9	67,400	215
220				14.9	167.3	69,800	25.2	192.5	64,600	220
225							20.8	179.8	61,900	225
230							14.9	162.8	59,200	230

# MLC650 S-2

ASME B30.5



ft	85°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft		
75	74.5	320.1	337,600						75	
80	73.0	318.5	313,400						80	
85	71.4	316.8	292,400	72.8	317.7	291,600			85	
90	69.8	314.9	274,100	71.2	315.9	273,300			90	
95	68.2	312.8	257,800	69.6	314.0	257,100			95	
100	66.6	310.6	243,400	68.0	312.0	242,700			100	
105	65.0	308.2	230,500	66.4	309.7	229,800	68.5	311.5	228,800	105
110	63.3	305.7	218,900	64.8	307.3	218,200	66.9	309.3	217,300	110
115	61.6	302.9	208,300	63.1	304.7	207,700	65.2	306.9	205,000	115
120	59.9	299.9	198,800	61.4	301.9	198,200	63.6	304.4	193,800	120
125	58.2	296.8	190,000	59.7	299.0	189,400	61.9	301.6	183,500	125
130	56.4	293.4	182,000	57.9	295.8	180,400	60.2	298.7	174,000	130
135	54.5	289.8	174,600	56.1	292.4	171,500	58.4	295.6	165,300	135
140	52.7	285.9	167,200	54.3	288.7	163,200	56.7	292.3	157,300	140
145	50.8	281.8	159,300	52.4	284.8	155,500	54.8	288.7	149,800	145
150	48.8	277.4	152,100	50.5	280.7	148,400	53.0	284.9	142,900	150
155	46.7	272.6	145,300	48.5	276.2	141,700	51.1	280.8	136,400	155
160	44.6	267.5	138,900	46.5	271.4	135,500	49.1	276.4	130,400	160
165	42.4	262.0	133,000	44.3	266.2	129,700	47.1	271.7	124,700	165
170	40.1	256.0	127,400	42.1	260.7	124,200	45.0	266.6	119,400	170
175	37.7	249.5	122,100	39.8	254.6	119,000	42.8	261.2	114,400	175
180	35.1	242.4	117,100	37.4	248.0	114,100	40.5	255.3	109,700	180
185	32.4	234.5	112,400	34.8	240.8	109,500	38.1	248.9	105,200	185
190	29.4	225.7	108,000	32.0	232.8	105,200	35.5	241.9	100,900	190
195	26.0	215.6	103,700	28.9	223.9	101,000	32.8	234.1	96,900	195
200	22.2	203.7	99,600	25.5	213.6	97,000	29.9	225.5	93,100	200
205	17.6	188.8	95,700	21.6	201.4	93,200	26.6	215.6	89,400	205
210	10.9	167.1	91,900	16.8	185.9	89,600	22.9	204.1	85,900	210
215				9.7	162.3	86,000	18.4	189.8	82,600	215
220							12.3	169.7	79,200	220
225										225
230										230
235										235
240										240
245										245
250										250

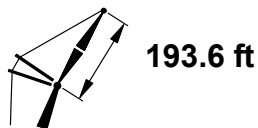
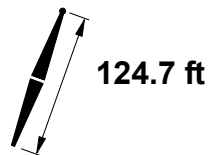


# MLC650 S-2

ASME B30.5



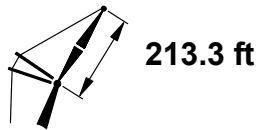
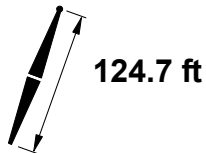
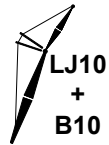
661,300 lb



ft	75°			70°			65°			ft
	ft	lb	ft	ft	lb	ft	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	63.8	302.0	163,400							130
135	62.1	299.3	155,200							135
140	60.4	296.5	147,500							140
145	58.7	293.4	140,400							145
150	56.9	290.0	133,800							150
155	55.1	286.5	127,700	58.8	290.0	119,100				155
160	53.2	282.7	121,900	57.0	286.7	113,700				160
165	51.3	278.6	116,500	55.2	283.2	108,500				165
170	49.3	274.3	111,500	53.3	279.4	103,700				170
175	47.3	269.6	106,700	51.4	275.4	99,200				175
180	45.2	264.6	102,200	49.5	271.0	95,000	53.3	275.0	87,900	180
185	43.0	259.2	98,000	47.5	266.4	91,000	51.4	270.9	84,100	185
190	40.8	253.4	94,000	45.4	261.4	87,100	49.5	266.6	80,500	190
195	38.4	247.1	90,200	43.2	256.1	83,500	47.5	262.0	77,100	195
200	35.9	240.1	86,600	40.9	250.3	80,100	45.4	257.0	73,800	200
205	33.2	232.5	83,100	38.5	243.9	76,800	43.2	251.6	70,700	205
210	30.2	223.9	79,800	36.0	237.1	73,700	40.9	245.8	67,800	210
215	27.0	214.3	76,600	33.3	229.5	70,700	38.5	239.5	65,000	215
220	23.3	203.0	73,600	30.4	221.0	67,900	36.0	232.6	62,300	220
225	19.0	189.1	70,700	27.2	211.4	65,100	33.3	225.0	59,700	225
230	13.2	170.1	67,800	23.6	200.2	62,500	30.4	216.5	57,200	230
235				19.3	186.6	59,900	27.2	206.9	54,800	235
240				13.6	168.1	57,400	23.6	195.8	52,500	240
245							19.3	182.1	50,200	245
250							13.6	163.6	48,000	250

# MLC650 S-2

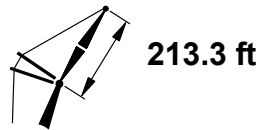
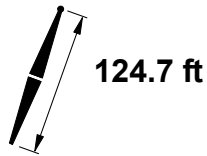
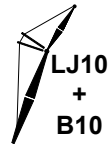
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
80	74.6	339.1	314,500						80	
85	73.2	337.6	293,600						85	
90	71.8	335.9	275,300						90	
95	70.4	334.0	259,100	71.6	335.1	258,300			95	
100	68.9	332.1	244,700	70.2	333.2	243,900			100	
105	67.4	329.9	231,800	68.7	331.2	231,100			105	
110	66.0	327.7	220,100	67.3	329.1	219,500	69.1	330.7	214,500	110
115	64.5	325.2	209,600	65.8	326.8	209,000	67.7	328.6	202,200	115
120	63.0	322.6	200,000	64.3	324.3	198,200	66.2	326.3	191,000	120
125	61.4	319.9	191,300	62.8	321.7	187,600	64.7	323.9	180,700	125
130	59.9	316.9	182,300	61.2	318.9	177,900	63.2	321.3	171,300	130
135	58.3	313.8	173,200	59.7	315.9	169,000	61.7	318.6	162,700	135
140	56.7	310.4	164,800	58.1	312.8	160,800	60.1	315.7	154,700	140
145	55.0	306.9	157,000	56.5	309.4	153,100	58.5	312.6	147,300	145
150	53.3	303.1	149,800	54.8	305.8	146,000	56.9	309.3	140,400	150
155	51.6	299.1	143,000	53.1	302.0	139,400	55.3	305.8	134,000	155
160	49.9	294.8	136,700	51.4	298.0	133,200	53.6	302.0	127,900	160
165	48.0	290.3	130,800	49.6	293.7	127,400	51.9	298.1	122,300	165
170	46.2	285.4	125,200	47.8	289.1	121,900	50.1	293.8	117,000	170
175	44.2	280.3	120,000	45.9	284.2	116,800	48.3	289.3	112,100	175
180	42.2	274.7	115,100	44.0	279.0	112,000	46.5	284.5	107,400	180
185	40.1	268.8	110,400	42.0	273.4	107,400	44.5	279.4	102,900	185
190	38.0	262.3	106,000	39.9	267.4	103,100	42.6	273.9	98,700	190
195	35.6	255.3	101,800	37.7	260.9	99,000	40.5	268.0	94,800	195
200	33.2	247.7	97,800	35.3	253.8	95,100	38.3	261.7	91,000	200
205	30.6	239.3	94,000	32.9	246.1	91,400	36.0	254.8	87,400	205
210	27.7	229.9	90,400	30.2	237.5	87,800	33.6	247.3	84,000	210
215	24.5	219.1	87,000	27.3	227.9	84,500	31.0	239.0	80,700	215
220	20.8	206.4	83,600	24.0	217.0	81,200	28.2	229.7	77,600	220
225	16.3	190.4	80,400	20.3	203.9	78,100	25.0	219.2	74,500	225
230	9.8	166.6	77,200	15.6	187.3	75,000	21.5	206.9	71,600	230
235				8.5	161.3	72,000	17.1	191.6	68,800	235
240							11.1	169.8	66,000	240
245										245
250										250
255										255
260										260
265										265
270										270

# MLC650 S-2

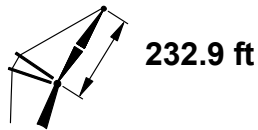
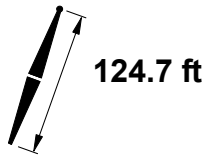
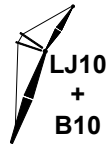
ASME B30.5



ft	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	64.9	321.6	152,300							135
140	63.4	319.0	144,700							140
145	61.9	316.3	137,600							145
150	60.3	313.4	131,100							150
155	58.7	310.3	125,000							155
160	57.1	307.0	119,300							160
165	55.5	303.6	113,900	58.8	307.0	105,700				165
170	53.8	299.8	108,900	57.2	303.7	101,000				170
175	52.1	295.9	104,200	55.6	300.2	96,500				175
180	50.4	291.7	99,800	53.9	296.6	92,300				180
185	48.6	287.3	95,600	52.2	292.6	88,300				185
190	46.7	282.5	91,600	50.5	288.5	84,500	53.9	292.1	77,700	190
195	44.8	277.4	87,800	48.7	284.0	81,000	52.2	288.2	74,300	195
200	42.8	272.0	84,200	46.8	279.3	77,600	50.5	284.0	71,100	200
205	40.7	266.1	80,800	44.9	274.2	74,300	48.7	279.6	68,000	205
210	38.6	259.8	77,600	42.9	268.8	71,300	46.8	274.8	65,100	210
215	36.3	253.0	74,500	40.9	263.0	68,300	44.9	269.8	62,400	215
220	33.9	245.6	71,500	38.7	256.7	65,500	42.9	264.4	59,700	220
225	31.3	237.4	68,700	36.5	250.0	62,900	40.9	258.5	57,200	225
230	28.5	228.3	65,900	34.1	242.6	60,300	38.7	252.3	54,800	230
235	25.4	217.9	63,300	31.5	234.4	57,800	36.5	245.5	52,400	235
240	21.9	205.8	60,800	28.7	225.4	55,400	34.1	238.1	50,200	240
245	17.7	191.0	58,300	25.7	215.1	53,100	31.5	230.0	48,000	245
250	12.0	170.5	55,800	22.2	203.2	50,900	28.7	220.9	45,900	250
255				18.0	188.6	48,700	25.6	210.6	43,900	255
260				12.5	168.6	46,600	22.2	198.7	42,000	260
265							18.0	184.1	40,000	265
270							12.5	164.1	38,100	270

# MLC650 S-2

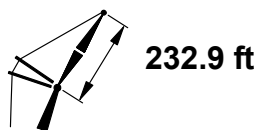
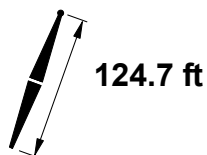
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
85	74.7	358.2	293,300						85	
90	73.4	356.6	275,100						90	
95	72.1	355.0	258,900						95	
100	70.8	353.2	244,500	71.9	354.2	243,800			100	
105	69.5	351.3	231,700	70.6	352.4	231,000			105	
110	68.1	349.2	220,100	69.3	350.4	219,400			110	
115	66.8	347.0	209,500	68.0	348.4	207,700	69.7	349.9	200,100	115
120	65.4	344.7	200,000	66.6	346.2	196,200	68.3	347.8	188,900	120
125	64.1	342.2	190,400	65.3	343.8	185,700	67.0	345.7	178,700	125
130	62.7	339.6	180,600	63.9	341.3	176,100	65.6	343.4	169,400	130
135	61.3	336.8	171,500	62.5	338.7	167,200	64.3	340.9	160,800	135
140	59.8	333.9	163,200	61.1	335.9	159,000	62.9	338.3	152,800	140
145	58.4	330.7	155,400	59.6	332.9	151,400	61.5	335.6	145,400	145
150	56.9	327.4	148,200	58.2	329.7	144,300	60.1	332.6	138,600	150
155	55.4	323.9	141,500	56.7	326.4	137,700	58.6	329.5	132,200	155
160	53.9	320.2	135,200	55.2	322.9	131,600	57.1	326.3	126,200	160
165	52.3	316.3	129,300	53.7	319.2	125,800	55.7	322.8	120,600	165
170	50.7	312.2	123,700	52.1	315.2	120,400	54.1	319.1	115,400	170
175	49.1	307.8	118,500	50.5	311.1	115,300	52.6	315.3	110,400	175
180	47.4	303.2	113,600	48.9	306.7	110,500	51.0	311.2	105,800	180
185	45.7	298.3	109,000	47.2	302.0	105,900	49.4	306.8	101,400	185
190	43.9	293.0	104,600	45.5	297.0	101,600	47.7	302.2	97,200	190
195	42.1	287.5	100,500	43.7	291.8	97,600	46.0	297.4	93,200	195
200	40.2	281.5	96,500	41.8	286.1	93,700	44.2	292.2	89,500	200
205	38.2	275.1	92,800	39.9	280.1	90,000	42.4	286.7	85,900	205
210	36.1	268.3	89,200	37.9	273.7	86,500	40.5	280.8	82,600	210
215	33.9	260.8	85,800	35.8	266.7	83,200	38.5	274.5	79,300	215
220	31.5	252.7	82,500	33.6	259.2	80,000	36.4	267.7	76,200	220
225	29.0	243.7	79,400	31.2	251.0	77,000	34.2	260.3	73,300	225
230	26.2	233.7	76,400	28.6	241.9	74,000	31.9	252.3	70,400	230
235	23.2	222.3	73,500	25.9	231.7	71,200	29.4	243.5	67,700	235
240	19.6	208.8	70,700	22.7	220.0	68,500	26.7	233.7	65,100	240
245	15.3	191.7	68,000	19.1	206.2	65,900	23.7	222.5	62,600	245
250	8.8	165.8	65,300	14.6	188.4	63,300	20.2	209.4	60,100	250
255				7.4	159.8	60,700	16.0	193.1	57,700	255
260							10.1	169.5	55,400	260
265										265
270										270
275										275
280										280
285										285
290										290

# MLC650 S-2

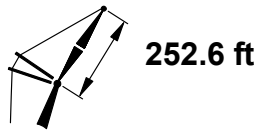
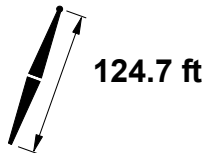
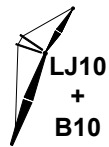
ASME B30.5



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	338.6	135,600							145
150	63.1	336.0	129,100							150
155	61.7	333.3	123,100							155
160	60.2	330.4	117,400							160
165	58.8	327.3	112,100							165
170	57.3	324.0	107,100							170
175	55.8	320.6	102,400	58.9	323.9	94,500				175
180	54.3	317.0	98,000	57.4	320.7	90,400				180
185	52.8	313.1	93,800	55.9	317.3	86,400				185
190	51.2	309.0	89,900	54.4	313.7	82,700				190
195	49.6	304.7	86,100	52.9	309.8	79,100				195
200	47.9	300.2	82,600	51.3	305.8	75,800	54.4	309.2	69,100	200
205	46.2	295.3	79,200	49.7	301.5	72,600	52.9	305.4	66,100	205
210	44.4	290.2	76,000	48.0	296.9	69,500	51.3	301.3	63,200	210
215	42.6	284.7	72,900	46.3	292.1	66,600	49.7	297.0	60,500	215
220	40.7	278.9	70,000	44.5	287.0	63,900	48.0	292.5	57,900	220
225	38.7	272.6	67,200	42.7	281.6	61,200	46.3	287.7	55,400	225
230	36.7	265.9	64,500	40.8	275.7	58,700	44.5	282.6	53,000	230
235	34.5	258.6	61,900	38.9	269.5	56,300	42.7	277.1	50,700	235
240	32.2	250.7	59,500	36.8	262.8	53,900	40.8	271.3	48,500	240
245	29.7	242.0	57,100	34.6	255.6	51,700	38.9	265.1	46,400	245
250	27.0	232.3	54,800	32.4	247.7	49,500	36.8	258.4	44,400	250
255	24.1	221.3	52,600	29.9	239.0	47,400	34.6	251.1	42,400	255
260	20.7	208.5	50,400	27.2	229.4	45,400	32.3	243.2	40,500	260
265	16.6	192.7	48,300	24.3	218.5	43,500	29.9	234.6	38,700	265
270	11.0	170.5	46,200	20.9	205.9	41,600	27.2	225.0	36,900	270
275				16.9	190.3	39,700	24.3	214.1	35,200	275
280				11.5	168.8	37,800	20.9	201.4	33,500	280
285							16.9	185.8	31,800	285
290							11.5	164.3	30,100	290

# MLC650 S-2

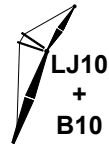
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
90	74.7	377.2	249,800						90	
95	73.5	375.7	248,600						95	
100	72.3	374.1	244,600						100	
105	71.1	372.3	231,800	72.2	373.3	231,100			105	
110	69.9	370.4	220,200	71.0	371.5	217,300			110	
115	68.7	368.5	209,700	69.8	369.6	204,700			115	
120	67.5	366.3	198,300	68.5	367.6	193,300			120	
125	66.2	364.1	187,600	67.3	365.5	182,800	68.9	367.1	175,700	
130	65.0	361.7	177,800	66.1	363.2	173,300	67.7	365.0	166,400	
135	63.7	359.2	168,800	64.8	360.8	164,400	66.4	362.8	157,800	
140	62.4	356.6	160,500	63.5	358.3	156,200	65.2	360.4	149,900	
145	61.1	353.8	152,700	62.3	355.6	148,700	63.9	357.9	142,600	
150	59.8	350.8	145,600	60.9	352.8	141,600	62.6	355.3	135,800	
155	58.5	347.7	138,900	59.6	349.8	135,100	61.3	352.5	129,400	
160	57.1	344.4	132,600	58.3	346.7	128,900	60.0	349.6	123,500	
165	55.7	341.0	126,700	56.9	343.4	123,200	58.7	346.5	117,900	
170	54.3	337.3	121,200	55.6	339.9	117,800	57.3	343.3	112,700	
175	52.9	333.5	116,000	54.2	336.3	112,700	56.0	339.8	107,700	
180	51.5	329.5	111,200	52.7	332.4	107,900	54.6	336.2	103,100	
185	50.0	325.3	106,600	51.3	328.4	103,400	53.1	332.4	98,700	
190	48.4	320.8	102,200	49.8	324.1	99,200	51.7	328.5	94,600	
195	46.9	316.1	98,100	48.2	319.6	95,100	50.2	324.3	90,700	
200	45.3	311.1	94,200	46.7	314.9	91,300	48.7	319.8	87,000	
205	43.6	305.8	90,400	45.1	309.8	87,600	47.1	315.1	83,400	
210	41.9	300.2	86,900	43.4	304.5	84,100	45.5	310.2	80,100	
215	40.2	294.3	83,500	41.7	298.9	80,800	43.9	305.0	76,900	
220	38.3	287.9	80,300	39.9	292.9	77,700	42.2	299.4	73,800	
225	36.4	281.1	77,200	38.1	286.5	74,700	40.5	293.5	70,900	
230	34.4	273.8	74,200	36.2	279.6	71,800	38.6	287.3	68,100	
235	32.3	265.9	71,400	34.2	272.3	69,000	36.7	280.5	65,400	
240	30.1	257.3	68,700	32.0	264.3	66,300	34.8	273.3	62,800	
245	27.6	247.9	66,100	29.7	255.6	63,800	32.7	265.5	60,300	
250	25.0	237.3	63,600	27.3	246.0	61,300	30.4	257.1	58,000	
255	22.0	225.2	61,100	24.6	235.2	58,900	28.0	247.7	55,700	
260	18.6	210.9	58,700	21.6	222.9	56,600	25.4	237.4	53,500	
265	14.3	192.8	56,400	18.1	208.2	54,400	22.5	225.5	51,300	
270	7.8	164.5	54,100	13.6	189.3	52,200	19.2	211.7	49,200	
275				6.4	157.7	49,900	15.1	194.3	47,200	
280							9.2	168.9	45,100	
285									285	
290									290	
295									295	
300									300	
310									310	

# MLC650 S-2

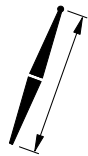
ASME B30.5



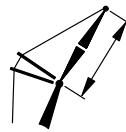
661,300 lb



360°



124.7 ft

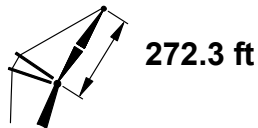
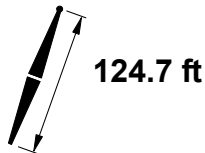
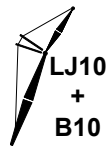


252.6 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155	64.1	355.6	120,100							155
160	62.8	353.0	114,400							160
165	61.5	350.2	109,200							165
170	60.2	347.3	104,200							170
175	58.8	344.2	99,500							175
180	57.5	341.0	95,200							180
185	56.1	337.6	91,000	58.9	340.9	83,400				185
190	54.7	334.0	87,100	57.6	337.7	79,700				190
195	53.3	330.3	83,400	56.2	334.3	76,200				195
200	51.9	326.3	79,900	54.8	330.7	72,900				200
205	50.4	322.1	76,500	53.4	327.0	69,700				205
210	48.9	317.7	73,300	52.0	323.0	66,700	54.8	326.3	60,300	210
215	47.3	313.1	70,300	50.5	318.9	63,800	53.4	322.5	57,600	215
220	45.7	308.2	67,400	49.0	314.5	61,100	52.0	318.6	55,000	220
225	44.1	303.0	64,600	47.4	309.9	58,500	50.5	314.4	52,500	225
230	42.4	297.5	62,000	45.8	305.0	56,000	49.0	310.0	50,100	230
235	40.7	291.6	59,400	44.2	299.8	53,600	47.4	305.4	47,900	235
240	38.9	285.4	57,000	42.5	294.3	51,300	45.8	300.5	45,700	240
245	37.0	278.7	54,700	40.8	288.5	49,100	44.2	295.3	43,600	245
250	35.0	271.6	52,400	39.0	282.3	47,000	42.5	289.9	41,600	250
255	32.9	263.9	50,200	37.1	275.7	44,900	40.8	284.0	39,700	255
260	30.7	255.5	48,200	35.1	268.5	42,900	39.0	277.8	37,900	260
265	28.3	246.3	46,100	33.1	260.9	41,000	37.1	271.2	36,100	265
270	25.7	236.0	44,200	30.9	252.5	39,200	35.1	264.1	34,300	270
275	22.9	224.4	42,300	28.5	243.4	37,400	33.1	256.4	32,700	275
280	19.6	210.9	40,400	25.9	233.2	35,700	30.8	248.1	31,000	280
285	15.6	194.1	38,600	23.1	221.7	34,000	28.5	238.9	29,500	285
290		170.2	36,800	19.8	208.3	32,400	25.9	228.8	28,000	290
295				15.9	191.8	30,800	23.1	217.2	26,500	295
300				10.6	168.7	29,100	19.8	203.8	25,000	300
310							10.5	164.2	22,100	310

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
95	74.8	396.2	213,600						95	
100	73.7	394.7	212,600						100	
105	72.6	393.1	211,500						105	
110	71.4	391.4	210,400	72.4	392.3	208,600			110	
115	70.3	389.6	207,900	71.3	390.6	202,600			115	
120	69.2	387.7	196,300	70.2	388.8	191,200			120	
125	68.1	385.6	185,700	69.0	386.8	180,800			125	
130	66.9	383.4	176,000	67.9	384.8	171,300	69.4	386.3	164,300	130
135	65.8	381.1	167,000	66.8	382.6	162,500	68.2	384.2	155,800	135
140	64.6	378.7	158,700	65.6	380.3	154,400	67.1	382.1	147,900	140
145	63.4	376.2	151,000	64.4	377.8	146,800	65.9	379.8	140,600	145
150	62.2	373.5	143,800	63.2	375.3	139,800	64.8	377.4	133,900	150
155	61.0	370.7	137,200	62.1	372.6	133,300	63.6	374.9	127,500	155
160	59.8	367.8	130,900	60.8	369.8	127,200	62.4	372.3	121,600	160
165	58.5	364.7	125,100	59.6	366.8	121,500	61.2	369.5	116,100	165
170	57.3	361.4	119,600	58.4	363.7	116,100	60.0	366.5	110,900	170
175	56.0	358.0	114,500	57.1	360.4	111,100	58.7	363.5	106,000	175
180	54.7	354.4	109,600	55.8	357.0	106,300	57.5	360.2	101,400	180
185	53.4	350.7	105,000	54.6	353.4	101,800	56.2	356.9	97,000	185
190	52.1	346.7	100,700	53.2	349.6	97,600	54.9	353.3	92,900	190
195	50.7	342.6	96,600	51.9	345.6	93,600	53.6	349.6	89,000	195
200	49.3	338.3	92,700	50.5	341.5	89,700	52.3	345.7	85,300	200
205	47.9	333.7	89,000	49.1	337.1	86,100	50.9	341.6	81,800	205
210	46.4	328.9	85,500	47.7	332.5	82,700	49.5	337.3	78,500	210
215	44.9	323.9	82,100	46.2	327.7	79,400	48.1	332.8	75,300	215
220	43.4	318.6	78,900	44.7	322.6	76,200	46.7	328.0	72,300	220
225	41.8	313.0	75,800	43.2	317.3	73,300	45.2	323.0	69,400	225
230	40.2	307.0	72,900	41.6	311.6	70,400	43.7	317.7	66,600	230
235	38.5	300.7	70,100	40.0	305.6	67,600	42.1	312.2	63,900	235
240	36.7	294.0	67,400	38.3	299.3	65,000	40.5	306.3	61,400	240
245	34.9	286.8	64,900	36.5	292.5	62,500	38.8	300.0	59,000	245
250	33.0	279.1	62,400	34.6	285.3	60,100	37.0	293.4	56,600	250
255	30.9	270.8	60,000	32.7	277.5	57,700	35.2	286.3	54,400	255
260	28.7	261.7	57,700	30.6	269.1	55,500	33.3	278.7	52,200	260
265	26.4	251.8	55,500	28.4	259.9	53,300	31.3	270.5	50,100	265
270	23.8	240.6	53,300	26.1	249.8	51,200	29.1	261.5	48,100	270
275	21.0	227.9	51,200	23.5	238.5	49,200	26.8	251.7	46,100	275
280	17.6	212.8	49,200	20.5	225.5	47,200	24.3	240.8	44,200	280
285	13.4	193.6	47,200	17.1	210.0	45,300	21.4	228.4	42,300	285
290	6.9	162.8	45,100	12.8	190.0	43,400	18.2	213.7	40,500	290
295				5.3	154.8	41,400	14.2	195.4	38,800	295
300							8.3	167.9	36,900	300
310										310
320										320



# MLC650 S-2

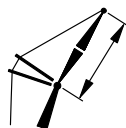
ASME B30.5



661,300 lb



124.7 ft

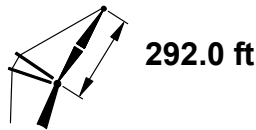
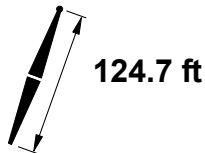
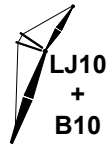


272.3 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	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	64.9	375.1	112,400							160
165	63.7	372.6	107,200							165
170	62.5	369.9	102,300							170
175	61.3	367.2	97,600							175
180	60.1	364.3	93,300							180
185	58.9	361.2	89,200							185
190	57.6	358.0	85,300							190
195	56.4	354.6	81,600	59.0	357.9	74,300				195
200	55.1	351.1	78,100	57.7	354.7	71,000				200
205	53.8	347.4	74,800	56.5	351.3	67,800				205
210	52.4	343.5	71,600	55.2	347.8	64,800				210
215	51.1	339.5	68,600	53.9	344.1	62,000				215
220	49.7	335.2	65,700	52.5	340.2	59,300				220
225	48.3	330.7	63,000	51.2	336.2	56,700	53.9	339.7	50,600	225
230	46.8	326.0	60,300	49.8	331.9	54,200	52.5	335.8	48,300	230
235	45.4	321.0	57,800	48.4	327.4	51,800	51.2	331.7	46,000	235
240	43.8	315.8	55,400	46.9	322.7	49,600	49.8	327.5	43,900	240
245	42.3	310.2	53,100	45.5	317.8	47,400	48.4	323.0	41,800	245
250	40.7	304.4	50,900	43.9	312.6	45,300	46.9	318.3	39,800	250
255	39.0	298.2	48,800	42.4	307.1	43,300	45.5	313.3	37,900	255
260	37.2	291.6	46,700	40.8	301.2	41,300	43.9	308.1	36,100	260
265	35.4	284.5	44,700	39.1	295.1	39,500	42.4	302.6	34,400	265
270	33.5	277.0	42,800	37.4	288.5	37,700	40.8	296.8	32,700	270
275	31.5	268.9	41,000	35.5	281.5	35,900	39.1	290.6	31,000	275
280	29.4	260.0	39,200	33.6	274.0	34,300	37.3	284.0	29,400	280
285	27.1	250.3	37,500	31.6	265.9	32,600	35.5	277.0	27,900	285
290	24.6	239.6	35,800	29.5	257.1	31,100	33.6	269.5	26,400	290
295	21.8	227.3	34,100	27.2	247.5	29,500	31.6	261.4	25,000	295
300	18.6	213.0	32,500	24.8	236.8	28,000	29.5	252.6	23,600	300
310	9.2	169.7	29,300	18.8	210.5	25,100	24.7	232.3	20,900	310
320				9.7	168.3	22,300	18.8	206.0	18,300	320

# MLC650 S-2

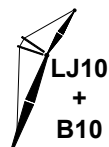
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
100	74.8	415.3	178,600						100	
105	73.8	413.8	177,500						105	
110	72.7	412.2	176,400						110	
115	71.7	410.5	175,300	72.6	411.4	174,000			115	
120	70.7	408.7	174,100	71.6	409.7	173,100			120	
125	69.6	406.8	172,900	70.5	407.9	172,200			125	
130	68.6	404.8	171,700	69.5	406.0	168,200			130	
135	67.5	402.7	164,000	68.4	404.0	159,400	69.8	405.5	152,600	
140	66.4	400.5	155,700	67.3	401.9	151,300	68.7	403.5	144,800	
145	65.3	398.2	148,000	66.3	399.7	143,800	67.7	401.4	137,500	
150	64.2	395.7	140,900	65.2	397.3	136,800	66.6	399.2	130,800	
155	63.1	393.2	134,300	64.1	394.8	130,300	65.5	396.9	124,500	
160	62.0	390.5	128,100	63.0	392.3	124,300	64.4	394.4	118,600	
165	60.9	387.7	122,200	61.9	389.5	118,600	63.3	391.9	113,100	
170	59.8	384.7	116,800	60.8	386.7	113,200	62.2	389.2	107,900	
175	58.6	381.6	111,700	59.6	383.7	108,200	61.1	386.4	103,000	
180	57.4	378.4	106,800	58.5	380.6	103,500	59.9	383.5	98,400	
185	56.3	375.0	102,200	57.3	377.4	99,000	58.8	380.4	94,100	
190	55.1	371.5	97,900	56.1	374.0	94,800	57.6	377.2	90,000	
195	53.8	367.8	93,800	54.9	370.4	90,700	56.4	373.9	86,100	
200	52.6	363.9	89,900	53.7	366.7	86,900	55.2	370.4	82,500	
205	51.3	359.9	86,300	52.4	362.9	83,300	54.0	366.7	79,000	
210	50.1	355.7	82,800	51.2	358.8	79,900	52.8	362.9	75,600	
215	48.7	351.3	79,400	49.9	354.5	76,600	51.5	358.9	72,500	
220	47.4	346.6	76,200	48.6	350.1	73,500	50.3	354.7	69,500	
225	46.0	341.8	73,200	47.2	345.4	70,500	49.0	350.3	66,600	
230	44.6	336.7	70,300	45.9	340.6	67,700	47.6	345.7	63,800	
235	43.2	331.3	67,500	44.5	335.4	65,000	46.3	340.9	61,200	
240	41.7	325.7	64,800	43.0	330.0	62,300	44.9	335.8	58,600	
245	40.2	319.8	62,300	41.5	324.4	59,800	43.4	330.5	56,200	
250	38.6	313.5	59,800	40.0	318.4	57,400	42.0	324.9	53,900	
255	37.0	306.8	57,400	38.4	312.1	55,100	40.4	319.0	51,700	
260	35.3	299.8	55,200	36.8	305.4	52,900	38.9	312.8	49,500	
265	33.5	292.2	53,000	35.1	298.2	50,800	37.3	306.2	47,400	
270	31.7	284.1	50,900	33.3	290.6	48,700	35.6	299.2	45,400	
275	29.7	275.4	48,800	31.4	282.4	46,700	33.8	291.8	43,500	
280	27.6	265.9	46,800	29.4	273.6	44,800	32.0	283.8	41,600	
285	25.3	255.4	44,900	27.3	264.0	42,900	30.0	275.1	39,800	
290	22.8	243.8	43,100	25.0	253.4	41,100	27.9	265.8	38,100	
295	20.0	230.4	41,300	22.5	241.5	39,300	25.7	255.5	36,400	
300	16.7	214.6	39,500	19.6	227.9	37,600	23.2	244.0	34,700	
310	5.9	160.4	35,900	12.0	190.4	34,200	17.3	215.6	31,500	
320							7.5	166.5	28,400	
330									330	

# MLC650 S-2

ASME B30.5



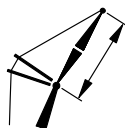
661,300 lb



360°



124.7 ft

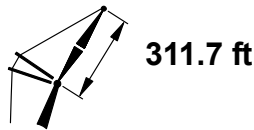
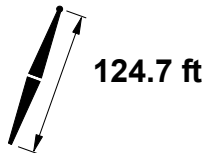
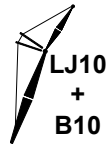


292.0 ft

	75°			70°			65°			
	ft	ft	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	64.6	392.1	99,100						170	
175	63.5	389.6	94,500						175	
180	62.3	386.9	90,200						180	
185	61.2	384.1	86,100						185	
190	60.1	381.2	82,200						190	
195	58.9	378.2	78,500						195	
200	57.8	375.0	75,100						200	
205	56.6	371.6	71,800	59.0	374.8	64,700			205	
210	55.4	368.2	68,600	57.8	371.6	61,700			210	
215	54.2	364.5	65,600	56.7	368.3	58,900			215	
220	52.9	360.7	62,800	55.5	364.8	56,200			220	
225	51.7	356.7	60,000	54.3	361.2	53,600			225	
230	50.4	352.6	57,400	53.0	357.4	51,200			230	
235	49.1	348.2	54,900	51.8	353.4	48,800	54.3	356.8	42,900	235
240	47.8	343.6	52,600	50.5	349.3	46,600	53.0	353.0	40,800	240
245	46.4	338.8	50,300	49.2	344.9	44,400	51.8	349.0	38,700	245
250	45.0	333.8	48,100	47.9	340.4	42,300	50.5	344.8	36,800	250
255	43.6	328.5	45,900	46.5	335.6	40,400	49.2	340.5	34,900	255
260	42.1	323.0	43,900	45.1	330.6	38,400	47.9	335.9	33,100	260
265	40.6	317.1	42,000	43.7	325.3	36,600	46.5	331.2	31,400	265
270	39.1	310.9	40,100	42.2	319.8	34,800	45.1	326.1	29,700	270
275	37.5	304.4	38,200	40.7	314.0	33,100	43.7	320.9	28,100	275
280	35.8	297.5	36,500	39.2	307.8	31,400	42.2	315.3	26,500	280
285	34.0	290.0	34,800	37.6	301.3	29,800	40.7	309.5	25,000	285
290	32.2	282.1	33,100	35.9	294.4	28,300	39.2	303.4	23,500	290
295	30.2	273.6	31,500	34.1	287.0	26,800	37.6	296.8	22,100	295
300	28.2	264.3	30,000	32.3	279.1	25,300	35.9	289.9	20,800	300
310	23.5	242.8	27,000	28.3	261.4	22,500	32.3	274.7	18,000	310
320	17.7	215.0	24,200	23.7	240.1	19,900				320
330	8.4	168.7	21,300							330

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
105	74.8	434.3	152,600						105	
110	73.9	432.9	151,600						110	
115	72.9	431.3	150,600						115	
120	71.9	429.6	149,600	72.8	430.5	148,500			120	
125	71.0	427.9	148,500	71.8	428.8	147,700			125	
130	70.0	426.0	147,400	70.8	427.1	146,800			130	
135	69.0	424.1	146,300	69.8	425.2	145,900			135	
140	68.0	422.0	145,200	68.9	423.2	144,900			140	
145	67.0	419.8	144,100	67.9	421.2	142,000	69.1	422.7	135,600	145
150	66.0	417.6	139,200	66.9	419.0	135,100	68.2	420.6	128,900	150
155	65.0	415.2	132,600	65.9	416.7	128,600	67.2	418.5	122,600	155
160	63.9	412.7	126,400	64.8	414.3	122,500	66.2	416.3	116,800	160
165	62.9	410.2	120,600	63.8	411.8	116,900	65.1	413.9	111,300	165
170	61.9	407.4	115,200	62.8	409.2	111,500	64.1	411.4	106,100	170
175	60.8	404.6	110,100	61.7	406.5	106,500	63.1	408.9	101,300	175
180	59.7	401.7	105,200	60.7	403.7	101,800	62.0	406.2	96,700	180
185	58.7	398.6	100,700	59.6	400.7	97,400	61.0	403.4	92,400	185
190	57.6	395.4	96,400	58.5	397.6	93,100	59.9	400.4	88,300	190
195	56.5	392.0	92,300	57.4	394.4	89,200	58.8	397.4	84,500	195
200	55.3	388.5	88,400	56.3	391.0	85,400	57.7	394.2	80,800	200
205	54.2	384.9	84,800	55.2	387.5	81,800	56.6	390.9	77,300	205
210	53.1	381.1	81,300	54.1	383.8	78,400	55.5	387.4	74,000	210
215	51.9	377.2	77,900	52.9	380.0	75,100	54.4	383.8	70,900	215
220	50.7	373.0	74,800	51.7	376.1	72,000	53.2	380.0	67,900	220
225	49.5	368.7	71,700	50.5	371.9	69,000	52.1	376.1	65,000	225
230	48.2	364.2	68,800	49.3	367.6	66,200	50.9	372.0	62,200	230
235	47.0	359.5	66,100	48.1	363.0	63,500	49.7	367.7	59,600	235
240	45.7	354.6	63,400	46.8	358.3	60,900	48.4	363.3	57,100	240
245	44.4	349.5	60,900	45.5	353.4	58,400	47.2	358.6	54,700	245
250	43.0	344.1	58,400	44.2	348.2	56,000	45.9	353.7	52,400	250
255	41.6	338.5	56,100	42.8	342.8	53,700	44.6	348.6	50,200	255
260	40.2	332.5	53,800	41.5	337.1	51,500	43.2	343.3	48,000	260
265	38.7	326.3	51,600	40.0	331.1	49,400	41.9	337.7	46,000	265
270	37.2	319.7	49,500	38.5	324.8	47,300	40.4	331.8	44,000	270
275	35.6	312.7	47,500	37.0	318.2	45,300	39.0	325.6	42,100	275
280	34.0	305.3	45,600	35.4	311.2	43,400	37.5	319.0	40,200	280
285	32.3	297.4	43,700	33.8	303.7	41,600	35.9	312.1	38,400	285
290	30.5	288.9	41,800	32.0	295.7	39,800	34.3	304.8	36,700	290
295	28.6	279.8	40,100	30.2	287.2	38,100	32.6	297.0	35,100	295
300	26.5	269.8	38,400	28.3	277.9	36,400	30.8	288.6	33,400	300
310	21.9	246.7	35,100	24.0	256.8	33,200	26.8	269.8	30,300	310
320	16.0	216.1	31,900	18.8	230.1	30,100	22.3	247.0	27,400	320
330	5.0	157.2	28,700	11.2	190.6	27,100	16.5	217.3	24,600	330
340							6.6	164.6	21,700	340

# MLC650 S-2

ASME B30.5



661,300 lb



124.7 ft

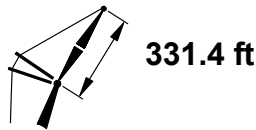
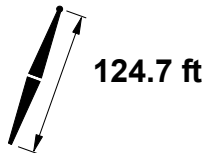
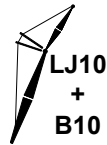


311.7 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	409.1	88,300							180
185	63.2	406.6	84,200							185
190	62.2	403.9	80,400							190
195	61.1	401.1	76,700							195
200	60.0	398.2	73,300							200
205	59.0	395.1	70,000							205
210	57.9	392.0	66,900							210
215	56.8	388.6	63,900	59.0	391.8	57,000				215
220	55.7	385.2	61,000	58.0	388.6	54,400				220
225	54.5	381.6	58,300	56.9	385.3	51,800				225
230	53.4	377.9	55,700	55.7	381.9	49,400				230
235	52.2	373.9	53,300	54.6	378.3	47,000				235
240	51.0	369.9	50,900	53.5	374.6	44,800				240
245	49.8	365.6	48,600	52.3	370.7	42,700	54.6	373.8	36,900	245
250	48.6	361.2	46,400	51.1	366.6	40,600	53.5	370.1	34,900	250
255	47.3	356.5	44,300	49.9	362.3	38,600	52.3	366.2	33,100	255
260	46.1	351.7	42,300	48.7	357.9	36,700	51.1	362.1	31,300	260
265	44.7	346.6	40,400	47.4	353.3	34,900	49.9	357.9	29,600	265
270	43.4	341.3	38,500	46.1	348.5	33,100	48.7	353.5	27,900	270
275	42.0	335.7	36,700	44.8	343.4	31,400	47.4	348.8	26,300	275
280	40.6	329.9	35,000	43.5	338.1	29,800	46.1	344.0	24,800	280
285	39.2	323.7	33,300	42.1	332.6	28,200	44.8	339.0	23,300	285
290	37.7	317.2	31,600	40.7	326.7	26,700	43.5	333.7	21,800	290
295	36.1	310.3	30,100	39.3	320.6	25,200	42.1	328.1	20,400	295
300	34.5	303.1	28,500	37.8	314.1	23,800	40.7	322.3	19,000	300
310	31.0	287.0	25,600	34.6	300.0	21,000				310
320	27.1	268.4	22,900	31.1	284.0	18,400				320
330	22.6	245.9	20,300							330
340										340

# MLC650 S-2

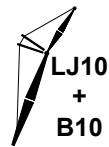
ASME B30.5



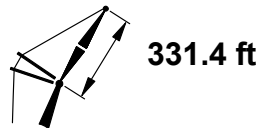
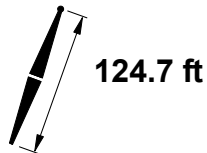
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
110	74.9	453.4	130,100						110	
115	74.0	451.9	128,900						115	
120	73.0	450.4	127,900						120	
125	72.1	448.7	127,000	72.9	449.6	126,100			125	
130	71.2	447.0	126,000	72.0	447.9	125,300			130	
135	70.3	445.2	125,000	71.1	446.2	124,500			135	
140	69.4	443.2	124,000	70.2	444.3	123,600			140	
145	68.4	441.2	123,000	69.3	442.4	122,800			145	
150	67.5	439.1	122,000	68.3	440.4	121,900	69.5	441.9	119,700	150
155	66.6	436.9	121,100	67.4	438.3	121,000	68.6	439.9	119,000	155
160	65.6	434.6	120,000	66.4	436.1	119,700	67.7	437.8	113,800	160
165	64.7	432.2	117,900	65.5	433.8	114,100	66.7	435.6	108,400	165
170	63.7	429.7	112,400	64.5	431.3	108,700	65.8	433.3	103,200	170
175	62.7	427.1	107,300	63.6	428.8	103,800	64.8	430.9	98,400	175
180	61.7	424.4	102,500	62.6	426.2	99,000	63.8	428.4	93,900	180
185	60.7	421.6	98,000	61.6	423.5	94,600	62.9	425.8	89,600	185
190	59.7	418.6	93,700	60.6	420.6	90,400	61.9	423.1	85,500	190
195	58.7	415.6	89,600	59.6	417.7	86,400	60.9	420.3	81,700	195
200	57.7	412.4	85,800	58.6	414.6	82,700	59.9	417.4	78,000	200
205	56.6	409.0	82,100	57.5	411.4	79,100	58.9	414.3	74,500	205
210	55.6	405.6	78,600	56.5	408.0	75,700	57.9	411.2	71,200	210
215	54.5	402.0	75,300	55.5	404.5	72,400	56.8	407.9	68,100	215
220	53.5	398.3	72,100	54.4	400.9	69,300	55.8	404.4	65,100	220
225	52.4	394.4	69,100	53.3	397.2	66,400	54.7	400.9	62,300	225
230	51.2	390.3	66,200	52.2	393.3	63,500	53.6	397.2	59,500	230
235	50.1	386.1	63,500	51.1	389.2	60,800	52.5	393.3	56,900	235
240	49.0	381.7	60,800	50.0	385.0	58,300	51.4	389.3	54,400	240
245	47.8	377.2	58,300	48.8	380.6	55,800	50.3	385.1	52,000	245
250	46.6	372.4	55,900	47.6	376.0	53,400	49.2	380.7	49,700	250
255	45.4	367.4	53,500	46.4	371.2	51,100	48.0	376.2	47,500	255
260	44.1	362.3	51,300	45.2	366.2	48,900	46.8	371.5	45,400	260
265	42.9	356.9	49,100	44.0	361.0	46,800	45.6	366.5	43,300	265
270	41.6	351.2	47,000	42.7	355.6	44,700	44.3	361.4	41,400	270
275	40.2	345.3	45,000	41.4	349.9	42,800	43.1	356.0	39,500	275
280	38.8	339.0	43,100	40.0	343.9	40,900	41.8	350.4	37,600	280
285	37.4	332.5	41,200	38.7	337.6	39,100	40.4	344.5	35,900	285
290	35.9	325.6	39,400	37.2	331.0	37,300	39.1	338.3	34,100	290
295	34.4	318.3	37,600	35.7	324.1	35,600	37.6	331.8	32,500	295
300	32.8	310.5	35,900	34.2	316.7	33,900	36.2	325.0	30,900	300
310	29.4	293.4	32,700	30.9	300.6	30,800	33.1	310.1	27,800	310
320	25.5	273.6	29,700	27.3	282.0	27,800	29.7	293.2	25,000	320
330	21.0	249.4	26,700	23.1	260.0	24,900	25.9	273.6	22,200	330
340	15.2	217.4	24,000	18.0	232.2	22,200	21.4	249.9	19,600	340
350	3.9	152.9	18,000	10.6	190.5	19,600				350

# MLC650 S-2

ASME B30.5



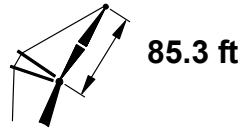
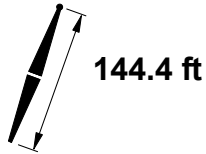
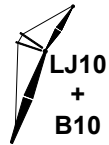
661,300 lb



	75°			70°			65°			
	ft	ft	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	64.9	428.6	81,200						185	
190	64.0	426.1	77,400						190	
195	63.0	423.5	73,800						195	
200	62.0	420.8	70,300						200	
205	61.0	418.0	67,100						205	
210	60.0	415.1	64,000						210	
215	59.0	412.1	61,000						215	
220	58.0	408.9	58,200						220	
225	56.9	405.6	55,500	59.1	408.7	48,800			225	
230	55.9	402.2	52,900	58.0	405.6	46,400			230	
235	54.8	398.7	50,400	57.0	402.3	44,100			235	
240	53.8	395.0	48,100	56.0	398.9	41,900			240	
245	52.7	391.1	45,800	54.9	395.4	39,700			245	
250	51.6	387.1	43,600	53.8	391.7	37,700			250	
255	50.4	383.0	41,600	52.7	387.8	35,700	54.9	390.9	30,100	255
260	49.3	378.6	39,500	51.6	383.9	33,800	53.8	387.2	28,300	260
265	48.1	374.1	37,600	50.5	379.7	32,000	52.7	383.4	26,600	265
270	46.9	369.4	35,800	49.4	375.4	30,300	51.6	379.4	24,900	270
275	45.7	364.5	34,000	48.2	370.9	28,600	50.5	375.3	23,400	275
280	44.5	359.4	32,200	47.0	366.2	27,000	49.4	370.9	21,800	280
285	43.2	354.1	30,600	45.8	361.3	25,400	48.2	366.4	20,100	285
290	41.9	348.5	29,000	44.6	356.2	23,900	47.0	361.7	18,400	290
295	40.6	342.6	27,400	43.3	350.9	22,400				295
300	39.2	336.5	25,900	42.0	345.3	21,000				300
310	36.4	323.2	23,000	39.3	333.3	18,100				310
320	33.3	308.4	20,300							320
330										330
340										340
350										350

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
50	73.0	234.6	547,500 <b>c</b>						50	
55	69.4	232.6	492,400 <b>c</b>						55	
60	65.7	230.2	442,600 <b>c</b>	69.4	232.0	441,000 <b>c</b>			60	
65	61.8	227.4	401,900 <b>b</b>	65.7	229.6	400,500 <b>b</b>			65	
70	57.8	224.1	368,000 <b>b</b>	61.8	226.8	366,700 <b>b</b>	67.5	229.5	364,800 <b>b</b>	70
75	53.6	220.3	339,500	57.8	223.5	338,200 <b>b</b>	63.8	226.9	336,400 <b>b</b>	75
80	49.1	215.9	315,000	53.6	219.7	313,800	59.8	223.9	312,200 <b>b</b>	80
85	44.3	210.7	293,900	49.1	215.3	292,700	55.7	220.4	291,100	85
90	38.9	204.4	275,400	44.3	210.0	274,300	51.4	216.3	272,800	90
95	32.7	196.7	259,100	38.9	203.8	258,100	46.7	211.5	256,600	95
100	25.0	186.3	244,800	32.7	196.0	243,700	41.7	205.8	242,200	100
105	12.7	168.8	232,100	25.0	185.7	230,900	35.9	198.8	229,400	105
110				12.8	168.3	219,500	29.1	190.0	217,900	110
115							20.0	177.4	207,600	115
120									120	
125									125	
130									130	
135									135	
140									140	
145									145	
150									150	

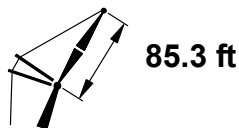
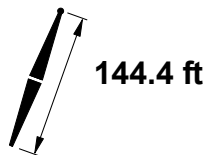


# MLC650 S-2

ASME B30.5



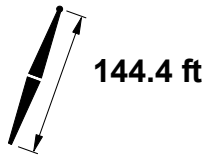
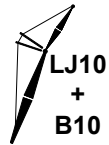
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.7	222.3	270,500							90
95	57.6	219.0	254,400							95
100	53.4	215.2	240,100							100
105	48.9	210.7	227,400	59.2	216.3	217,100				105
110	44.0	205.5	215,900	55.1	212.7	204,400				110
115	38.6	199.2	204,600	50.7	208.5	193,000				115
120	32.4	191.3	193,500	46.0	203.6	182,500				120
125	24.6	180.9	183,200	40.8	197.7	172,900	52.1	204.8	162,600	125
130	11.8	162.5	173,300	35.0	190.6	164,000	47.5	200.1	154,300	130
135				28.0	181.4	155,700	42.5	194.6	146,600	135
140				18.2	167.7	147,900	36.9	187.9	139,400	140
145							30.3	179.5	132,600	145
150							21.8	167.7	126,200	150

# MLC650 S-2

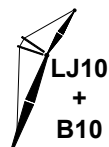
ASME B30.5



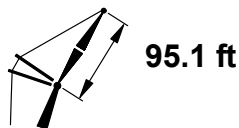
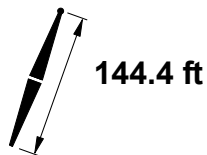
	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
50	74.8	245.0	543,100 <b>c</b>						50	
55	71.6	243.2	492,400 <b>c</b>						55	
60	68.4	241.1	442,600 <b>b</b>	71.7	242.6	441,100 <b>b</b>			60	
65	65.0	238.7	402,000 <b>b</b>	68.4	240.5	400,600 <b>b</b>			65	
70	61.6	235.9	368,200 <b>b</b>	65.0	238.1	366,900 <b>b</b>			70	
75	58.0	232.6	339,600	61.6	235.2	338,400 <b>b</b>	66.7	238.0	336,700 <b>b</b>	75
80	54.3	228.9	315,200	58.0	232.0	314,000	63.3	235.4	312,400	80
85	50.3	224.7	294,000	54.3	228.3	292,900	59.8	232.4	291,400	85
90	46.1	219.8	275,500	50.3	224.1	274,500	56.2	228.9	273,000	90
95	41.5	214.0	259,200	46.1	219.2	258,200	52.3	225.0	256,800	95
100	36.4	207.2	244,700	41.5	213.4	243,800	48.2	220.4	242,400	100
105	30.6	198.9	231,800	36.5	206.6	230,900	43.9	215.1	229,600	105
110	23.2	187.8	220,300	30.6	198.3	219,300	39.1	208.9	218,000	110
115	11.3	168.5	210,000	23.3	187.2	208,900	33.6	201.4	207,600	115
120				11.3	168.0	199,600	27.2	191.9	198,200	120
125							18.4	178.2	189,600	125
130									130	
135									135	
140									140	
145									145	
150									150	
155									155	
160									160	

# MLC650 S-2

ASME B30.5



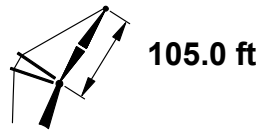
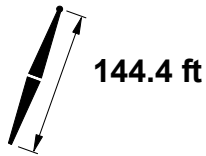
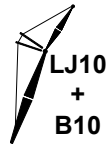
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	64.9	233.6	270,700							90
95	61.4	230.8	254,600							95
100	57.8	227.6	240,400							100
105	54.1	223.8	227,600							105
110	50.1	219.5	214,700	59.3	224.8	202,000				110
115	45.9	214.6	202,700	55.6	221.3	190,600				115
120	41.3	208.8	191,700	51.7	217.2	180,300				120
125	36.2	202.0	181,600	47.6	212.6	170,800				125
130	30.3	193.5	172,300	43.2	207.2	162,100	53.0	213.5	151,900	130
135	22.9	182.2	163,600	38.3	200.8	154,000	48.9	209.0	144,300	135
140	10.3	162.0	155,200	32.7	193.0	146,500	44.6	203.9	137,300	140
145				26.1	183.1	139,400	39.9	197.8	130,700	145
150				16.6	168.3	132,600	34.6	190.5	124,600	150
155							28.3	181.4	118,700	155
160							20.1	168.8	113,100	160

# MLC650 S-2

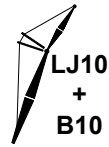
ASME B30.5



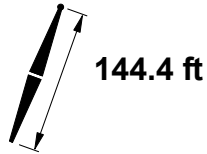
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	73.4	253.7	491,800 b						55	
60	70.5	251.8	442,200 b						60	
65	67.6	249.6	401,700 b	70.5	251.2	400,300 b			65	
70	64.5	247.2	367,900 b	67.6	249.0	366,700 b			70	
75	61.4	244.3	339,400	64.5	246.5	338,200	69.1	248.8	336,500	75
80	58.1	241.1	315,000	61.4	243.7	313,900	66.0	246.5	312,300	80
85	54.8	237.5	293,900	58.2	240.5	292,800	63.0	243.9	291,300	85
90	51.2	233.4	275,400	54.8	236.9	274,400	59.8	240.9	272,900	90
95	47.5	228.7	259,100	51.3	232.8	258,100	56.5	237.4	256,700	95
100	43.5	223.4	244,600	47.5	228.1	243,700	53.0	233.6	242,400	100
105	39.2	217.2	231,700	43.5	222.8	230,800	49.4	229.2	229,500	105
110	34.4	209.9	220,100	39.2	216.6	219,200	45.6	224.2	218,000	110
115	28.7	200.9	209,600	34.4	209.3	208,700	41.4	218.5	207,500	115
120	21.7	189.0	200,100	28.8	200.3	199,200	36.8	211.8	198,000	120
125	9.9	168.0	191,600	21.7	188.4	190,600	31.7	203.7	189,400	125
130				10.0	167.5	182,900	25.5	193.5	181,500	130
135							17.0	178.9	173,000	135
140									140	
145									145	
150									150	
155									155	
160									160	
165									165	
170									170	

# MLC650 S-2

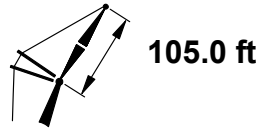
ASME B30.5



661,300 lb



144.4 ft

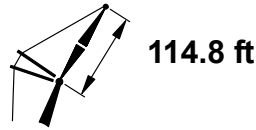
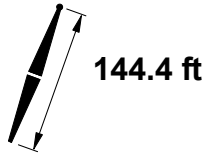
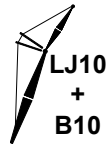


105.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	64.4	242.1	254,600							95
100	61.2	239.3	240,300							100
105	58.0	236.0	226,600							105
110	54.6	232.4	213,500							110
115	51.1	228.3	201,500	59.3	233.3	189,200				115
120	47.3	223.6	190,700	56.0	229.8	179,000				120
125	43.3	218.2	180,700	52.5	225.9	169,600				125
130	39.0	212.0	171,500	48.8	221.4	160,900				130
135	34.1	204.6	163,100	45.0	216.3	153,000	53.6	222.1	143,000	135
140	28.5	195.5	155,100	40.8	210.5	145,600	50.0	217.8	136,100	140
145	21.3	183.4	147,700	36.1	203.6	138,700	46.2	212.9	129,600	145
150	8.9	161.3	140,400	30.8	195.3	132,200	42.1	207.3	123,600	150
155				24.4	184.7	126,100	37.6	200.8	117,900	155
160				15.3	168.8	120,200	32.6	193.0	112,600	160
165							26.6	183.3	107,500	165
170							18.7	169.7	102,600	170

# MLC650 S-2

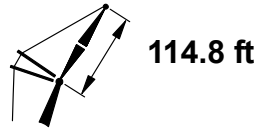
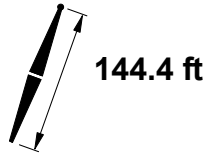
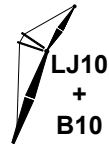
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	74.9	264.0	491,800 b						55	
60	72.3	262.3	442,300 b						60	
65	69.6	260.4	401,800 b						65	
70	66.9	258.2	368,100	72.3	261.7	400,400 b			70	
75	64.1	255.6	339,600	69.6	259.8	366,800			75	
80	61.2	252.8	315,200	66.9	257.5	338,400			80	
85	58.3	249.6	294,100	64.1	255.0	314,100	68.2	257.4	312,500	85
90	55.2	246.1	275,600	61.2	252.2	293,000	65.5	255.0	291,500	90
95	52.0	242.1	259,300	58.3	249.0	274,600	62.7	252.3	273,200	95
100	48.7	237.6	244,800	55.2	245.4	258,300	59.8	249.3	257,000	100
105	45.1	232.5	231,800	52.0	241.4	243,900	56.7	246.0	242,600	105
110	41.3	226.8	220,200	48.7	237.0	231,000	53.6	242.2	229,700	110
115	37.2	220.1	209,700	45.1	231.9	219,300	50.4	238.0	218,100	115
120	32.6	212.3	200,100	41.3	226.2	208,800	46.9	233.2	207,700	120
125	27.2	202.8	191,400	37.2	219.5	199,300	43.2	227.8	198,200	125
130	20.4	190.2	183,500	32.6	211.7	190,600	39.3	221.7	189,500	130
135	8.7	167.3	176,400	27.2	202.2	182,700	34.9	214.5	180,600	135
140				20.4	189.6	175,400	30.0	205.9	171,700	140
145				8.8	166.8	168,900	24.0	195.1	163,300	145
150							15.8	179.4	155,500	150
155									155	
160									160	
165									165	
170									170	
175									175	
180									180	

# MLC650 S-2

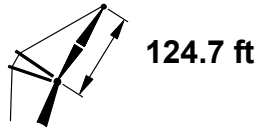
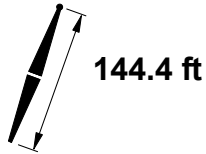
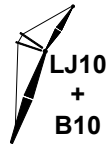
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55									55	
60									60	
65									65	
70									70	
75									75	
80									80	
85									85	
90									90	
95									95	
100	64.0	250.6	238,700						100	
105	61.1	247.7	224,200						105	
110	58.1	244.5	211,100						110	
115	55.1	241.0	199,300						115	
120	51.9	236.9	188,500	59.3	241.8	176,500			120	
125	48.5	232.4	178,600	56.3	238.4	167,200			125	
130	45.0	227.4	169,600	53.1	234.5	158,600			130	
135	41.1	221.6	161,200	49.9	230.2	150,800			135	
140	37.0	214.9	153,400	46.4	225.4	143,400	54.1	230.7	133,700	
145	32.3	207.0	146,100	42.7	219.9	136,600	50.9	226.5	127,300	
150	26.9	197.4	139,300	38.7	213.6	130,300	47.5	221.9	121,300	
155	20.0	184.5	132,900	34.2	206.2	124,300	43.9	216.6	115,800	
160	7.6	160.2	126,500	29.2	197.4	118,700	40.0	210.6	110,500	
165				23.0	186.1	113,400	35.7	203.6	105,600	
170				14.2	169.1	108,200	30.9	195.3	100,900	
175							25.1	184.9	96,500	
180							17.5	170.5	92,100	

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60	73.7	272.7	441,200 b						60	
65	71.3	271.0	400,900						65	
70	68.8	269.0	367,300	71.3	270.3	366,100			70	
75	66.3	266.7	339,000	68.8	268.3	337,800			75	
80	63.7	264.1	314,600	66.3	266.0	313,500			80	
85	61.1	261.3	293,500	63.7	263.5	292,500	67.6	265.9	291,000	85
90	58.4	258.1	275,100	61.1	260.6	274,100	65.0	263.5	272,700	90
95	55.6	254.6	258,800	58.4	257.5	257,900	62.4	260.8	256,600	95
100	52.6	250.7	244,400	55.6	254.0	243,500	59.7	257.8	242,200	100
105	49.6	246.4	231,400	52.7	250.1	230,600	57.0	254.5	229,400	105
110	46.4	241.5	219,800	49.6	245.7	219,000	54.1	250.8	217,800	110
115	43.0	236.1	209,300	46.4	240.9	208,500	51.1	246.7	207,400	115
120	39.4	230.0	199,700	43.0	235.5	199,000	48.0	242.1	197,900	120
125	35.4	222.9	191,000	39.4	229.4	190,300	44.7	237.0	189,200	125
130	31.0	214.7	183,100	35.4	222.3	182,300	41.2	231.2	180,900	130
135	25.8	204.6	175,800	31.0	214.1	175,000	37.4	224.6	172,100	135
140	19.2	191.2	169,100	25.8	204.0	168,300	33.3	217.0	163,900	140
145	7.5	166.2	163,000	19.3	190.6	162,000	28.5	208.0	156,300	145
150				7.6	165.8	154,300	22.8	196.5	149,100	150
155							14.8	179.9	142,300	155
160									160	
165									165	
170									170	
175									175	
180									180	
185									185	
190									190	

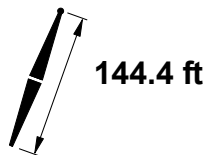


# MLC650 S-2

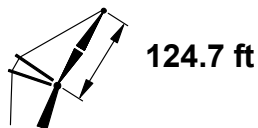
ASME B30.5



661,300 lb



144.4 ft

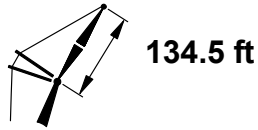
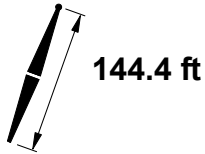
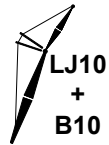


124.7 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	63.6	259.1	224,000							105
110	61.0	256.2	211,000							110
115	58.2	253.0	199,200							115
120	55.4	249.5	188,500							120
125	52.5	245.6	178,700	59.3	250.3	167,100				125
130	49.5	241.2	169,600	56.5	246.9	158,600				130
135	46.3	236.4	161,300	53.7	243.1	150,800				135
140	42.9	230.9	153,600	50.7	238.9	143,500				140
145	39.2	224.7	146,500	47.5	234.3	136,800	54.6	239.2	127,300	145
150	35.2	217.7	139,800	44.2	229.1	130,500	51.6	235.2	121,400	150
155	30.8	209.3	133,500	40.7	223.2	124,600	48.6	230.7	115,900	155
160	25.5	199.1	127,600	36.8	216.5	119,100	45.3	225.7	110,700	160
165	18.9	185.5	122,000	32.6	208.7	113,900	41.8	220.0	105,800	165
170	6.3	158.7	116,300	27.7	199.4	109,000	38.1	213.6	101,300	170
175				21.8	187.4	104,300	34.0	206.2	96,900	175
180				13.1	169.3	99,700	29.3	197.4	92,800	180
185							23.8	186.5	88,800	185
190							16.4	171.1	84,900	190

# MLC650 S-2

ASME B30.5



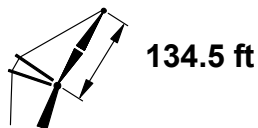
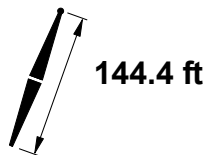
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60	75.0	283.1	441,300 b						60	
65	72.7	281.4	401,100						65	
70	70.5	279.6	367,500	72.7	280.8	366,300			70	
75	68.2	277.5	339,200	70.5	279.0	338,000			75	
80	65.8	275.2	314,900	68.2	276.9	313,800			80	
85	63.4	272.6	293,800	65.8	274.6	292,700	69.3	276.6	291,300	85
90	61.0	269.7	275,300	63.4	272.0	274,400	67.0	274.4	273,000	90
95	58.4	266.6	259,100	61.0	269.1	258,100	64.6	272.0	256,800	95
100	55.9	263.1	244,600	58.5	266.0	243,700	62.2	269.3	242,400	100
105	53.2	259.3	231,600	55.9	262.5	230,800	59.7	266.3	229,600	105
110	50.4	255.1	220,000	53.2	258.7	219,200	57.2	263.0	218,000	110
115	47.5	250.4	209,500	50.4	254.5	208,700	54.5	259.3	207,600	115
120	44.4	245.3	199,900	47.5	249.8	199,200	51.8	255.3	198,100	120
125	41.2	239.5	191,200	44.4	244.7	190,500	49.0	250.9	188,500	125
130	37.7	233.0	183,200	41.2	238.9	182,500	46.0	246.0	179,000	130
135	33.9	225.6	175,800	37.7	232.4	175,100	42.8	240.5	170,300	135
140	29.6	216.8	169,100	33.9	224.9	168,400	39.5	234.4	162,100	140
145	24.6	206.2	162,800	29.6	216.2	160,700	35.8	227.5	154,600	145
150	18.2	192.1	157,100	24.6	205.6	153,400	31.8	219.5	147,600	150
155	6.4	164.8	149,800	18.2	191.5	146,400	27.2	209.9	141,000	155
160				6.5	164.4	139,600	21.6	197.8	134,800	160
165							13.8	180.2	128,800	165
170										170
175										175
180										180
185										185
190										190
195										195
200										200

# MLC650 S-2

ASME B30.5



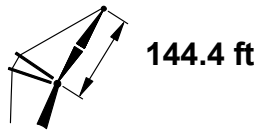
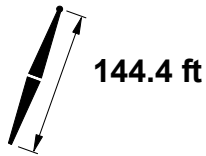
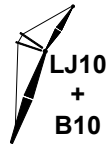
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	63.3	267.5	208,600							110
115	60.8	264.7	196,900							115
120	58.3	261.5	186,200							120
125	55.7	258.0	176,500							125
130	53.1	254.2	167,500	59.3	258.7	156,300				130
135	50.3	250.0	159,300	56.8	255.4	148,500				135
140	47.4	245.3	151,600	54.1	251.7	141,300				140
145	44.3	240.1	144,500	51.4	247.6	134,600				145
150	41.0	234.3	137,900	48.5	243.1	128,400	55.0	247.8	119,000	150
155	37.5	227.8	131,700	45.5	238.2	122,600	52.3	243.9	113,600	155
160	33.7	220.3	125,900	42.3	232.6	117,100	49.4	239.5	108,500	160
165	29.4	211.5	120,500	38.9	226.4	112,000	46.5	234.7	103,700	165
170	24.3	200.7	115,300	35.2	219.3	107,200	43.4	229.3	99,100	170
175	17.8	186.4	110,300	31.1	211.1	102,600	40.0	223.3	94,900	175
180	4.9	156.5	105,200	26.4	201.2	98,300	36.4	216.5	90,800	180
185				20.7	188.6	94,100	32.5	208.7	87,000	185
190				12.2	169.3	89,900	28.0	199.4	83,300	190
195							22.6	187.9	79,800	195
200							15.4	171.7	76,300	200

# MLC650 S-2

ASME B30.5



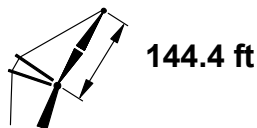
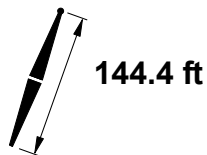
	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
65	73.9	291.8	400,700						65	
70	71.9	290.1	367,300						70	
75	69.7	288.2	339,000	71.9	289.5	337,800			75	
80	67.6	286.0	314,700	69.7	287.5	313,600			80	
85	65.4	283.7	293,700	67.6	285.4	292,700			85	
90	63.1	281.1	275,300	65.4	283.1	274,300	68.7	285.2	272,900	90
95	60.9	278.2	259,000	63.2	280.5	258,100	66.5	283.0	256,800	95
100	58.5	275.1	244,500	60.9	277.6	243,700	64.3	280.5	242,400	100
105	56.1	271.7	231,600	58.5	274.5	230,800	62.0	277.8	229,600	105
110	53.6	267.9	220,000	56.1	271.0	219,200	59.7	274.8	218,000	110
115	51.1	263.8	209,400	53.6	267.3	208,700	57.3	271.5	207,600	115
120	48.4	259.3	199,900	51.1	263.2	199,100	54.9	267.9	197,300	120
125	45.6	254.3	191,100	48.4	258.7	190,400	52.4	264.0	187,000	125
130	42.7	248.8	183,100	45.6	253.7	182,400	49.7	259.7	177,600	130
135	39.5	242.7	175,800	42.7	248.2	175,100	47.0	254.9	168,900	135
140	36.2	235.9	169,000	39.5	242.1	167,300	44.1	249.7	160,800	140
145	32.5	228.0	162,700	36.2	235.3	159,600	41.1	243.9	153,400	145
150	28.3	218.9	156,300	32.5	227.4	152,300	37.9	237.5	146,400	150
155	23.5	207.7	149,300	28.3	218.3	145,600	34.4	230.2	139,900	155
160	17.3	192.9	142,800	23.5	207.1	139,200	30.5	221.7	133,800	160
165	5.1	162.7	136,200	17.3	192.3	133,200	26.0	211.7	128,000	165
170				5.2	162.4	127,100	20.6	199.0	122,500	170
175							12.9	180.4	117,200	175
180										180
185										185
190										190
195										195
200										200
205										205
210										210

# MLC650 S-2

ASME B30.5



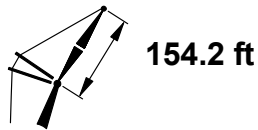
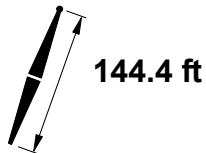
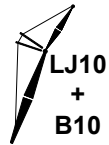
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	63.0	276.0	195,200							115
120	60.8	273.2	184,600							120
125	58.4	270.0	174,900							125
130	56.0	266.6	166,000							130
135	53.5	262.8	157,800	59.3	267.2	146,800				135
140	50.9	258.7	150,200	57.0	263.9	139,700				140
145	48.3	254.1	143,100	54.5	260.3	133,000				145
150	45.5	249.2	136,500	52.0	256.3	126,900				150
155	42.5	243.7	130,400	49.3	251.9	121,100				155
160	39.4	237.5	124,700	46.6	247.1	115,700	52.8	252.5	106,900	160
165	36.0	230.6	119,300	43.7	241.8	110,600	50.2	248.2	102,100	165
170	32.3	222.7	114,200	40.6	236.0	105,800	47.5	243.6	97,700	170
175	28.1	213.5	109,400	37.4	229.4	101,300	44.6	238.5	93,400	175
180	23.2	202.2	104,800	33.8	221.9	97,100	41.6	232.8	89,500	180
185	16.9	187.1	100,400	29.8	213.3	93,000	38.4	226.4	85,700	185
190	2.8	152.0	95,700	25.3	202.9	89,100	35.0	219.3	82,100	190
195				19.7	189.7	85,400	31.1	211.1	78,600	195
200				11.3	169.2	81,700	26.8	201.3	75,400	200
205							21.6	189.2	72,200	205
210							14.5	172.1	69,000	210

# MLC650 S-2

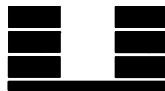
ASME B30.5



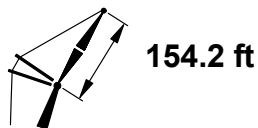
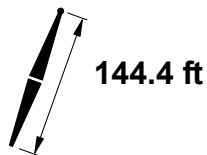
	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
70	73.1	300.5	367,500						70	
75	71.1	298.7	339,200						75	
80	69.1	296.8	315,000	71.1	298.1	313,900			80	
85	67.1	294.6	293,900	69.1	296.1	292,900			85	
90	65.0	292.2	275,500	67.1	294.0	274,500			90	
95	62.9	289.6	259,200	65.0	291.6	258,300	68.1	293.8	257,000	95
100	60.8	286.7	244,800	62.9	288.9	243,900	66.0	291.5	242,700	100
105	58.6	283.6	231,800	60.8	286.1	231,000	64.0	289.0	229,800	105
110	56.3	280.2	220,200	58.6	282.9	219,400	61.8	286.2	218,300	110
115	54.0	276.5	209,700	56.3	279.5	208,900	59.7	283.2	206,500	115
120	51.6	272.5	200,100	54.0	275.9	199,300	57.5	280.0	195,300	120
125	49.2	268.1	191,300	51.6	271.8	190,600	55.2	276.4	185,000	125
130	46.6	263.3	183,300	49.2	267.5	182,600	52.8	272.6	175,600	130
135	43.9	258.0	175,900	46.6	262.7	173,900	50.4	268.4	167,000	135
140	41.1	252.2	169,100	43.9	257.4	165,600	47.9	263.8	159,000	140
145	38.0	245.8	162,100	41.1	251.6	157,900	45.3	258.8	151,500	145
150	34.8	238.6	154,800	38.1	245.2	150,700	42.5	253.3	144,600	150
155	31.2	230.4	147,900	34.8	238.0	144,000	39.6	247.2	138,100	155
160	27.2	220.8	141,500	31.2	229.8	137,700	36.4	240.4	132,100	160
165	22.5	209.2	135,400	27.2	220.2	131,800	33.0	232.7	126,400	165
170	16.4	193.6	129,600	22.5	208.6	126,200	29.3	223.9	121,000	170
175	3.5	159.4	123,800	16.4	193.0	120,900	25.0	213.4	116,000	175
180				3.7	159.3	115,400	19.7	200.1	111,100	180
185							12.1	180.5	106,400	185
190										190
195										195
200										200
205										205
210										210
215										215
220										220

# MLC650 S-2

ASME B30.5



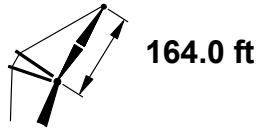
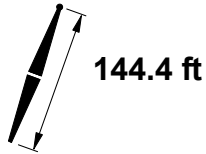
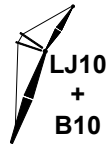
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	64.9	287.1	192,900							115
120	62.8	284.5	182,300							120
125	60.7	281.6	172,700							125
130	58.5	278.5	163,800							130
135	56.2	275.1	155,600							135
140	53.9	271.4	148,100	59.4	275.7	137,400				140
145	51.5	267.3	141,100	57.1	272.4	130,800				145
150	49.1	262.9	134,500	54.8	268.8	124,600				150
155	46.5	258.1	128,500	52.5	264.9	118,900				155
160	43.8	252.9	122,800	50.0	260.7	113,600				160
165	40.9	247.0	117,400	47.5	256.0	108,500	53.2	261.1	99,900	165
170	37.9	240.6	112,400	44.9	250.9	103,800	50.8	256.9	95,500	170
175	34.6	233.3	107,600	42.1	245.3	99,400	48.3	252.4	91,300	175
180	31.0	225.1	103,100	39.1	239.2	95,100	45.7	247.5	87,300	180
185	27.0	215.4	98,800	36.0	232.2	91,200	43.0	242.1	83,600	185
190	22.2	203.6	94,800	32.5	224.4	87,400	40.1	236.1	80,000	190
195	16.1	187.8	90,800	28.7	215.4	83,700	37.0	229.4	76,700	195
200				24.2	204.6	80,300	33.6	221.9	73,500	200
205				18.8	190.7	76,900	29.9	213.3	70,400	205
210				10.5	169.0	73,500	25.7	203.1	67,400	210
215							20.7	190.4	64,500	215
220							13.7	172.5	61,700	220

# MLC650 S-2

ASME B30.5

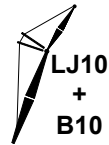


	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
70	74.1	310.9	367,100						70	
75	72.3	309.2	338,900						75	
80	70.4	307.4	314,700	72.3	308.6	313,600			80	
85	68.5	305.3	293,700	70.4	306.7	292,600			85	
90	66.6	303.1	275,300	68.5	304.7	274,300			90	
95	64.7	300.7	259,000	66.6	302.5	258,100	69.5	304.4	256,800	95
100	62.7	298.0	244,600	64.7	300.1	243,700	67.6	302.3	242,500	100
105	60.7	295.2	231,700	62.7	297.4	230,900	65.7	300.0	229,700	105
110	58.6	292.1	220,100	60.7	294.5	219,300	63.7	297.5	218,000	110
115	56.5	288.7	209,500	58.6	291.4	208,800	61.7	294.7	205,700	115
120	54.4	285.0	199,900	56.5	288.1	199,200	59.7	291.7	194,600	120
125	52.1	281.1	191,200	54.4	284.4	190,500	57.6	288.5	184,400	125
130	49.8	276.8	183,200	52.2	280.5	182,300	55.5	285.0	175,000	130
135	47.5	272.2	175,800	49.9	276.2	173,400	53.3	281.2	166,400	135
140	45.0	267.1	169,000	47.5	271.5	165,100	51.0	277.1	158,400	140
145	42.4	261.6	161,700	45.0	266.5	157,400	48.7	272.6	151,000	145
150	39.6	255.5	154,500	42.4	261.0	150,300	46.2	267.8	144,100	150
155	36.7	248.8	147,600	39.6	254.9	143,700	43.7	262.5	137,700	155
160	33.5	241.2	141,300	36.7	248.2	137,400	41.0	256.7	131,700	160
165	30.1	232.7	135,300	33.6	240.6	131,600	38.2	250.3	126,100	165
170	26.2	222.7	129,600	30.1	232.1	126,100	35.2	243.2	120,800	170
175	21.6	210.5	124,300	26.2	222.1	120,900	31.9	235.2	115,700	175
180	15.6	194.2	119,100	21.6	209.9	115,900	28.2	226.0	111,000	180
185				15.6	193.6	111,100	24.0	215.0	106,500	185
190							18.8	201.2	102,100	190
195							11.4	180.5	97,900	195
200										200
205										205
210										210
215										215
220										220
225										225
230										230



# MLC650 S-2

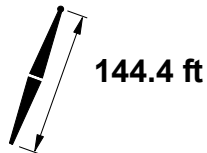
ASME B30.5



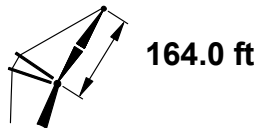
661,300 lb



360°



144.4 ft

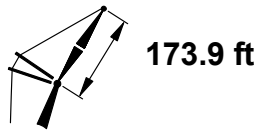
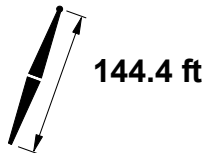
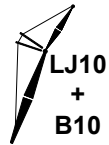


164.0 ft

ft	75°			70°			65°			ft
	ft	lb	ft	ft	lb	ft	ft	lb	ft	
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120	64.6	295.6	181,500							120
125	62.6	293.0	171,900							125
130	60.6	290.1	163,100							130
135	58.5	287.0	154,900							135
140	56.4	283.6	147,400							140
145	54.3	279.9	140,400	59.4	284.2	130,100				145
150	52.0	276.0	133,900	57.3	280.9	123,900				150
155	49.7	271.7	127,900	55.1	277.4	118,200				155
160	47.4	267.0	122,200	52.9	273.5	112,900				160
165	44.9	261.9	116,900	50.7	269.4	107,900				165
170	42.3	256.4	111,900	48.3	264.8	103,200	53.6	269.7	94,800	170
175	39.5	250.3	107,200	45.9	259.9	98,800	51.4	265.6	90,600	175
180	36.6	243.5	102,800	43.3	254.6	94,600	49.1	261.2	86,700	180
185	33.4	236.0	98,500	40.6	248.7	90,700	46.6	256.4	83,000	185
190	29.9	227.3	94,500	37.7	242.2	86,900	44.1	251.2	79,500	190
195	26.0	217.3	90,700	34.7	235.0	83,400	41.5	245.5	76,200	195
200	21.4	205.0	87,000	31.3	226.8	80,000	38.7	239.2	73,000	200
205	15.3	188.4	83,500	27.6	217.4	76,700	35.7	232.3	70,000	205
210				23.3	206.1	73,600	32.4	224.4	67,100	210
215				17.9	191.6	70,500	28.8	215.4	64,300	215
220				9.7	168.7	67,500	24.7	204.8	61,600	220
225							19.8	191.6	59,000	225
230							13.0	172.7	56,300	230

# MLC650 S-2

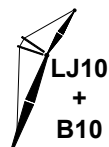
ASME B30.5



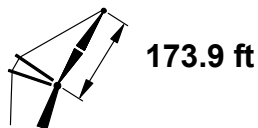
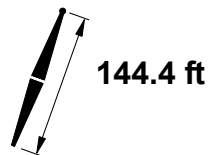
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
75	73.3	319.6	339,100							75
80	71.6	317.9	314,900							80
85	69.8	316.0	293,900							85
90	68.0	313.9	275,500							90
95	66.2	311.6	259,300							95
100	64.4	309.2	244,900							100
105	62.5	306.5	231,900							105
110	60.6	303.6	220,300							110
115	58.7	300.5	209,800							115
120	56.7	297.2	200,200							120
125	54.7	293.6	191,400							125
130	52.6	289.7	183,400							130
135	50.4	285.5	176,000							135
140	48.2	281.0	167,900							140
145	45.9	276.1	160,100							145
150	43.5	270.8	152,800							150
155	41.0	265.0	146,000							155
160	38.3	258.6	139,700							160
165	35.5	251.6	133,700							165
170	32.4	243.8	128,100							170
175	29.0	234.8	122,800							175
180	25.2	224.4	117,800							180
185	20.7	211.8	113,100							185
190	14.9	194.7	108,500							190
195										195
200								18.1	202.1	92,700
205								10.7	180.3	88,900
210										210
215										215
220										220
225										225
230										230
235										235
240										240

# MLC650 S-2

ASME B30.5



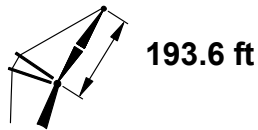
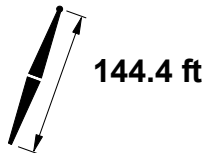
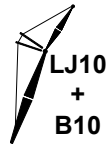
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
75									75	
80									80	
85									85	
90									90	
95									95	
100									100	
105									105	
110									110	
115									115	
120									120	
125	64.3	304.1	169,700						125	
130	62.4	301.5	160,900						130	
135	60.5	298.6	152,800						135	
140	58.6	295.5	145,300						140	
145	56.6	292.1	138,300						145	
150	54.6	288.5	131,900	59.4	292.7	121,700			150	
155	52.5	284.6	125,900	57.4	289.4	116,000			155	
160	50.3	280.4	120,200	55.4	285.9	110,800			160	
165	48.1	275.9	115,000	53.3	282.1	105,800			165	
170	45.8	270.9	110,000	51.2	278.0	101,100			170	
175	43.4	265.6	105,300	49.0	273.6	96,700	54.0	278.2	88,400	175
180	40.9	259.8	100,900	46.7	268.9	92,600	51.9	274.2	84,500	180
185	38.2	253.4	96,700	44.4	263.7	88,700	49.7	269.9	80,800	185
190	35.3	246.3	92,800	41.9	258.1	85,000	47.5	265.3	77,400	190
195	32.3	238.4	89,000	39.3	251.9	81,500	45.1	260.3	74,100	195
200	28.9	229.5	85,400	36.5	245.1	78,100	42.7	254.8	70,900	200
205	25.1	219.0	82,000	33.5	237.6	74,900	40.1	248.8	67,900	205
210	20.5	206.2	78,700	30.3	229.1	71,800	37.4	242.3	65,100	210
215	14.6	188.9	75,400	26.6	219.3	68,900	34.5	235.0	62,400	215
220				22.4	207.5	66,100	31.3	226.8	59,700	220
225				17.2	192.5	63,300	27.8	217.4	57,200	225
230				9.0	168.2	60,400	23.8	206.4	54,800	230
235							19.0	192.6	52,400	235
240							12.3	172.8	50,000	240

# MLC650 S-2

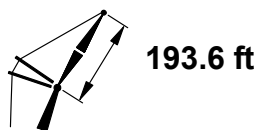
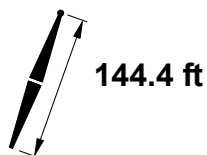
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
80	73.5	338.7	313,600						80	
85	72.0	337.0	292,700						85	
90	70.4	335.1	274,400	72.0	336.3	273,400			90	
95	68.8	333.1	258,200	70.4	334.5	257,300			95	
100	67.2	331.0	243,800	68.8	332.5	242,900			100	
105	65.5	328.7	230,900	67.2	330.4	230,100	69.6	332.2	226,200	105
110	63.9	326.2	219,300	65.6	328.0	218,500	68.0	330.2	212,800	110
115	62.2	323.5	208,700	63.9	325.5	208,000	66.4	327.9	200,700	115
120	60.5	320.6	199,200	62.2	322.8	197,900	64.7	325.5	189,700	120
125	58.8	317.5	190,400	60.5	320.0	187,500	63.1	322.9	179,600	125
130	57.0	314.2	182,400	58.8	316.9	177,900	61.4	320.1	170,300	130
135	55.2	310.7	173,900	57.0	313.6	169,000	59.6	317.1	161,800	135
140	53.3	306.9	165,600	55.2	310.0	160,900	57.9	314.0	153,900	140
145	51.4	302.9	157,800	53.3	306.3	153,300	56.1	310.5	146,600	145
150	49.5	298.5	150,600	51.4	302.2	146,200	54.3	306.9	139,800	150
155	47.4	293.9	143,900	49.5	297.9	139,700	52.4	303.0	133,400	155
160	45.4	288.9	137,600	47.5	293.3	133,500	50.5	298.8	127,500	160
165	43.2	283.5	131,700	45.4	288.3	127,800	48.5	294.3	121,900	165
170	40.9	277.7	126,100	43.2	282.9	122,300	46.4	289.5	116,700	170
175	38.5	271.4	120,900	40.9	277.1	117,300	44.3	284.3	111,800	175
180	36.0	264.5	116,000	38.5	270.8	112,400	42.1	278.8	107,200	180
185	33.3	256.9	111,300	36.0	263.9	107,900	39.7	272.7	102,800	185
190	30.4	248.5	106,900	33.3	256.3	103,600	37.3	266.1	98,600	190
195	27.2	238.9	102,700	30.4	247.9	99,500	34.7	258.9	94,700	195
200	23.6	227.7	98,700	27.2	238.3	95,600	31.9	250.9	90,900	200
205	19.3	214.0	94,800	23.6	227.1	91,800	28.9	241.9	87,300	205
210	13.6	195.5	91,100	19.3	213.4	88,200	25.5	231.6	83,900	210
215				13.6	195.0	84,700	21.5	219.3	80,600	215
220							16.7	203.7	77,400	220
225							9.4	179.7	74,200	225
230										230
235										235
240										240
245										245
250										250
255										255
260										260

# MLC650 S-2

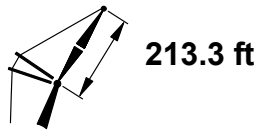
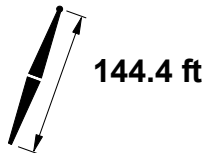
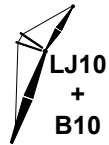
ASME B30.5



ft	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	63.8	321.1	149,800							135
140	62.1	318.4	142,400							140
145	60.4	315.5	135,500							145
150	58.7	312.4	129,100							150
155	56.9	309.1	123,100							155
160	55.1	305.6	117,500	59.4	309.6	107,800				160
165	53.2	301.8	112,300	57.6	306.4	102,900				165
170	51.3	297.7	107,400	55.8	302.9	98,300				170
175	49.4	293.4	102,800	54.0	299.2	93,900				175
180	47.4	288.7	98,400	52.1	295.3	89,800				180
185	45.3	283.7	94,300	50.2	291.1	86,000	54.6	295.3	77,900	185
190	43.1	278.4	90,400	48.2	286.6	82,300	52.7	291.5	74,500	190
195	40.8	272.5	86,700	46.1	281.7	78,900	50.8	287.3	71,200	195
200	38.4	266.2	83,200	44.0	276.5	75,600	48.8	282.9	68,100	200
205	35.9	259.3	79,800	41.7	270.8	72,400	46.8	278.2	65,200	205
210	33.2	251.6	76,600	39.4	264.7	69,400	44.6	273.1	62,400	210
215	30.3	243.1	73,600	36.9	258.0	66,600	42.4	267.5	59,700	215
220	27.1	233.5	70,600	34.3	250.7	63,800	40.1	261.6	57,200	220
225	23.4	222.2	67,800	31.5	242.5	61,200	37.7	255.1	54,700	225
230	19.1	208.4	65,000	28.4	233.4	58,700	35.1	248.0	52,400	230
235	13.3	189.6	62,300	24.9	222.8	56,200	32.4	240.1	50,100	235
240				20.9	210.2	53,900	29.4	231.3	48,000	240
245				15.8	193.9	51,500	26.1	221.2	45,900	245
250				7.7	166.8	49,100	22.2	209.3	43,800	250
255							17.6	194.5	41,800	255
260							11.0	172.8	39,700	260

# MLC650 S-2

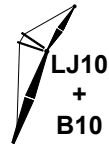
ASME B30.5



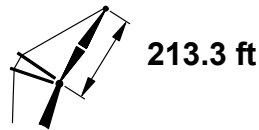
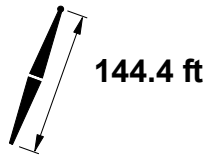
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
85	73.7	357.7	293,900						85	
90	72.3	356.1	275,600						90	
95	70.8	354.3	259,400	72.3	355.4	258,500			95	
100	69.4	352.4	245,000	70.8	353.7	244,200			100	
105	68.0	350.3	232,100	69.4	351.7	231,300			105	
110	66.5	348.1	220,500	68.0	349.7	219,100			110	
115	65.0	345.7	210,000	66.5	347.4	206,600	68.7	349.4	197,800	115
120	63.5	343.1	200,400	65.0	345.1	195,300	67.2	347.3	186,800	120
125	62.0	340.4	190,300	63.5	342.5	184,900	65.7	345.0	176,800	125
130	60.4	337.5	180,500	62.0	339.8	175,300	64.2	342.5	167,600	130
135	58.8	334.5	171,500	60.4	336.9	166,500	62.7	339.9	159,100	135
140	57.2	331.2	163,200	58.8	333.8	158,400	61.2	337.1	151,200	140
145	55.6	327.7	155,500	57.2	330.6	150,800	59.6	334.1	144,000	145
150	53.9	324.0	148,300	55.6	327.1	143,800	58.0	330.9	137,200	150
155	52.2	320.1	141,600	53.9	323.4	137,300	56.4	327.6	130,900	155
160	50.5	315.9	135,300	52.2	319.5	131,200	54.8	324.0	125,000	160
165	48.7	311.5	129,500	50.5	315.3	125,500	53.1	320.2	119,500	165
170	46.8	306.8	124,000	48.7	310.9	120,100	51.3	316.1	114,300	170
175	44.9	301.7	118,800	46.8	306.1	115,000	49.6	311.8	109,400	175
180	42.9	296.3	113,900	44.9	301.1	110,200	47.7	307.2	104,800	180
185	40.9	290.5	109,300	42.9	295.7	105,700	45.9	302.3	100,400	185
190	38.7	284.2	104,900	40.9	289.9	101,500	43.9	297.1	96,300	190
195	36.4	277.4	100,700	38.7	283.6	97,400	41.9	291.5	92,400	195
200	34.1	270.0	96,800	36.5	276.8	93,600	39.8	285.5	88,700	200
205	31.5	261.9	93,000	34.1	269.4	89,900	37.6	279.0	85,200	205
210	28.7	252.8	89,500	31.5	261.3	86,400	35.3	271.9	81,800	210
215	25.6	242.6	86,000	28.7	252.2	83,100	32.8	264.1	78,600	215
220	22.2	230.6	82,700	25.7	242.0	79,900	30.1	255.6	75,600	220
225	18.0	216.0	79,500	22.2	230.0	76,800	27.2	245.9	72,600	225
230	12.5	196.0	76,400	18.0	215.4	73,800	24.0	234.9	69,800	230
235				12.5	195.5	70,900	20.2	221.8	67,000	235
240							15.5	205.1	64,300	240
245							8.3	178.6	61,600	245
250										250
255										255
260										260
265										265
270										270
275										275
280										280

# MLC650 S-2

ASME B30.5



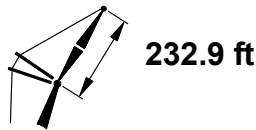
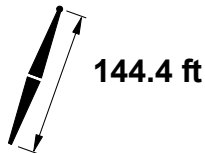
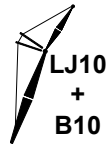
661,300 lb



ft	75°			70°			65°			ft
	ft	lb	ft	ft	lb	ft	ft	lb		
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140	64.9	340.6	139,500							140
145	63.4	338.1	132,600							145
150	61.9	335.4	126,300							150
155	60.3	332.5	120,300							155
160	58.8	329.4	114,800							160
165	57.2	326.1	109,600							165
170	55.5	322.6	104,700	59.4	326.6	95,400				170
175	53.8	318.9	100,100	57.8	323.4	91,100				175
180	52.1	315.0	95,800	56.2	320.0	87,000				180
185	50.4	310.8	91,700	54.5	316.4	83,200				185
190	48.6	306.4	87,900	52.8	312.5	79,600				190
195	46.7	301.6	84,200	51.1	308.4	76,200				195
200	44.8	296.5	80,700	49.3	304.1	72,900	53.4	308.7	65,300	200
205	42.8	291.1	77,400	47.5	299.5	69,800	51.6	304.6	62,400	205
210	40.8	285.3	74,300	45.6	294.5	66,900	49.9	300.4	59,600	210
215	38.6	279.0	71,300	43.6	289.2	64,000	48.1	295.8	57,000	215
220	36.3	272.2	68,400	41.6	283.6	61,300	46.2	291.0	54,500	220
225	33.9	264.7	65,600	39.5	277.5	58,800	44.3	285.8	52,100	225
230	31.4	256.6	63,000	37.3	270.9	56,300	42.2	280.3	49,800	230
235	28.6	247.5	60,500	34.9	263.7	53,900	40.2	274.3	47,600	235
240	25.5	237.1	58,000	32.4	255.8	51,700	38.0	267.9	45,500	240
245	22.0	225.1	55,600	29.7	247.1	49,500	35.7	260.9	43,400	245
250	17.8	210.3	53,300	26.8	237.3	47,400	33.2	253.3	41,500	250
255	12.2	190.0	51,000	23.4	226.0	45,300	30.6	244.9	39,600	255
260				19.6	212.5	43,300	27.7	235.5	37,700	260
265				14.7	195.0	41,300	24.5	224.7	35,900	265
270				6.4	164.6	39,200	20.9	212.0	34,200	270
275							16.4	196.1	32,400	275
280							9.9	172.4	30,700	280

# MLC650 S-2

ASME B30.5

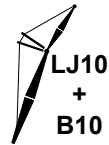


	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
90	73.8	376.8	274,400						90	
95	72.5	375.2	259,300						95	
100	71.2	373.4	244,900	72.5	374.5	244,000			100	
105	69.9	371.5	232,000	71.2	372.8	230,800			105	
110	68.6	369.5	220,400	69.9	370.9	217,000			110	
115	67.3	367.4	209,900	68.6	368.9	204,600			115	
120	65.9	365.1	199,100	67.3	366.8	193,300	69.3	368.6	184,700	120
125	64.5	362.7	188,500	65.9	364.5	182,900	67.9	366.6	174,700	125
130	63.1	360.1	178,700	64.5	362.1	173,400	66.6	364.4	165,500	130
135	61.7	357.4	169,800	63.2	359.5	164,700	65.2	362.0	157,100	135
140	60.3	354.5	161,500	61.8	356.8	156,600	63.8	359.5	149,300	140
145	58.9	351.4	153,800	60.3	353.9	149,100	62.5	356.8	142,100	145
150	57.4	348.2	146,600	58.9	350.8	142,100	61.0	354.0	135,300	150
155	55.9	344.8	140,000	57.4	347.6	135,600	59.6	351.1	129,100	155
160	54.4	341.1	133,700	55.9	344.1	129,500	58.2	347.9	123,200	160
165	52.9	337.3	127,900	54.4	340.5	123,800	56.7	344.6	117,700	165
170	51.3	333.3	122,400	52.9	336.7	118,500	55.2	341.1	112,600	170
175	49.7	329.0	117,300	51.3	332.6	113,400	53.6	337.3	107,700	175
180	48.0	324.4	112,400	49.7	328.3	108,700	52.1	333.4	103,100	180
185	46.3	319.6	107,800	48.0	323.8	104,200	50.5	329.2	98,800	185
190	44.5	314.5	103,500	46.3	319.0	100,000	48.8	324.8	94,700	190
195	42.7	309.0	99,400	44.5	313.9	96,000	47.1	320.1	90,900	195
200	40.8	303.2	95,500	42.7	308.4	92,100	45.4	315.2	87,200	200
205	38.9	297.0	91,700	40.8	302.6	88,500	43.6	309.9	83,700	205
210	36.8	290.3	88,200	38.9	296.4	85,100	41.8	304.2	80,400	210
215	34.6	283.0	84,800	36.8	289.7	81,800	39.9	298.2	77,200	215
220	32.3	275.2	81,600	34.6	282.4	78,600	37.8	291.8	74,200	220
225	29.9	266.5	78,500	32.4	274.6	75,600	35.7	284.8	71,300	225
230	27.2	256.9	75,500	29.9	265.9	72,700	33.5	277.3	68,500	230
235	24.3	246.0	72,700	27.2	256.3	69,900	31.1	269.0	65,800	235
240	20.9	233.3	69,900	24.3	245.4	67,300	28.6	259.9	63,200	240
245	16.9	217.7	67,200	20.9	232.7	64,700	25.8	249.7	60,800	245
250	11.5	196.2	64,600	16.9	217.2	62,200	22.7	238.0	58,400	250
255				11.5	195.7	59,700	19.0	224.1	56,100	255
260							14.4	206.2	53,800	260
265							7.1	176.9	51,400	265
270										270
275										275
280										280
285										285
290										290
295										295
300										300

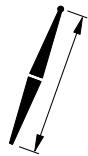


# MLC650 S-2

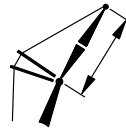
ASME B30.5



661,300 lb



144.4 ft

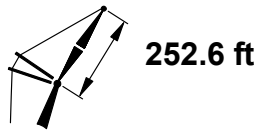
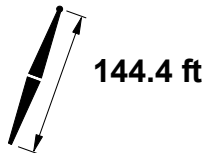
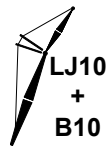


232.9 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150	64.5	357.6	124,200							150
155	63.1	355.1	118,300							155
160	61.7	352.3	112,800							160
165	60.3	349.4	107,600							165
170	58.8	346.4	102,800							170
175	57.4	343.1	98,300							175
180	55.9	339.7	94,000	59.4	343.5	85,000				180
185	54.3	336.0	89,900	57.9	340.3	81,200				185
190	52.8	332.2	86,100	56.5	337.0	77,600				190
195	51.2	328.1	82,400	54.9	333.4	74,200				195
200	49.6	323.8	79,000	53.4	329.7	71,000				200
205	47.9	319.3	75,700	51.8	325.7	67,900				205
210	46.2	314.5	72,600	50.2	321.5	65,000	53.9	325.8	57,600	210
215	44.5	309.3	69,600	48.6	317.0	62,200	52.3	321.9	55,000	215
220	42.6	303.9	66,800	46.9	312.3	59,600	50.7	317.8	52,500	220
225	40.7	298.0	64,100	45.2	307.3	57,000	49.1	313.4	50,200	225
230	38.8	291.8	61,500	43.4	302.0	54,600	47.4	308.7	47,900	230
235	36.7	285.0	59,000	41.5	296.3	52,300	45.7	303.8	45,700	235
240	34.5	277.8	56,600	39.6	290.2	50,000	43.9	298.6	43,700	240
245	32.2	269.9	54,300	37.5	283.7	47,900	42.1	293.0	41,600	245
250	29.8	261.2	52,100	35.4	276.6	45,800	40.2	287.1	39,700	250
255	27.1	251.5	49,900	33.2	269.0	43,800	38.2	280.7	37,900	255
260	24.1	240.5	47,800	30.8	260.6	41,900	36.1	273.8	36,100	260
265	20.8	227.8	45,800	28.2	251.4	40,000	33.9	266.4	34,400	265
270	16.7	212.0	43,800	25.3	241.0	38,200	31.5	258.3	32,700	270
275	11.2	190.1	41,800	22.1	229.0	36,500	29.0	249.3	31,100	275
280				18.4	214.6	34,700	26.3	239.3	29,500	280
285				13.6	195.9	33,000	23.2	227.9	28,000	285
290				5.0	161.4	31,100	19.7	214.4	26,400	290
295							15.3	197.4	24,900	295
300							8.8	171.6	23,400	300

# MLC650 S-2

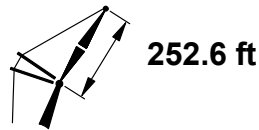
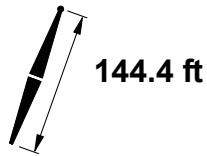
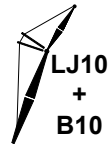
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
95	73.9	395.8	233,800						95	
100	72.7	394.2	232,800						100	
105	71.5	392.5	231,900	72.8	393.6	227,500			105	
110	70.3	390.7	220,400	71.6	391.9	213,900			110	
115	69.1	388.8	207,700	70.3	390.1	201,500			115	
120	67.9	386.7	196,200	69.1	388.1	190,300			120	
125	66.7	384.5	185,600	67.9	386.1	180,000	69.7	387.8	171,600	125
130	65.4	382.2	175,900	66.7	383.9	170,500	68.5	385.8	162,500	130
135	64.1	379.7	167,000	65.4	381.5	161,800	67.3	383.7	154,100	135
140	62.9	377.1	158,700	64.1	379.1	153,800	66.0	381.4	146,300	140
145	61.6	374.3	151,100	62.9	376.5	146,300	64.8	379.0	139,100	145
150	60.3	371.4	144,000	61.6	373.7	139,400	63.5	376.5	132,400	150
155	58.9	368.4	137,300	60.3	370.8	132,900	62.2	373.8	126,200	155
160	57.6	365.2	131,100	58.9	367.8	126,800	60.9	371.0	120,400	160
165	56.2	361.8	125,300	57.6	364.5	121,200	59.6	368.0	114,900	165
170	54.8	358.2	119,900	56.2	361.2	115,800	58.3	364.9	109,800	170
175	53.4	354.5	114,800	54.8	357.6	110,800	56.9	361.6	105,000	175
180	52.0	350.5	109,900	53.4	353.8	106,100	55.5	358.1	100,400	180
185	50.5	346.4	105,400	52.0	349.9	101,700	54.1	354.4	96,100	185
190	49.0	342.0	101,000	50.5	345.7	97,400	52.7	350.6	92,100	190
195	47.4	337.3	96,900	49.0	341.3	93,400	51.2	346.5	88,200	195
200	45.8	332.4	93,100	47.4	336.7	89,700	49.7	342.3	84,600	200
205	44.2	327.3	89,400	45.8	331.8	86,100	48.2	337.8	81,100	205
210	42.5	321.8	85,900	44.2	326.6	82,600	46.6	333.0	77,800	210
215	40.8	316.0	82,500	42.5	321.2	79,400	45.0	328.0	74,700	215
220	39.0	309.8	79,300	40.8	315.3	76,200	43.4	322.6	71,700	220
225	37.1	303.1	76,300	39.0	309.1	73,300	41.7	317.0	68,800	225
230	35.1	296.0	73,300	37.1	302.5	70,400	39.9	311.0	66,000	230
235	33.0	288.3	70,500	35.1	295.4	67,700	38.0	304.6	63,400	235
240	30.8	280.0	67,800	33.1	287.7	65,000	36.1	297.7	60,900	240
245	28.5	270.8	65,200	30.9	279.4	62,500	34.1	290.3	58,500	245
250	25.9	260.7	62,700	28.5	270.2	60,100	32.0	282.3	56,100	250
255	23.1	249.2	60,300	25.9	260.1	57,800	29.7	273.6	53,900	255
260	19.8	235.7	58,000	23.1	248.6	55,500	27.2	264.0	51,700	260
265	15.9	219.2	55,700	19.8	235.2	53,300	24.5	253.2	49,600	265
270	10.5	196.1	53,400	15.9	218.7	51,100	21.5	240.8	47,600	270
275				10.6	195.6	49,000	18.0	226.1	45,600	275
280							13.5	207.0	43,600	280
285							6.1	174.6	41,500	285
290										290
295										295
300										300
310										310

# MLC650 S-2

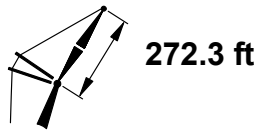
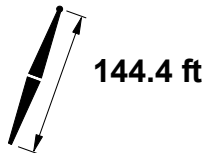
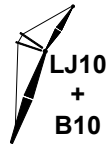
ASME B30.5



ft	75°			70°			65°			ft
	ft	lb	lb	ft	lb	lb	ft	lb	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	64.1	374.6	109,800							160
165	62.8	372.0	104,600							165
170	61.5	369.3	99,800							170
175	60.2	366.4	95,300							175
180	58.9	363.3	91,100							180
185	57.5	360.1	87,000							185
190	56.2	356.7	83,200	59.4	360.5	74,600				190
195	54.8	353.1	79,600	58.1	357.3	71,200				195
200	53.3	349.4	76,200	56.7	354.0	68,000				200
205	51.9	345.4	73,000	55.3	350.5	65,000				205
210	50.4	341.2	69,900	53.9	346.8	62,100				210
215	48.9	336.8	66,900	52.5	342.9	59,300				215
220	47.4	332.2	64,100	51.0	338.8	56,700	54.4	342.9	49,500	220
225	45.8	327.3	61,400	49.5	334.5	54,200	52.9	339.1	47,200	225
230	44.1	322.1	58,900	48.0	330.0	51,800	51.5	335.0	44,900	230
235	42.5	316.6	56,400	46.4	325.2	49,500	50.0	330.8	42,800	235
240	40.7	310.8	54,000	44.8	320.1	47,300	48.5	326.3	40,700	240
245	38.9	304.5	51,800	43.1	314.7	45,200	46.9	321.6	38,800	245
250	37.0	297.9	49,600	41.4	309.0	43,100	45.3	316.6	36,900	250
255	35.0	290.8	47,500	39.6	303.0	41,200	43.7	311.4	35,100	255
260	33.0	283.1	45,500	37.8	296.5	39,300	42.0	305.8	33,300	260
265	30.7	274.7	43,500	35.8	289.6	37,500	40.2	299.8	31,600	265
270	28.4	265.5	41,600	33.8	282.1	35,700	38.4	293.5	30,000	270
275	25.8	255.3	39,800	31.6	274.0	34,000	36.4	286.7	28,400	275
280	22.9	243.7	38,000	29.3	265.2	32,400	34.4	279.4	26,900	280
285	19.7	230.2	36,300	26.8	255.4	30,800	32.3	271.5	25,400	285
290	15.7	213.5	34,500	24.1	244.4	29,200	30.1	262.9	24,000	290
295	10.2	189.8	32,800	21.0	231.7	27,700	27.6	253.5	22,600	295
300				17.4	216.5	26,200	25.0	242.9	21,200	300
310				3.5	156.2	23,000	18.6	216.5	18,500	310

# MLC650 S-2

ASME B30.5



ft	85°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft		
100	74.0	414.9	200,900							100
105	72.9	413.3	200,000							105
110	71.8	411.6	199,100	72.9	412.7	197,400				110
115	70.7	409.8	198,100	71.8	411.0	196,800				115
120	69.6	407.9	194,100	70.7	409.2	188,200				120
125	68.4	405.9	183,700	69.6	407.3	177,900				125
130	67.3	403.8	174,000	68.5	405.3	168,500				130
135	66.1	401.6	165,100	67.3	403.2	159,900	69.0	405.0	152,000	135
140	65.0	399.2	156,900	66.2	400.9	151,800	67.9	403.0	144,300	140
145	63.8	396.7	149,300	65.0	398.6	144,400	66.7	400.8	137,100	145
150	62.6	394.1	142,200	63.8	396.1	137,500	65.6	398.5	130,500	150
155	61.4	391.3	135,600	62.6	393.4	131,100	64.4	396.0	124,300	155
160	60.2	388.4	129,500	61.4	390.7	125,000	63.2	393.5	118,500	160
165	59.0	385.4	123,700	60.2	387.8	119,400	62.0	390.8	113,000	165
170	57.7	382.2	118,200	59.0	384.7	114,100	60.8	387.9	108,000	170
175	56.5	378.8	113,100	57.7	381.5	109,100	59.6	385.0	103,200	175
180	55.2	375.3	108,300	56.5	378.2	104,400	58.3	381.8	98,600	180
185	53.9	371.6	103,800	55.2	374.7	100,000	57.1	378.6	94,400	185
190	52.5	367.7	99,500	53.9	371.0	95,800	55.8	375.1	90,300	190
195	51.2	363.7	95,400	52.5	367.1	91,900	54.5	371.5	86,500	195
200	49.8	359.4	91,600	51.2	363.0	88,100	53.2	367.8	82,900	200
205	48.4	354.9	87,900	49.8	358.8	84,500	51.9	363.8	79,500	205
210	46.9	350.2	84,400	48.4	354.3	81,100	50.5	359.6	76,200	210
215	45.5	345.3	81,100	46.9	349.6	77,900	49.1	355.3	73,100	215
220	43.9	340.0	77,900	45.5	344.6	74,800	47.7	350.7	70,100	220
225	42.4	334.5	74,900	43.9	339.4	71,800	46.2	345.8	67,200	225
230	40.8	328.7	72,000	42.4	333.9	69,000	44.7	340.8	64,500	230
235	39.1	322.5	69,200	40.8	328.1	66,300	43.2	335.4	61,900	235
240	37.3	316.0	66,500	39.1	321.9	63,700	41.6	329.7	59,400	240
245	35.5	308.9	64,000	37.4	315.3	61,200	39.9	323.7	57,000	245
250	33.6	301.4	61,500	35.5	308.3	58,800	38.2	317.4	54,700	250
255	31.6	293.3	59,200	33.6	300.8	56,500	36.5	310.6	52,500	255
260	29.5	284.6	56,900	31.6	292.7	54,300	34.6	303.3	50,400	260
265	27.2	274.9	54,700	29.5	283.9	52,100	32.6	295.5	48,300	265
270	24.7	264.2	52,600	27.2	274.3	50,100	30.6	287.1	46,300	270
275	22.0	252.1	50,500	24.7	263.6	48,100	28.4	277.9	44,400	275
280	18.8	238.0	48,500	22.0	251.5	46,100	26.0	267.8	42,600	280
285	15.0	220.5	46,500	18.8	237.4	44,200	23.4	256.4	40,700	285
290	9.7	195.7	44,500	15.0	219.9	42,400	20.5	243.4	39,000	290
295				9.7	195.2	40,500	17.0	227.8	37,300	295
300							12.6	207.6	35,500	300
310										310
320										320

# MLC650 S-2

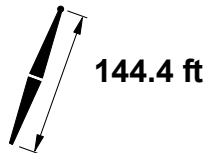
ASME B30.5



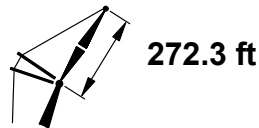
661,300 lb



360°



144.4 ft

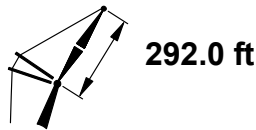
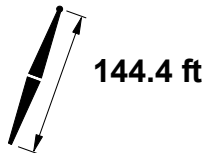
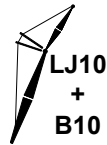


272.3 ft

ft	75°			70°			65°			ft
	ft	lb	ft	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	64.9	394.1	102,600							165
170	63.8	391.6	97,800							170
175	62.6	389.0	93,300							175
180	61.4	386.2	89,100							180
185	60.1	383.3	85,100							185
190	58.9	380.3	81,300							190
195	57.7	377.1	77,800							195
200	56.4	373.7	74,400	59.4	377.4	66,000				200
205	55.1	370.2	71,100	58.2	374.3	63,000				205
210	53.8	366.5	68,100	56.9	371.0	60,100				210
215	52.5	362.6	65,200	55.6	367.5	57,400				215
220	51.1	358.5	62,400	54.3	363.9	54,800				220
225	49.7	354.3	59,700	53.0	360.1	52,300				225
230	48.3	349.8	57,200	51.7	356.1	49,900	54.7	360.0	42,900	230
235	46.9	345.1	54,700	50.3	351.9	47,700	53.4	356.2	40,800	235
240	45.4	340.1	52,400	48.9	347.5	45,500	52.1	352.3	38,800	240
245	43.9	334.9	50,100	47.4	342.9	43,400	50.7	348.2	36,900	245
250	42.3	329.3	48,000	46.0	338.0	41,400	49.3	343.8	35,000	250
255	40.7	323.5	45,900	44.5	332.9	39,500	47.9	339.3	33,200	255
260	39.0	317.3	43,900	42.9	327.5	37,600	46.4	334.5	31,500	260
265	37.3	310.7	42,000	41.3	321.8	35,800	45.0	329.4	29,800	265
270	35.5	303.7	40,200	39.7	315.7	34,100	43.4	324.1	28,200	270
275	33.6	296.2	38,400	38.0	309.3	32,400	41.8	318.5	26,700	275
280	31.5	288.0	36,600	36.2	302.5	30,800	40.2	312.6	25,200	280
285	29.4	279.2	35,000	34.3	295.1	29,300	38.5	306.3	23,700	285
290	27.1	269.5	33,300	32.4	287.3	27,800	36.7	299.6	22,300	290
295	24.6	258.8	31,800	30.3	278.7	26,300	34.9	292.4	21,000	295
300	21.9	246.6	30,200	28.0	269.4	24,900	33.0	284.7	19,600	300
310	14.8	214.7	27,200	23.0	247.5	22,100				310
320				16.4	218.1	19,500				320

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
105	74.1	433.9	168,800						105	
110	73.1	432.4	167,900						110	
115	72.1	430.7	167,000						115	
120	71.0	429.0	166,000	72.1	430.1	165,000			120	
125	70.0	427.1	165,000	71.0	428.3	164,300			125	
130	68.9	425.2	163,900	70.0	426.5	163,500			130	
135	67.9	423.1	162,100	68.9	424.5	156,700			135	
140	66.8	420.9	153,900	67.9	422.5	148,800	69.4	424.2	141,100	
145	65.7	418.6	146,300	66.8	420.3	141,400	68.4	422.2	133,900	
150	64.6	416.2	139,300	65.7	418.0	134,500	67.3	420.1	127,300	
155	63.5	413.7	132,700	64.6	415.6	128,100	66.2	417.8	121,200	
160	62.4	411.0	126,600	63.5	413.0	122,100	65.2	415.5	115,400	
165	61.3	408.3	120,800	62.4	410.4	116,500	64.1	413.0	110,000	
170	60.2	405.4	115,400	61.3	407.6	111,200	63.0	410.4	104,900	
175	59.0	402.3	110,300	60.2	404.7	106,200	61.9	407.7	100,100	
180	57.8	399.1	105,500	59.0	401.7	101,500	60.7	404.9	95,600	
185	56.7	395.8	101,000	57.8	398.5	97,100	59.6	401.9	91,400	
190	55.5	392.3	96,700	56.7	395.2	93,000	58.4	398.8	87,400	
195	54.3	388.7	92,600	55.5	391.7	89,000	57.3	395.6	83,600	
200	53.0	384.9	88,800	54.3	388.1	85,300	56.1	392.2	80,000	
205	51.8	380.9	85,100	53.0	384.3	81,700	54.9	388.6	76,600	
210	50.5	376.8	81,700	51.8	380.3	78,300	53.6	384.9	73,300	
215	49.2	372.4	78,400	50.5	376.1	75,100	52.4	381.0	70,200	
220	47.9	367.9	75,200	49.2	371.8	72,000	51.1	376.9	67,200	
225	46.5	363.1	72,200	47.9	367.2	69,100	49.8	372.7	64,400	
230	45.1	358.1	69,300	46.5	362.5	66,300	48.5	368.2	61,700	
235	43.7	352.8	66,500	45.1	357.5	63,600	47.2	363.6	59,100	
240	42.2	347.3	63,900	43.7	352.2	61,000	45.8	358.7	56,600	
245	40.7	341.4	61,400	42.2	346.7	58,500	44.4	353.6	54,300	
250	39.2	335.3	58,900	40.7	340.8	56,100	43.0	348.2	52,000	
255	37.6	328.8	56,600	39.2	334.7	53,900	41.5	342.5	49,800	
260	35.9	321.9	54,300	37.6	328.2	51,700	40.0	336.5	47,700	
265	34.1	314.5	52,200	35.9	321.2	49,500	38.4	330.2	45,600	
270	32.3	306.6	50,100	34.1	313.9	47,500	36.7	323.4	43,700	
275	30.4	298.1	48,000	32.3	306.0	45,500	35.0	316.3	41,800	
280	28.3	288.9	46,100	30.4	297.5	43,600	33.2	308.7	39,900	
285	26.1	278.8	44,200	28.3	288.3	41,800	31.3	300.5	38,200	
290	23.7	267.5	42,300	26.1	278.2	40,000	29.4	291.6	36,500	
295	21.0	254.8	40,600	23.7	266.9	38,300	27.2	282.0	34,800	
300	17.9	240.0	38,800	21.0	254.2	36,600	24.9	271.4	33,200	
310	8.9	195.0	35,300	14.2	221.0	33,300	19.5	245.8	30,100	
320							11.9	208.0	27,000	
330									330	

# MLC650 S-2

ASME B30.5



661,300 lb



144.4 ft

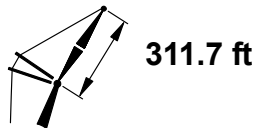
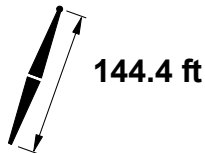
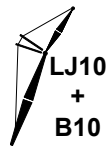


292.0 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170
175	64.6	411.2	90,100							175
180	63.5	408.6	85,900							180
185	62.4	406.0	82,000							185
190	61.2	403.2	78,200							190
195	60.1	400.3	74,700							195
200	59.0	397.2	71,300							200
205	57.8	394.1	68,100							205
210	56.6	390.7	65,000	59.4	394.4	56,900				210
215	55.4	387.2	62,100	58.3	391.3	54,200				215
220	54.2	383.6	59,400	57.1	388.0	51,700				220
225	53.0	379.8	56,700	55.9	384.6	49,200				225
230	51.7	375.8	54,200	54.7	381.0	46,800				230
235	50.4	371.6	51,800	53.5	377.2	44,600				235
240	49.1	367.3	49,500	52.2	373.3	42,400				240
245	47.8	362.7	47,200	50.9	369.2	40,400	53.8	373.3	33,700	245
250	46.5	357.9	45,100	49.7	365.0	38,400	52.6	369.5	31,800	250
255	45.1	352.9	43,100	48.3	360.5	36,500	51.3	365.5	30,100	255
260	43.6	347.6	41,100	47.0	355.8	34,600	50.1	361.2	28,400	260
265	42.2	342.1	39,200	45.6	350.9	32,900	48.8	356.8	26,700	265
270	40.7	336.3	37,300	44.2	345.7	31,200	47.4	352.2	25,100	270
275	39.1	330.1	35,600	42.8	340.3	29,500	46.1	347.3	23,600	275
280	37.5	323.5	33,900	41.3	334.5	27,900	44.7	342.2	22,100	280
285	35.8	316.6	32,200	39.7	328.5	26,400	43.2	336.9	20,700	285
290	34.1	309.2	30,600	38.1	322.1	24,900	41.7	331.3	19,000	290
295	32.2	301.3	29,100	36.5	315.3	23,500				295
300	30.3	292.8	27,600	34.8	308.1	22,100				300
310	26.0	273.4	24,700	31.1	292.1	19,400				310
320	20.9	249.3	22,000							320
330	14.0	215.7	19,300							330

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
110	74.2	453.0	144,800						110	
115	73.2	451.4	143,900						115	
120	72.3	449.8	143,000						120	
125	71.3	448.1	142,100	72.3	449.2	141,300			125	
130	70.3	446.3	141,200	71.3	447.5	140,600			130	
135	69.3	444.3	140,200	70.3	445.6	139,800			135	
140	68.3	442.3	139,200	69.3	443.7	139,100			140	
145	67.3	440.2	138,300	68.3	441.7	138,300	69.8	443.4	132,000	
150	66.3	438.0	137,300	67.3	439.6	132,700	68.8	441.4	125,400	
155	65.3	435.7	131,000	66.3	437.4	126,300	67.8	439.4	119,200	
160	64.3	433.2	124,900	65.3	435.0	120,300	66.8	437.2	113,500	
165	63.3	430.7	119,100	64.3	432.6	114,700	65.8	434.9	108,100	
170	62.2	428.0	113,700	63.3	430.0	109,500	64.8	432.5	103,100	
175	61.2	425.2	108,700	62.2	427.4	104,500	63.8	430.0	98,300	
180	60.1	422.3	103,900	61.2	424.6	99,900	62.7	427.4	93,900	
185	59.0	419.3	99,400	60.1	421.7	95,500	61.7	424.7	89,600	
190	57.9	416.1	95,100	59.0	418.6	91,300	60.6	421.8	85,600	
195	56.8	412.8	91,100	58.0	415.5	87,400	59.6	418.9	81,900	
200	55.7	409.4	87,300	56.9	412.2	83,700	58.5	415.8	78,300	
205	54.6	405.8	83,600	55.7	408.7	80,100	57.4	412.5	74,900	
210	53.5	402.0	80,200	54.6	405.2	76,700	56.3	409.2	71,600	
215	52.3	398.1	76,900	53.5	401.4	73,500	55.2	405.7	68,500	
220	51.1	394.1	73,700	52.3	397.5	70,500	54.0	402.0	65,600	
225	49.9	389.8	70,700	51.1	393.5	67,500	52.9	398.2	62,800	
230	48.7	385.4	67,800	49.9	389.2	64,700	51.7	394.2	60,100	
235	47.4	380.8	65,100	48.7	384.8	62,100	50.5	390.0	57,500	
240	46.1	375.9	62,500	47.4	380.2	59,500	49.3	385.7	55,000	
245	44.8	370.9	59,900	46.1	375.3	57,000	48.0	381.2	52,700	
250	43.5	365.6	57,500	44.8	370.3	54,700	46.8	376.5	50,400	
255	42.1	360.0	55,200	43.5	365.0	52,400	45.5	371.5	48,200	
260	40.7	354.2	52,900	42.1	359.4	50,200	44.2	366.3	46,100	
265	39.3	348.1	50,800	40.7	353.6	48,100	42.8	360.9	44,100	
270	37.7	341.6	48,700	39.3	347.4	46,100	41.4	355.2	42,200	
275	36.2	334.7	46,700	37.8	341.0	44,100	40.0	349.2	40,300	
280	34.6	327.5	44,800	36.2	334.1	42,300	38.5	342.9	38,500	
285	32.9	319.8	42,900	34.6	326.9	40,400	37.0	336.3	36,700	
290	31.1	311.5	41,100	32.9	319.1	38,700	35.4	329.2	35,100	
295	29.2	302.6	39,300	31.1	310.9	37,000	33.7	321.7	33,400	
300	27.2	292.9	37,600	29.2	302.0	35,300	32.0	313.8	31,800	
310	22.7	270.7	34,400	25.1	281.8	32,200	28.2	295.9	28,800	
320	17.1	241.8	31,300	20.1	256.8	29,100	23.9	274.8	25,900	
330	8.1	193.9	28,200	13.5	221.9	26,200	18.7	248.0	23,200	
340							11.1	208.1	20,500	



# MLC650 S-2

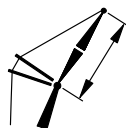
ASME B30.5



661,300 lb



144.4 ft

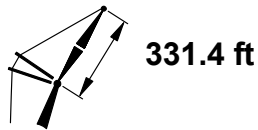
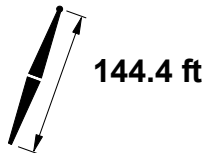
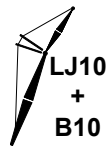


311.7 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170
175										175
180										180
185	64.3	428.2	80,000							185
190	63.2	425.6	76,300							190
195	62.2	422.9	72,800							195
200	61.1	420.2	69,400							200
205	60.1	417.2	66,200							205
210	59.0	414.2	63,200							210
215	57.9	411.0	60,300							215
220	56.8	407.7	57,600	59.4	411.3	49,700				220
225	55.7	404.3	54,900	58.3	408.2	47,300				225
230	54.6	400.7	52,400	57.2	405.0	45,000				230
235	53.4	396.9	50,000	56.1	401.6	42,700				235
240	52.2	393.0	47,700	55.0	398.1	40,600				240
245	51.1	389.0	45,500	53.9	394.4	38,500				245
250	49.8	384.7	43,400	52.7	390.5	36,600				250
255	48.6	380.3	41,400	51.5	386.5	34,700	54.2	390.4	28,100	255
260	47.4	375.6	39,400	50.3	382.3	32,800	53.1	386.7	26,400	260
265	46.1	370.8	37,500	49.1	378.0	31,100	51.9	382.7	24,800	265
270	44.8	365.7	35,700	47.9	373.4	29,400	50.7	378.6	23,300	270
275	43.4	360.4	34,000	46.6	368.7	27,800	49.5	374.3	21,700	275
280	42.1	354.8	32,300	45.3	363.7	26,200	48.3	369.8	19,900	280
285	40.6	349.0	30,700	44.0	358.5	24,700	47.0	365.1	18,200	285
290	39.2	342.8	29,100	42.6	353.0	23,200				290
295	37.7	336.4	27,600	41.2	347.3	21,800				295
300	36.1	329.5	26,100	39.8	341.2	20,400				300
310	32.8	314.5	23,300							310
320	29.1	297.2	20,600							320
330	25.0	277.0	18,100							330
340										340

# MLC650 S-2

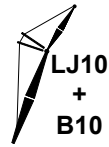
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
115	74.3	472.0	123,700						115	
120	73.4	470.5	122,600						120	
125	72.4	468.9	121,800						125	
130	71.5	467.2	120,900	72.5	468.3	120,300			130	
135	70.6	465.4	120,100	71.5	466.6	119,600			135	
140	69.7	463.5	119,200	70.6	464.8	118,900			140	
145	68.8	461.6	118,300	69.7	462.9	118,100			145	
150	67.8	459.5	117,400	68.8	460.9	117,400			150	
155	66.9	457.3	116,500	67.8	458.9	116,600	69.2	460.6	114,400	155
160	65.9	455.1	115,600	66.9	456.7	115,900	68.3	458.6	110,500	160
165	65.0	452.7	114,700	65.9	454.4	111,900	67.4	456.5	105,200	165
170	64.0	450.2	111,000	65.0	452.1	106,600	66.4	454.3	100,100	170
175	63.0	447.6	105,900	64.0	449.6	101,700	65.5	452.0	95,400	175
180	62.1	445.0	101,200	63.0	447.0	97,100	64.5	449.5	91,000	180
185	61.1	442.2	96,700	62.1	444.3	92,700	63.5	447.0	86,800	185
190	60.1	439.3	92,400	61.1	441.5	88,500	62.6	444.4	82,800	190
195	59.1	436.2	88,400	60.1	438.6	84,600	61.6	441.7	79,000	195
200	58.0	433.1	84,600	59.1	435.6	80,900	60.6	438.8	75,400	200
205	57.0	429.8	80,900	58.0	432.5	77,400	59.6	435.8	72,000	205
210	56.0	426.4	77,500	57.0	429.2	74,000	58.6	432.7	68,800	210
215	54.9	422.8	74,200	56.0	425.8	70,800	57.5	429.5	65,700	215
220	53.8	419.2	71,100	54.9	422.2	67,800	56.5	426.2	62,800	220
225	52.7	415.3	68,100	53.8	418.5	64,800	55.4	422.7	60,000	225
230	51.6	411.3	65,200	52.7	414.7	62,100	54.4	419.1	57,300	230
235	50.5	407.2	62,500	51.6	410.7	59,400	53.3	415.3	54,800	235
240	49.4	402.9	59,900	50.5	406.6	56,800	52.2	411.4	52,300	240
245	48.2	398.4	57,300	49.4	402.2	54,400	51.1	407.4	50,000	245
250	47.0	393.7	54,900	48.2	397.7	52,000	49.9	403.1	47,700	250
255	45.8	388.8	52,600	47.0	393.1	49,800	48.8	398.7	45,500	255
260	44.6	383.7	50,400	45.8	388.2	47,600	47.6	394.1	43,400	260
265	43.3	378.4	48,200	44.6	383.1	45,500	46.4	389.3	41,400	265
270	42.0	372.8	46,200	43.3	377.7	43,500	45.2	384.3	39,500	270
275	40.7	366.9	44,200	42.0	372.2	41,600	43.9	379.1	37,600	275
280	39.3	360.8	42,300	40.7	366.3	39,700	42.7	373.7	35,900	280
285	37.9	354.4	40,400	39.3	360.2	37,900	41.4	368.0	34,100	285
290	36.5	347.6	38,600	37.9	353.8	36,100	40.0	362.0	32,400	290
295	34.9	340.4	36,900	36.5	347.0	34,500	38.6	355.7	30,800	295
300	33.4	332.9	35,200	34.9	339.8	32,800	37.2	349.1	29,300	300
310	30.0	316.2	32,000	31.7	324.2	29,700	34.2	334.8	26,300	310
320	26.2	296.8	29,000	28.2	306.3	26,800	30.9	318.6	23,400	320
330	21.9	273.6	26,100	24.2	285.2	24,000	27.2	300.0	20,800	330
340	16.4	243.4	23,300	19.3	259.1	21,300	23.0	277.9	18,200	340
350	7.4	192.6	20,600	12.8	222.5	18,700				350

# MLC650 S-2

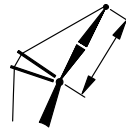
ASME B30.5



661,300 lb



144.4 ft

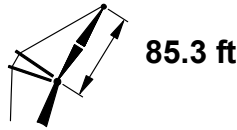
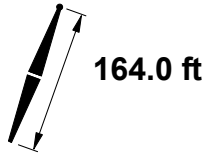
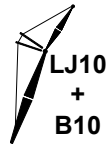


331.4 ft

	75°			70°			
	ft	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	64.9	447.6	73,300				190
195	64.0	445.2	69,800				195
200	63.0	442.6	66,400				200
205	62.0	439.9	63,300				205
210	61.0	437.1	60,200				210
215	60.0	434.2	57,400				215
220	59.0	431.2	54,600				220
225	58.0	428.0	52,000				225
230	57.0	424.7	49,500	59.4	428.3	41,900	230
235	55.9	421.3	47,100	58.4	425.2	39,700	235
240	54.9	417.8	44,900	57.4	422.0	37,600	240
245	53.8	414.1	42,700	56.3	418.6	35,500	245
250	52.7	410.2	40,600	55.3	415.1	33,600	250
255	51.6	406.2	38,500	54.2	411.5	31,700	255
260	50.5	402.1	36,600	53.1	407.7	29,900	260
265	49.3	397.7	34,700	52.0	403.7	28,200	265
270	48.2	393.2	32,900	50.9	399.7	26,500	270
275	47.0	388.5	31,200	49.8	395.4	24,900	275
280	45.8	383.6	29,500	48.6	391.0	23,300	280
285	44.5	378.5	27,900	47.4	386.3	21,800	285
290	43.3	373.2	26,300	46.2	381.5	20,200	290
295	42.0	367.6	24,800	45.0	376.5	18,500	295
300	40.6	361.7	23,400				300
310	37.8	349.2	20,600				310
320							320
330							330
340							340
350							350

# MLC650 S-2

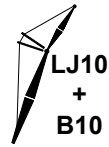
ASME B30.5



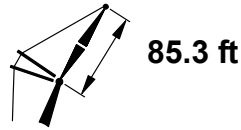
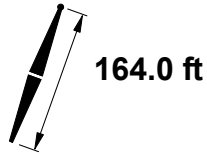
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
50	74.2	254.8	539,300 d						50	
55	70.6	252.9	493,100 c						55	
60	67.0	250.7	443,400 c	71.1	252.5	441,700 c			60	
65	63.2	248.0	402,800 b	67.5	250.3	401,300 c			65	
70	59.2	244.9	369,100 b	63.7	247.7	367,600 b			70	
75	55.1	241.3	340,500	59.8	244.7	339,100 b	66.4	248.1	337,200 b	75
80	50.7	237.1	316,000	55.7	241.1	314,700	62.5	245.4	312,900 b	80
85	46.0	232.2	294,900	51.3	237.0	293,600	58.6	242.2	291,900 b	85
90	40.8	226.3	276,400	46.7	232.2	275,200	54.4	238.5	273,500	90
95	34.9	219.1	260,100	41.6	226.5	258,900	50.0	234.2	257,300	95
100	27.9	209.9	245,700	35.8	219.5	244,500	45.2	229.2	243,000	100
105	18.1	196.2	232,900	29.0	210.7	231,700	39.9	223.1	230,100	105
110				19.8	197.9	220,200	33.9	215.7	218,600	110
115							26.6	206.0	208,200	115
120							15.9	190.8	198,900	120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160

# MLC650 S-2

ASME B30.5



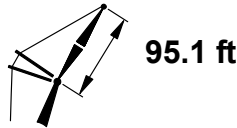
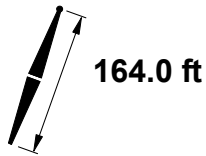
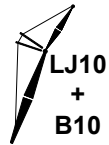
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.7	241.4	253,700 b							95
100	57.7	238.1	237,700							100
105	53.5	234.3	223,400							105
110	49.0	229.9	210,400							110
115	44.1	224.6	198,600	56.6	232.5	184,900				115
120	38.7	218.3	187,900	52.3	228.6	174,800				120
125	32.5	210.5	178,000	47.7	223.9	165,700				125
130	24.8	200.1	168,700	42.7	218.4	157,200				130
135	12.2	182.1	159,800	37.1	211.7	149,300	50.6	221.2	138,300	135
140				30.6	203.4	142,000	45.9	216.2	131,500	140
145				22.1	191.8	135,000	40.7	210.3	125,200	145
150							34.9	203.2	119,300	150
155							27.8	193.9	113,700	155
160							17.9	180.0	108,200	160

# MLC650 S-2

ASME B30.5



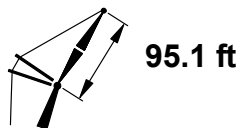
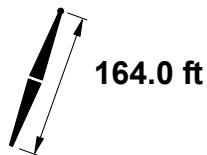
	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
55	72.7	263.5	493,000 c						55	
60	69.5	261.5	443,500 c						60	
65	66.2	259.2	402,900 b	70.0	261.1	401,400 b			65	
70	62.8	256.5	369,200 b	66.7	258.8	367,700 b			70	
75	59.2	253.4	340,600	63.3	256.2	339,300 b	69.0	259.0	337,400 b	75
80	55.6	249.9	316,200	59.8	253.2	314,900	65.7	256.6	313,100 b	80
85	51.7	245.8	295,000	56.1	249.7	293,800	62.2	253.9	292,100 b	85
90	47.6	241.1	276,500	52.2	245.7	275,400	58.7	250.7	273,700	90
95	43.1	235.7	260,200	48.2	241.1	259,100	55.0	247.1	257,500	95
100	38.3	229.3	245,700	43.8	235.8	244,600	51.0	243.0	243,100	100
105	32.7	221.6	232,800	39.0	229.6	231,700	46.9	238.2	230,300	105
110	26.0	211.6	221,200	33.5	222.1	220,100	42.4	232.6	218,700	110
115	16.6	196.8	210,800	27.0	212.5	209,700	37.4	226.0	208,300	115
120				18.2	198.7	200,300	31.7	218.0	198,800	120
125							24.7	207.6	188,800	125
130							14.4	191.1	178,900	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170

# MLC650 S-2

ASME B30.5



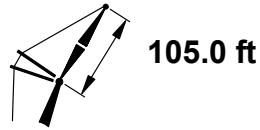
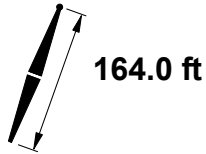
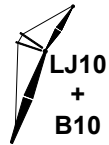
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	64.9	252.7	251,100							95
100	61.5	249.9	235,200							100
105	57.9	246.6	221,000							105
110	54.2	242.9	208,100							110
115	50.2	238.6	196,500							115
120	46.0	233.7	185,900	56.9	241.1	172,400				120
125	41.4	228.0	176,100	53.1	237.2	163,300				125
130	36.3	221.1	167,100	49.1	232.8	155,000				130
135	30.4	212.7	158,800	44.7	227.6	147,300				135
140	23.0	201.5	150,900	40.0	221.6	140,100	51.6	229.9	129,200	140
145	10.7	181.7	143,300	34.8	214.4	133,400	47.5	225.2	123,000	145
150				28.6	205.4	127,000	43.1	219.8	117,200	150
155				20.5	192.9	121,000	38.2	213.4	111,800	155
160							32.6	205.6	106,600	160
165							25.9	195.6	101,700	165
170							16.4	180.6	96,900	170

# MLC650 S-2

ASME B30.5

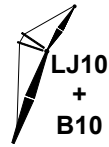


	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	74.4	273.9	490,900 <b>c</b>						55	
60	71.5	272.1	443,000 <b>b</b>						60	
65	68.6	270.0	402,600 <b>b</b>	71.9	271.6	401,100 <b>b</b>			65	
70	65.6	267.7	368,900 <b>b</b>	69.0	269.6	367,500 <b>b</b>			70	
75	62.5	265.0	340,500	66.0	267.3	339,100 <b>b</b>			75	
80	59.3	261.9	316,000	62.9	264.6	314,800	68.1	267.5	313,000	80
85	55.9	258.4	294,900	59.7	261.6	293,700	65.1	265.1	292,000	85
90	52.5	254.5	276,400	56.4	258.2	275,300	62.0	262.3	273,700	90
95	48.8	250.0	260,100	53.0	254.3	259,000	58.7	259.2	257,500	95
100	44.9	244.9	245,600	49.3	250.0	244,600	55.4	255.7	243,100	100
105	40.7	239.0	232,600	45.5	245.0	231,600	51.9	251.6	230,200	105
110	36.1	232.2	221,000	41.3	239.2	220,000	48.2	247.1	218,700	110
115	30.8	223.8	210,500	36.8	232.5	209,500	44.3	241.9	208,200	115
120	24.4	213.2	201,000	31.6	224.4	200,000	40.0	235.9	198,600	120
125	15.2	197.2	192,400	25.4	214.2	191,300	35.3	228.8	188,300	125
130				16.9	199.4	183,500	29.9	220.2	178,700	130
135							23.2	209.0	169,800	135
140							13.1	191.2	161,300	140
145									145	
150									150	
155									155	
160									160	
165									165	
170									170	
175									175	
180									180	

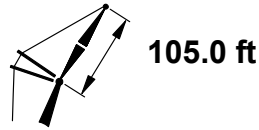
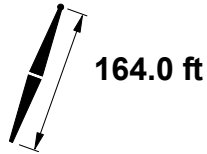


# MLC650 S-2

ASME B30.5



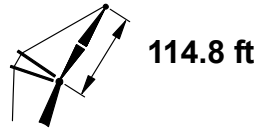
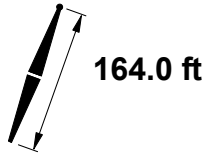
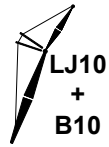
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	64.4	261.2	233,700							100
105	61.3	258.3	219,500							105
110	58.1	255.1	206,800							110
115	54.7	251.5	195,200							115
120	51.2	247.4	184,700							120
125	47.4	242.7	175,100	57.1	249.6	162,000				125
130	43.4	237.3	166,200	53.7	245.8	153,700				130
135	39.1	231.1	158,000	50.1	241.5	146,100				135
140	34.2	223.8	150,300	46.3	236.7	139,000				140
145	28.6	214.7	143,200	42.3	231.1	132,400	52.4	238.5	121,700	145
150	21.5	202.7	136,400	37.8	224.6	126,200	48.8	234.1	116,000	150
155	9.4	181.1	129,800	32.8	216.9	120,400	44.9	229.0	110,600	155
160				26.8	207.2	115,000	40.7	223.1	105,600	160
165				19.0	193.8	109,700	36.0	216.2	100,900	165
170							30.7	207.8	96,400	170
175							24.3	197.1	92,100	175
180							15.1	181.0	87,800	180

# MLC650 S-2

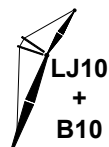
ASME B30.5



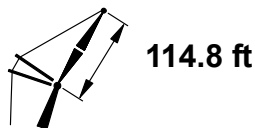
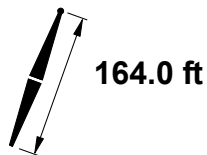
	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
60	73.2	282.5	443,100 b						60	
65	70.5	280.7	402,700 b						65	
70	67.8	278.6	369,100 b	70.9	280.3	367,700 b			70	
75	65.0	276.2	340,600	68.2	278.2	339,300			75	
80	62.2	273.4	316,200	65.4	275.8	315,000			80	
85	59.3	270.4	295,100	62.6	273.1	293,900	67.4	276.1	292,200	85
90	56.3	266.9	276,600	59.7	270.1	275,500	64.6	273.6	273,900	90
95	53.1	263.1	260,300	56.7	266.7	259,200	61.7	270.8	257,700	95
100	49.8	258.8	245,800	53.6	263.0	244,700	58.8	267.7	243,300	100
105	46.4	253.9	232,800	50.3	258.7	231,800	55.8	264.2	230,400	105
110	42.7	248.4	221,100	46.9	254.0	220,200	52.6	260.3	218,800	110
115	38.6	242.1	210,600	43.2	248.6	209,700	49.3	255.9	207,900	115
120	34.2	234.8	201,000	39.2	242.4	200,100	45.8	251.0	196,700	120
125	29.1	225.9	192,300	34.9	235.2	191,400	42.0	245.3	186,500	125
130	23.0	214.6	184,300	29.9	226.6	183,400	38.0	238.9	177,000	130
135	14.1	197.5	177,100	23.9	215.7	175,700	33.4	231.3	168,300	135
140				15.7	199.9	167,000	28.2	222.2	160,200	140
145							21.8	210.3	152,600	145
150							11.9	191.2	145,200	150
155									155	
160									160	
165									165	
170									170	
175									175	
180									180	
185									185	
190									190	

# MLC650 S-2

ASME B30.5



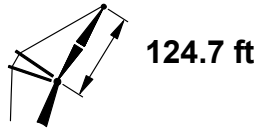
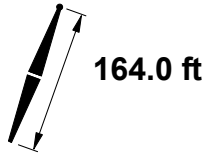
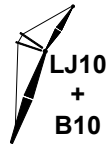
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	64.0	269.7	217,000							105
110	61.1	266.8	204,400							110
115	58.2	263.6	192,900							115
120	55.1	260.0	182,400							120
125	51.9	256.0	172,900							125
130	48.6	251.5	164,100	57.3	258.1	151,300				130
135	45.0	246.5	155,900	54.2	254.4	143,700				135
140	41.2	240.7	148,400	51.0	250.3	136,700				140
145	37.1	234.0	141,400	47.6	245.6	130,200				145
150	32.4	226.2	134,800	44.0	240.4	124,100	53.1	247.2	113,600	150
155	27.0	216.6	128,700	40.1	234.4	118,400	49.8	242.9	108,300	155
160	20.2	203.8	122,800	35.8	227.4	113,100	46.3	238.0	103,400	160
165	8.1	180.2	116,900	31.0	219.2	108,000	42.6	232.5	98,700	165
170				25.3	208.9	103,200	38.6	226.2	94,300	170
175				17.8	194.7	98,600	34.1	218.8	90,200	175
180							29.1	209.9	86,200	180
185							22.9	198.6	82,400	185
190							13.9	181.3	78,500	190

# MLC650 S-2

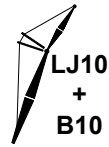
ASME B30.5



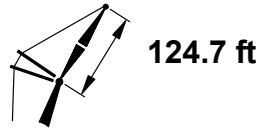
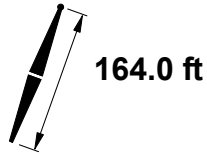
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60	74.6	292.9	442,000 b						60	
65	72.1	291.2	401,800 b						65	
70	69.7	289.3	368,300	72.5	290.8	366,900 b			70	
75	67.2	287.1	340,000	70.0	288.9	338,700			75	
80	64.6	284.6	315,700	67.5	286.7	314,400			80	
85	62.0	281.9	294,600	65.0	284.3	293,400	69.3	286.8	291,700	85
90	59.3	278.8	276,100	62.4	281.6	275,000	66.8	284.6	273,400	90
95	56.5	275.5	259,800	59.7	278.6	258,800	64.2	282.1	257,300	95
100	53.7	271.7	245,300	56.9	275.2	244,400	61.6	279.3	242,900	100
105	50.7	267.5	232,400	54.1	271.5	231,500	58.9	276.2	230,100	105
110	47.5	262.9	220,700	51.1	267.4	219,800	56.1	272.7	218,500	110
115	44.2	257.7	210,200	48.0	262.8	209,300	53.2	268.9	207,900	115
120	40.7	251.8	200,600	44.7	257.7	199,800	50.2	264.7	196,800	120
125	36.8	245.1	191,900	41.2	251.9	191,100	47.0	259.9	186,600	125
130	32.6	237.3	183,900	37.4	245.4	183,100	43.7	254.6	177,200	130
135	27.7	227.9	176,600	33.2	237.7	175,800	40.1	248.6	168,600	135
140	21.7	215.9	169,800	28.4	228.6	167,800	36.2	241.8	160,600	140
145	13.0	197.7	163,700	22.7	217.1	160,000	31.8	233.7	153,100	145
150				14.6	200.3	152,600	26.8	224.0	146,200	150
155							20.6	211.5	139,600	155
160							10.9	191.0	133,200	160
165										165
170										170
175										175
180										180
185										185
190										190
195										195
200										200

# MLC650 S-2

ASME B30.5



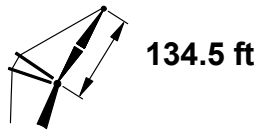
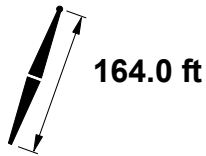
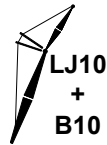
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	63.7	278.1	204,200							110
115	61.0	275.3	192,700							115
120	58.3	272.1	182,300							120
125	55.5	268.6	172,800							125
130	52.6	264.7	164,100							130
135	49.5	260.3	156,000	57.5	266.6	143,700				135
140	46.3	255.5	148,600	54.7	263.0	136,700				140
145	42.9	250.0	141,600	51.7	258.9	130,200				145
150	39.3	243.9	135,200	48.7	254.5	124,200				150
155	35.3	236.8	129,100	45.4	249.5	118,600	53.6	255.8	108,300	155
160	30.9	228.5	123,400	41.9	243.8	113,300	50.6	251.6	103,400	160
165	25.7	218.4	118,000	38.2	237.4	108,400	47.5	246.9	98,800	165
170	19.0	204.8	112,900	34.1	230.1	103,700	44.2	241.7	94,500	170
175	6.9	178.9	107,600	29.5	221.3	99,300	40.6	235.8	90,400	175
180				24.0	210.5	95,000	36.8	229.1	86,600	180
185				16.7	195.4	90,900	32.5	221.3	82,900	185
190							27.6	211.9	79,300	190
195							21.6	199.9	75,900	195
200							12.9	181.5	72,500	200

# MLC650 S-2

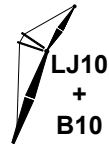
ASME B30.5



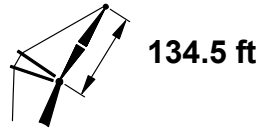
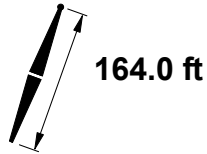
	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
65	73.5	301.6	402,000						65	
70	71.2	299.9	368,500						70	
75	68.9	297.9	340,200	71.6	299.4	338,900			75	
80	66.6	295.6	315,900	69.3	297.4	314,600			80	
85	64.2	293.1	294,800	66.9	295.2	293,600			85	
90	61.8	290.4	276,300	64.6	292.8	275,200	68.6	295.4	273,700	
95	59.3	287.3	260,000	62.2	290.1	259,000	66.2	293.1	257,500	
100	56.8	284.0	245,600	59.7	287.1	244,600	63.9	290.6	243,200	
105	54.1	280.3	232,600	57.1	283.8	231,700	61.4	287.8	230,300	
110	51.4	276.2	220,900	54.5	280.1	220,000	58.9	284.7	217,900	
115	48.5	271.7	210,400	51.8	276.1	209,500	56.3	281.3	205,800	
120	45.5	266.7	200,800	48.9	271.7	200,000	53.7	277.5	194,700	
125	42.3	261.2	192,000	45.9	266.7	191,200	50.9	273.4	184,600	
130	38.9	254.9	184,000	42.8	261.3	183,200	48.0	268.8	175,300	
135	35.2	247.8	176,700	39.4	255.2	174,500	45.0	263.7	166,700	
140	31.1	239.6	169,900	35.8	248.2	166,200	41.8	258.1	158,800	
145	26.4	229.7	163,300	31.7	240.1	158,500	38.3	251.7	151,400	
150	20.6	217.1	155,800	27.1	230.5	151,300	34.6	244.5	144,500	
155	12.1	197.7	148,700	21.5	218.4	144,600	30.4	236.0	138,100	
160				13.7	200.6	138,100	25.6	225.8	132,000	
165							19.5	212.5	126,200	
170							9.9	190.6	120,600	
175									175	
180									180	
185									185	
190									190	
195									195	
200									200	
205									205	
210									210	

# MLC650 S-2

ASME B30.5



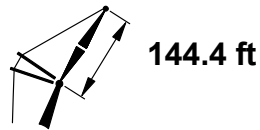
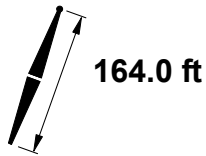
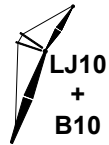
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	63.3	286.6	190,300							115
120	60.9	283.8	180,000							120
125	58.4	280.6	170,500							125
130	55.8	277.1	161,900							130
135	53.1	273.3	153,900							135
140	50.3	269.1	146,500	57.7	275.1	134,300				140
145	47.4	264.4	139,600	55.1	271.5	127,900				145
150	44.3	259.2	133,200	52.3	267.6	122,000				150
155	41.1	253.4	127,200	49.5	263.2	116,400				155
160	37.6	246.9	121,600	46.6	258.4	111,200	54.1	264.4	101,100	160
165	33.8	239.4	116,300	43.5	253.1	106,300	51.3	260.3	96,500	165
170	29.5	230.7	111,300	40.1	247.1	101,700	48.5	255.8	92,300	170
175	24.4	220.0	106,500	36.6	240.4	97,300	45.4	250.8	88,200	175
180	18.0	205.7	102,000	32.6	232.6	93,200	42.3	245.2	84,400	180
185	5.6	177.1	97,300	28.2	223.4	89,300	38.9	239.0	80,800	185
190				22.8	211.9	85,500	35.2	231.9	77,400	190
195				15.7	195.9	81,800	31.0	223.6	74,100	195
200							26.3	213.7	70,900	200
205							20.5	201.0	67,800	205
210							11.9	181.5	64,700	210

# MLC650 S-2

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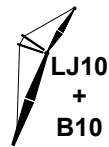


	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
65	74.7	312.0	401,600						65	
70	72.6	310.3	368,300						70	
75	70.5	308.5	340,000	72.9	309.8	338,700			75	
80	68.3	306.4	315,700	70.8	308.0	314,500			80	
85	66.1	304.1	294,700	68.6	306.0	293,500			85	
90	63.9	301.6	276,200	66.4	303.8	275,200			90	
95	61.6	298.8	260,000	64.2	301.3	259,000	68.0	303.9	257,500	95
100	59.3	295.8	245,500	62.0	298.5	244,500	65.8	301.6	243,100	100
105	56.9	292.5	232,600	59.7	295.5	231,600	63.6	299.0	229,600	105
110	54.5	288.8	220,900	57.3	292.3	220,000	61.3	296.2	216,300	110
115	52.0	284.9	210,300	54.8	288.7	209,500	58.9	293.1	204,200	115
120	49.3	280.5	200,800	52.3	284.7	199,900	56.6	289.8	193,200	120
125	46.6	275.7	192,000	49.7	280.4	191,200	54.1	286.1	183,100	125
130	43.7	270.4	184,000	47.0	275.7	182,100	51.5	282.0	173,800	130
135	40.6	264.5	176,600	44.1	270.5	173,200	48.9	277.6	165,300	135
140	37.3	257.9	169,800	41.1	264.7	165,000	46.1	272.7	157,400	140
145	33.8	250.5	162,200	37.8	258.2	157,400	43.2	267.4	150,100	145
150	29.8	241.8	154,900	34.3	250.9	150,200	40.1	261.4	143,300	150
155	25.2	231.5	148,000	30.4	242.4	143,600	36.8	254.7	136,900	155
160	19.6	218.2	141,500	25.9	232.3	137,300	33.2	247.0	130,900	160
165	11.2	197.6	135,300	20.5	219.6	131,400	29.1	238.1	125,300	165
170				12.8	200.8	125,700	24.4	227.4	119,900	170
175							18.6	213.5	114,800	175
180							9.0	190.0	109,800	180
185										185
190										190
195										195
200										200
205										205
210										210
215										215
220										220

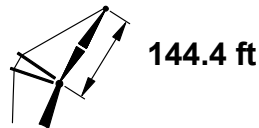
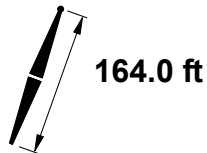


# MLC650 S-2

ASME B30.5



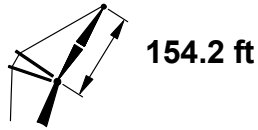
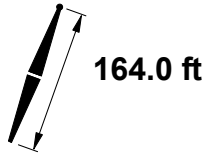
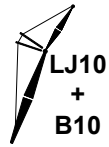
661,300 lb



ft	75°			70°			65°			ft
	ft	lb	lb	ft	lb	lb	ft	lb	lb	
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120	63.1	295.1	178,300							120
125	60.8	292.2	168,900							125
130	58.5	289.1	160,300							130
135	56.0	285.6	152,300							135
140	53.6	281.9	144,900							140
145	51.0	277.8	138,100	57.8	283.6	126,300				145
150	48.3	273.2	131,700	55.4	280.1	120,400				150
155	45.5	268.3	125,800	52.9	276.2	114,900				155
160	42.6	262.8	120,200	50.3	272.0	109,700				160
165	39.4	256.7	115,000	47.6	267.3	104,800	54.5	272.9	94,900	165
170	36.1	249.8	110,100	44.7	262.2	100,300	51.9	268.9	90,700	170
175	32.4	241.9	105,400	41.7	256.6	96,000	49.3	264.6	86,700	175
180	28.2	232.7	101,000	38.5	250.2	91,900	46.5	259.8	82,900	180
185	23.3	221.5	96,800	35.1	243.1	88,000	43.6	254.5	79,400	185
190	17.1	206.5	92,700	31.3	234.9	84,300	40.6	248.6	76,000	190
195	4.1	174.3	88,400	26.9	225.3	80,800	37.3	242.0	72,800	195
200				21.8	213.3	77,400	33.7	234.5	69,700	200
205				14.8	196.4	74,100	29.7	225.8	66,700	205
210							25.2	215.4	63,900	210
215							19.5	202.1	61,100	215
220							11.0	181.3	58,200	220

# MLC650 S-2

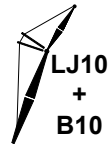
ASME B30.5



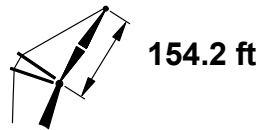
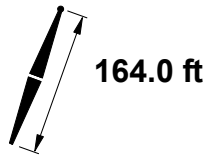
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
70	73.7	320.7	368,400						70	
75	71.8	319.0	340,200						75	
80	69.8	317.1	315,900	72.0	318.5	314,700			80	
85	67.8	315.0	294,900	70.1	316.6	293,800			85	
90	65.7	312.6	276,500	68.0	314.6	275,400			90	
95	63.6	310.1	260,200	66.0	312.3	259,200	69.5	314.6	257,700	95
100	61.5	307.3	245,700	63.9	309.8	244,800	67.4	312.5	242,100	100
105	59.3	304.3	232,800	61.8	307.0	231,900	65.4	310.1	227,400	105
110	57.1	301.0	221,100	59.6	304.0	220,200	63.3	307.5	214,100	110
115	54.8	297.4	210,500	57.4	300.8	209,700	61.2	304.7	202,000	115
120	52.5	293.5	200,900	55.1	297.2	200,100	59.0	301.6	191,100	120
125	50.0	289.2	192,200	52.8	293.3	189,800	56.7	298.3	181,000	125
130	47.5	284.6	184,100	50.4	289.1	180,200	54.5	294.6	171,800	130
135	44.8	279.5	176,700	47.9	284.6	171,400	52.1	290.7	163,300	135
140	42.1	273.9	168,400	45.2	279.5	163,200	49.6	286.4	155,500	140
145	39.1	267.7	160,600	42.5	274.0	155,600	47.1	281.7	148,200	145
150	35.9	260.8	153,300	39.5	267.9	148,600	44.4	276.5	141,400	150
155	32.5	253.0	146,500	36.4	261.1	142,000	41.6	270.8	135,100	155
160	28.6	243.9	140,200	33.0	253.4	135,800	38.6	264.5	129,200	160
165	24.2	233.1	134,200	29.2	244.6	129,900	35.4	257.5	123,600	165
170	18.7	219.2	128,500	24.9	234.0	124,400	31.9	249.5	118,300	170
175	10.4	197.4	122,900	19.6	220.7	119,200	28.0	240.2	113,400	175
180				12.0	200.9	114,100	23.4	229.0	108,600	180
185							17.7	214.4	104,100	185
190							8.2	189.3	99,600	190
195										195
200										200
205										205
210										210
215										215
220										220
225										225
230										230

# MLC650 S-2

ASME B30.5



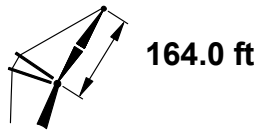
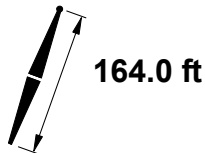
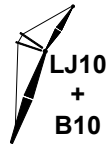
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120	65.0	306.2	176,000							120
125	62.9	303.6	166,600							125
130	60.7	300.7	158,000							130
135	58.5	297.6	150,100							135
140	56.3	294.2	142,800							140
145	54.0	290.5	136,000							145
150	51.6	286.4	129,600	57.9	292.1	118,100				150
155	49.1	282.0	123,700	55.6	288.6	112,600				155
160	46.5	277.2	118,200	53.3	284.8	107,500				160
165	43.8	272.0	113,000	50.9	280.7	102,700				165
170	41.0	266.2	108,200	48.4	276.2	98,100	54.8	281.5	88,400	170
175	38.0	259.7	103,600	45.8	271.2	93,900	52.4	277.6	84,400	175
180	34.7	252.5	99,200	43.1	265.8	89,800	50.0	273.3	80,700	180
185	31.1	244.3	95,100	40.2	259.9	86,000	47.5	268.6	77,200	185
190	27.1	234.6	91,100	37.1	253.2	82,400	44.8	263.6	73,800	190
195	22.3	222.9	87,400	33.7	245.7	79,000	42.0	258.0	70,600	195
200	16.2	207.2	83,700	30.1	237.2	75,700	39.1	251.8	67,600	200
205				25.9	227.1	72,500	35.9	244.8	64,700	205
210				20.8	214.5	69,400	32.4	237.0	61,900	210
215				14.0	196.8	66,400	28.6	227.9	59,300	215
220							24.1	217.0	56,700	220
225							18.6	203.1	54,200	225
230							10.2	181.1	51,600	230

# MLC650 S-2

ASME B30.5



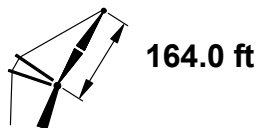
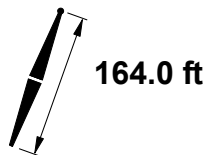
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
70	74.7	331.0	368,000						70	
75	72.9	329.4	339,800						75	
80	71.1	327.6	315,600						80	
85	69.2	325.7	294,600	71.3	327.2	293,500			85	
90	67.3	323.5	276,300	69.4	325.2	275,200			90	
95	65.3	321.1	260,000	67.5	323.1	259,000			95	
100	63.4	318.6	245,600	65.6	320.8	244,600	68.9	323.2	241,200	100
105	61.4	315.8	232,600	63.7	318.2	231,700	67.0	321.0	226,500	105
110	59.3	312.8	221,000	61.7	315.5	220,100	65.0	318.6	213,300	110
115	57.3	309.5	210,400	59.6	312.5	209,600	63.1	316.0	201,300	115
120	55.1	305.9	200,800	57.6	309.2	199,600	61.1	313.2	190,400	120
125	52.9	302.1	192,100	55.4	305.7	189,200	59.0	310.1	180,400	125
130	50.6	297.9	184,000	53.2	301.9	179,700	56.9	306.8	171,200	130
135	48.3	293.4	176,300	51.0	297.8	170,900	54.8	303.2	162,700	135
140	45.8	288.5	168,000	48.6	293.4	162,700	52.6	299.3	154,900	140
145	43.3	283.1	160,200	46.2	288.5	155,200	50.3	295.1	147,700	145
150	40.6	277.3	153,000	43.7	283.2	148,200	47.9	290.5	140,900	150
155	37.7	270.8	146,300	41.0	277.4	141,600	45.4	285.5	134,600	155
160	34.7	263.5	139,900	38.1	271.0	135,400	42.9	280.1	128,700	160
165	31.3	255.4	134,000	35.1	263.9	129,700	40.1	274.1	123,200	165
170	27.6	245.9	128,400	31.8	255.9	124,200	37.3	267.5	118,000	170
175	23.3	234.6	123,100	28.1	246.6	119,100	34.1	260.2	113,100	175
180	17.9	220.1	118,000	23.9	235.6	114,200	30.7	251.8	108,400	180
185	9.7	197.0	113,100	18.8	221.7	109,600	26.9	242.1	104,000	185
190				11.2	200.8	105,000	22.5	230.4	99,800	190
195							16.9	215.1	95,700	195
200							7.3	188.3	91,700	200
205										205
210										210
215										215
220										220
225										225
230										230
235										235
240										240

# MLC650 S-2

ASME B30.5



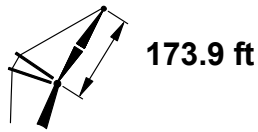
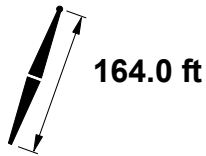
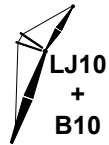
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125	64.6	314.7	165,800							125
130	62.7	312.0	157,200							130
135	60.6	309.2	149,300							135
140	58.6	306.1	142,000							140
145	56.5	302.7	135,300							145
150	54.3	299.0	129,000							150
155	52.1	295.1	123,100	58.0	300.6	111,900				155
160	49.8	290.8	117,600	55.9	297.1	106,800				160
165	47.4	286.1	112,500	53.7	293.4	102,000				165
170	44.9	281.1	107,600	51.5	289.3	97,500				170
175	42.3	275.5	103,100	49.1	284.9	93,300				175
180	39.6	269.4	98,800	46.7	280.2	89,300	52.9	286.2	80,000	180
185	36.6	262.7	94,700	44.2	275.0	85,500	50.6	282.0	76,500	185
190	33.5	255.1	90,800	41.6	269.3	81,900	48.3	277.5	73,200	190
195	30.0	246.5	87,100	38.8	263.0	78,500	45.8	272.6	70,000	195
200	26.1	236.5	83,600	35.8	256.1	75,200	43.2	267.2	67,000	200
205	21.4	224.2	80,200	32.5	248.3	72,100	40.5	261.3	64,200	205
210	15.4	207.8	76,900	28.9	239.3	69,200	37.7	254.8	61,500	210
215				24.9	228.8	66,300	34.6	247.6	58,800	215
220				20.0	215.6	63,500	31.3	239.4	56,300	220
225				13.2	197.1	60,800	27.5	229.9	53,900	225
230							23.2	218.6	51,600	230
235							17.8	204.0	49,200	235
240							9.5	180.7	46,800	240

# MLC650 S-2

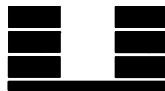
ASME B30.5



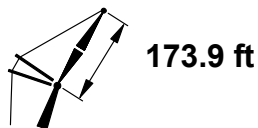
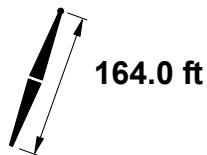
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
75	73.9	339.8	340,000						75	
80	72.2	338.1	315,900						80	
85	70.4	336.3	294,900	72.4	337.6	293,700			85	
90	68.6	334.2	276,500	70.7	335.8	275,400			90	
95	66.8	332.0	260,200	68.9	333.8	259,200			95	
100	65.0	329.7	245,800	67.1	331.6	244,800			100	
105	63.2	327.1	232,800	65.3	329.3	231,900	68.4	331.7	224,300	105
110	61.3	324.3	221,200	63.4	326.7	220,300	66.6	329.5	211,100	110
115	59.4	321.2	210,600	61.5	324.0	209,000	64.7	327.1	199,100	115
120	57.4	318.0	201,000	59.6	321.0	197,700	62.9	324.5	188,200	120
125	55.4	314.5	192,300	57.7	317.7	187,300	61.0	321.6	178,300	125
130	53.3	310.7	183,600	55.7	314.3	177,800	59.0	318.6	169,100	130
135	51.2	306.6	174,600	53.6	310.5	169,000	57.1	315.3	160,700	135
140	49.0	302.2	166,200	51.5	306.5	160,900	55.0	311.7	152,900	140
145	46.7	297.4	158,500	49.3	302.1	153,400	53.0	307.9	145,700	145
150	44.3	292.3	151,300	47.0	297.4	146,400	50.8	303.8	139,000	150
155	41.9	286.6	144,600	44.7	292.3	139,800	48.6	299.3	132,700	155
160	39.3	280.5	138,300	42.2	286.8	133,700	46.3	294.5	126,900	160
165	36.5	273.7	132,400	39.6	280.7	128,000	44.0	289.3	121,400	165
170	33.5	266.2	126,900	36.9	274.0	122,600	41.5	283.5	116,200	170
175	30.2	257.6	121,600	33.9	266.6	117,500	38.8	277.3	111,300	175
180	26.6	247.8	116,700	30.7	258.2	112,700	36.0	270.4	106,700	180
185	22.4	236.0	112,000	27.1	248.6	108,100	33.0	262.7	102,400	185
190	17.1	220.9	107,400	23.0	237.1	103,800	29.7	254.0	98,200	190
195	8.9	196.5	103,000	18.0	222.7	99,600	26.0	243.9	94,300	195
200				10.5	200.6	95,500	21.6	231.8	90,500	200
205							16.1	215.8	86,800	205
210							6.5	187.1	83,100	210
215										215
220										220
225										225
230										230
235										235
240										240
245										245
250										250

# MLC650 S-2

ASME B30.5



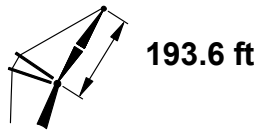
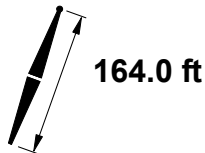
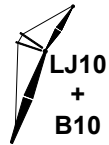
661,300 lb



ft	75°			70°			65°			ft
	ft	lb	lb	ft	lb	lb	ft	lb	lb	
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130	64.3	323.2	154,900							130
135	62.5	320.5	147,100							135
140	60.6	317.6	139,800							140
145	58.6	314.5	133,100							145
150	56.7	311.2	126,900							150
155	54.6	307.6	121,000							155
160	52.5	303.7	115,600	58.1	309.0	104,500				160
165	50.4	299.5	110,500	56.1	305.6	99,800				165
170	48.2	295.0	105,600	54.0	301.9	95,300				170
175	45.9	290.1	101,100	51.9	298.0	91,100				175
180	43.4	284.7	96,800	49.8	293.7	87,100				180
185	40.9	278.9	92,800	47.5	289.1	83,400	53.3	294.8	74,200	185
190	38.3	272.5	89,000	45.2	284.0	79,800	51.2	290.7	70,900	190
195	35.4	265.5	85,300	42.8	278.6	76,500	49.0	286.3	67,800	195
200	32.3	257.6	81,900	40.2	272.6	73,300	46.7	281.5	64,900	200
205	29.0	248.7	78,500	37.5	266.1	70,200	44.3	276.3	62,000	205
210	25.1	238.2	75,400	34.6	258.8	67,300	41.8	270.7	59,400	210
215	20.6	225.5	72,300	31.4	250.7	64,500	39.2	264.5	56,800	215
220	14.7	208.3	69,300	27.9	241.4	61,800	36.4	257.7	54,300	220
225				24.0	230.4	59,200	33.4	250.2	52,000	225
230				19.2	216.7	56,700	30.2	241.6	49,700	230
235				12.6	197.2	54,100	26.5	231.8	47,500	235
240							22.3	220.0	45,300	240
245							17.1	204.8	43,200	245
250							8.8	180.1	41,000	250

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
80	74.1	358.8	314,600						80	
85	72.5	357.2	293,700						85	
90	70.9	355.4	275,300	72.7	356.7	274,300			90	
95	69.3	353.5	259,100	71.1	354.9	258,100			95	
100	67.7	351.4	244,700	69.6	353.0	243,700			100	
105	66.1	349.1	231,800	68.0	351.0	230,900			105	
110	64.5	346.7	220,200	66.3	348.7	218,600	69.1	351.0	208,000	110
115	62.8	344.0	209,600	64.7	346.3	206,200	67.5	348.9	196,100	115
120	61.1	341.2	200,000	63.0	343.7	194,900	65.8	346.6	185,300	120
125	59.4	338.2	190,800	61.3	340.9	184,600	64.2	344.1	175,400	125
130	57.6	335.0	181,100	59.6	337.9	175,200	62.5	341.4	166,300	130
135	55.8	331.5	172,100	57.9	334.7	166,500	60.8	338.6	158,000	135
140	54.0	327.8	163,900	56.1	331.3	158,400	59.1	335.5	150,200	140
145	52.1	323.9	156,200	54.2	327.7	150,900	57.3	332.3	143,100	145
150	50.1	319.7	149,000	52.3	323.7	144,000	55.5	328.8	136,400	150
155	48.1	315.1	142,400	50.4	319.6	137,500	53.7	325.1	130,200	155
160	46.1	310.3	136,200	48.4	315.1	131,400	51.8	321.1	124,400	160
165	43.9	305.0	130,300	46.4	310.3	125,700	49.8	316.8	118,900	165
170	41.7	299.4	124,800	44.2	305.1	120,400	47.8	312.2	113,800	170
175	39.4	293.3	119,700	42.0	299.5	115,400	45.7	307.3	109,000	175
180	36.9	286.6	114,800	39.7	293.4	110,600	43.6	302.0	104,400	180
185	34.3	279.2	110,200	37.3	286.8	106,100	41.3	296.3	100,100	185
190	31.4	271.1	105,800	34.7	279.6	101,900	39.0	290.1	96,100	190
195	28.4	261.9	101,600	31.9	271.6	97,900	36.5	283.3	92,200	195
200	24.9	251.3	97,600	28.8	262.6	94,000	33.8	275.8	88,500	200
205	20.9	238.7	93,800	25.4	252.2	90,300	31.0	267.6	85,000	205
210	15.8	222.3	90,200	21.5	239.9	86,800	27.8	258.2	81,700	210
215	7.6	195.0	86,500	16.6	224.3	83,400	24.3	247.3	78,500	215
220				9.3	200.0	80,000	20.1	234.2	75,400	220
225							14.8	217.0	72,300	225
230							4.8	183.5	69,200	230
235										235
240										240
245										245
250										250
255										255
260										260
265										265
270										270

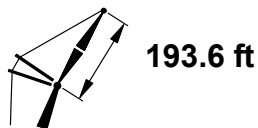
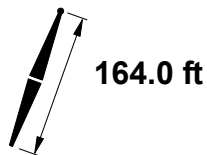


# MLC650 S-2

ASME B30.5



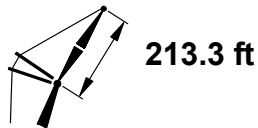
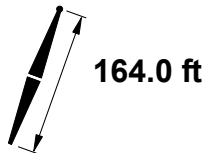
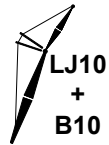
661,300 lb



ft	75°			70°			65°			ft
	ft	lb	ft	ft	lb	ft	ft	lb		
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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215										215
220										220
225										225
230										230
235										235
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# MLC650 S-2

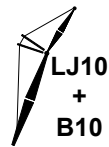
ASME B30.5



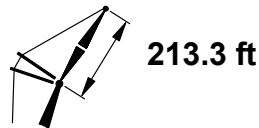
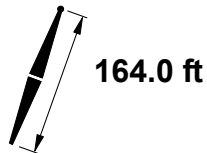
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
85	74.2	377.9	294,800						85	
90	72.8	376.3	276,500						90	
95	71.3	374.5	260,300	73.0	375.8	259,300			95	
100	69.9	372.7	245,900	71.5	374.1	244,300			100	
105	68.5	370.6	233,000	70.1	372.2	229,300			105	
110	67.0	368.5	221,400	68.7	370.2	215,700			110	
115	65.5	366.1	210,300	67.2	368.1	203,400	69.7	370.2	193,100	115
120	64.0	363.6	198,800	65.7	365.8	192,200	68.2	368.1	182,300	120
125	62.5	361.0	188,300	64.2	363.3	181,900	66.8	365.9	172,500	125
130	60.9	358.2	178,600	62.7	360.7	172,500	65.3	363.6	163,500	130
135	59.4	355.2	169,700	61.2	357.9	163,900	63.8	361.1	155,200	135
140	57.8	352.0	161,400	59.6	354.9	155,800	62.2	358.4	147,500	140
145	56.2	348.6	153,800	58.0	351.7	148,400	60.7	355.5	140,400	145
150	54.5	344.9	146,700	56.4	348.3	141,500	59.1	352.5	133,800	150
155	52.8	341.1	140,100	54.7	344.7	135,100	57.5	349.3	127,600	155
160	51.1	337.0	133,900	53.0	340.9	129,000	55.9	345.8	121,800	160
165	49.3	332.7	128,100	51.3	336.9	123,400	54.2	342.2	116,400	165
170	47.5	328.0	122,600	49.5	332.6	118,100	52.5	338.3	111,300	170
175	45.6	323.1	117,500	47.7	328.0	113,100	50.8	334.2	106,500	175
180	43.6	317.8	112,600	45.8	323.1	108,400	49.0	329.8	102,000	180
185	41.6	312.1	108,100	43.9	317.8	103,900	47.2	325.1	97,800	185
190	39.5	306.0	103,700	41.9	312.2	99,700	45.3	320.1	93,700	190
195	37.2	299.4	99,600	39.8	306.2	95,700	43.3	314.8	89,900	195
200	34.9	292.2	95,700	37.6	299.7	91,900	41.3	309.0	86,300	200
205	32.4	284.4	92,000	35.2	292.6	88,300	39.1	302.9	82,800	205
210	29.7	275.7	88,400	32.7	284.8	84,900	36.9	296.2	79,500	210
215	26.7	265.9	85,100	30.1	276.2	81,600	34.5	288.9	76,400	215
220	23.4	254.6	81,800	27.2	266.6	78,400	32.0	280.9	73,400	220
225	19.5	241.0	78,600	23.9	255.6	75,400	29.2	272.0	70,500	225
230	14.6	223.5	75,600	20.1	242.4	72,500	26.2	262.0	67,700	230
235	6.3	192.8	72,500	15.4	225.6	69,600	22.8	250.4	65,000	235
240				8.1	198.8	66,700	18.8	236.4	62,400	240
245							13.7	217.8	59,900	245
250							2.3	175.7	57,100	250
255										255
260										260
265										265
270										270
275										275
280										280
285										285
290										290

# MLC650 S-2

ASME B30.5



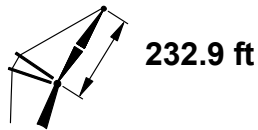
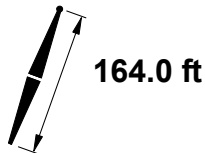
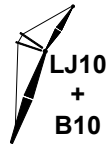
661,300 lb



ft	75°			70°			65°			ft
	ft	lb	ft	ft	lb	ft	ft	lb		
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
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140										140
145	65.0	359.7	127,200							145
150	63.4	357.2	121,000							150
155	61.9	354.4	115,300							155
160	60.4	351.5	109,900							160
165	58.8	348.5	104,900							165
170	57.2	345.2	100,200							170
175	55.5	341.7	95,700	59.9	346.1	85,200				175
180	53.9	338.0	91,500	58.3	343.0	81,300				180
185	52.2	334.1	87,600	56.7	339.7	77,600				185
190	50.4	329.9	83,900	55.1	336.1	74,200				190
195	48.6	325.5	80,300	53.4	332.4	70,900				195
200	46.8	320.7	76,900	51.7	328.4	67,800				200
205	44.9	315.6	73,700	49.9	324.1	64,800	54.5	329.0	56,200	205
210	42.9	310.2	70,700	48.1	319.6	62,000	52.8	325.2	53,600	210
215	40.8	304.4	67,800	46.2	314.8	59,300	51.0	321.1	51,100	215
220	38.7	298.1	65,000	44.3	309.6	56,800	49.3	316.7	48,800	220
225	36.4	291.3	62,300	42.3	304.1	54,300	47.4	312.1	46,500	225
230	34.0	283.9	59,800	40.2	298.1	52,000	45.5	307.1	44,300	230
235	31.4	275.8	57,300	38.0	291.7	49,700	43.6	301.8	42,300	235
240	28.6	266.7	55,000	35.7	284.7	47,500	41.6	296.2	40,300	240
245	25.6	256.4	52,700	33.3	277.1	45,400	39.4	290.1	38,400	245
250	22.1	244.4	50,500	30.7	268.7	43,400	37.2	283.5	36,500	250
255	17.9	229.7	48,300	27.8	259.4	41,500	34.9	276.3	34,700	255
260	12.3	209.5	46,100	24.6	248.7	39,600	32.4	268.4	33,000	260
265				21.0	236.0	37,700	29.6	259.7	31,300	265
270				16.5	220.3	35,900	26.7	249.8	29,700	270
275				10.2	197.0	34,000	23.4	238.5	28,100	275
280							19.5	225.0	26,600	280
285							14.5	207.3	25,000	285
290							6.1	176.1	23,300	290

# MLC650 S-2

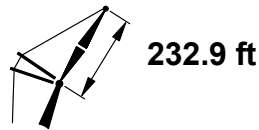
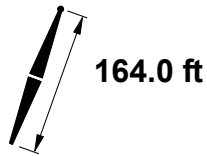
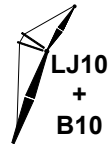
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
90	74.3	396.9	254,700						90	
95	73.0	395.3	253,900						95	
100	71.7	393.6	245,800						100	
105	70.4	391.8	232,900	71.9	393.2	227,000			105	
110	69.0	389.9	220,900	70.5	391.4	213,500			110	
115	67.7	387.8	208,400	69.2	389.4	201,300			115	
120	66.4	385.5	196,900	67.9	387.4	190,200			120	
125	65.0	383.2	186,400	66.6	385.1	180,000	68.8	387.4	170,400	
130	63.6	380.6	176,800	65.2	382.8	170,600	67.5	385.3	161,400	
135	62.2	378.0	167,900	63.8	380.3	162,000	66.1	383.0	153,100	
140	60.8	375.1	159,700	62.4	377.6	154,000	64.8	380.6	145,500	
145	59.4	372.1	152,100	61.0	374.8	146,600	63.4	378.1	138,400	
150	57.9	368.9	145,000	59.6	371.8	139,700	62.0	375.4	131,800	
155	56.4	365.6	138,400	58.1	368.7	133,300	60.6	372.5	125,700	
160	54.9	362.0	132,300	56.7	365.3	127,300	59.2	369.5	120,000	
165	53.4	358.3	126,500	55.1	361.8	121,700	57.7	366.3	114,600	
170	51.8	354.3	121,100	53.6	358.1	116,400	56.2	362.9	109,500	
175	50.2	350.1	116,000	52.0	354.1	111,500	54.7	359.3	104,800	
180	48.6	345.6	111,100	50.4	350.0	106,800	53.1	355.5	100,300	
185	46.9	340.9	106,600	48.8	345.6	102,400	51.6	351.5	96,100	
190	45.1	335.9	102,300	47.1	340.9	98,200	50.0	347.2	92,100	
195	43.3	330.6	98,200	45.4	335.9	94,200	48.3	342.7	88,300	
200	41.5	324.9	94,300	43.6	330.6	90,500	46.6	338.0	84,700	
205	39.5	318.8	90,700	41.7	325.0	86,900	44.9	332.9	81,200	
210	37.5	312.3	87,200	39.8	319.0	83,500	43.0	327.5	78,000	
215	35.4	305.2	83,800	37.8	312.5	80,200	41.2	321.8	74,900	
220	33.1	297.6	80,600	35.7	305.5	77,100	39.2	315.6	71,900	
225	30.8	289.2	77,500	33.5	298.0	74,200	37.2	309.0	69,100	
230	28.2	279.9	74,600	31.1	289.7	71,300	35.0	301.9	66,400	
235	25.3	269.5	71,800	28.5	280.6	68,600	32.8	294.1	63,700	
240	22.1	257.5	69,100	25.7	270.3	65,900	30.4	285.6	61,200	
245	18.4	243.1	66,400	22.6	258.6	63,400	27.7	276.2	58,800	
250	13.6	224.3	63,800	18.9	244.6	60,900	24.8	265.6	56,500	
255	4.9	189.4	61,100	14.4	226.7	58,500	21.6	253.3	54,200	
260				7.0	197.0	56,000	17.7	238.3	52,000	
265							12.6	218.4	49,800	
270									270	
275									275	
280									280	
285									285	
290									290	
295									295	
300									300	

# MLC650 S-2

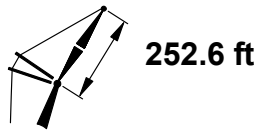
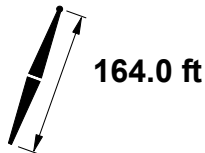
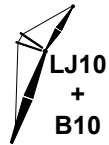
ASME B30.5



ft	75°			70°			65°			ft
	ft	lb	ft	ft	lb	ft	ft	lb		
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155	64.5	376.7	113,200							155
160	63.1	374.1	107,800							160
165	61.7	371.4	102,900							165
170	60.3	368.5	98,200							170
175	58.8	365.4	93,800							175
180	57.4	362.2	89,600							180
185	55.9	358.8	85,700	59.9	363.1	75,500				185
190	54.4	355.1	82,000	58.4	360.0	72,100				190
195	52.8	351.3	78,500	57.0	356.7	68,900				195
200	51.2	347.2	75,100	55.5	353.2	65,800				200
205	49.6	342.9	72,000	53.9	349.5	62,900				205
210	48.0	338.4	68,900	52.4	345.6	60,100				210
215	46.2	333.6	66,100	50.8	341.5	57,400	54.9	346.1	49,000	215
220	44.5	328.4	63,300	49.2	337.1	54,900	53.4	342.3	46,700	220
225	42.7	323.0	60,700	47.5	332.5	52,500	51.8	338.4	44,500	225
230	40.8	317.1	58,200	45.8	327.6	50,100	50.2	334.2	42,300	230
235	38.8	310.9	55,800	44.0	322.4	47,900	48.5	329.7	40,300	235
240	36.8	304.2	53,400	42.1	316.8	45,800	46.9	325.0	38,300	240
245	34.6	296.9	51,200	40.2	310.9	43,700	45.1	319.9	36,500	245
250	32.3	289.0	49,100	38.2	304.5	41,800	43.3	314.6	34,700	250
255	29.8	280.4	47,000	36.2	297.6	39,900	41.5	308.9	32,900	255
260	27.1	270.7	45,000	34.0	290.2	38,000	39.5	302.8	31,200	260
265	24.2	259.8	43,100	31.6	282.1	36,300	37.5	296.3	29,600	265
270	20.8	247.0	41,200	29.1	273.2	34,600	35.4	289.2	28,000	270
275	16.8	231.4	39,300	26.4	263.2	32,900	33.1	281.6	26,500	275
280	11.3	209.6	37,400	23.3	251.9	31,300	30.7	273.2	25,100	280
285				19.8	238.5	29,700	28.1	263.9	23,600	285
290				15.5	221.6	28,100	25.3	253.5	22,200	290
295				9.1	196.4	26,400	22.1	241.5	20,900	295
300							18.3	227.0	19,500	300

# MLC650 S-2

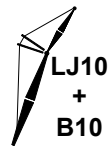
ASME B30.5



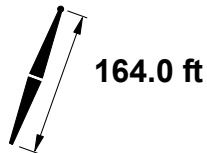
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
95	74.3	416.0	218,500						95	
100	73.2	414.4	217,700						100	
105	72.0	412.7	216,800						105	
110	70.8	411.0	215,900	72.1	412.3	210,400			110	
115	69.5	409.0	205,400	70.9	410.5	198,200			115	
120	68.3	407.0	194,000	69.7	408.6	187,100			120	
125	67.1	404.9	183,500	68.5	406.6	177,000			125	
130	65.8	402.6	173,900	67.3	404.5	167,600	69.3	406.6	158,300	
135	64.6	400.2	165,100	66.0	402.2	159,100	68.1	404.5	150,100	
140	63.3	397.6	156,900	64.8	399.8	151,100	66.9	402.4	142,500	
145	62.0	394.9	149,400	63.5	397.3	143,800	65.6	400.1	135,400	
150	60.7	392.1	142,300	62.2	394.6	136,900	64.4	397.6	128,900	
155	59.4	389.1	135,800	60.9	391.8	130,600	63.1	395.0	122,800	
160	58.0	385.9	129,600	59.6	388.8	124,600	61.8	392.3	117,100	
165	56.7	382.6	123,900	58.2	385.7	119,000	60.5	389.4	111,700	
170	55.3	379.1	118,500	56.9	382.3	113,800	59.2	386.4	106,700	
175	53.9	375.4	113,400	55.5	378.9	108,800	57.8	383.2	102,000	
180	52.5	371.5	108,600	54.1	375.2	104,200	56.5	379.9	97,500	
185	51.0	367.4	104,100	52.7	371.4	99,800	55.1	376.4	93,300	
190	49.5	363.1	99,800	51.2	367.3	95,600	53.7	372.6	89,400	
195	48.0	358.6	95,800	49.7	363.0	91,700	52.2	368.7	85,600	
200	46.4	353.8	91,900	48.2	358.5	87,900	50.8	364.6	82,000	
205	44.8	348.7	88,300	46.6	353.7	84,400	49.3	360.2	78,600	
210	43.1	343.3	84,800	45.0	348.7	81,000	47.7	355.7	75,400	
215	41.4	337.6	81,500	43.3	343.4	77,800	46.1	350.8	72,300	
220	39.6	331.5	78,300	41.6	337.7	74,700	44.5	345.7	69,400	
225	37.8	325.1	75,300	39.9	331.7	71,800	42.8	340.3	66,600	
230	35.8	318.1	72,400	38.0	325.3	69,000	41.1	334.5	63,900	
235	33.8	310.7	69,600	36.1	318.4	66,300	39.3	328.4	61,300	
240	31.6	302.6	66,900	34.1	311.0	63,700	37.4	321.8	58,800	
245	29.3	293.7	64,400	31.9	303.0	61,200	35.5	314.8	56,400	
250	26.8	283.9	61,900	29.6	294.3	58,800	33.4	307.3	54,200	
255	24.1	272.9	59,500	27.2	284.6	56,500	31.3	299.0	52,000	
260	21.0	260.2	57,200	24.5	273.8	54,200	28.9	290.1	49,800	
265	17.3	245.0	54,900	21.4	261.4	52,100	26.4	280.1	47,800	
270	12.7	224.9	52,700	17.9	246.6	50,000	23.6	268.9	45,800	
275	3.3	183.9	50,300	13.4	227.5	47,900	20.4	255.8	43,800	
280				5.9	194.5	45,700	16.7	240.0	41,900	
285							11.7	218.7	40,000	
290									290	
295									295	
300									300	
310									310	

# MLC650 S-2

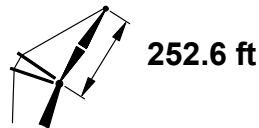
ASME B30.5



661,300 lb



164.0 ft

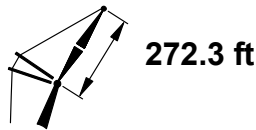
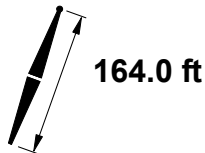
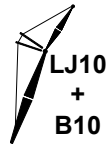


252.6 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	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	64.1	393.7	99,800							165
170	62.8	391.1	95,100							170
175	61.5	388.4	90,700							175
180	60.2	385.5	86,600							180
185	58.9	382.4	82,700							185
190	57.5	379.2	79,100							190
195	56.2	375.8	75,600	59.9	380.0	65,800				195
200	54.8	372.2	72,300	58.5	376.9	62,700				200
205	53.4	368.5	69,100	57.2	373.7	59,800				205
210	51.9	364.5	66,100	55.8	370.2	57,100				210
215	50.4	360.3	63,300	54.4	366.6	54,400				215
220	48.9	355.9	60,600	53.0	362.8	51,900				220
225	47.4	351.3	58,000	51.5	358.8	49,500				225
230	45.8	346.4	55,500	50.0	354.5	47,200	53.9	359.5	39,300	230
235	44.2	341.2	53,100	48.5	350.1	45,100	52.4	355.6	37,300	235
240	42.5	335.7	50,800	47.0	345.4	43,000	51.0	351.5	35,300	240
245	40.7	329.9	48,600	45.4	340.4	40,900	49.5	347.2	33,500	245
250	38.9	323.7	46,500	43.7	335.1	39,000	47.9	342.6	31,700	250
255	37.0	317.0	44,500	42.0	329.6	37,100	46.4	337.8	30,000	255
260	35.1	309.9	42,500	40.2	323.6	35,300	44.8	332.7	28,300	260
265	33.0	302.2	40,600	38.4	317.3	33,600	43.1	327.4	26,800	265
270	30.8	293.9	38,800	36.5	310.5	31,900	41.4	321.7	25,200	270
275	28.4	284.7	37,000	34.5	303.2	30,300	39.6	315.6	23,700	275
280	25.8	274.5	35,300	32.4	295.4	28,700	37.7	309.1	22,300	280
285	23.0	262.9	33,700	30.1	286.8	27,200	35.8	302.2	20,900	285
290	19.7	249.4	32,000	27.7	277.4	25,700	33.7	294.7	19,400	290
295	15.8	232.8	30,400	25.1	266.8	24,300				295
300	10.4	209.4	28,800	22.1	254.8	22,900				300
310				14.5	222.7	20,100				310

# MLC650 S-2

ASME B30.5

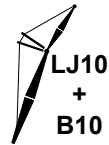


	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
100	74.4	435.0	186,900						100	
105	73.3	433.5	186,200						105	
110	72.2	431.8	185,400						110	
115	71.1	430.1	184,600	72.4	431.4	183,500			115	
120	70.0	428.2	183,700	71.2	429.6	183,000			120	
125	68.8	426.2	181,500	70.1	427.8	174,800			125	
130	67.7	424.2	172,000	69.0	425.8	165,600			130	
135	66.5	422.0	163,200	67.9	423.7	157,100	69.8	425.8	147,900	
140	65.4	419.6	155,100	66.7	421.6	149,200	68.7	423.8	140,300	
145	64.2	417.2	147,500	65.6	419.2	141,800	67.5	421.7	133,400	
150	63.0	414.6	140,500	64.4	416.8	135,000	66.4	419.4	126,800	
155	61.8	411.9	134,000	63.2	414.2	128,700	65.2	417.1	120,800	
160	60.6	409.0	127,900	62.0	411.6	122,800	64.0	414.6	115,100	
165	59.4	406.0	122,200	60.8	408.7	117,200	62.8	412.0	109,800	
170	58.2	402.9	116,800	59.6	405.7	112,000	61.6	409.3	104,800	
175	56.9	399.6	111,800	58.3	402.6	107,100	60.4	406.4	100,100	
180	55.6	396.1	107,000	57.1	399.3	102,500	59.2	403.4	95,700	
185	54.3	392.5	102,500	55.8	395.9	98,100	58.0	400.2	91,500	
190	53.0	388.7	98,200	54.5	392.3	94,000	56.7	396.9	87,600	
195	51.6	384.7	94,200	53.2	388.5	90,000	55.4	393.4	83,800	
200	50.3	380.5	90,400	51.8	384.6	86,300	54.1	389.7	80,300	
205	48.9	376.1	86,800	50.5	380.4	82,800	52.8	385.9	76,900	
210	47.4	371.5	83,300	49.1	376.0	79,500	51.4	381.9	73,700	
215	46.0	366.6	80,000	47.6	371.4	76,300	50.1	377.7	70,700	
220	44.5	361.5	76,900	46.2	366.6	73,200	48.6	373.2	67,700	
225	42.9	356.1	73,900	44.7	361.5	70,300	47.2	368.6	65,000	
230	41.3	350.4	71,000	43.1	356.1	67,500	45.7	363.7	62,300	
235	39.7	344.3	68,200	41.5	350.5	64,800	44.2	358.5	59,700	
240	38.0	337.9	65,600	39.9	344.5	62,300	42.7	353.0	57,300	
245	36.2	331.0	63,100	38.2	338.1	59,800	41.1	347.3	54,900	
250	34.3	323.7	60,600	36.4	331.3	57,500	39.4	341.1	52,700	
255	32.3	315.8	58,300	34.6	324.0	55,200	37.7	334.7	50,500	
260	30.3	307.3	56,000	32.6	316.2	53,000	35.9	327.7	48,400	
265	28.0	297.9	53,900	30.6	307.8	50,900	34.0	320.3	46,400	
270	25.6	287.6	51,800	28.4	298.6	48,800	32.0	312.3	44,500	
275	23.0	276.1	49,700	26.0	288.4	46,900	29.9	303.7	42,600	
280	20.0	262.7	47,700	23.4	277.1	45,000	27.7	294.2	40,800	
285	16.4	246.6	45,800	20.4	264.0	43,100	25.2	283.7	39,000	
290	11.8	225.2	43,900	17.0	248.4	41,300	22.5	271.9	37,300	
295				12.6	228.1	39,400	19.4	258.2	35,600	
300				4.7	191.0	37,500	15.8	241.5	34,000	
310									310	
320									320	



# MLC650 S-2

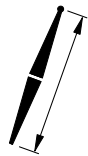
ASME B30.5



661,300 lb



360°



164.0 ft

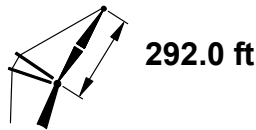
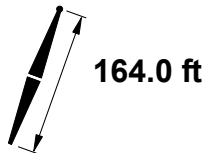
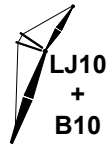


272.3 ft

	75°			70°			65°			
	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	65.0	413.2	93,000							170
175	63.8	410.7	88,700							175
180	62.6	408.1	84,600							180
185	61.4	405.3	80,700							185
190	60.2	402.4	77,100							190
195	58.9	399.4	73,600							195
200	57.7	396.2	70,300							200
205	56.4	392.8	67,200	59.8	397.0	57,700				205
210	55.1	389.3	64,300	58.6	393.9	55,000				210
215	53.8	385.6	61,400	57.3	390.7	52,400				215
220	52.5	381.7	58,700	56.1	387.3	49,900				220
225	51.1	377.6	56,200	54.8	383.7	47,600				225
230	49.8	373.4	53,700	53.5	379.9	45,300				230
235	48.3	368.9	51,400	52.1	376.0	43,100				235
240	46.9	364.2	49,100	50.8	371.9	41,100	54.3	376.6	33,300	240
245	45.4	359.2	46,900	49.4	367.6	39,100	53.0	372.8	31,500	245
250	43.9	354.0	44,800	47.9	363.0	37,200	51.6	368.8	29,700	250
255	42.3	348.5	42,800	46.5	358.2	35,300	50.3	364.6	28,000	255
260	40.7	342.6	40,900	45.0	353.2	33,600	48.9	360.2	26,400	260
265	39.0	336.4	39,100	43.5	347.9	31,900	47.4	355.5	24,800	265
270	37.3	329.9	37,300	41.9	342.3	30,200	45.9	350.7	23,300	270
275	35.5	322.8	35,500	40.3	336.4	28,600	44.4	345.5	21,900	275
280	33.6	315.3	33,900	38.6	330.1	27,100	42.9	340.1	20,300	280
285	31.6	307.2	32,300	36.8	323.4	25,600	41.3	334.4	18,600	285
290	29.5	298.4	30,700	35.0	316.2	24,200				290
295	27.2	288.7	29,200	33.0	308.5	22,800				295
300	24.7	278.0	27,700	31.0	300.3	21,400				300
310	18.7	251.6	24,800	26.5	281.3	18,800				310
320	9.5	209.0	21,900							320

# MLC650 S-2

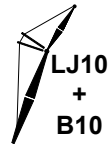
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
105	74.5	454.1	159,600						105	
110	73.4	452.5	158,900						110	
115	72.4	450.9	158,100						115	
120	71.4	449.2	157,300	72.6	450.4	156,300			120	
125	70.3	447.4	156,400	71.5	448.7	155,700			125	
130	69.3	445.4	155,500	70.5	446.9	155,100			130	
135	68.2	443.4	154,500	69.4	445.0	153,900			135	
140	67.2	441.3	152,000	68.4	443.0	146,000			140	
145	66.1	439.0	144,500	67.3	440.9	138,700	69.1	443.0	130,100	
150	65.0	436.7	137,600	66.2	438.6	132,000	68.1	440.9	123,600	
155	63.9	434.2	131,100	65.1	436.3	125,700	67.0	438.8	117,600	
160	62.8	431.6	125,000	64.1	433.8	119,700	65.9	436.5	112,000	
165	61.7	428.8	119,300	62.9	431.2	114,200	64.8	434.1	106,700	
170	60.5	426.0	113,900	61.8	428.5	109,000	63.7	431.6	101,700	
175	59.4	423.0	108,900	60.7	425.7	104,100	62.6	429.0	97,100	
180	58.2	419.9	104,100	59.6	422.7	99,500	61.5	426.2	92,700	
185	57.1	416.6	99,700	58.4	419.6	95,200	60.4	423.4	88,500	
190	55.9	413.2	95,400	57.2	416.3	91,100	59.2	420.3	84,600	
195	54.7	409.6	91,400	56.1	412.9	87,200	58.1	417.2	80,900	
200	53.5	405.8	87,600	54.8	409.4	83,500	56.9	413.9	77,300	
205	52.2	401.9	84,000	53.6	405.7	80,000	55.7	410.4	74,000	
210	50.9	397.8	80,500	52.4	401.8	76,600	54.5	406.8	70,800	
215	49.6	393.5	77,300	51.1	397.7	73,400	53.3	403.1	67,700	
220	48.3	389.1	74,100	49.8	393.4	70,400	52.0	399.1	64,800	
225	47.0	384.4	71,100	48.5	389.0	67,500	50.7	395.0	62,100	
230	45.6	379.4	68,300	47.2	384.3	64,700	49.4	390.7	59,400	
235	44.2	374.3	65,600	45.8	379.4	62,100	48.1	386.2	56,900	
240	42.7	368.8	62,900	44.4	374.3	59,500	46.8	381.4	54,500	
245	41.3	363.1	60,400	42.9	368.9	57,100	45.4	376.5	52,100	
250	39.7	357.1	58,000	41.5	363.2	54,800	44.0	371.3	49,900	
255	38.1	350.7	55,700	39.9	357.2	52,500	42.5	365.8	47,700	
260	36.5	343.9	53,500	38.3	350.9	50,300	41.0	360.0	45,700	
265	34.7	336.7	51,300	36.7	344.2	48,200	39.5	353.9	43,700	
270	32.9	329.0	49,200	35.0	337.0	46,200	37.9	347.5	41,800	
275	31.0	320.7	47,200	33.2	329.4	44,300	36.2	340.6	39,900	
280	29.0	311.7	45,300	31.3	321.2	42,400	34.5	333.3	38,100	
285	26.9	301.9	43,400	29.3	312.3	40,600	32.6	325.5	36,400	
290	24.5	291.1	41,600	27.2	302.7	38,800	30.7	317.2	34,700	
295	22.0	279.0	39,800	24.9	292.0	37,100	28.7	308.1	33,100	
300	19.0	265.0	38,100	22.3	280.1	35,500	26.5	298.1	31,500	
310	11.0	225.3	34,700	16.1	250.0	32,200	21.5	274.8	28,500	
320				3.3	185.7	28,900	14.9	242.8	25,500	

# MLC650 S-2

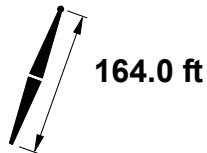
ASME B30.5



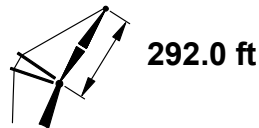
661,300 lb



360°



164.0 ft

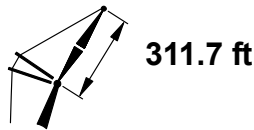
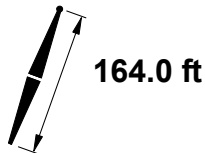
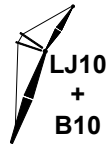


292.0 ft

	75°			70°			65°			
	ft	ft	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	64.6	430.2	81,300						180	
185	63.5	427.7	77,500						185	
190	62.4	425.0	73,900						190	
195	61.3	422.3	70,500						195	
200	60.1	419.4	67,200						200	
205	59.0	416.3	64,100						205	
210	57.8	413.1	61,200						210	
215	56.6	409.8	58,400	59.8	413.9	49,200			215	
220	55.4	406.3	55,700	58.7	410.9	46,700			220	
225	54.2	402.7	53,100	57.5	407.6	44,400			225	
230	53.0	398.9	50,700	56.3	404.3	42,100			230	
235	51.7	394.9	48,300	55.1	400.7	40,000			235	
240	50.5	390.7	46,100	53.9	397.1	37,900			240	
245	49.2	386.4	44,000	52.6	393.2	36,000			245	
250	47.8	381.8	41,900	51.4	389.2	34,100	54.7	393.7	26,500	250
255	46.5	377.0	39,900	50.1	385.0	32,200	53.4	389.9	24,800	255
260	45.1	372.0	38,000	48.8	380.6	30,500	52.2	386.0	23,100	260
265	43.7	366.8	36,200	47.5	375.9	28,800	50.9	381.9	21,200	265
270	42.2	361.2	34,400	46.1	371.1	27,200	49.6	377.6	19,400	270
275	40.7	355.4	32,700	44.7	366.0	25,600				275
280	39.1	349.2	31,000	43.3	360.7	24,100				280
285	37.5	342.7	29,500	41.8	355.0	22,600				285
290	35.8	335.8	27,900	40.3	349.1	21,200				290
295	34.1	328.4	26,400	38.7	342.9	19,800				295
300	32.3	320.5	25,000	37.1	336.2	18,200				300
310	28.3	302.7	22,200							310
320	23.6	281.3	19,600							320

# MLC650 S-2

ASME B30.5



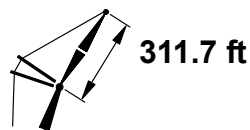
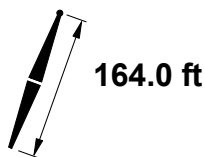
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
110	74.5	473.1	137,500						110	
115	73.6	471.6	136,800						115	
120	72.6	470.0	136,100						120	
125	71.6	468.3	135,300	72.7	469.5	134,400			125	
130	70.7	466.5	134,500	71.8	467.8	133,900			130	
135	69.7	464.6	133,600	70.8	466.1	133,300			135	
140	68.7	462.6	132,800	69.8	464.2	132,600			140	
145	67.7	460.6	131,900	68.8	462.2	132,000			145	
150	66.7	458.4	131,000	67.8	460.1	130,100	69.5	462.2	121,700	150
155	65.7	456.1	129,300	66.8	458.0	123,800	68.5	460.2	115,600	155
160	64.7	453.7	123,300	65.8	455.7	117,900	67.5	458.1	110,000	160
165	63.6	451.2	117,600	64.8	453.3	112,400	66.5	455.9	104,800	165
170	62.6	448.5	112,200	63.8	450.8	107,300	65.5	453.6	99,800	170
175	61.5	445.8	107,200	62.7	448.2	102,400	64.5	451.1	95,200	175
180	60.5	442.9	102,500	61.7	445.5	97,800	63.5	448.6	90,800	180
185	59.4	439.9	98,000	60.6	442.6	93,500	62.4	446.0	86,700	185
190	58.3	436.8	93,800	59.6	439.7	89,400	61.4	443.2	82,800	190
195	57.2	433.6	89,800	58.5	436.6	85,500	60.3	440.3	79,100	195
200	56.1	430.2	86,000	57.4	433.3	81,800	59.2	437.3	75,600	200
205	55.0	426.6	82,400	56.3	429.9	78,300	58.1	434.2	72,200	205
210	53.8	423.0	79,000	55.1	426.4	75,000	57.1	430.9	69,100	210
215	52.7	419.1	75,700	54.0	422.8	71,800	55.9	427.5	66,000	215
220	51.5	415.1	72,600	52.9	418.9	68,800	54.8	423.9	63,200	220
225	50.3	410.9	69,600	51.7	415.0	65,900	53.7	420.2	60,400	225
230	49.1	406.6	66,800	50.5	410.8	63,200	52.5	416.3	57,800	230
235	47.8	402.0	64,100	49.3	406.5	60,500	51.3	412.3	55,200	235
240	46.6	397.2	61,500	48.0	401.9	58,000	50.1	408.1	52,800	240
245	45.3	392.3	59,000	46.8	397.2	55,600	48.9	403.7	50,500	245
250	44.0	387.0	56,600	45.5	392.3	53,300	47.6	399.1	48,300	250
255	42.6	381.6	54,300	44.1	387.1	51,000	46.4	394.3	46,200	255
260	41.2	375.8	52,100	42.8	381.6	48,900	45.1	389.3	44,100	260
265	39.8	369.8	49,900	41.4	376.0	46,800	43.7	384.0	42,100	265
270	38.3	363.5	47,900	40.0	370.0	44,800	42.4	378.5	40,200	270
275	36.7	356.7	45,900	38.5	363.7	42,900	41.0	372.7	38,400	275
280	35.1	349.6	44,000	36.9	357.0	41,000	39.5	366.7	36,600	280
285	33.5	342.1	42,100	35.4	349.9	39,200	38.0	360.3	34,900	285
290	31.7	334.0	40,300	33.7	342.4	37,500	36.5	353.5	33,300	290
295	29.9	325.3	38,600	32.0	334.5	35,800	34.9	346.3	31,700	295
300	27.9	316.0	36,900	30.1	325.9	34,200	33.2	338.7	30,100	300
310	23.6	294.4	33,700	26.1	306.5	31,100	29.6	321.7	27,100	310
320	18.2	267.1	30,600	21.4	282.9	28,100	25.5	301.9	24,300	320
330	10.3	225.2	27,600	15.3	251.3	25,300	20.6	277.4	21,700	330
340							14.2	243.8	19,100	340

# MLC650 S-2

ASME B30.5



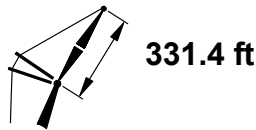
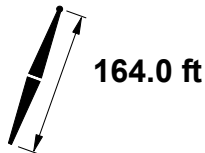
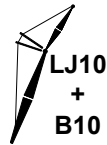
661,300 lb



	75°			70°			
	ft	ft	lb	ft	ft	lb	
110							110
115							115
120							120
125							125
130							130
135							135
140							140
145							145
150							150
155							155
160							160
165							165
170							170
175							175
180							180
185							185
190	64.3	447.2	71,900				190
195	63.2	444.7	68,500				195
200	62.2	442.0	65,300				200
205	61.1	439.2	62,200				205
210	60.1	436.3	59,300				210
215	59.0	433.3	56,500				215
220	57.9	430.1	53,800				220
225	56.8	426.8	51,300	59.8	430.9	42,400	225
230	55.7	423.4	48,900	58.7	427.8	40,200	230
235	54.6	419.8	46,500	57.6	424.6	38,000	235
240	53.4	416.0	44,300	56.5	421.3	36,000	240
245	52.3	412.1	42,200	55.4	417.8	34,000	245
250	51.1	408.1	40,100	54.3	414.2	32,200	250
255	49.9	403.8	38,200	53.1	410.4	30,400	255
260	48.6	399.4	36,300	51.9	406.4	28,600	260
265	47.4	394.7	34,500	50.7	402.3	27,000	265
270	46.1	389.9	32,700	49.5	398.0	25,400	270
275	44.8	384.8	31,000	48.3	393.5	23,800	275
280	43.5	379.5	29,400	47.0	388.8	22,300	280
285	42.1	374.0	27,800	45.7	383.9	20,800	285
290	40.7	368.1	26,300	44.4	378.8	19,100	290
295	39.2	362.0	24,800				295
300	37.7	355.5	23,400				300
310	34.5	341.4	20,700				310
320	31.1	325.3	18,100				320
330							330
340							340

# MLC650 S-2

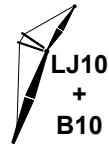
ASME B30.5



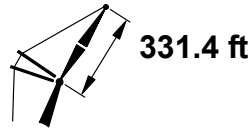
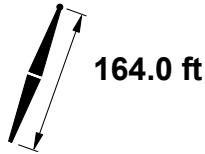
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
115	74.6	492.1	117,800						115	
120	73.7	490.7	117,000						120	
125	72.8	489.1	116,200						125	
130	71.8	487.4	115,500	72.9	488.6	114,800			130	
135	70.9	485.6	114,700	72.0	486.9	114,200			135	
140	70.0	483.8	114,000	71.1	485.2	113,600			140	
145	69.1	481.8	113,200	70.1	483.3	113,000			145	
150	68.2	479.8	112,400	69.2	481.4	112,400			150	
155	67.2	477.7	111,600	68.3	479.4	111,800	69.9	481.3	109,400	155
160	66.3	475.5	110,800	67.3	477.3	111,100	68.9	479.4	107,000	160
165	65.3	473.1	109,900	66.4	475.1	109,500	68.0	477.3	101,800	165
170	64.3	470.7	109,100	65.4	472.7	104,400	67.1	475.2	96,800	170
175	63.4	468.2	104,500	64.5	470.3	99,500	66.1	472.9	92,200	175
180	62.4	465.5	99,700	63.5	467.8	95,000	65.2	470.6	87,900	180
185	61.4	462.8	95,300	62.5	465.2	90,700	64.2	468.1	83,800	185
190	60.4	459.9	91,100	61.6	462.4	86,600	63.2	465.6	79,900	190
195	59.4	456.9	87,100	60.6	459.6	82,700	62.2	462.9	76,200	195
200	58.4	453.8	83,300	59.6	456.6	79,100	61.3	460.1	72,700	200
205	57.4	450.6	79,700	58.5	453.5	75,600	60.3	457.3	69,400	205
210	56.3	447.2	76,300	57.5	450.3	72,300	59.2	454.3	66,200	210
215	55.3	443.7	73,100	56.5	447.0	69,100	58.2	451.1	63,200	215
220	54.2	440.1	70,000	55.4	443.5	66,100	57.2	447.9	60,300	220
225	53.1	436.3	67,000	54.3	439.9	63,200	56.2	444.5	57,600	225
230	52.0	432.3	64,200	53.3	436.1	60,500	55.1	441.0	55,000	230
235	50.9	428.2	61,400	52.2	432.2	57,800	54.0	437.3	52,500	235
240	49.8	424.0	58,900	51.1	428.1	55,300	52.9	433.5	50,100	240
245	48.6	419.5	56,400	49.9	423.9	52,900	51.8	429.5	47,800	245
250	47.4	414.9	54,000	48.8	419.5	50,600	50.7	425.4	45,500	250
255	46.2	410.1	51,700	47.6	414.9	48,400	49.6	421.1	43,400	255
260	45.0	405.1	49,500	46.4	410.1	46,200	48.4	416.7	41,400	260
265	43.7	399.8	47,400	45.2	405.1	44,200	47.2	412.0	39,400	265
270	42.5	394.3	45,300	43.9	399.9	42,200	46.0	407.2	37,500	270
275	41.1	388.6	43,300	42.6	394.4	40,300	44.8	402.1	35,700	275
280	39.8	382.6	41,400	41.3	388.7	38,400	43.5	396.8	34,000	280
285	38.4	376.2	39,600	40.0	382.7	36,600	42.3	391.3	32,300	285
290	37.0	369.6	37,800	38.6	376.4	34,900	40.9	385.5	30,600	290
295	35.5	362.6	36,100	37.2	369.8	33,300	39.6	379.4	29,000	295
300	33.9	355.1	34,400	35.7	362.9	31,600	38.2	373.0	27,500	300
310	30.6	338.8	31,300	32.5	347.7	28,600	35.2	359.2	24,600	310
320	26.9	320.0	28,300	29.1	330.4	25,700	32.0	343.8	21,800	320
330	22.7	297.6	25,400	25.2	310.2	22,900	28.5	326.1	19,200	330
340	17.4	269.0	22,700	20.6	285.6	20,300				340
350	9.6	224.8	20,000							350

# MLC650 S-2

ASME B30.5



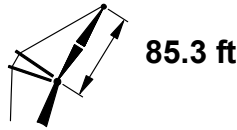
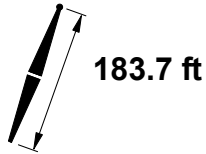
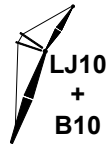
661,300 lb



	75°			70°			
	ft	ft	lb	ft	ft	lb	
115							115
120							120
125							125
130							130
135							135
140							140
145							145
150							150
155							155
160							160
165							165
170							170
175							175
180							180
185							185
190							190
195	65.0	466.7	65,400				195
200	64.0	464.2	62,200				200
205	63.0	461.7	59,100				205
210	62.0	459.0	56,200				210
215	61.0	456.2	53,500				215
220	60.0	453.3	50,800				220
225	59.0	450.2	48,300				225
230	58.0	447.1	45,900				230
235	57.0	443.8	43,600	59.8	447.8	34,900	235
240	55.9	440.4	41,400	58.8	444.8	32,900	240
245	54.9	436.8	39,300	57.7	441.6	31,000	245
250	53.8	433.1	37,200	56.7	438.3	29,100	250
255	52.7	429.3	35,300	55.6	434.8	27,300	255
260	51.6	425.3	33,400	54.6	431.2	25,600	260
265	50.5	421.2	31,600	53.5	427.5	24,000	265
270	49.3	416.8	29,900	52.4	423.6	22,200	270
275	48.2	412.3	28,200	51.3	419.6	20,300	275
280	47.0	407.6	26,600	50.2	415.4	18,500	280
285	45.8	402.7	25,000				285
290	44.5	397.6	23,500				290
295	43.3	392.3	22,000				295
300	42.0	386.7	20,600				300
310							310
320							320
330							330
340							340
350							350

# MLC650 S-2

ASME B30.5

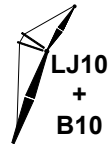


	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	71.9	273.2	493,500 d						55	
60	68.2	271.1	444,400 c	72.9	273.0	442,500 d			60	
65	64.5	268.6	403,900 c	69.3	270.9	402,100 c			65	
70	60.6	265.7	370,100 b	65.5	268.5	368,500 c			70	
75	56.5	262.2	341,600 b	61.7	265.7	340,100 b	68.9	269.1	337,900 c	75
80	52.2	258.2	317,200	57.7	262.4	315,700 b	65.2	266.7	313,700 b	80
85	47.6	253.6	296,000	53.5	258.6	294,600	61.3	263.8	292,700 b	85
90	42.6	248.0	277,500	49.0	254.2	276,100	57.3	260.5	274,300 b	90
95	37.1	241.4	261,200	44.1	248.9	259,900	53.0	256.6	258,100	95
100	30.5	233.0	246,700	38.7	242.6	245,400	48.5	252.1	243,700	100
105	22.0	221.4	233,800	32.4	234.8	232,500	43.6	246.7	230,900	105
110				24.7	224.3	221,000	38.1	240.3	219,300	110
115				12.0	206.1	210,700	31.8	232.3	208,000	115
120							23.8	221.5	196,600	120
125							9.6	201.0	185,700	125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170

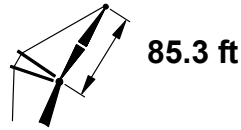
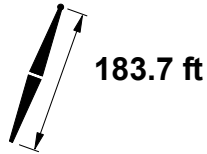


# MLC650 S-2

ASME B30.5



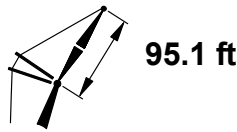
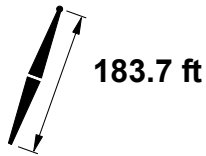
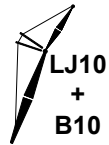
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55									55	
60									60	
65									65	
70									70	
75									75	
80									80	
85									85	
90									90	
95									95	
100	61.8	260.5	229,700 b						100	
105	57.8	257.2	215,800 b						105	
110	53.6	253.4	203,300						110	
115	49.1	249.0	191,900						115	
120	44.2	243.7	181,600	58.0	252.3	166,300			120	
125	38.9	237.5	172,000	53.8	248.5	157,600			125	
130	32.7	229.7	163,200	49.3	244.1	149,500			130	
135	25.0	219.4	154,900	44.5	238.9	142,000			135	
140	12.6	201.7	146,900	39.1	232.7	135,100	53.6	241.9	122,800	140
145				33.0	225.0	128,600	49.1	237.4	116,900	145
150				25.4	214.9	122,400	44.2	232.2	111,300	150
155				13.6	198.0	116,300	38.8	225.9	106,100	155
160							32.7	218.2	101,200	160
165							24.9	207.8	96,400	165
170							12.6	190.2	91,600	170

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	73.8	283.7	489,300 c						55	
60	70.6	281.8	444,400 c						60	
65	67.3	279.6	404,000 c						65	
70	64.0	277.1	370,300 b	71.5	281.6	402,200 c			70	
75	60.5	274.1	341,700 b	68.3	279.5	368,700 b			75	
80	56.8	270.8	317,300	64.9	277.0	340,200 b			80	
85	53.0	266.9	296,100	61.5	274.2	315,900 b	67.9	277.7	313,900 b	85
90	49.0	262.4	277,600	57.9	270.9	294,800	64.6	275.2	292,900 b	90
95	44.7	257.3	261,300	54.1	267.2	276,300	61.1	272.3	274,500 b	95
100	40.0	251.3	246,700	50.2	263.0	260,000	57.5	269.0	258,300	100
105	34.7	244.0	233,800	45.9	258.0	245,600	53.7	265.2	243,900	105
110	28.5	235.0	222,100	41.3	252.3	232,600	49.8	260.9	231,000	110
115	20.4	222.5	211,700	36.2	245.4	221,000	45.5	255.9	218,500	115
120				30.3	237.0	210,500	40.9	250.1	206,300	120
125				22.9	225.7	201,000	35.7	243.1	195,200	125
130				10.5	205.7	192,500	29.7	234.4	184,900	130
135							22.1	222.8	175,300	135
140							7.9	199.9	166,000	140
145										145
150										150
155										155
160										160
165										165
170										170
175										175
180										180

# MLC650 S-2

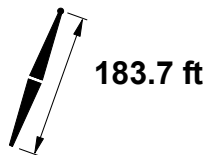
ASME B30.5



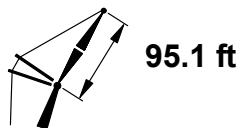
661,300 lb



360°



183.7 ft

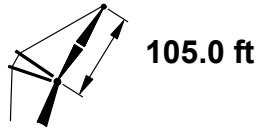
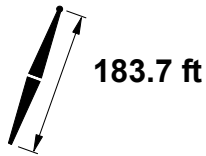
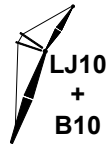


95.1 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.6	268.9	213,300							105
110	58.0	265.7	200,900							110
115	54.2	262.0	189,600							115
120	50.3	257.7	179,400							120
125	46.1	252.8	170,000	58.2	260.8	155,100				125
130	41.5	247.1	161,300	54.4	257.1	147,100				130
135	36.4	240.3	153,300	50.5	252.9	139,800				135
140	30.5	231.9	145,700	46.3	248.0	132,900				140
145	23.2	220.8	138,700	41.7	242.3	126,600	54.2	250.5	114,400	145
150	11.1	201.4	131,700	36.7	235.6	120,600	50.3	246.2	109,000	150
155				30.8	227.3	115,000	46.1	241.3	103,900	155
160				23.6	216.3	109,600	41.5	235.6	99,100	160
165				12.1	197.9	104,200	36.4	228.8	94,600	165
170							30.5	220.4	90,200	170
175							23.2	209.2	86,100	175
180							11.1	189.9	81,800	180

# MLC650 S-2

ASME B30.5



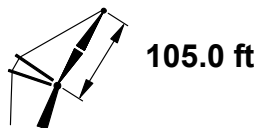
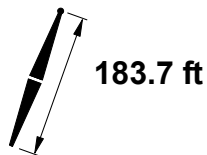
	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
60	72.5	292.3	444,000 c						60	
65	69.6	290.4	403,600 b						65	
70	66.6	288.1	370,000 b	70.4	290.2	368,400 b			70	
75	63.5	285.5	341,500 b	67.4	288.0	340,100 b			75	
80	60.4	282.6	317,100	64.4	285.5	315,700 b			80	
85	57.1	279.3	296,000	61.3	282.7	294,700	67.2	286.2	292,800 b	85
90	53.7	275.5	277,500	58.0	279.4	276,200	64.1	283.7	274,400	90
95	50.1	271.2	261,100	54.6	275.8	259,900	61.0	280.8	258,300	95
100	46.3	266.4	246,600	51.1	271.7	245,500	57.7	277.5	243,900	100
105	42.2	260.8	233,600	47.4	267.0	232,500	54.3	273.8	230,700	105
110	37.7	254.3	222,000	43.4	261.6	220,900	50.8	269.7	217,400	110
115	32.7	246.5	211,400	39.0	255.4	210,400	47.0	264.9	205,300	115
120	26.7	236.8	201,900	34.2	248.0	200,800	43.0	259.5	194,300	120
125	18.9	223.4	193,200	28.5	239.0	192,100	38.6	253.1	184,200	125
130				21.4	226.9	183,500	33.7	245.6	174,900	130
135				9.1	205.0	174,000	27.9	236.4	166,200	135
140							20.6	223.9	158,100	140
145							6.2	198.2	150,000	145
150										150
155										155
160										160
165										165
170										170
175										175
180										180
185										185
190										190

# MLC650 S-2

ASME B30.5



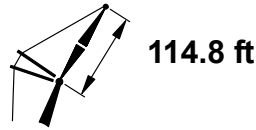
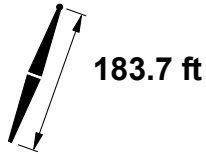
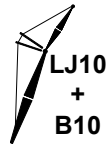
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	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	211,800						105	
110	61.4	277.4	199,400						110	
115	58.1	274.2	188,300						115	
120	54.8	270.6	178,100						120	
125	51.2	266.5	168,800						125	
130	47.5	261.8	160,200	58.3	269.3	145,700			130	
135	43.5	256.4	152,300	54.9	265.7	138,400			135	
140	39.2	250.2	144,900	51.4	261.6	131,700			140	
145	34.3	242.9	138,100	47.7	256.9	125,400			145	
150	28.7	233.9	131,600	43.7	251.6	119,500	54.8	259.1	107,600	150
155	21.7	222.0	125,500	39.4	245.5	114,100	51.2	254.9	102,600	155
160	9.8	200.9	119,400	34.6	238.2	108,900	47.5	250.3	97,900	160
165				29.0	229.3	104,000	43.5	244.9	93,500	165
170				22.1	217.6	99,200	39.2	238.7	89,300	170
175				10.8	197.6	94,500	34.3	231.4	85,300	175
180							28.7	222.4	81,500	180
185							21.7	210.5	77,800	185
190							9.8	189.3	73,900	190

# MLC650 S-2

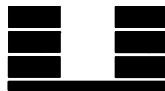
ASME B30.5



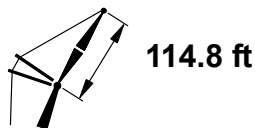
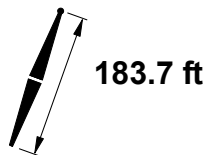
	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
60	74.1	302.7	444,000 b						60	
65	71.4	301.0	403,700 b						65	
70	68.8	298.9	370,200 b	72.2	300.7	368,600 b			70	
75	66.0	296.6	341,700 b	69.5	298.7	340,300 b			75	
80	63.2	294.0	317,300	66.8	296.5	315,900			80	
85	60.3	291.1	296,200	64.0	294.0	294,900	69.2	297.0	293,000	85
90	57.3	287.8	277,700	61.1	291.1	276,400	66.5	294.7	274,700	90
95	54.2	284.1	261,300	58.2	287.9	260,100	63.7	292.1	258,500	95
100	51.0	279.9	246,800	55.1	284.4	245,700	60.8	289.2	243,100	100
105	47.6	275.3	233,800	51.9	280.4	232,700	57.9	286.0	228,400	105
110	44.0	270.0	222,100	48.5	275.8	221,100	54.8	282.4	215,200	110
115	40.1	264.0	211,500	45.0	270.8	210,500	51.6	278.3	203,200	115
120	35.8	257.1	201,900	41.2	265.0	200,900	48.2	273.8	192,300	120
125	31.0	248.8	193,200	37.0	258.3	191,800	44.6	268.7	182,200	125
130	25.3	238.5	185,200	32.4	250.5	182,100	40.8	262.8	173,000	130
135	17.7	224.2	177,900	27.0	240.8	173,100	36.6	256.0	164,500	135
140				20.1	228.0	164,700	31.9	248.0	156,600	140
145				7.8	204.0	156,500	26.4	238.2	149,200	145
150							19.3	224.9	142,200	150
155							4.2	195.1	135,100	155
160										160
165										165
170										170
175										175
180										180
185										185
190										190
195										195
200										200

# MLC650 S-2

ASME B30.5



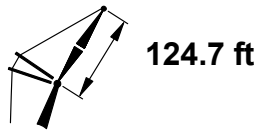
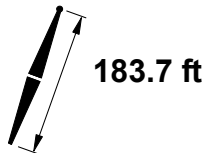
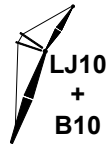
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	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	196,900						110	
115	61.2	285.9	185,800						115	
120	58.2	282.7	175,700						120	
125	55.2	279.1	166,500						125	
130	52.0	275.1	158,000						130	
135	48.6	270.6	150,100	58.4	277.8	135,900			135	
140	45.1	265.6	142,800	55.3	274.2	129,300			140	
145	41.3	259.8	136,100	52.2	270.2	123,100			145	
150	37.1	253.2	129,800	48.8	265.8	117,300			150	
155	32.5	245.4	123,800	45.3	260.8	111,900			155	
160	27.1	235.8	118,200	41.5	255.0	106,800	52.0	263.6	95,500	160
165	20.3	223.2	112,900	37.4	248.5	102,000	48.6	259.1	91,100	165
170	8.6	200.1	107,500	32.8	240.7	97,500	45.1	254.1	87,000	170
175				27.4	231.3	93,200	41.3	248.3	83,100	175
180				20.7	218.8	89,000	37.1	241.7	79,400	180
185				9.6	197.1	84,700	32.5	233.9	75,900	185
190							27.1	224.3	72,500	190
195							20.3	211.6	69,200	195
200							8.5	188.5	65,700	200

# MLC650 S-2

ASME B30.5

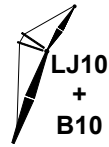


	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
65	73.0	311.4	402,900 b						65	
70	70.5	309.6	369,400 b						70	
75	68.0	307.5	341,100	71.2	309.3	339,600 b			75	
80	65.5	305.1	316,700	68.7	307.3	315,400			80	
85	62.9	302.5	295,700	66.2	305.0	294,400			85	
90	60.2	299.5	277,200	63.6	302.5	276,000	68.5	305.5	274,200	90
95	57.5	296.3	260,900	61.0	299.6	259,700	66.0	303.2	258,100	95
100	54.7	292.6	246,400	58.3	296.4	245,300	63.4	300.6	242,800	100
105	51.7	288.6	233,400	55.4	292.9	232,400	60.7	297.7	228,300	105
110	48.6	284.1	221,700	52.5	289.0	220,700	58.0	294.5	215,100	110
115	45.4	279.1	211,200	49.5	284.6	210,200	55.2	291.0	203,200	115
120	41.9	273.5	201,600	46.3	279.8	200,600	52.2	287.0	192,300	120
125	38.2	267.1	192,800	42.9	274.3	191,900	49.2	282.6	182,300	125
130	34.1	259.7	184,800	39.2	268.2	182,400	46.0	277.7	173,200	130
135	29.4	250.9	177,400	35.3	261.1	173,600	42.6	272.2	164,700	135
140	23.9	240.1	170,700	30.8	252.8	165,300	38.9	265.9	156,900	140
145	16.6	224.9	162,900	25.6	242.6	157,700	34.9	258.8	149,600	145
150				18.9	229.0	150,400	30.3	250.3	142,800	150
155				6.6	202.6	143,300	25.0	239.9	136,400	155
160							18.2	225.8	130,300	160
165										165
170										170
175										175
180										180
185										185
190										190
195										195
200										200
205										205
210										210

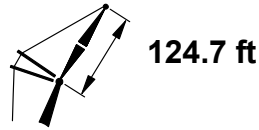
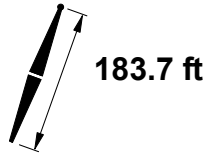


# MLC650 S-2

ASME B30.5



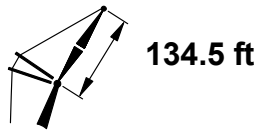
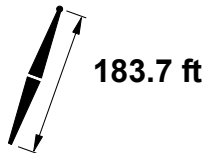
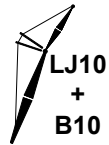
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	185,600							115
120	61.1	294.4	175,600							120
125	58.3	291.2	166,400							125
130	55.5	287.7	157,900							130
135	52.6	283.8	150,200							135
140	49.6	279.4	142,900	58.5	286.3	129,200				140
145	46.4	274.6	136,200	55.7	282.8	123,000				145
150	43.0	269.2	130,000	52.8	278.9	117,300				150
155	39.4	263.0	124,200	49.7	274.6	112,000				155
160	35.4	256.0	118,700	46.6	269.8	106,900				160
165	30.9	247.7	113,500	43.2	264.4	102,200	52.6	272.3	91,100	165
170	25.8	237.6	108,600	39.5	258.3	97,800	49.6	267.9	87,100	170
175	19.2	224.2	103,900	35.6	251.2	93,600	46.4	263.1	83,300	175
180	7.4	199.0	99,100	31.2	243.0	89,600	43.0	257.7	79,600	180
185				26.0	233.0	85,700	39.4	251.5	76,200	185
190				19.6	219.9	82,000	35.4	244.5	72,900	190
195				8.5	196.3	78,200	30.9	236.2	69,800	195
200							25.8	226.1	66,700	200
205							19.2	212.6	63,700	205
210							7.3	187.4	60,600	210

# MLC650 S-2

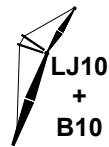
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
65	74.3	321.8	403,000 b						65	
70	72.0	320.1	369,600						70	
75	69.7	318.2	341,200	72.6	319.8	339,800			75	
80	67.4	316.0	316,900	70.4	317.9	315,600			80	
85	65.1	313.6	295,900	68.1	315.9	294,600			85	
90	62.6	311.0	277,400	65.7	313.5	276,200			90	
95	60.2	308.0	261,100	63.3	310.9	259,900	67.8	314.1	256,700	95
100	57.6	304.8	246,600	60.9	308.1	245,500	65.5	311.7	240,500	100
105	55.0	301.2	233,600	58.4	304.9	232,600	63.1	309.1	225,900	105
110	52.3	297.3	221,900	55.8	301.4	220,900	60.6	306.2	212,800	110
115	49.5	292.9	211,300	53.1	297.6	210,400	58.1	303.0	201,000	115
120	46.5	288.1	201,700	50.3	293.4	200,500	55.5	299.5	190,200	120
125	43.4	282.8	192,900	47.4	288.7	190,100	52.8	295.6	180,300	125
130	40.1	276.8	184,900	44.3	283.5	180,600	50.0	291.4	171,200	130
135	36.5	270.0	177,500	41.0	277.7	171,800	47.1	286.6	162,800	135
140	32.6	262.2	169,400	37.5	271.2	163,700	44.0	281.4	155,000	140
145	28.1	253.0	161,600	33.7	263.7	156,100	40.7	275.5	147,800	145
150	22.8	241.5	154,300	29.4	254.9	149,000	37.2	268.9	141,100	150
155	15.6	225.4	147,300	24.4	244.2	142,400	33.3	261.3	134,800	155
160				17.9	229.9	136,000	29.0	252.4	128,900	160
165				5.2	200.5	129,700	23.8	241.4	123,300	165
170							17.1	226.6	117,900	170
175										175
180										180
185										185
190										190
195										195
200										200
205										205
210										210
215										215
220										220

# MLC650 S-2

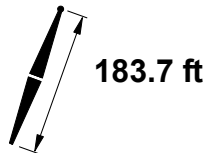
ASME B30.5



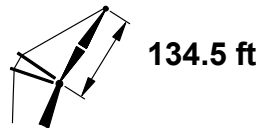
661,300 lb



360°



183.7 ft

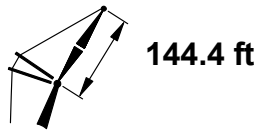
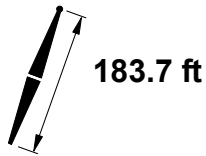
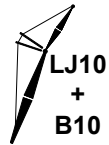


134.5 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	63.4	305.7	173,100							125
130	60.9	302.8	164,000							130
135	58.4	299.7	155,600							135
140	55.8	296.2	147,900							140
145	53.2	292.4	140,700							145
150	50.4	288.2	134,100	58.6	294.7	120,600				150
155	47.5	283.5	127,900	56.0	291.3	114,900				155
160	44.4	278.3	122,100	53.3	287.5	109,600				160
165	41.1	272.6	116,700	50.5	283.3	104,700				165
170	37.7	266.1	111,600	47.6	278.7	100,000				170
175	33.8	258.6	106,800	44.6	273.5	95,600	53.2	280.9	84,700	175
180	29.5	249.9	102,200	41.3	267.8	91,500	50.4	276.7	80,900	180
185	24.5	239.2	97,900	37.8	261.3	87,600	47.5	272.0	77,300	185
190	18.1	225.1	93,700	34.0	253.9	83,800	44.4	266.8	74,000	190
195				29.8	245.2	80,300	41.1	261.0	70,700	195
200				24.8	234.7	76,800	37.6	254.5	67,700	200
205				18.5	220.8	73,500	33.8	247.1	64,700	205
210				7.4	195.3	70,000	29.5	238.3	61,900	210
215							24.5	227.7	59,200	215
220							18.1	213.5	56,500	220
							6.2	185.9	53,600	220

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
70	73.3	330.5	369,300						70	
75	71.2	328.7	341,000						75	
80	69.1	326.8	316,800	71.8	328.5	315,400			80	
85	66.9	324.6	295,700	69.7	326.5	294,500			85	
90	64.7	322.1	277,300	67.5	324.4	276,100			90	
95	62.4	319.4	261,000	65.3	322.0	259,900	69.4	324.8	254,800	95
100	60.1	316.5	246,500	63.1	319.4	245,400	67.3	322.6	238,700	100
105	57.8	313.3	233,600	60.8	316.5	232,500	65.1	320.2	224,200	105
110	55.3	309.7	221,900	58.4	313.4	220,900	62.8	317.6	211,200	110
115	52.8	305.9	211,300	56.0	310.0	210,300	60.5	314.7	199,300	115
120	50.2	301.6	201,700	53.5	306.2	199,000	58.2	311.5	188,600	120
125	47.5	297.0	192,900	51.0	302.1	188,700	55.8	308.0	178,700	125
130	44.7	291.9	184,900	48.3	297.6	179,200	53.3	304.2	169,700	130
135	41.7	286.2	176,600	45.5	292.6	170,500	50.7	300.1	161,300	135
140	38.5	279.9	168,300	42.5	287.1	162,400	48.0	295.5	153,600	140
145	35.0	272.8	160,500	39.4	280.9	154,900	45.2	290.5	146,500	145
150	31.2	264.6	153,300	36.0	274.0	147,900	42.2	284.9	139,800	150
155	26.9	254.9	146,500	32.3	266.2	141,300	39.1	278.7	133,500	155
160	21.7	242.8	140,100	28.2	257.0	135,200	35.7	271.7	127,700	160
165	14.7	225.9	134,000	23.3	245.7	129,300	31.9	263.8	122,200	165
170				17.0	230.6	123,800	27.7	254.4	117,000	170
175				3.4	197.0	118,100	22.7	242.9	112,100	175
180							16.2	227.2	107,300	180
185										185
190										190
195										195
200										200
205										205
210										210
215										215
220										220
225										225
230										230

# MLC650 S-2

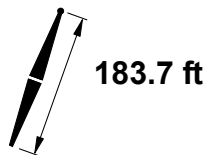
ASME B30.5



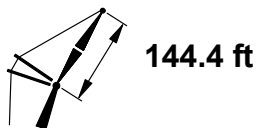
661,300 lb



360°



183.7 ft

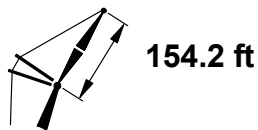
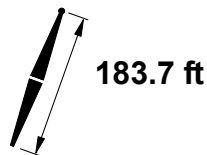


144.4 ft

	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	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	63.1	314.2	162,300						130	
135	60.8	311.3	154,000						135	
140	58.5	308.2	146,300						140	
145	56.1	304.7	139,200						145	
150	53.6	301.0	132,600						150	
155	51.0	296.9	126,400	58.6	303.2	113,300			155	
160	48.4	292.4	120,700	56.2	299.8	108,000			160	
165	45.6	287.4	115,300	53.7	296.1	103,100			165	
170	42.6	281.9	110,300	51.2	292.0	98,500			170	
175	39.5	275.8	105,500	48.5	287.5	94,100	53.6	289.5	79,300	175
180	36.1	268.9	101,000	45.7	282.5	90,000	51.0	285.3	75,800	180
185	32.4	261.1	96,800	42.8	277.1	86,200	48.4	280.8	72,400	185
190	28.3	251.9	92,700	39.7	271.0	82,500	45.6	275.9	69,300	190
195	23.4	240.7	88,800	36.3	264.2	79,000	42.6	270.4	66,200	195
200	17.2	225.9	85,100	32.6	256.4	75,700	39.5	264.3	63,400	200
205	4.9	195.3	81,100	28.5	247.3	72,500	36.1	257.4	60,600	205
210				23.7	236.3	69,400	32.4	249.6	58,000	210
215				17.6	221.6	66,400	28.3	240.4	55,400	215
220				6.4	193.9	63,200	23.4	229.2	52,900	220
225							17.2	214.3	50,500	225
230							4.8	183.7	47,800	230

# MLC650 S-2

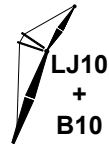
ASME B30.5



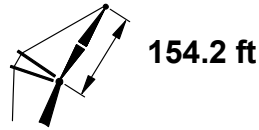
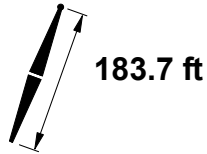
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
70	74.4	340.8	369,500						70	
75	72.4	339.2	341,200						75	
80	70.5	337.4	317,000	73.0	338.9	315,600			80	
85	68.5	335.3	296,000	71.0	337.1	294,700			85	
90	66.4	333.1	277,500	69.0	335.1	276,300			90	
95	64.4	330.6	261,200	67.0	332.9	260,100			95	
100	62.2	327.9	246,700	64.9	330.5	245,700	68.8	333.3	236,300	100
105	60.1	325.0	233,800	62.8	327.9	232,700	66.8	331.1	221,900	105
110	57.9	321.8	222,100	60.7	325.0	220,600	64.7	328.7	208,900	110
115	55.6	318.3	211,500	58.5	321.9	208,300	62.6	326.0	197,100	115
120	53.3	314.5	201,900	56.2	318.5	197,000	60.5	323.1	186,400	120
125	50.9	310.3	193,100	53.9	314.8	186,800	58.3	320.0	176,600	125
130	48.4	305.8	183,800	51.6	310.7	177,300	56.0	316.5	167,600	130
135	45.8	300.9	174,900	49.1	306.3	168,600	53.7	312.8	159,300	135
140	43.0	295.5	166,600	46.5	301.5	160,600	51.3	308.7	151,600	140
145	40.1	289.5	158,900	43.8	296.3	153,100	48.8	304.3	144,500	145
150	37.0	282.9	151,700	41.0	290.5	146,100	46.2	299.5	137,900	150
155	33.7	275.4	145,000	37.9	284.0	139,600	43.5	294.1	131,700	155
160	30.0	266.8	138,700	34.7	276.8	133,500	40.7	288.3	125,900	160
165	25.8	256.7	132,700	31.1	268.5	127,800	37.6	281.8	120,400	165
170	20.8	244.1	127,100	27.0	258.9	122,400	34.3	274.4	115,300	170
175	13.9	226.3	121,700	22.3	247.1	117,300	30.7	266.1	110,500	175
180				16.1	231.3	112,300	26.6	256.3	105,900	180
185							21.8	244.2	101,500	185
190							15.4	227.8	97,200	190
195										195
200										200
205										205
210										210
215										215
220										220
225										225
230										230
235										235
240										240

# MLC650 S-2

ASME B30.5



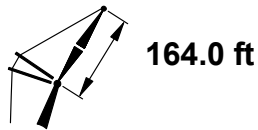
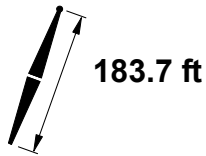
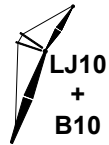
661,300 lb



ft	75°			70°			65°			ft
	ft	lb	lb	ft	lb	lb	ft	lb	lb	
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	159,900							125
130	62.9	322.6	151,600							130
135	60.8	319.8	144,000							135
140	58.6	316.6	136,900							140
145	56.3	313.2	130,300							145
150	54.0	309.5	124,200							150
155	51.6	305.5	118,500	58.7	311.7	105,700				155
160	49.2	301.1	113,200	56.4	308.3	100,800				160
165	46.6	296.3	108,200	54.1	304.6	96,200				165
170	43.9	291.1	103,500	51.7	300.6	91,900				170
175	41.0	285.3	99,100	49.3	296.3	87,800				175
180	38.0	278.9	94,900	46.7	291.5	84,000	54.0	298.0	73,400	180
185	34.8	271.7	90,900	44.0	286.3	80,400	51.6	294.0	70,100	185
190	31.2	263.5	87,100	41.2	280.5	76,900	49.2	289.6	67,000	190
195	27.2	253.9	83,500	38.2	274.1	73,700	46.6	284.8	64,000	195
200	22.4	242.2	80,000	34.9	266.9	70,500	43.9	279.6	61,200	200
205	16.4	226.6	76,600	31.4	258.8	67,500	41.0	273.8	58,500	205
210	3.1	191.4	73,000	27.4	249.3	64,700	38.0	267.4	55,900	210
215				22.7	237.7	61,900	34.8	260.1	53,400	215
220				16.7	222.4	59,100	31.2	251.9	51,000	220
225				5.2	191.9	56,200	27.2	242.3	48,700	225
230							22.4	230.6	46,500	230
235							16.3	215.0	44,200	235
240							3.1	179.7	41,600	240

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
75	73.5	349.6	340,900						75	
80	71.7	347.9	316,700						80	
85	69.8	346.0	295,700	72.2	347.6	294,400			85	
90	67.9	343.9	277,300	70.3	345.7	276,100			90	
95	66.0	341.6	261,000	68.5	343.7	259,900			95	
100	64.1	339.1	246,600	66.5	341.5	245,500			100	
105	62.1	336.4	233,600	64.6	339.0	232,600	68.3	341.9	221,000	105
110	60.0	333.4	221,900	62.6	336.4	219,800	66.4	339.6	208,100	110
115	58.0	330.2	211,400	60.6	333.5	207,600	64.4	337.2	196,300	115
120	55.9	326.8	201,700	58.6	330.4	196,400	62.4	334.5	185,700	120
125	53.7	323.1	193,000	56.5	327.0	186,100	60.4	331.6	175,900	125
130	51.4	319.0	183,300	54.3	323.3	176,700	58.4	328.5	166,900	130
135	49.1	314.6	174,400	52.1	319.4	168,100	56.2	325.1	158,700	135
140	46.7	309.8	166,100	49.8	315.1	160,100	54.1	321.4	151,000	140
145	44.2	304.7	158,400	47.4	310.4	152,600	51.8	317.4	143,900	145
150	41.5	299.0	151,300	44.9	305.4	145,700	49.5	313.1	137,300	150
155	38.7	292.7	144,600	42.3	299.8	139,200	47.1	308.4	131,200	155
160	35.7	285.7	138,400	39.5	293.7	133,200	44.6	303.2	125,400	160
165	32.5	277.9	132,500	36.6	287.0	127,500	42.0	297.7	120,000	165
170	28.9	268.9	127,000	33.4	279.4	122,200	39.2	291.5	114,900	170
175	24.8	258.4	121,800	29.9	270.8	117,100	36.3	284.7	110,100	175
180	19.9	245.2	116,800	26.0	260.7	112,300	33.1	277.0	105,600	180
185	13.2	226.5	111,900	21.4	248.4	107,700	29.6	268.3	101,300	185
190				15.4	231.9	103,300	25.6	258.0	97,200	190
195							20.9	245.5	93,200	195
200							14.6	228.3	89,400	200
205										205
210										210
215										215
220										220
225										225
230										230
235										235
240										240
245										245



# MLC650 S-2

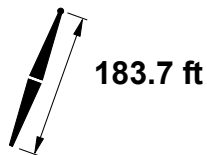
ASME B30.5



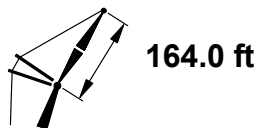
661,300 lb



360°



183.7 ft

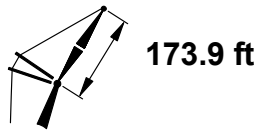
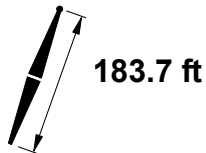
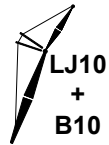


164.0 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	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	64.7	333.8	150,800							135
140	62.7	331.1	143,200							140
145	60.7	328.2	136,100							145
150	58.6	325.1	129,600							150
155	56.5	321.8	123,500							155
160	54.4	318.1	117,900							160
165	52.1	314.2	112,600	58.7	320.2	100,000				165
170	49.8	309.9	107,600	56.6	316.8	95,500				170
175	47.4	305.2	102,900	54.5	313.2	91,200				175
180	45.0	300.2	98,500	52.2	309.3	87,200				180
185	42.4	294.6	94,400	49.9	305.0	83,400				185
190	39.6	288.6	90,400	47.6	300.4	79,800	54.4	306.6	69,400	190
195	36.7	281.8	86,700	45.1	295.3	76,300	52.1	302.6	66,300	195
200	33.5	274.3	83,100	42.5	289.8	73,100	49.8	298.4	63,300	200
205	30.1	265.7	79,700	39.8	283.8	70,000	47.4	293.7	60,500	205
210	26.1	255.7	76,500	36.8	277.1	67,100	45.0	288.7	57,800	210
215	21.5	243.5	73,400	33.7	269.6	64,300	42.4	283.1	55,300	215
220	15.6	227.2	70,300	30.2	261.1	61,600	39.6	277.0	52,900	220
225				26.4	251.1	59,000	36.7	270.3	50,500	225
230				21.8	239.1	56,400	33.5	262.8	48,300	230
235				15.9	223.0	53,900	30.1	254.2	46,100	235
240				3.9	189.1	51,200	26.1	244.2	44,000	240
245							21.5	232.0	41,900	245
							15.6	215.6	39,900	245

# MLC650 S-2

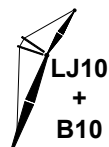
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
75	74.5	359.9	341,000						75	
80	72.8	358.3	316,900						80	
85	71.0	356.5	295,900						85	
90	69.3	354.6	277,500	71.5	356.2	276,300			90	
95	67.5	352.4	261,300	69.7	354.3	260,100			95	
100	65.6	350.1	246,800	68.0	352.3	245,700			100	
105	63.8	347.6	233,800	66.2	350.0	231,300	69.6	352.5	218,700	105
110	61.9	344.9	222,100	64.3	347.5	217,800	67.8	350.4	205,800	110
115	60.0	341.9	211,600	62.5	344.9	205,500	66.0	348.2	194,100	115
120	58.1	338.7	201,700	60.5	342.0	194,400	64.1	345.7	183,500	120
125	56.1	335.3	191,100	58.6	338.9	184,200	62.3	343.0	173,800	125
130	54.0	331.6	181,500	56.6	335.5	174,800	60.4	340.1	164,800	130
135	51.9	327.7	172,600	54.6	331.9	166,200	58.4	337.0	156,600	135
140	49.7	323.4	164,300	52.5	328.0	158,200	56.4	333.6	149,000	140
145	47.5	318.7	156,700	50.4	323.8	150,800	54.4	329.9	141,900	145
150	45.2	313.7	149,600	48.1	319.3	143,900	52.3	326.0	135,400	150
155	42.7	308.2	143,000	45.8	314.4	137,400	50.1	321.8	129,200	155
160	40.2	302.3	136,700	43.4	309.0	131,400	47.9	317.2	123,500	160
165	37.4	295.7	130,900	40.9	303.2	125,800	45.6	312.3	118,100	165
170	34.5	288.5	125,400	38.2	296.8	120,500	43.2	306.9	113,100	170
175	31.4	280.3	120,200	35.4	289.8	115,500	40.6	301.0	108,300	175
180	27.9	271.0	115,300	32.3	281.9	110,700	38.0	294.6	103,800	180
185	23.9	260.0	110,700	28.9	272.9	106,200	35.1	287.5	99,600	185
190	19.1	246.3	106,200	25.1	262.4	102,000	32.0	279.5	95,500	190
195	12.5	226.7	101,900	20.6	249.7	97,900	28.6	270.4	91,700	195
200				14.6	232.4	93,900	24.7	259.7	88,000	200
205							20.1	246.7	84,400	205
210							13.9	228.7	81,000	210
215										215
220										220
225										225
230										230
235										235
240										240
245										245
250										250
255										255

# MLC650 S-2

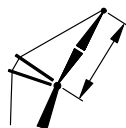
ASME B30.5



661,300 lb



183.7 ft

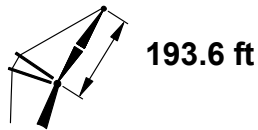
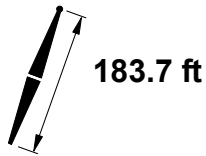
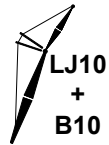


173.9 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	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	64.4	342.3	140,900							135
140	62.5	339.6	133,900							140
145	60.6	336.7	127,400							145
150	58.7	333.6	121,300							150
155	56.7	330.3	115,700							155
160	54.7	326.7	110,400							160
165	52.6	322.8	105,500	58.8	328.7	93,100				165
170	50.4	318.6	100,900	56.8	325.3	88,900				170
175	48.2	314.1	96,500	54.8	321.7	84,900				175
180	45.9	309.2	92,400	52.7	317.9	81,100				180
185	43.5	303.8	88,500	50.5	313.7	77,600				185
190	41.0	298.0	84,800	48.3	309.2	74,200	54.7	315.1	63,900	190
195	38.3	291.7	81,200	46.0	304.3	71,000	52.6	311.3	61,000	195
200	35.5	284.7	77,900	43.6	299.0	67,900	50.4	307.1	58,200	200
205	32.4	276.8	74,700	41.1	293.2	65,000	48.2	302.5	55,600	205
210	29.0	267.9	71,700	38.4	286.9	62,300	45.9	297.6	53,100	210
215	25.2	257.4	68,700	35.6	279.9	59,600	43.5	292.3	50,700	215
220	20.7	244.8	65,900	32.6	272.1	57,100	41.0	286.5	48,400	220
225	14.9	227.7	63,100	29.2	263.2	54,600	38.3	280.2	46,200	225
230				25.4	252.9	52,300	35.5	273.1	44,100	230
235				21.0	240.4	49,900	32.4	265.3	42,000	235
240				15.2	223.6	47,600	29.0	256.3	40,000	240
245							25.2	245.9	38,100	245
250							20.7	233.2	36,200	250
255							14.8	216.2	34,300	255

# MLC650 S-2

ASME B30.5



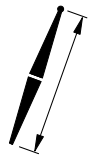
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
80	74.6	378.9	315,600						80	
85	73.0	377.4	294,700						85	
90	71.5	375.6	276,300						90	
95	69.9	373.8	260,100	71.9	375.3	259,000			95	
100	68.3	371.7	245,700	70.3	373.5	243,100			100	
105	66.7	369.5	232,700	68.7	371.5	228,200			105	
110	65.0	367.1	221,100	67.1	369.3	214,800			110	
115	63.4	364.6	210,500	65.5	367.0	202,600	68.6	369.7	191,000	115
120	61.7	361.8	199,000	63.8	364.5	191,600	67.0	367.5	180,400	120
125	60.0	358.9	188,600	62.1	361.8	181,400	65.3	365.2	170,800	125
130	58.2	355.7	179,000	60.4	358.9	172,100	63.7	362.7	161,900	130
135	56.4	352.3	170,100	58.7	355.8	163,600	62.0	359.9	153,800	135
140	54.6	348.7	161,900	56.9	352.5	155,600	60.3	357.0	146,200	140
145	52.7	344.9	154,300	55.1	349.0	148,300	58.5	353.9	139,200	145
150	50.8	340.8	147,300	53.3	345.2	141,400	56.8	350.6	132,700	150
155	48.8	336.3	140,700	51.4	341.1	135,000	54.9	347.0	126,600	155
160	46.8	331.6	134,500	49.4	336.8	129,100	53.1	343.2	120,900	160
165	44.7	326.5	128,700	47.4	332.2	123,500	51.2	339.1	115,600	165
170	42.5	321.0	123,300	45.3	327.2	118,200	49.2	334.8	110,600	170
175	40.2	315.0	118,200	43.1	321.8	113,300	47.2	330.1	105,900	175
180	37.8	308.6	113,400	40.8	315.9	108,600	45.1	325.1	101,400	180
185	35.2	301.5	108,800	38.4	309.6	104,200	42.9	319.6	97,200	185
190	32.4	293.6	104,500	35.9	302.7	100,000	40.6	313.8	93,300	190
195	29.4	284.8	100,400	33.2	295.1	96,000	38.2	307.4	89,500	195
200	26.1	274.8	96,400	30.3	286.6	92,200	35.7	300.4	85,900	200
205	22.3	262.9	92,700	27.1	276.9	88,600	33.0	292.7	82,500	205
210	17.7	248.2	89,100	23.4	265.7	85,100	30.0	284.1	79,200	210
215	11.2	226.7	85,500	19.1	251.9	81,800	26.8	274.3	76,000	215
220				13.4	233.1	78,500	23.1	262.9	73,000	220
225							18.6	248.8	70,100	225
230							12.6	229.2	67,200	230
235										235
240										240
245										245
250										250
255										255
260										260
265										265
270										270
275										275

# MLC650 S-2

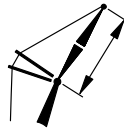
ASME B30.5



661,300 lb



183.7 ft

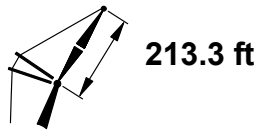
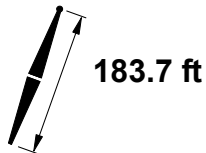
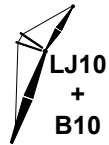


193.6 ft

	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	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	124,300						145	
150	62.2	356.6	118,300						150	
155	60.5	353.7	112,700						155	
160	58.8	350.6	107,500						160	
165	57.0	347.3	102,600						165	
170	55.2	343.7	98,000						170	
175	53.3	340.0	93,700	58.8	345.6	81,800			175	
180	51.4	335.9	89,600	57.1	342.3	78,100			180	
185	49.5	331.6	85,800	55.3	338.8	74,600			185	
190	47.4	327.0	82,100	53.4	335.1	71,300			190	
195	45.3	322.0	78,700	51.5	331.0	68,100			195	
200	43.2	316.6	75,400	49.6	326.7	65,100			200	
205	40.9	310.8	72,300	47.5	322.1	62,300	53.3	328.5	52,500	205
210	38.5	304.5	69,300	45.5	317.1	59,600	51.4	324.4	50,100	210
215	36.0	297.6	66,400	43.3	311.8	57,000	49.5	320.1	47,700	215
220	33.3	290.0	63,700	41.0	306.0	54,500	47.4	315.4	45,500	220
225	30.4	281.5	61,100	38.6	299.7	52,100	45.3	310.5	43,300	225
230	27.2	271.9	58,600	36.1	292.8	49,800	43.2	305.1	41,300	230
235	23.6	260.7	56,100	33.4	285.3	47,600	40.9	299.3	39,300	235
240	19.3	247.0	53,700	30.5	276.9	45,500	38.5	293.0	37,400	240
245	13.6	228.5	51,400	27.4	267.3	43,500	36.0	286.1	35,600	245
250				23.8	256.2	41,500	33.3	278.5	33,800	250
255				19.5	242.7	39,500	30.4	270.0	32,100	255
260				13.9	224.5	37,600	27.2	260.4	30,400	260
265							23.6	249.2	28,800	265
270							19.2	235.5	27,200	270
275							13.6	216.9	25,500	275

# MLC650 S-2

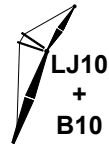
ASME B30.5



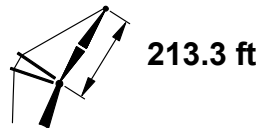
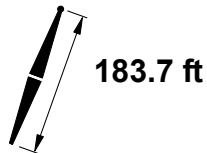
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
85	74.6	398.0	282,400						85	
90	73.2	396.4	277,500						90	
95	71.8	394.7	261,300						95	
100	70.4	392.9	246,900	72.2	394.4	240,000			100	
105	68.9	390.9	234,000	70.8	392.7	225,200			105	
110	67.5	388.8	220,300	69.4	390.7	211,900			110	
115	66.0	386.6	207,800	67.9	388.6	199,800			115	
120	64.5	384.1	196,400	66.4	386.4	188,800	69.2	388.9	177,400	
125	63.0	381.5	186,000	64.9	384.0	178,700	67.8	386.8	167,800	
130	61.5	378.8	176,400	63.4	381.5	169,400	66.3	384.6	159,000	
135	59.9	375.8	167,600	61.9	378.8	160,900	64.8	382.2	150,900	
140	58.3	372.7	159,500	60.3	375.9	153,000	63.3	379.6	143,400	
145	56.7	369.4	151,900	58.8	372.8	145,700	61.8	376.9	136,400	
150	55.1	365.8	144,900	57.2	369.5	138,900	60.2	374.0	130,000	
155	53.4	362.1	138,300	55.5	366.0	132,500	58.6	370.9	123,900	
160	51.7	358.1	132,200	53.9	362.3	126,600	57.0	367.6	118,300	
165	49.9	353.8	126,500	52.2	358.4	121,100	55.4	364.1	113,000	
170	48.1	349.3	121,100	50.4	354.2	115,800	53.7	360.4	108,000	
175	46.2	344.4	116,000	48.6	349.8	110,900	52.0	356.4	103,400	
180	44.3	339.3	111,200	46.7	345.0	106,300	50.2	352.2	98,900	
185	42.3	333.7	106,700	44.8	339.9	101,900	48.4	347.7	94,800	
190	40.2	327.8	102,400	42.9	334.5	97,800	46.6	342.9	90,800	
195	38.0	321.4	98,300	40.8	328.7	93,800	44.6	337.8	87,100	
200	35.7	314.4	94,500	38.6	322.4	90,100	42.7	332.4	83,500	
205	33.3	306.8	90,800	36.4	315.6	86,500	40.6	326.5	80,200	
210	30.6	298.4	87,300	34.0	308.2	83,100	38.4	320.2	77,000	
215	27.8	289.0	83,900	31.4	300.0	79,900	36.1	313.3	73,900	
220	24.6	278.3	80,700	28.6	290.9	76,800	33.7	305.8	70,900	
225	20.9	265.6	77,600	25.5	280.6	73,800	31.1	297.6	68,100	
230	16.5	249.8	74,600	22.0	268.6	70,900	28.3	288.4	65,400	
235	10.1	226.4	71,600	17.8	253.8	68,100	25.2	277.9	62,800	
240				12.2	233.5	65,400	21.7	265.7	60,300	
245							17.4	250.6	57,800	
250							11.5	229.4	55,400	
255									255	
260									260	
265									265	
270									270	
275									275	
280									280	
285									285	
290									290	

# MLC650 S-2

ASME B30.5



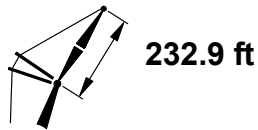
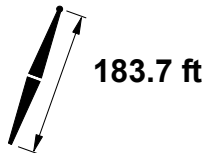
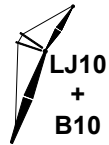
661,300 lb



ft	75°			70°			65°			ft
	ft	lb	lb	ft	lb	lb	ft	lb	lb	
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	115,300							150
155	63.5	376.2	109,700							155
160	61.9	373.5	104,600							160
165	60.4	370.6	99,700							165
170	58.8	367.5	95,200							170
175	57.2	364.3	90,900							175
180	55.6	360.8	86,900							180
185	53.9	357.1	83,000	58.9	362.6	71,600				185
190	52.2	353.2	79,400	57.3	359.3	68,300				190
195	50.5	349.0	76,000	55.7	355.9	65,200				195
200	48.7	344.6	72,800	54.0	352.2	62,200				200
205	46.8	339.8	69,700	52.3	348.3	59,400				205
210	44.9	334.8	66,700	50.5	344.1	56,700				210
215	42.9	329.3	63,900	48.7	339.7	54,200	53.9	345.6	44,700	215
220	40.9	323.5	61,300	46.9	335.0	51,800	52.2	341.7	42,500	220
225	38.7	317.3	58,700	45.0	329.9	49,400	50.5	337.5	40,400	225
230	36.4	310.5	56,200	43.0	324.5	47,200	48.7	333.0	38,400	230
235	34.0	303.1	53,900	41.0	318.7	45,000	46.8	328.3	36,500	235
240	31.5	294.9	51,600	38.8	312.5	43,000	44.9	323.2	34,600	240
245	28.7	285.9	49,400	36.6	305.7	41,000	42.9	317.8	32,800	245
250	25.6	275.6	47,300	34.2	298.4	39,100	40.9	312.0	31,100	250
255	22.1	263.6	45,200	31.6	290.3	37,300	38.7	305.7	29,400	255
260	18.0	249.0	43,200	28.8	281.2	35,500	36.4	299.0	27,800	260
265	12.4	229.0	41,200	25.8	271.0	33,700	34.0	291.6	26,300	265
270				22.3	259.2	32,000	31.5	283.4	24,800	270
275				18.2	244.7	30,400	28.7	274.3	23,300	275
280				12.8	225.1	28,700	25.6	264.1	21,900	280
285							22.1	252.1	20,500	285
290							18.0	237.5	18,800	290

# MLC650 S-2

ASME B30.5

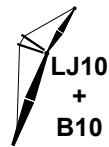


	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
90	74.7	417.0	242,900						90	
95	73.4	415.5	242,200						95	
100	72.1	413.8	241,300						100	
105	70.8	412.1	231,900	72.5	413.5	222,900			105	
110	69.5	410.2	218,200	71.2	411.8	209,700			110	
115	68.2	408.1	205,800	69.9	409.9	197,600			115	
120	66.8	405.9	194,400	68.5	407.9	186,700			120	
125	65.5	403.6	184,100	67.2	405.8	176,700	69.7	408.1	165,600	
130	64.1	401.1	174,600	65.8	403.5	167,500	68.4	406.1	156,900	
135	62.7	398.5	165,800	64.5	401.0	159,000	67.1	404.0	148,800	
140	61.3	395.7	157,700	63.1	398.5	151,100	65.7	401.7	141,300	
145	59.9	392.8	150,200	61.7	395.7	143,800	64.3	399.2	134,400	
150	58.4	389.7	143,200	60.3	392.8	137,100	63.0	396.6	128,000	
155	57.0	386.4	136,700	58.8	389.8	130,800	61.6	393.9	122,000	
160	55.5	382.9	130,600	57.4	386.5	124,900	60.1	390.9	116,400	
165	53.9	379.2	124,800	55.9	383.1	119,300	58.7	387.9	111,100	
170	52.4	375.3	119,500	54.4	379.4	114,100	57.2	384.6	106,200	
175	50.8	371.2	114,400	52.8	375.6	109,300	55.7	381.1	101,500	
180	49.1	366.8	109,700	51.2	371.5	104,700	54.2	377.5	97,200	
185	47.5	362.2	105,200	49.6	367.2	100,300	52.7	373.6	93,000	
190	45.7	357.3	100,900	47.9	362.7	96,200	51.1	369.5	89,100	
195	44.0	352.0	96,900	46.2	357.9	92,300	49.4	365.2	85,400	
200	42.1	346.5	93,100	44.5	352.7	88,600	47.8	360.6	81,900	
205	40.2	340.5	89,400	42.6	347.3	85,100	46.1	355.8	78,500	
210	38.2	334.2	85,900	40.8	341.4	81,700	44.3	350.6	75,400	
215	36.1	327.3	82,600	38.8	335.2	78,500	42.5	345.1	72,300	
220	33.9	319.9	79,500	36.7	328.5	75,400	40.6	339.3	69,400	
225	31.6	311.8	76,400	34.6	321.2	72,500	38.6	333.0	66,600	
230	29.1	302.8	73,500	32.3	313.3	69,700	36.5	326.2	64,000	
235	26.3	292.8	70,700	29.8	304.6	67,000	34.3	318.9	61,400	
240	23.3	281.5	68,000	27.1	295.0	64,400	32.0	310.9	59,000	
245	19.7	268.0	65,400	24.2	284.0	61,900	29.5	302.1	56,600	
250	15.4	251.1	62,900	20.8	271.2	59,500	26.8	292.4	54,400	
255	9.0	225.7	60,300	16.7	255.5	57,100	23.9	281.3	52,100	
260				11.2	233.6	54,800	20.4	268.3	50,000	
265							16.3	252.2	47,900	
270							10.5	229.2	45,800	
275									275	
280									280	
285									285	
290									290	
295									295	
300									300	

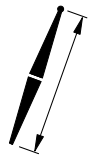


# MLC650 S-2

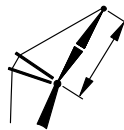
ASME B30.5



661,300 lb



183.7 ft

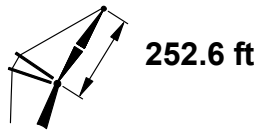
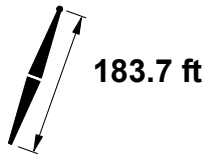
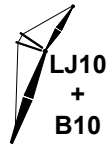


232.9 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160	64.5	395.8	102,400							160
165	63.1	393.2	97,600							165
170	61.7	390.5	93,100							170
175	60.3	387.6	88,900							175
180	58.9	384.5	84,800							180
185	57.4	381.3	81,100							185
190	55.9	377.8	77,500							190
195	54.4	374.2	74,100	58.9	379.6	63,000				195
200	52.9	370.4	70,900	57.5	376.3	60,100				200
205	51.3	366.3	67,800	56.0	372.9	57,300				205
210	49.6	362.0	64,900	54.5	369.3	54,700				210
215	48.0	357.5	62,100	52.9	365.5	52,200				215
220	46.3	352.7	59,500	51.3	361.4	49,800				220
225	44.5	347.5	57,000	49.7	357.2	47,500	54.4	362.7	38,300	225
230	42.7	342.1	54,500	48.1	352.6	45,300	52.9	358.9	36,300	230
235	40.8	336.3	52,200	46.4	347.8	43,200	51.3	354.8	34,400	235
240	38.8	330.0	50,000	44.6	342.7	41,100	49.6	350.5	32,600	240
245	36.8	323.3	47,800	42.8	337.3	39,200	48.0	346.0	30,800	245
250	34.6	316.1	45,800	40.9	331.5	37,300	46.3	341.2	29,100	250
255	32.3	308.2	43,800	38.9	325.3	35,500	44.5	336.0	27,500	255
260	29.9	299.6	41,900	36.9	318.6	33,800	42.7	330.6	25,900	260
265	27.2	289.9	40,000	34.7	311.4	32,100	40.8	324.8	24,400	265
270	24.3	279.0	38,200	32.4	303.5	30,500	38.8	318.5	23,000	270
275	20.9	266.3	36,400	30.0	294.9	28,900	36.8	311.8	21,600	275
280	16.9	250.7	34,700	27.3	285.3	27,400	34.6	304.6	20,000	280
285	11.4	229.1	32,900	24.4	274.5	25,900	32.3	296.7	18,300	285
290				21.1	261.9	24,400				290
295				17.1	246.5	23,000				295
300				11.8	225.4	21,500				300

# MLC650 S-2

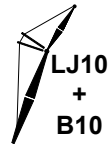
ASME B30.5



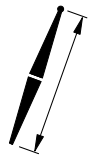
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
95	74.7	436.1	209,200						95	
100	73.6	434.6	208,600						100	
105	72.4	432.9	207,700						105	
110	71.2	431.2	206,900	72.7	432.6	205,300			110	
115	70.0	429.3	202,700	71.5	430.9	194,500			115	
120	68.7	427.3	191,500	70.3	429.1	183,600			120	
125	67.5	425.2	181,200	69.1	427.1	173,600			125	
130	66.3	423.0	171,700	67.9	425.0	164,400			130	
135	65.0	420.6	163,000	66.6	422.8	156,000	69.0	425.3	145,600	135
140	63.7	418.1	154,900	65.4	420.5	148,200	67.7	423.2	138,200	140
145	62.5	415.5	147,400	64.1	418.0	141,000	66.5	421.0	131,400	145
150	61.2	412.7	140,500	62.8	415.4	134,200	65.2	418.7	125,000	150
155	59.8	409.7	134,000	61.5	412.7	128,000	64.0	416.2	119,000	155
160	58.5	406.6	127,900	60.2	409.8	122,100	62.7	413.6	113,400	160
165	57.2	403.4	122,200	58.9	406.7	116,600	61.4	410.8	108,200	165
170	55.8	399.9	116,900	57.5	403.5	111,400	60.1	407.9	103,300	170
175	54.4	396.3	111,800	56.2	400.1	106,600	58.8	404.8	98,700	175
180	53.0	392.5	107,100	54.8	396.5	102,000	57.4	401.6	94,300	180
185	51.5	388.5	102,600	53.4	392.8	97,700	56.0	398.2	90,200	185
190	50.0	384.2	98,400	51.9	388.8	93,600	54.6	394.6	86,400	190
195	48.5	379.8	94,400	50.4	384.6	89,700	53.2	390.8	82,700	195
200	46.9	375.0	90,600	48.9	380.2	86,000	51.8	386.8	79,200	200
205	45.3	370.1	87,000	47.4	375.6	82,500	50.3	382.6	75,900	205
210	43.7	364.8	83,500	45.8	370.7	79,200	48.8	378.2	72,700	210
215	42.0	359.2	80,200	44.2	365.5	76,000	47.2	373.5	69,700	215
220	40.2	353.3	77,100	42.5	360.0	73,000	45.6	368.6	66,800	220
225	38.4	346.9	74,100	40.7	354.2	70,100	44.0	363.4	64,100	225
230	36.5	340.2	71,300	38.9	348.0	67,300	42.3	357.9	61,400	230
235	34.5	332.9	68,500	37.0	341.3	64,700	40.6	352.0	58,900	235
240	32.4	325.0	65,900	35.1	334.2	62,100	38.7	345.7	56,500	240
245	30.1	316.4	63,300	33.0	326.5	59,700	36.8	339.1	54,200	245
250	27.7	307.0	60,900	30.8	318.1	57,300	34.9	331.9	52,000	250
255	25.0	296.5	58,500	28.4	308.9	55,000	32.8	324.1	49,800	255
260	22.1	284.4	56,200	25.8	298.7	52,800	30.5	315.7	47,700	260
265	18.7	270.2	54,000	23.0	287.1	50,700	28.1	306.4	45,700	265
270	14.4	252.2	51,800	19.7	273.6	48,600	25.5	296.1	43,800	270
275	8.1	224.6	49,600	15.7	257.0	46,600	22.7	284.3	41,900	275
280				10.3	233.4	44,600	19.3	270.6	40,100	280
285							15.3	253.5	38,200	285
290							9.6	228.8	36,400	290
295										295
300										300

# MLC650 S-2

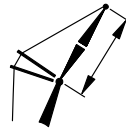
ASME B30.5



661,300 lb



183.7 ft

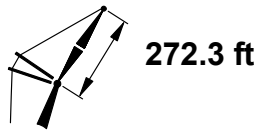
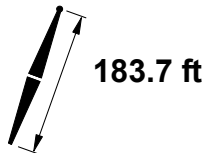
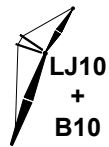


252.6 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	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	64.1	412.8	90,000							170
175	62.9	410.2	85,700							175
180	61.6	407.4	81,800							180
185	60.3	404.5	78,000							185
190	58.9	401.5	74,500							190
195	57.6	398.2	71,100							195
200	56.2	394.9	67,900							200
205	54.8	391.3	64,900	59.0	396.5	54,200				205
210	53.4	387.5	62,000	57.6	393.3	51,600				210
215	51.9	383.6	59,300	56.3	389.9	49,100				215
220	50.5	379.4	56,700	54.9	386.4	46,700				220
225	49.0	375.0	54,200	53.5	382.6	44,500				225
230	47.4	370.4	51,800	52.0	378.7	42,300				230
235	45.8	365.5	49,500	50.5	374.5	40,200	54.8	379.8	31,200	235
240	44.2	360.3	47,300	49.0	370.2	38,200	53.4	376.0	29,400	240
245	42.5	354.8	45,200	47.5	365.5	36,300	51.9	372.1	27,700	245
250	40.8	349.0	43,100	45.9	360.7	34,500	50.5	367.9	26,100	250
255	39.0	342.8	41,200	44.3	355.5	32,700	49.0	363.5	24,500	255
260	37.1	336.2	39,300	42.6	350.0	31,000	47.4	358.9	22,800	260
265	35.1	329.1	37,500	40.9	344.2	29,400	45.8	354.0	21,100	265
270	33.0	321.4	35,700	39.1	338.0	27,800	44.2	348.8	19,300	270
275	30.8	313.0	34,000	37.2	331.4	26,200				275
280	28.5	303.9	32,400	35.2	324.3	24,800				280
285	25.9	293.7	30,800	33.1	316.7	23,300				285
290	23.0	282.2	29,200	30.9	308.4	21,900				290
295	19.8	268.7	27,700	28.6	299.3	20,600				295
300	15.9	252.2	26,200	26.0	289.1	19,200				300

# MLC650 S-2

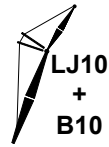
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
100	74.8	455.1	179,700						100	
105	73.7	453.6	179,100						105	
110	72.6	452.0	178,400						110	
115	71.5	450.3	177,700	72.9	451.7	176,500			115	
120	70.4	448.5	176,900	71.8	450.0	176,100			120	
125	69.2	446.5	176,000	70.7	448.2	171,400			125	
130	68.1	444.5	169,700	69.5	446.3	162,300			130	
135	66.9	442.3	161,000	68.4	444.3	153,900			135	
140	65.8	440.0	153,000	67.3	442.2	146,200	69.4	444.5	136,000	140
145	64.6	437.6	145,600	66.1	439.9	139,000	68.3	442.5	129,200	145
150	63.4	435.1	138,600	64.9	437.5	132,300	67.2	440.4	122,900	150
155	62.2	432.4	132,200	63.8	435.0	126,100	66.0	438.1	116,900	155
160	61.0	429.6	126,100	62.6	432.4	120,200	64.8	435.7	111,400	160
165	59.8	426.7	120,500	61.4	429.6	114,800	63.7	433.2	106,200	165
170	58.6	423.6	115,200	60.2	426.7	109,600	62.5	430.5	101,400	170
175	57.3	420.3	110,200	58.9	423.7	104,800	61.3	427.8	96,800	175
180	56.1	416.9	105,500	57.7	420.5	100,200	60.0	424.8	92,500	180
185	54.8	413.4	101,000	56.4	417.1	95,900	58.8	421.8	88,400	185
190	53.4	409.6	96,800	55.1	413.6	91,900	57.6	418.6	84,500	190
195	52.1	405.7	92,800	53.8	409.9	88,000	56.3	415.2	80,900	195
200	50.7	401.6	89,000	52.5	406.0	84,400	55.0	411.7	77,400	200
205	49.4	397.2	85,400	51.1	402.0	80,900	53.7	407.9	74,100	205
210	47.9	392.7	82,000	49.7	397.7	77,600	52.4	404.0	71,000	210
215	46.5	387.9	78,800	48.3	393.2	74,400	51.0	400.0	68,000	215
220	45.0	382.9	75,700	46.9	388.5	71,400	49.6	395.7	65,100	220
225	43.5	377.6	72,700	45.4	383.5	68,600	48.2	391.2	62,400	225
230	41.9	372.0	69,900	43.9	378.3	65,800	46.7	386.4	59,800	230
235	40.2	366.0	67,100	42.3	372.8	63,200	45.3	381.4	57,300	235
240	38.5	359.7	64,500	40.7	366.9	60,700	43.7	376.2	54,900	240
245	36.8	353.0	62,000	39.0	360.7	58,300	42.2	370.6	52,600	245
250	35.0	345.9	59,600	37.3	354.1	55,900	40.5	364.7	50,400	250
255	33.0	338.2	57,300	35.5	347.1	53,700	38.9	358.5	48,300	255
260	31.0	329.9	55,100	33.6	339.6	51,500	37.1	351.9	46,300	260
265	28.8	320.9	52,900	31.6	331.5	49,500	35.3	344.8	44,300	265
270	26.5	310.9	50,800	29.4	322.7	47,500	33.4	337.2	42,400	270
275	23.9	299.8	48,800	27.1	313.0	45,500	31.4	329.1	40,600	275
280	21.0	287.1	46,800	24.6	302.2	43,600	29.2	320.2	38,800	280
285	17.7	272.2	44,900	21.9	290.1	41,800	26.9	310.4	37,100	285
290	13.6	253.1	43,000	18.7	275.8	40,000	24.4	299.5	35,400	290
295	7.1	223.0	41,100	14.8	258.2	38,200	21.6	287.2	33,800	295
300				9.4	232.9	36,500	18.4	272.7	32,200	300
310							8.7	228.0	29,000	310
320										320

# MLC650 S-2

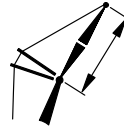
ASME B30.5



661,300 lb



183.7 ft

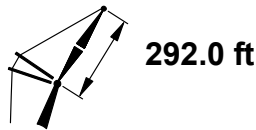
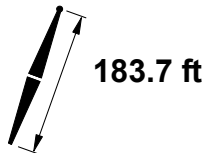
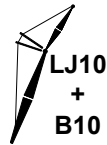


272.3 ft

	75°			70°			
	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	83,600				175
180	63.8	429.8	79,700				180
185	62.6	427.1	75,900				185
190	61.4	424.4	72,400				190
195	60.2	421.5	69,100				195
200	59.0	418.4	65,900				200
205	57.7	415.2	63,000				205
210	56.4	411.9	60,100				210
215	55.2	408.4	57,400	59.0	413.5	47,000	215
220	53.9	404.7	54,800	57.8	410.3	44,700	220
225	52.5	400.8	52,300	56.5	406.9	42,400	225
230	51.2	396.7	49,900	55.2	403.4	40,300	230
235	49.8	392.5	47,700	53.9	399.8	38,200	235
240	48.4	388.0	45,500	52.6	395.9	36,300	240
245	46.9	383.3	43,400	51.2	391.8	34,400	245
250	45.4	378.3	41,400	49.9	387.6	32,600	250
255	43.9	373.1	39,500	48.4	383.1	30,800	255
260	42.4	367.6	37,600	47.0	378.4	29,100	260
265	40.7	361.8	35,800	45.5	373.5	27,500	265
270	39.1	355.6	34,100	44.0	368.3	26,000	270
275	37.3	349.0	32,400	42.4	362.8	24,500	275
280	35.5	342.0	30,800	40.8	357.0	23,000	280
285	33.6	334.5	29,300	39.2	350.8	21,600	285
290	31.6	326.4	27,800	37.4	344.2	20,200	290
295	29.5	317.6	26,300	35.6	337.3	18,600	295
300	27.2	308.0	24,900				300
310	22.0	285.1	22,100				310
320	15.0	253.5	19,500				320

# MLC650 S-2

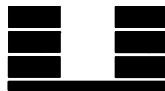
ASME B30.5



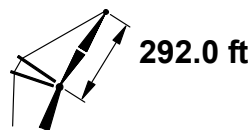
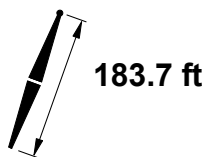
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
105	74.8	474.2	154,100						105	
110	73.8	472.7	153,400						110	
115	72.8	471.1	152,700						115	
120	71.7	469.4	151,900						120	
125	70.7	467.6	151,100	72.0	469.1	150,400			125	
130	69.6	465.7	150,300	71.0	467.3	149,900			130	
135	68.6	463.7	150,300	69.9	465.5	149,400			135	
140	67.5	461.6	148,500	68.9	463.5	143,000			140	
145	66.5	459.4	142,500	67.8	461.4	135,900	69.8	463.7	125,900	145
150	65.4	457.1	135,600	66.7	459.3	129,200	68.8	461.7	119,600	150
155	64.3	454.6	129,200	65.7	457.0	123,000	67.7	459.6	113,700	155
160	63.2	452.1	123,200	64.6	454.6	117,200	66.6	457.5	108,200	160
165	62.1	449.4	117,500	63.5	452.0	111,700	65.6	455.1	103,100	165
170	60.9	446.6	112,300	62.4	449.4	106,600	64.5	452.7	98,200	170
175	59.8	443.6	107,300	61.2	446.6	101,800	63.4	450.2	93,700	175
180	58.6	440.6	102,600	60.1	443.7	97,300	62.3	447.5	89,400	180
185	57.5	437.3	98,200	59.0	440.6	93,000	61.1	444.7	85,300	185
190	56.3	434.0	94,000	57.8	437.5	89,000	60.0	441.8	81,500	190
195	55.1	430.4	90,000	56.6	434.1	85,100	58.9	438.7	77,800	195
200	53.9	426.7	86,200	55.4	430.6	81,500	57.7	435.5	74,400	200
205	52.6	422.9	82,700	54.2	427.0	78,000	56.5	432.2	71,100	205
210	51.4	418.9	79,200	53.0	423.2	74,700	55.3	428.7	68,000	210
215	50.1	414.6	76,000	51.7	419.2	71,600	54.1	425.0	65,000	215
220	48.8	410.2	72,900	50.4	415.1	68,600	52.9	421.2	62,200	220
225	47.4	405.6	70,000	49.1	410.7	65,800	51.6	417.2	59,500	225
230	46.1	400.8	67,100	47.8	406.1	63,000	50.3	413.0	56,900	230
235	44.7	395.7	64,400	46.5	401.3	60,400	49.0	408.7	54,400	235
240	43.2	390.3	61,800	45.1	396.3	57,900	47.7	404.1	52,100	240
245	41.8	384.7	59,300	43.6	391.1	55,500	46.3	399.3	49,800	245
250	40.2	378.8	57,000	42.2	385.5	53,200	44.9	394.2	47,600	250
255	38.7	372.5	54,700	40.7	379.7	51,000	43.5	388.9	45,500	255
260	37.0	365.9	52,500	39.1	373.5	48,900	42.0	383.4	43,500	260
265	35.3	358.8	50,300	37.5	367.0	46,800	40.5	377.5	41,500	265
270	33.6	351.3	48,300	35.8	360.0	44,800	39.0	371.3	39,700	270
275	31.7	343.2	46,300	34.1	352.6	42,900	37.3	364.7	37,900	275
280	29.7	334.5	44,400	32.2	344.7	41,100	35.7	357.7	36,100	280
285	27.6	325.0	42,500	30.3	336.2	39,300	33.9	350.3	34,400	285
290	25.4	314.6	40,700	28.2	326.9	37,500	32.1	342.3	32,800	290
295	22.9	303.0	39,000	26.0	316.8	35,900	30.1	333.7	31,200	295
300	20.1	289.7	37,300	23.6	305.5	34,200	28.0	324.4	29,700	300
310	12.8	253.8	33,900	17.8	277.8	31,100	23.4	302.8	26,700	310
320				8.6	232.1	27,900	17.5	274.6	23,900	320
330							7.9	226.8	21,000	330

# MLC650 S-2

ASME B30.5



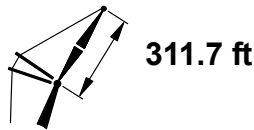
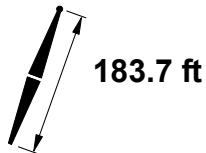
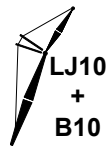
661,300 lb



	75°			70°			
	ft	ft	lb	ft	ft	lb	
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	72,700				185
190	63.5	446.8	69,200				190
195	62.4	444.1	65,900				195
200	61.3	441.3	62,700				200
205	60.1	438.4	59,800				205
210	59.0	435.4	56,900				210
215	57.8	432.2	54,200				215
220	56.7	428.9	51,700				220
225	55.5	425.4	49,200	59.1	430.4	39,100	225
230	54.3	421.8	46,800	57.9	427.3	37,000	230
235	53.0	418.0	44,600	56.7	424.0	35,000	235
240	51.8	414.0	42,400	55.5	420.5	33,000	240
245	50.5	409.8	40,400	54.3	416.9	31,200	245
250	49.2	405.5	38,400	53.1	413.1	29,400	250
255	47.9	400.9	36,500	51.8	409.1	27,700	255
260	46.5	396.2	34,600	50.6	404.9	26,000	260
265	45.1	391.1	32,900	49.3	400.6	24,400	265
270	43.7	385.9	31,200	47.9	396.1	22,900	270
275	42.2	380.3	29,500	46.6	391.3	21,100	275
280	40.7	374.5	27,900	45.2	386.3	19,400	280
285	39.2	368.3	26,400				285
290	37.6	361.8	24,900				290
295	35.9	354.9	23,500				295
300	34.1	347.5	22,100				300
310	30.4	331.1	19,400				310
320							320
330							330

# MLC650 S-2

ASME B30.5

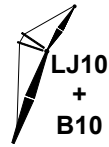


	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
110	74.9	493.2	133,100						110	
115	73.9	491.7	132,500						115	
120	72.9	490.2	131,800						120	
125	72.0	488.5	131,100						125	
130	71.0	486.7	130,300	72.2	488.2	129,700			130	
135	70.0	484.9	129,600	71.3	486.5	129,200			135	
140	69.0	482.9	128,800	70.3	484.6	128,600			140	
145	68.0	480.9	127,900	69.3	482.7	128,100			145	
150	67.0	478.7	127,100	68.3	480.7	127,300			150	
155	66.0	476.5	126,300	67.3	478.6	121,100	69.2	480.9	111,700	155
160	65.0	474.1	121,400	66.3	476.3	115,300	68.2	478.9	106,200	160
165	64.0	471.6	115,800	65.3	474.0	109,900	67.2	476.8	101,100	165
170	62.9	469.1	110,600	64.3	471.6	104,800	66.2	474.5	96,300	170
175	61.9	466.4	105,600	63.2	469.0	100,000	65.2	472.2	91,800	175
180	60.8	463.5	100,900	62.2	466.3	95,500	64.2	469.7	87,500	180
185	59.8	460.6	96,500	61.1	463.5	91,300	63.1	467.2	83,500	185
190	58.7	457.5	92,300	60.1	460.6	87,200	62.1	464.5	79,600	190
195	57.6	454.3	88,400	59.0	457.6	83,400	61.0	461.7	76,000	195
200	56.5	451.0	84,600	57.9	454.4	79,800	60.0	458.8	72,600	200
205	55.4	447.5	81,100	56.8	451.1	76,400	58.9	455.7	69,300	205
210	54.2	443.8	77,700	55.7	447.7	73,100	57.8	452.5	66,200	210
215	53.1	440.1	74,500	54.6	444.1	70,000	56.7	449.2	63,300	215
220	51.9	436.1	71,400	53.4	440.3	67,000	55.6	445.7	60,500	220
225	50.7	432.0	68,400	52.2	436.4	64,200	54.4	442.1	57,800	225
230	49.5	427.7	65,600	51.1	432.4	61,400	53.3	438.4	55,200	230
235	48.3	423.2	62,900	49.9	428.1	58,800	52.1	434.5	52,800	235
240	47.0	418.5	60,300	48.6	423.7	56,400	50.9	430.4	50,400	240
245	45.7	413.6	57,900	47.4	419.0	54,000	49.7	426.1	48,100	245
250	44.4	408.5	55,500	46.1	414.2	51,700	48.5	421.6	46,000	250
255	43.1	403.1	53,200	44.8	409.1	49,500	47.2	417.0	43,900	255
260	41.7	397.5	51,000	43.4	403.8	47,400	46.0	412.1	41,900	260
265	40.3	391.5	48,900	42.1	398.3	45,300	44.7	407.0	40,000	265
270	38.8	385.3	46,900	40.7	392.4	43,400	43.3	401.7	38,100	270
275	37.3	378.7	44,900	39.2	386.3	41,500	41.9	396.1	36,300	275
280	35.7	371.7	43,000	37.7	379.8	39,600	40.5	390.2	34,600	280
285	34.0	364.3	41,200	36.1	372.9	37,900	39.1	384.1	32,900	285
290	32.3	356.4	39,400	34.5	365.6	36,200	37.5	377.5	31,300	290
295	30.5	348.0	37,700	32.8	357.9	34,500	36.0	370.6	29,700	295
300	28.6	338.9	36,000	31.0	349.6	32,900	34.3	363.3	28,200	300
310	24.4	318.1	32,800	27.2	331.0	29,800	30.9	347.2	25,300	310
320	19.2	292.0	29,800	22.6	308.6	26,900	27.0	328.4	22,600	320
330	12.0	254.2	26,900	17.0	279.6	24,100	22.4	305.8	20,000	330
340				7.9	230.9	21,300				340

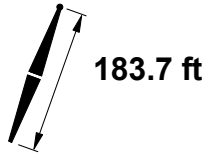


# MLC650 S-2

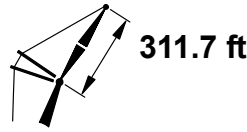
ASME B30.5



661,300 lb



183.7 ft

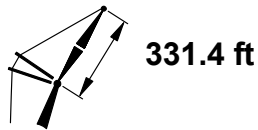
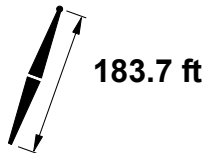
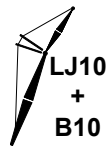


311.7 ft

	75°			70°			
	ft	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	64.3	466.3	63,900				195
200	63.3	463.7	60,700				200
205	62.2	461.1	57,800				205
210	61.2	458.3	55,000				210
215	60.1	455.4	52,300				215
220	59.0	452.3	49,700				220
225	57.9	449.2	47,300				225
230	56.8	445.9	45,000				230
235	55.7	442.4	42,700	59.1	447.4	33,000	235
240	54.6	438.9	40,600	58.0	444.2	31,000	240
245	53.4	435.1	38,600	56.9	440.9	29,200	245
250	52.3	431.2	36,600	55.8	437.5	27,400	250
255	51.1	427.1	34,700	54.7	433.9	25,700	255
260	49.9	422.9	32,900	53.5	430.2	24,100	260
265	48.7	418.5	31,100	52.3	426.3	22,200	265
270	47.4	413.8	29,400	51.2	422.3	20,300	270
275	46.1	409.0	27,800	50.0	418.0	18,500	275
280	44.8	403.9	26,200				280
285	43.5	398.6	24,700				285
290	42.1	393.1	23,300				290
295	40.7	387.3	21,900				295
300	39.2	381.1	20,500				300
310							310
320							320
330							330
340							340

# MLC650 S-2

ASME B30.5



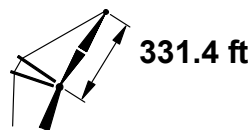
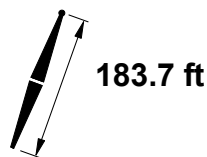
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
115	74.9	512.3	114,200						115	
120	74.0	510.8	113,600						120	
125	73.1	509.2	113,000						125	
130	72.2	507.6	112,200						130	
135	71.2	505.9	111,500	72.4	507.3	111,100			135	
140	70.3	504.0	110,800	71.5	505.6	110,400			140	
145	69.4	502.1	110,000	70.6	503.8	109,900			145	
150	68.5	500.1	109,300	69.7	501.9	109,300			150	
155	67.5	498.0	108,500	68.7	499.9	108,700			155	
160	66.6	495.8	107,800	67.8	497.8	108,100	69.6	500.1	103,100	160
165	65.6	493.5	107,000	66.9	495.7	107,000	68.6	498.1	98,000	165
170	64.7	491.1	106,200	65.9	493.4	101,900	67.7	496.0	93,200	170
175	63.7	488.6	102,800	64.9	491.0	97,100	66.8	493.9	88,700	175
180	62.7	486.0	98,100	64.0	488.6	92,700	65.8	491.6	84,500	180
185	61.8	483.3	93,700	63.0	486.0	88,400	64.9	489.2	80,500	185
190	60.8	480.5	89,600	62.0	483.3	84,400	63.9	486.7	76,700	190
195	59.8	477.5	85,600	61.0	480.5	80,600	62.9	484.1	73,100	195
200	58.7	474.5	81,900	60.0	477.6	77,000	61.9	481.4	69,700	200
205	57.7	471.3	78,400	59.0	474.6	73,600	60.9	478.6	66,400	205
210	56.7	468.0	75,000	58.0	471.4	70,300	59.9	475.7	63,300	210
215	55.6	464.5	71,800	57.0	468.1	67,200	58.9	472.7	60,400	215
220	54.6	460.9	68,700	55.9	464.7	64,200	57.9	469.5	57,600	220
225	53.5	457.2	65,800	54.9	461.2	61,400	56.9	466.2	54,900	225
230	52.4	453.3	63,000	53.8	457.5	58,700	55.8	462.8	52,400	230
235	51.3	449.3	60,300	52.7	453.6	56,100	54.8	459.2	49,900	235
240	50.2	445.1	57,700	51.6	449.6	53,600	53.7	455.5	47,600	240
245	49.0	440.7	55,200	50.5	445.5	51,300	52.6	451.6	45,300	245
250	47.8	436.1	52,900	49.3	441.1	49,000	51.5	447.6	43,200	250
255	46.6	431.4	50,600	48.2	436.6	46,800	50.4	443.5	41,100	255
260	45.4	426.4	48,400	47.0	431.9	44,700	49.2	439.1	39,100	260
265	44.2	421.3	46,300	45.8	427.0	42,700	48.0	434.6	37,200	265
270	42.9	415.9	44,300	44.5	421.9	40,700	46.9	429.9	35,400	270
275	41.6	410.2	42,400	43.3	416.6	38,800	45.6	425.0	33,600	275
280	40.3	404.3	40,500	42.0	411.0	37,000	44.4	419.8	31,900	280
285	38.9	398.1	38,700	40.6	405.2	35,300	43.1	414.5	30,200	285
290	37.5	391.5	36,900	39.3	399.0	33,600	41.8	408.9	28,600	290
295	36.0	384.6	35,200	37.9	392.6	31,900	40.5	403.0	27,100	295
300	34.5	377.3	33,500	36.4	385.8	30,300	39.1	396.8	25,600	300
310	31.2	361.4	30,400	33.3	371.0	27,300	36.3	383.5	22,700	310
320	27.6	343.0	27,400	29.9	354.3	24,500	33.2	368.7	20,000	320
330	23.5	321.4	24,600	26.2	334.9	21,800				330
340	18.4	294.1	21,900	21.8	311.6	19,200				340
350	11.4	254.4	19,300							350

# MLC650 S-2

ASME B30.5



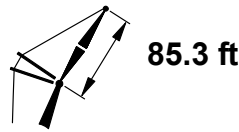
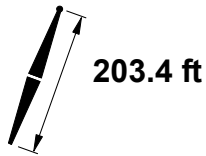
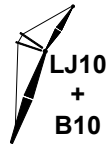
661,300 lb



ft	75°			70°			ft
	ft	ft	lb	ft	ft	lb	
115							115
120							120
125							125
130							130
135							135
140							140
145							145
150							150
155							155
160							160
165							165
170							170
175							175
180							180
185							185
190							190
195							195
200	65.0	485.8	57,600				200
205	64.0	483.3	54,700				205
210	63.0	480.7	51,900				210
215	62.1	478.0	49,200				215
220	61.1	475.2	46,700				220
225	60.1	472.3	44,300				225
230	59.1	469.3	42,000				230
235	58.0	466.2	39,700				235
240	57.0	462.9	37,600				240
245	56.0	459.5	35,600	59.1	464.4	26,000	245
250	54.9	455.9	33,600	58.1	461.2	23,900	250
255	53.8	452.2	31,800	57.1	457.9	21,800	255
260	52.7	448.4	30,000	56.0	454.5	19,900	260
265	51.6	444.4	28,200	54.9	451.0	18,000	265
270	50.5	440.3	26,500				270
275	49.4	435.9	24,900				275
280	48.2	431.4	23,400				280
285	47.0	426.7	21,900				285
290	45.8	421.8	20,200				290
295	44.6	416.7	18,400				295
300							300
310							310
320							320
330							330
340							340
350							350

# MLC650 S-2

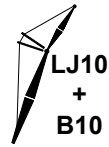
ASME B30.5



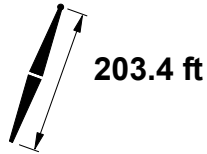
	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
55	73.1	293.5	485,700 d						55	
60	69.5	291.5	445,200 d						60	
65	65.8	289.1	404,800 c	71.0	291.5	402,900 d			65	
70	61.9	286.3	371,100 c	67.3	289.3	369,300 c			70	
75	57.9	283.1	342,600 b	63.6	286.7	340,900 c			75	
80	53.7	279.3	318,100	59.6	283.6	316,600 b	67.7	287.8	314,400 c	80
85	49.3	274.9	297,000	55.5	280.1	295,500 b	64.0	285.2	293,400 b	85
90	44.4	269.7	278,400	51.1	275.9	277,000	60.1	282.2	275,000 b	90
95	39.1	263.4	262,100	46.5	271.1	260,700	56.0	278.7	258,800 b	95
100	32.9	255.7	247,600	41.4	265.3	246,300	51.6	274.7	243,400	100
105	25.3	245.5	234,700	35.6	258.3	233,400	47.0	269.9	228,800	105
110	13.3	228.4	223,300	28.7	249.3	221,800	41.9	264.2	215,600	110
115				19.3	236.3	211,300	36.2	257.4	203,500	115
120							29.5	248.7	192,500	120
125							20.6	236.3	182,100	125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170
175										175

# MLC650 S-2

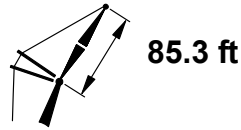
ASME B30.5



661,300 lb



203.4 ft

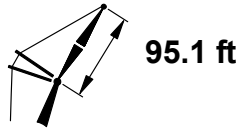
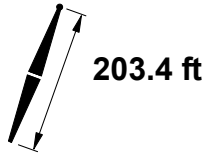
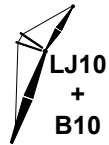


85.3 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.9	279.6	208,000 b							105
110	57.9	276.3	195,900 b							110
115	53.7	272.5	185,000 b							115
120	49.2	268.1	175,000							120
125	44.3	262.8	165,800	59.4	272.0	149,100				125
130	39.0	256.6	157,300	55.3	268.4	141,500				130
135	32.8	248.9	149,400	50.9	264.2	134,400				135
140	25.1	238.6	142,000	46.2	259.3	127,800				140
145	13.0	221.3	134,700	41.1	253.5	121,600				145
150				35.2	246.4	115,900	52.1	258.3	102,900	150
155				28.3	237.3	110,400	47.5	253.6	98,100	155
160				18.7	223.9	105,000	42.5	248.1	93,500	160
165							36.9	241.4	89,200	165
170							30.3	232.9	85,000	170
175							21.7	221.1	80,900	175

# MLC650 S-2

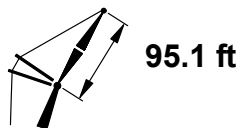
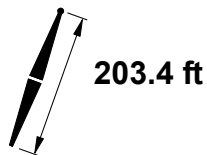
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	74.9	303.8	481,000 <b>d</b>						55	
60	71.7	302.1	445,200 <b>c</b>						60	
65	68.5	300.0	404,900 <b>c</b>						65	
70	65.1	297.6	371,200 <b>b</b>	69.8	300.1	369,500 <b>c</b>			70	
75	61.7	294.8	342,700 <b>b</b>	66.5	297.8	341,100 <b>b</b>			75	
80	58.1	291.6	318,300	63.1	295.1	316,800 <b>b</b>			80	
85	54.4	287.9	297,100	59.6	292.1	295,700 <b>b</b>	66.9	296.3	293,600 <b>b</b>	85
90	50.4	283.6	278,600	55.9	288.6	277,200	63.5	293.7	275,200 <b>b</b>	90
95	46.2	278.8	262,200	52.1	284.6	260,900	60.0	290.7	257,300 <b>b</b>	95
100	41.7	273.1	247,700	48.0	280.0	246,400	56.3	287.3	241,200	100
105	36.6	266.3	234,700	43.6	274.7	233,500	52.5	283.3	226,700	105
110	30.8	258.0	223,000	38.8	268.4	221,800	48.4	278.8	213,600	110
115	23.5	247.0	212,500	33.3	260.8	211,300	44.1	273.5	201,700	115
120	11.8	228.3	203,100	26.7	251.1	201,600	39.3	267.4	190,800	120
125				17.8	237.1	190,800	33.9	259.9	180,800	125
130							27.5	250.6	171,500	130
135							19.0	237.2	162,800	135
140									140	
145									145	
150									150	
155									155	
160									160	
165									165	
170									170	
175									175	
180									180	
185									185	

# MLC650 S-2

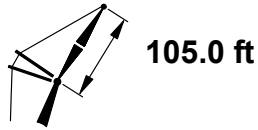
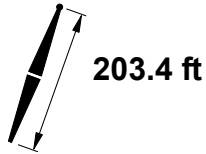
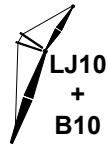
ASME B30.5



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	193,400							110
115	58.0	284.8	182,500							115
120	54.3	281.1	172,600							120
125	50.4	276.8	163,600							125
130	46.1	271.9	155,200	59.4	280.4	138,900				130
135	41.6	266.2	147,500	55.7	276.9	131,900				135
140	36.5	259.4	140,300	51.9	272.9	125,400				140
145	30.6	251.1	133,500	47.8	268.3	119,400				145
150	23.3	240.0	127,100	43.4	262.9	113,700				150
155	11.5	221.0	120,800	38.5	256.5	108,400	52.9	267.0	95,600	155
160				33.0	248.9	103,400	48.9	262.5	91,100	160
165				26.3	239.0	98,600	44.6	257.3	86,900	165
170				17.1	224.6	93,900	39.8	251.3	82,900	170
175							34.5	244.0	79,100	175
180							28.3	234.9	75,500	180
185							20.1	222.2	71,900	185

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60	73.5	312.5	444,700 c						60	
65	70.6	310.7	404,500 c						65	
70	67.6	308.5	371,000 b	71.8	310.6	369,200 c			70	
75	64.6	306.1	342,500 b	68.9	308.6	340,900 b			75	
80	61.5	303.3	318,100 b	65.9	306.3	316,600 b			80	
85	58.2	300.1	297,000	62.8	303.6	295,500 b	69.2	307.1	293,500 b	85
90	54.9	296.4	278,400	59.6	300.6	277,100	66.2	304.8	273,900 b	90
95	51.4	292.4	262,100	56.3	297.1	260,800	63.1	302.2	255,800 b	95
100	47.6	287.7	247,600	52.8	293.3	246,300	59.9	299.2	239,800	100
105	43.6	282.4	234,600	49.2	288.8	233,400	56.6	295.8	225,400	105
110	39.3	276.2	222,900	45.3	283.8	221,700	53.2	292.0	212,400	110
115	34.5	268.9	212,300	41.2	278.0	211,200	49.6	287.6	200,600	115
120	28.9	260.0	202,700	36.6	271.3	201,000	45.8	282.7	189,800	120
125	22.0	248.3	194,000	31.4	263.1	190,500	41.6	277.0	179,900	125
130	10.5	227.9	186,200	25.1	252.8	180,900	37.1	270.3	170,800	130
135				16.4	237.7	171,700	32.0	262.3	162,400	135
140							25.8	252.3	154,500	140
145							17.6	238.0	147,000	145
150									150	
155									155	
160									160	
165									165	
170									170	
175									175	
180									180	
185									185	
190									190	
195									195	

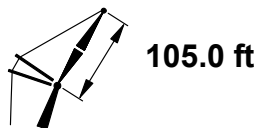
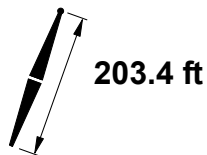


# MLC650 S-2

ASME B30.5



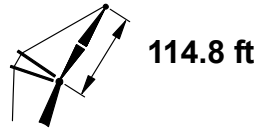
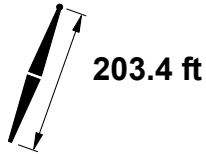
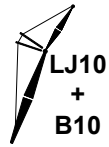
661,300 lb



ft	75°			70°			65°			ft
	ft	lb	lb	ft	lb	lb	ft	lb	lb	
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	191,800							110
115	61.4	296.5	181,100							115
120	58.2	293.3	171,200							120
125	54.8	289.7	162,300							125
130	51.3	285.6	154,000							130
135	47.6	280.9	146,400	59.4	288.9	130,400				135
140	43.6	275.6	139,300	56.1	285.5	124,000				140
145	39.2	269.4	132,700	52.6	281.6	118,100				145
150	34.4	262.1	126,500	49.0	277.1	112,500				150
155	28.8	253.1	120,700	45.1	272.1	107,300				155
160	21.8	241.3	115,100	40.9	266.2	102,400	53.6	275.6	89,700	160
165	10.2	220.6	109,600	36.3	259.4	97,800	50.0	271.3	85,600	165
170				31.1	251.1	93,400	46.2	266.4	81,700	170
175				24.7	240.6	89,200	42.1	260.8	78,000	175
180				15.8	225.1	85,000	37.6	254.3	74,500	180
185							32.5	246.4	71,200	185
190							26.6	236.7	67,900	190
195							18.6	223.1	64,700	195

# MLC650 S-2

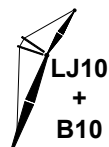
ASME B30.5



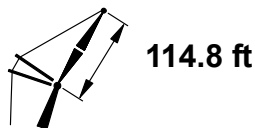
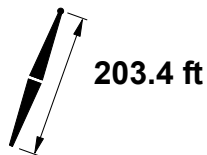
	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
60	75.0	322.9	441,800 c						60	
65	72.4	321.2	404,600 b						65	
70	69.7	319.3	371,100 b						70	
75	67.0	317.1	342,700 b	70.8	319.3	341,100 b			75	
80	64.2	314.6	318,300	68.1	317.2	316,800 b			80	
85	61.3	311.7	297,100	65.3	314.8	295,700			85	
90	58.4	308.6	278,600	62.5	312.1	277,300	68.4	315.7	271,200	90
95	55.3	305.0	262,300	59.6	309.1	261,000	65.6	313.3	253,300	95
100	52.1	301.0	247,700	56.6	305.7	246,500	62.8	310.6	237,300	100
105	48.8	296.6	234,700	53.4	301.9	233,500	59.9	307.7	223,000	105
110	45.2	291.5	223,000	50.2	297.6	221,900	56.9	304.3	210,100	110
115	41.4	285.8	212,400	46.7	292.8	210,400	53.8	300.6	198,400	115
120	37.3	279.2	202,800	43.0	287.4	199,200	50.5	296.3	187,700	120
125	32.7	271.4	194,000	39.1	281.2	188,800	47.1	291.6	177,900	125
130	27.3	261.9	186,000	34.7	273.9	179,300	43.4	286.3	168,900	130
135	20.6	249.4	177,000	29.7	265.3	170,500	39.5	280.2	160,600	135
140	9.3	227.3	168,100	23.7	254.3	162,200	35.2	273.0	152,900	140
145				15.2	238.2	154,400	30.3	264.6	145,600	145
150							24.4	253.9	138,900	150
155							16.4	238.6	132,400	155
160									160	
165									165	
170									170	
175									175	
180									180	
185									185	
190									190	
195									195	
200									200	
205									205	

# MLC650 S-2

ASME B30.5



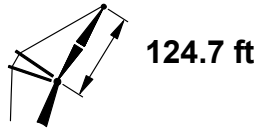
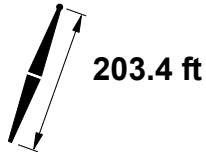
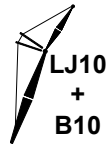
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	178,500							115
120	61.3	305.0	168,700							120
125	58.3	301.8	159,800							125
130	55.2	298.2	151,600							130
135	52.1	294.2	144,100							135
140	48.7	289.8	137,100	59.4	297.4	121,500				140
145	45.2	284.7	130,600	56.4	294.0	115,600				145
150	41.4	279.0	124,500	53.3	290.2	110,100				150
155	37.2	272.3	118,800	50.0	285.9	105,000				155
160	32.6	264.6	113,400	46.5	281.1	100,200				160
165	27.3	255.0	108,300	42.8	275.6	95,600	54.1	284.2	83,100	165
170	20.5	242.5	103,400	38.8	269.3	91,400	50.9	280.0	79,300	170
175	9.0	219.9	98,500	34.4	262.0	87,300	47.5	275.3	75,700	175
180				29.4	253.3	83,400	43.8	270.1	72,200	180
185				23.3	242.1	79,700	39.9	264.0	69,000	185
190				14.6	225.5	76,000	35.7	257.0	65,900	190
195							30.8	248.7	62,900	195
200							25.1	238.4	60,000	200
205							17.4	223.8	57,100	205

# MLC650 S-2

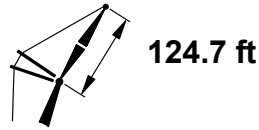
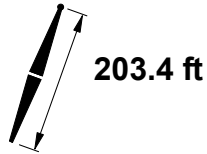
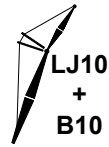
ASME B30.5



	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
65	73.8	331.6	403,700 b						65	
70	71.4	329.9	370,300 b						70	
75	68.9	327.8	342,000 b	72.4	329.8	340,400 b			75	
80	66.4	325.6	317,700	69.9	327.9	316,200 b			80	
85	63.8	323.0	296,600	67.4	325.7	295,200			85	
90	61.2	320.2	278,200	64.9	323.3	276,800			90	
95	58.4	317.0	261,800	62.3	320.6	260,600	67.7	324.2	253,000	
100	55.6	313.5	247,300	59.6	317.5	246,100	65.1	321.8	237,100	
105	52.7	309.7	234,300	56.8	314.2	233,200	62.5	319.1	222,800	
110	49.7	305.3	222,600	53.9	310.5	221,500	59.9	316.1	210,000	
115	46.5	300.5	212,100	51.0	306.3	210,500	57.1	312.8	198,300	
120	43.1	295.1	202,400	47.8	301.7	199,300	54.3	309.1	187,700	
125	39.5	289.0	193,600	44.5	296.6	189,000	51.3	305.0	178,000	
130	35.5	282.0	185,600	41.0	290.8	179,600	48.2	300.5	169,000	
135	31.1	273.8	177,600	37.2	284.2	170,900	44.9	295.4	160,800	
140	26.0	263.7	169,200	33.0	276.5	162,800	41.4	289.7	153,100	
145	19.5	250.5	161,300	28.2	267.3	155,200	37.6	283.2	146,000	
150	8.2	226.5	153,600	22.4	255.7	148,100	33.5	275.6	139,400	
155				14.2	238.5	141,400	28.8	266.6	133,100	
160							23.1	255.3	127,200	
165							15.3	239.1	121,600	
170									170	
175									175	
180									180	
185									185	
190									190	
195									195	
200									200	
205									205	
210									210	
215									215	

# MLC650 S-2

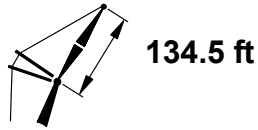
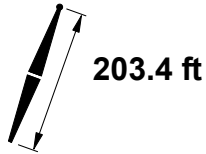
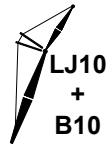
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	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	168,600						120	
125	61.1	313.4	159,700						125	
130	58.4	310.3	151,600						130	
135	55.6	306.8	144,100						135	
140	52.7	302.9	137,100						140	
145	49.6	298.5	130,700	59.4	305.9	115,500			145	
150	46.4	293.7	124,600	56.7	302.5	110,100			150	
155	43.1	288.3	119,000	53.8	298.8	105,000			155	
160	39.4	282.2	113,700	50.8	294.6	100,200			160	
165	35.5	275.1	108,700	47.7	290.0	95,800			165	
170	31.0	266.9	104,000	44.4	284.8	91,600	54.6	292.7	79,300	170
175	25.9	256.8	99,600	40.8	279.0	87,600	51.6	288.7	75,700	175
180	19.3	243.5	95,200	37.0	272.3	83,800	48.5	284.2	72,300	180
185	7.8	219.0	90,800	32.8	264.5	80,200	45.3	279.2	69,100	185
190				27.9	255.3	76,700	41.8	273.5	66,100	190
195				22.0	243.5	73,400	38.1	267.1	63,200	195
200				13.6	225.7	70,000	34.0	259.7	60,400	200
205							29.3	250.9	57,700	205
210							23.8	239.9	55,100	210
215							16.3	224.5	52,500	215

# MLC650 S-2

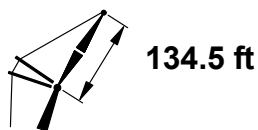
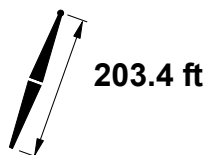
ASME B30.5



ft	85°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft		
70	72.8	340.3	370,500 b						70	
75	70.5	338.5	342,200						75	
80	68.2	336.4	317,900	71.5	338.4	316,400			80	
85	65.9	334.1	296,800	69.2	336.4	295,400			85	
90	63.5	331.5	278,400	66.9	334.2	277,000			90	
95	61.0	328.7	262,000	64.5	331.8	260,800	69.4	334.9	250,400	95
100	58.5	325.5	247,500	62.1	329.0	246,300	67.1	332.7	234,600	100
105	55.9	322.1	234,500	59.6	326.0	233,400	64.7	330.3	220,400	105
110	53.3	318.3	222,800	57.0	322.7	220,700	62.3	327.6	207,600	110
115	50.5	314.1	212,200	54.4	319.0	208,400	59.8	324.6	196,100	115
120	47.6	309.4	202,600	51.6	315.0	197,300	57.3	321.3	185,500	120
125	44.5	304.3	193,800	48.8	310.5	187,100	54.7	317.7	175,800	125
130	41.3	298.5	184,900	45.8	305.6	177,700	51.9	313.7	166,900	130
135	37.8	292.0	176,000	42.6	300.1	169,100	49.1	309.3	158,800	135
140	34.0	284.6	167,700	39.3	294.0	161,100	46.1	304.4	151,200	140
145	29.7	275.9	159,900	35.6	287.0	153,600	43.0	299.0	144,100	145
150	24.7	265.4	152,700	31.5	278.9	146,600	39.6	292.9	137,500	150
155	18.4	251.4	145,800	26.9	269.2	140,100	36.0	286.0	131,400	155
160	7.1	225.3	139,100	21.3	256.9	133,900	32.0	278.1	125,600	160
165				13.2	238.7	128,000	27.4	268.6	120,200	165
170							21.9	256.7	115,000	170
175							14.3	239.5	110,000	175
180										180
185										185
190										190
195										195
200										200
205										205
210										210
215										215
220										220
225										225

# MLC650 S-2

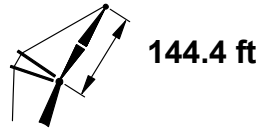
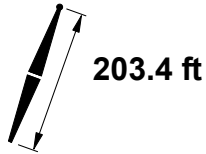
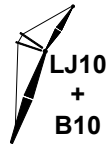
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	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	157,300						125	
130	61.0	321.9	149,200						130	
135	58.5	318.8	141,700						135	
140	55.9	315.3	134,800						140	
145	53.2	311.5	128,400						145	
150	50.4	307.3	122,400	59.4	314.4	107,600			150	
155	47.5	302.6	116,900	56.9	311.0	102,600			155	
160	44.5	297.5	111,700	54.2	307.3	97,900			160	
165	41.2	291.7	106,700	51.5	303.3	93,400			165	
170	37.7	285.2	102,100	48.6	298.8	89,300			170	
175	33.9	277.8	97,700	45.6	293.9	85,400	54.9	301.3	73,200	175
180	29.6	269.1	93,600	42.5	288.3	81,600	52.2	297.3	69,900	180
185	24.6	258.5	89,600	39.1	282.1	78,100	49.4	293.0	66,800	185
190	18.3	244.4	85,700	35.4	275.1	74,800	46.5	288.2	63,800	190
195	6.7	217.7	81,700	31.3	266.9	71,500	43.3	282.8	60,900	195
200				26.6	257.1	68,500	40.0	276.8	58,200	200
205				20.9	244.7	65,400	36.4	270.0	55,600	205
210				12.6	225.9	62,400	32.4	262.1	53,100	210
215							28.0	252.9	50,700	215
220							22.6	241.3	48,300	220
225							15.3	225.0	45,900	225

# MLC650 S-2

ASME B30.5

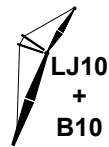


	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
70	74.0	350.7	370,200 b						70	
75	71.9	349.0	342,000						75	
80	69.8	347.1	317,800	72.8	348.9	316,300			80	
85	67.6	344.9	296,700	70.7	347.0	295,300			85	
90	65.4	342.6	278,300	68.5	345.0	276,900			90	
95	63.2	340.0	262,000	66.4	342.7	260,700			95	
100	60.9	337.1	247,500	64.1	340.2	246,300	68.8	343.5	232,800	100
105	58.6	334.0	234,500	61.9	337.5	232,500	66.6	341.2	218,700	105
110	56.2	330.6	222,800	59.6	334.5	219,100	64.4	338.8	205,900	110
115	53.7	326.9	212,200	57.2	331.2	206,900	62.1	336.1	194,400	115
120	51.1	322.8	202,500	54.7	327.6	195,800	59.8	333.1	183,900	120
125	48.5	318.3	193,300	52.2	323.6	185,600	57.4	329.8	174,300	125
130	45.7	313.3	183,600	49.6	319.3	176,300	55.0	326.2	165,400	130
135	42.7	307.8	174,700	46.9	314.6	167,700	52.5	322.3	157,300	135
140	39.6	301.8	166,500	44.0	309.3	159,800	49.9	318.1	149,700	140
145	36.3	294.9	158,800	40.9	303.5	152,400	47.2	313.3	142,700	145
150	32.6	287.1	151,600	37.7	297.0	145,500	44.3	308.2	136,200	150
155	28.5	278.0	144,900	34.1	289.6	139,000	41.3	302.4	130,100	155
160	23.6	266.9	138,600	30.2	281.1	132,900	38.0	296.0	124,400	160
165	17.5	252.2	132,600	25.7	271.0	127,200	34.5	288.7	119,000	165
170	6.0	223.8	126,700	20.3	258.1	121,800	30.7	280.4	113,900	170
175				12.4	238.8	116,500	26.3	270.4	109,100	175
180							20.9	257.9	104,500	180
185							13.5	239.8	100,100	185
190										190
195										195
200										200
205										205
210										210
215										215
220										220
225										225
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235										235

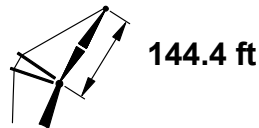
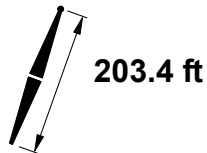


# MLC650 S-2

ASME B30.5



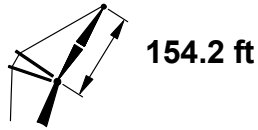
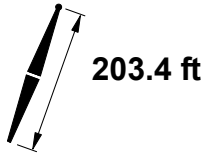
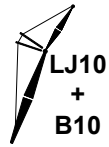
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	333.2	147,500							135
140	60.9	330.4	140,000							140
145	58.5	327.2	133,200							145
150	56.1	323.8	126,800							150
155	53.7	320.1	120,900							155
160	51.1	316.0	115,400	59.4	322.8	100,900				160
165	48.4	311.5	110,200	57.1	319.5	96,200				165
170	45.6	306.5	105,300	54.6	315.9	91,900				170
175	42.7	301.0	100,700	52.1	311.9	87,700				175
180	39.6	294.9	96,400	49.4	307.6	83,800				180
185	36.2	288.1	92,300	46.7	302.8	80,200				185
190	32.5	280.3	88,400	43.8	297.5	76,700	52.8	306.0	65,200	190
195	28.4	271.1	84,700	40.8	291.7	73,400	50.2	301.7	62,200	195
200	23.5	260.0	81,200	37.5	285.1	70,200	47.4	297.1	59,400	200
205	17.3	245.2	77,700	33.9	277.7	67,200	44.6	291.9	56,700	205
210	5.5	215.9	74,100	30.0	269.1	64,300	41.6	286.2	54,200	210
215				25.5	258.9	61,500	38.4	279.9	51,700	215
220				19.9	245.8	58,800	34.9	272.7	49,400	220
225				11.8	225.9	56,100	31.1	264.5	47,100	225
230							26.8	254.8	44,900	230
235							21.6	242.6	42,800	235
240							14.5	225.5	40,600	240

# MLC650 S-2

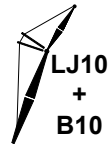
ASME B30.5



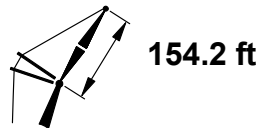
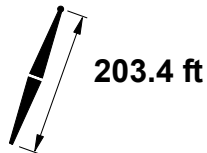
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
75	73.1	359.4	342,200						75	
80	71.1	357.6	317,900						80	
85	69.2	355.7	296,900	72.0	357.5	295,500			85	
90	67.1	353.5	278,500	70.0	355.6	277,200			90	
95	65.1	351.1	262,200	68.0	353.5	260,900			95	
100	63.0	348.5	247,700	65.9	351.2	245,100			100	
105	60.8	345.6	234,700	63.8	348.7	230,300	68.2	352.0	216,300	105
110	58.6	342.5	223,000	61.7	346.0	216,900	66.1	349.8	203,600	110
115	56.4	339.1	212,400	59.6	343.0	204,800	64.1	347.3	192,100	115
120	54.1	335.4	201,900	57.3	339.7	193,800	62.0	344.5	181,600	120
125	51.7	331.4	191,400	55.1	336.1	183,700	59.8	341.6	172,100	125
130	49.2	327.0	181,800	52.7	332.3	174,400	57.6	338.3	163,300	130
135	46.7	322.3	172,900	50.3	328.0	165,800	55.3	334.8	155,200	135
140	44.0	317.0	164,700	47.8	323.4	157,900	53.0	330.9	147,700	140
145	41.2	311.3	157,100	45.1	318.4	150,500	50.5	326.8	140,700	145
150	38.1	304.9	150,000	42.3	312.9	143,700	48.0	322.2	134,200	150
155	34.9	297.7	143,400	39.4	306.7	137,300	45.4	317.2	128,200	155
160	31.3	289.5	137,100	36.3	299.9	131,300	42.6	311.7	122,500	160
165	27.3	280.0	131,300	32.8	292.2	125,600	39.7	305.7	117,200	165
170	22.6	268.4	125,700	29.0	283.3	120,300	36.6	298.9	112,200	170
175	16.6	253.0	120,400	24.7	272.6	115,300	33.2	291.3	107,400	175
180	4.8	221.6	115,100	19.3	259.2	110,500	29.5	282.5	103,000	180
185				11.6	238.8	105,800	25.2	272.1	98,700	185
190							20.0	259.1	94,600	190
195							12.7	240.0	90,600	195
200										200
205										205
210										210
215										215
220										220
225										225
230										230
235										235
240										240
245										245

# MLC650 S-2

ASME B30.5



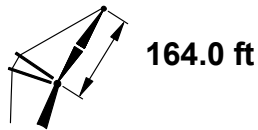
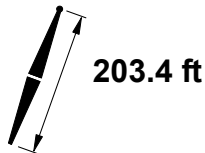
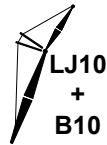
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	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	62.9	341.7	137,700							135
140	60.8	338.8	130,800							140
145	58.6	335.7	124,500							145
150	56.4	332.3	118,600							150
155	54.1	328.6	113,200							155
160	51.7	324.6	108,000	59.4	331.3	93,800				160
165	49.2	320.2	103,200	57.2	328.0	89,500				165
170	46.6	315.5	98,700	54.9	324.4	85,400				170
175	43.9	310.2	94,400	52.6	320.6	81,500				175
180	41.1	304.4	90,300	50.1	316.3	77,900				180
185	38.1	298.0	86,500	47.6	311.7	74,500				185
190	34.8	290.8	82,900	45.0	306.6	71,200	53.2	314.6	59,800	190
195	31.3	282.6	79,400	42.2	301.1	68,100	50.8	310.4	57,000	195
200	27.3	273.1	76,100	39.2	294.9	65,200	48.3	305.9	54,400	200
205	22.5	261.4	72,900	36.1	288.0	62,300	45.7	301.0	51,900	205
210	16.5	245.9	69,700	32.7	280.2	59,600	42.9	295.5	49,500	210
215	4.2	213.2	66,400	28.8	271.3	57,000	40.0	289.5	47,200	215
220				24.4	260.5	54,500	37.0	282.9	45,000	220
225				19.0	246.8	52,000	33.6	275.4	42,900	225
230				11.0	225.8	49,500	29.9	266.7	40,800	230
235							25.7	256.5	38,800	235
240							20.6	243.8	36,800	240
245							13.6	225.8	34,800	245

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
75	74.2	369.7	341,800						75	
80	72.3	368.1	317,600						80	
85	70.5	366.2	296,600						85	
90	68.6	364.2	278,200	71.2	366.2	276,900			90	
95	66.7	362.0	262,000	69.4	364.2	260,700			95	
100	64.7	359.6	247,500	67.5	362.1	244,300			100	
105	62.8	356.9	234,500	65.5	359.8	229,500	69.6	362.7	215,400	105
110	60.7	354.1	222,800	63.6	357.2	216,200	67.7	360.6	202,700	110
115	58.7	351.0	212,200	61.6	354.4	204,100	65.7	358.3	191,300	115
120	56.6	347.6	201,300	59.6	351.4	193,100	63.8	355.8	180,900	120
125	54.4	344.0	190,900	57.5	348.2	183,000	61.8	353.0	171,300	125
130	52.2	340.0	181,300	55.3	344.7	173,800	59.8	350.0	162,600	130
135	49.9	335.8	172,400	53.1	340.9	165,200	57.7	346.8	154,500	135
140	47.5	331.1	164,300	50.9	336.7	157,300	55.6	343.3	147,000	140
145	45.1	326.1	156,700	48.5	332.3	150,000	53.4	339.5	140,100	145
150	42.5	320.6	149,600	46.1	327.4	143,200	51.1	335.4	133,700	150
155	39.7	314.5	143,000	43.5	322.1	136,800	48.8	331.0	127,600	155
160	36.8	307.8	136,800	40.9	316.2	130,900	46.4	326.2	122,000	160
165	33.6	300.3	131,000	38.0	309.8	125,300	43.8	320.9	116,700	165
170	30.2	291.8	125,600	35.0	302.7	120,000	41.2	315.2	111,700	170
175	26.3	281.8	120,400	31.7	294.6	115,100	38.3	308.8	107,100	175
180	21.7	269.7	115,500	28.0	285.3	110,400	35.3	301.7	102,600	180
185	15.8	253.6	110,700	23.7	274.2	105,900	32.0	293.8	98,400	185
190	3.2	217.9	105,900	18.5	260.1	101,600	28.4	284.6	94,400	190
195				10.8	238.7	97,300	24.2	273.8	90,600	195
200							19.1	260.1	86,900	200
205							11.9	240.0	83,300	205
210										210
215										215
220										220
225										225
230										230
235										235
240										240
245										245
250										250
255										255

# MLC650 S-2

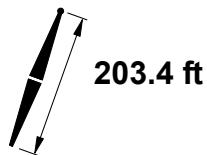
ASME B30.5



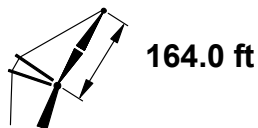
661,300 lb



360°



203.4 ft

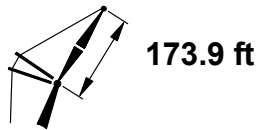
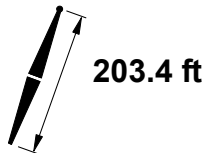
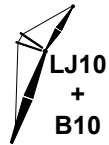


164.0 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	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	64.7	352.8	136,800							135
140	62.7	350.2	130,100							140
145	60.7	347.3	123,800							145
150	58.7	344.2	117,900							150
155	56.6	340.8	112,500							155
160	54.4	337.2	107,300							160
165	52.2	333.3	102,600	59.4	339.8	88,700				165
170	49.9	329.0	98,000	57.4	336.5	84,600				170
175	47.5	324.3	93,800	55.2	333.0	80,800				175
180	45.0	319.3	89,800	53.0	329.2	77,200				180
185	42.4	313.8	86,000	50.8	325.0	73,800				185
190	39.7	307.7	82,400	48.4	320.5	70,600				190
195	36.7	301.0	79,000	46.0	315.6	67,500	53.6	323.1	56,300	195
200	33.6	293.5	75,700	43.4	310.3	64,600	51.4	319.1	53,700	200
205	30.1	284.9	72,600	40.7	304.4	61,800	49.0	314.7	51,200	205
210	26.2	274.9	69,600	37.9	298.0	59,100	46.6	309.9	48,800	210
215	21.6	262.8	66,700	34.8	290.8	56,600	44.1	304.7	46,600	215
220	15.7	246.6	63,900	31.5	282.6	54,100	41.4	299.0	44,400	220
225				27.8	273.3	51,800	38.6	292.7	42,300	225
230				23.5	262.1	49,500	35.6	285.7	40,300	230
235				18.2	247.8	47,200	32.4	277.9	38,400	235
240				10.2	225.5	44,900	28.8	268.9	36,500	240
245							24.7	258.2	34,700	245
250							19.7	245.0	32,900	250
255							12.9	226.0	31,000	255

# MLC650 S-2

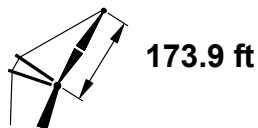
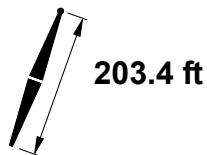
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
80	73.4	378.5	317,800						80	
85	71.6	376.8	296,800						85	
90	69.9	374.9	278,400	72.3	376.6	276,900			90	
95	68.1	372.8	262,200	70.6	374.8	258,500			95	
100	66.3	370.5	247,700	68.8	372.8	242,000			100	
105	64.4	368.1	234,700	67.0	370.6	227,300			105	
110	62.6	365.4	223,000	65.2	368.3	214,000	69.0	371.3	200,400	110
115	60.7	362.6	210,700	63.4	365.7	202,000	67.2	369.1	189,000	115
120	58.7	359.5	199,400	61.5	362.9	191,000	65.4	366.8	178,600	120
125	56.8	356.1	189,000	59.5	359.9	181,000	63.6	364.2	169,100	125
130	54.7	352.5	179,400	57.6	356.7	171,800	61.7	361.5	160,400	130
135	52.6	348.7	170,600	55.6	353.2	163,300	59.8	358.5	152,400	135
140	50.5	344.5	162,500	53.5	349.4	155,400	57.8	355.3	144,900	140
145	48.3	340.0	154,900	51.4	345.4	148,100	55.8	351.8	138,000	145
150	46.0	335.1	147,900	49.2	341.0	141,300	53.7	348.1	131,600	150
155	43.6	329.8	141,300	46.9	336.3	135,000	51.6	344.1	125,600	155
160	41.1	324.0	135,200	44.6	331.2	129,100	49.4	339.8	120,000	160
165	38.4	317.7	129,400	42.1	325.6	123,500	47.2	335.1	114,800	165
170	35.6	310.7	124,000	39.5	319.5	118,300	44.8	330.0	109,800	170
175	32.5	302.8	118,800	36.8	312.8	113,400	42.4	324.5	105,200	175
180	29.1	293.9	114,000	33.8	305.3	108,700	39.8	318.4	100,800	180
185	25.4	283.6	109,400	30.6	296.9	104,300	37.1	311.8	96,600	185
190	20.9	271.0	105,000	27.0	287.2	100,100	34.1	304.4	92,700	190
195	15.1	254.2	100,800	22.9	275.7	96,100	30.9	296.1	88,900	195
200				17.7	261.0	92,200	27.4	286.6	85,300	200
205				10.1	238.4	88,400	23.3	275.3	81,900	205
210							18.4	261.1	78,600	210
215							11.2	240.0	75,300	215
220										220
225										225
230										230
235										235
240										240
245										245
250										250
255										255
260										260
265										265

# MLC650 S-2

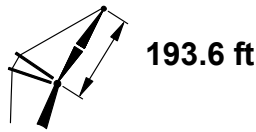
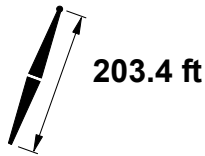
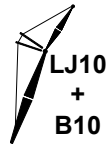
ASME B30.5



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140	64.4	361.3	127,700							140
145	62.5	358.7	121,400							145
150	60.6	355.8	115,600							150
155	58.7	352.7	110,200							155
160	56.7	349.3	105,100							160
165	54.7	345.7	100,400							165
170	52.6	341.9	95,900	59.4	348.3	82,200				170
175	50.5	337.7	91,700	57.5	345.0	78,500				175
180	48.2	333.2	87,700	55.5	341.5	74,900				180
185	45.9	328.3	84,000	53.4	337.8	71,500				185
190	43.5	323.0	80,400	51.3	333.7	68,300				190
195	41.0	317.2	77,000	49.1	329.3	65,300				195
200	38.4	310.8	73,800	46.8	324.5	62,400	54.0	331.7	51,300	200
205	35.5	303.8	70,700	44.5	319.4	59,700	51.9	327.7	48,900	205
210	32.5	296.0	67,800	42.0	313.8	57,000	49.7	323.4	46,500	210
215	29.1	287.1	65,000	39.4	307.7	54,500	47.4	318.8	44,300	215
220	25.3	276.7	62,300	36.6	300.9	52,100	45.1	313.7	42,200	220
225	20.8	264.0	59,600	33.6	293.4	49,800	42.7	308.3	40,100	225
230	15.0	247.1	57,000	30.4	284.9	47,600	40.1	302.3	38,200	230
235				26.8	275.2	45,400	37.4	295.7	36,300	235
240				22.6	263.5	43,300	34.5	288.4	34,500	240
245				17.4	248.6	41,300	31.3	280.2	32,700	245
250				9.5	225.1	39,100	27.8	270.9	31,000	250
255							23.8	259.8	29,300	255
260							19.0	246.0	27,600	260
265							12.2	226.1	25,900	265

# MLC650 S-2

ASME B30.5

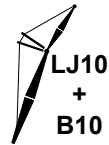


	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
85	73.6	397.5	295,600						85	
90	72.0	395.9	277,200						90	
95	70.4	394.0	261,000	72.7	395.7	255,100			95	
100	68.8	392.0	246,600	71.1	393.9	238,800			100	
105	67.2	389.9	233,600	69.5	392.0	224,200			105	
110	65.6	387.6	220,400	67.9	389.9	211,000			110	
115	63.9	385.1	208,000	66.3	387.7	199,100	69.7	390.5	185,800	115
120	62.3	382.4	196,700	64.6	385.3	188,200	68.1	388.4	175,500	120
125	60.6	379.5	186,300	63.0	382.7	178,200	66.4	386.2	166,100	125
130	58.8	376.4	176,900	61.3	379.9	169,000	64.8	383.8	157,400	130
135	57.0	373.1	168,100	59.5	376.9	160,600	63.1	381.2	149,400	135
140	55.2	369.6	160,000	57.8	373.7	152,800	61.4	378.4	142,100	140
145	53.4	365.8	152,500	56.0	370.2	145,600	59.7	375.5	135,200	145
150	51.5	361.8	145,500	54.2	366.6	138,800	58.0	372.3	128,900	150
155	49.5	357.5	139,000	52.3	362.7	132,600	56.2	368.9	122,900	155
160	47.5	352.9	132,900	50.3	358.5	126,700	54.4	365.2	117,400	160
165	45.4	347.9	127,200	48.3	354.0	121,200	52.5	361.3	112,200	165
170	43.3	342.5	121,800	46.3	349.1	116,000	50.6	357.2	107,300	170
175	41.0	336.7	116,800	44.2	343.9	111,100	48.6	352.7	102,700	175
180	38.6	330.4	112,000	41.9	338.3	106,500	46.5	347.9	98,300	180
185	36.1	323.6	107,500	39.6	332.3	102,200	44.4	342.8	94,200	185
190	33.4	316.0	103,200	37.2	325.6	98,000	42.2	337.2	90,400	190
195	30.5	307.6	99,100	34.5	318.4	94,100	39.9	331.2	86,700	195
200	27.3	298.0	95,200	31.7	310.3	90,400	37.4	324.6	83,200	200
205	23.7	286.9	91,500	28.7	301.3	86,800	34.8	317.4	79,800	205
210	19.4	273.3	87,900	25.3	290.8	83,400	32.0	309.5	76,600	210
215	13.8	255.0	84,500	21.3	278.4	80,100	29.0	300.5	73,600	215
220				16.4	262.6	77,000	25.6	290.3	70,600	220
225				8.8	237.5	73,800	21.8	278.2	67,800	225
230							17.0	262.8	65,000	230
235							9.9	239.6	62,200	235
240										240
245										245
250										250
255										255
260										260
265										265
270										270
275										275
280										280

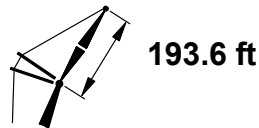
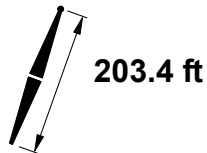


# MLC650 S-2

ASME B30.5



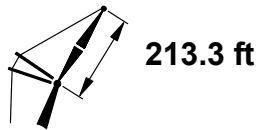
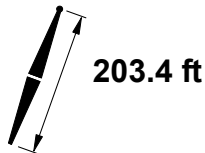
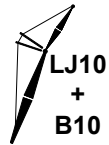
661,300 lb



ft	75°			70°			65°			ft
	ft	lb	ft	ft	lb	ft	ft	lb		
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	112,500							150
155	62.2	375.6	107,100							155
160	60.5	372.7	102,100							160
165	58.8	369.7	97,400							165
170	57.0	366.4	93,000							170
175	55.2	362.8	88,800							175
180	53.3	359.1	84,900	59.4	365.2	71,700				180
185	51.4	355.0	81,200	57.7	362.0	68,400				185
190	49.5	350.7	77,700	55.9	358.6	65,300				190
195	47.5	346.1	74,300	54.1	354.9	62,300				195
200	45.4	341.1	71,200	52.2	351.0	59,500				200
205	43.2	335.7	68,200	50.2	346.7	56,800				205
210	40.9	329.9	65,300	48.2	342.2	54,200	54.5	348.8	43,400	210
215	38.6	323.6	62,600	46.2	337.4	51,700	52.7	345.0	41,200	215
220	36.1	316.7	59,900	44.0	332.2	49,400	50.8	340.8	39,100	220
225	33.4	309.1	57,400	41.8	326.5	47,100	48.8	336.4	37,100	225
230	30.5	300.7	55,000	39.5	320.4	45,000	46.7	331.6	35,200	230
235	27.3	291.1	52,700	37.0	313.8	42,900	44.6	326.5	33,400	235
240	23.6	279.9	50,400	34.4	306.5	40,900	42.4	321.0	31,600	240
245	19.3	266.3	48,200	31.6	298.4	39,000	40.1	315.0	29,900	245
250	13.7	247.9	46,000	28.5	289.3	37,100	37.7	308.6	28,300	250
255				25.1	278.8	35,300	35.1	301.4	26,700	255
260				21.1	266.2	33,500	32.4	293.6	25,200	260
265				16.1	250.1	31,800	29.4	284.7	23,700	265
270				8.2	224.0	29,900	26.0	274.7	22,200	270
275							22.2	262.8	20,700	275
280							17.6	247.9	18,900	280

# MLC650 S-2

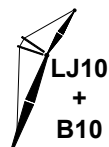
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
90	73.7	416.6	256,900						90	
95	72.3	415.0	255,600						95	
100	70.9	413.2	246,200	72.9	414.8	235,700			100	
105	69.4	411.3	231,200	71.5	413.1	221,100			105	
110	68.0	409.2	217,600	70.0	411.2	208,000			110	
115	66.5	407.0	205,200	68.6	409.2	196,100			115	
120	65.0	404.6	194,000	67.1	407.0	185,300			120	
125	63.5	402.1	183,700	65.7	404.7	175,400	68.8	407.7	163,000	
130	62.0	399.3	174,300	64.2	402.3	166,300	67.3	405.5	154,400	
135	60.5	396.5	165,600	62.6	399.6	157,900	65.8	403.2	146,500	
140	58.9	393.4	157,500	61.1	396.8	150,100	64.3	400.8	139,200	
145	57.3	390.1	150,000	59.5	393.8	142,900	62.8	398.2	132,400	
150	55.6	386.7	143,100	57.9	390.7	136,300	61.3	395.4	126,100	
155	54.0	383.0	136,600	56.3	387.3	130,000	59.7	392.4	120,200	
160	52.3	379.1	130,500	54.7	383.7	124,200	58.1	389.3	114,700	
165	50.5	374.9	124,900	53.0	379.9	118,700	56.5	385.9	109,500	
170	48.7	370.5	119,500	51.2	375.8	113,600	54.8	382.3	104,700	
175	46.9	365.7	114,500	49.5	371.5	108,700	53.2	378.5	100,100	
180	45.0	360.7	109,800	47.6	366.9	104,200	51.4	374.5	95,800	
185	43.0	355.3	105,300	45.8	362.0	99,800	49.7	370.2	91,700	
190	40.9	349.5	101,000	43.8	356.7	95,800	47.8	365.6	87,900	
195	38.8	343.2	97,000	41.8	351.1	91,900	46.0	360.8	84,200	
200	36.5	336.5	93,200	39.7	345.0	88,200	44.0	355.5	80,800	
205	34.1	329.1	89,600	37.5	338.5	84,700	42.0	350.0	77,500	
210	31.6	321.0	86,100	35.1	331.4	81,400	39.9	343.9	74,300	
215	28.8	311.9	82,800	32.6	323.6	78,200	37.7	337.5	71,300	
220	25.7	301.7	79,600	30.0	315.0	75,100	35.4	330.4	68,400	
225	22.3	289.8	76,500	27.0	305.3	72,200	32.9	322.7	65,700	
230	18.1	275.3	73,500	23.8	294.1	69,400	30.3	314.2	63,000	
235	12.7	255.6	70,600	20.0	280.9	66,600	27.4	304.6	60,500	
240				15.2	263.9	64,000	24.1	293.7	58,000	
245				7.6	236.1	61,200	20.4	280.7	55,700	
250							15.8	264.2	53,300	
255							8.8	238.7	50,900	
260									260	
265									265	
270									270	
275									275	
280									280	
285									285	
290									290	

# MLC650 S-2

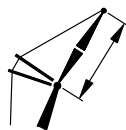
ASME B30.5



661,300 lb



203.4 ft

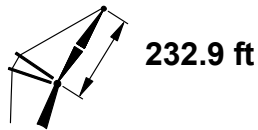
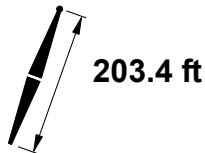
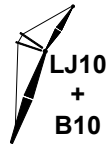


213.3 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160	63.5	395.3	99,100							160
165	62.0	392.6	94,400							165
170	60.4	389.7	90,000							170
175	58.9	386.6	85,900							175
180	57.2	383.4	82,000							180
185	55.6	379.9	78,400							185
190	53.9	376.2	74,900	59.4	382.2	62,200				190
195	52.2	372.3	71,600	57.9	379.0	59,200				195
200	50.5	368.1	68,500	56.2	375.6	56,400				200
205	48.7	363.7	65,500	54.6	372.0	53,800				205
210	46.8	358.9	62,700	52.9	368.2	51,300				210
215	44.9	353.9	60,000	51.2	364.1	48,800				215
220	43.0	348.5	57,400	49.4	359.8	46,500				220
225	40.9	342.7	54,900	47.5	355.1	44,300	53.3	362.1	34,100	225
230	38.7	336.4	52,500	45.7	350.2	42,200	51.6	358.1	32,200	230
235	36.5	329.6	50,300	43.7	344.9	40,200	49.9	353.9	30,400	235
240	34.1	322.2	48,100	41.7	339.3	38,300	48.0	349.3	28,700	240
245	31.5	314.1	46,000	39.6	333.2	36,400	46.2	344.5	27,000	245
250	28.7	305.1	44,000	37.3	326.6	34,600	44.2	339.3	25,400	250
255	25.7	294.8	42,000	35.0	319.5	32,900	42.2	333.8	23,900	255
260	22.2	282.9	40,100	32.5	311.7	31,200	40.1	327.8	22,300	260
265	18.1	268.3	38,200	29.8	303.0	29,500	38.0	321.4	20,500	265
270	12.6	248.5	36,300	26.9	293.2	28,000	35.6	314.4	18,900	270
275				23.6	282.0	26,400				275
280				19.7	268.6	24,900				280
285				14.9	251.3	23,300				285
290				6.9	222.1	21,700				290

# MLC650 S-2

ASME B30.5



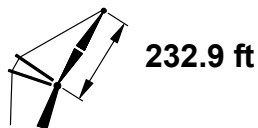
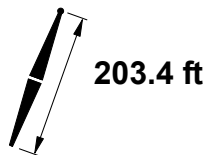
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
95	73.9	435.7	222,900						95	
100	72.6	434.0	222,000						100	
105	71.3	432.3	221,000						105	
110	70.0	430.4	215,500	71.8	432.2	205,800			110	
115	68.6	428.4	203,200	70.5	430.4	193,900			115	
120	67.3	426.3	192,000	69.2	428.4	183,200			120	
125	65.9	424.0	181,800	67.8	426.3	173,300			125	
130	64.6	421.6	172,400	66.5	424.1	164,300	69.3	426.9	152,200	
135	63.2	419.0	163,700	65.1	421.8	155,900	68.0	424.8	144,300	
140	61.8	416.3	155,700	63.8	419.3	148,200	66.6	422.6	137,100	
145	60.4	413.4	148,300	62.4	416.6	141,100	65.3	420.3	130,300	
150	58.9	410.4	141,300	61.0	413.8	134,400	63.9	417.8	124,000	
155	57.5	407.1	134,900	59.5	410.8	128,200	62.5	415.1	118,200	
160	56.0	403.7	128,900	58.1	407.6	122,400	61.1	412.3	112,700	
165	54.5	400.1	123,200	56.6	404.3	116,900	59.7	409.4	107,600	
170	52.9	396.3	117,900	55.1	400.7	111,800	58.2	406.2	102,800	
175	51.3	392.2	112,900	53.6	397.0	107,000	56.8	402.9	98,200	
180	49.7	387.9	108,200	52.0	393.1	102,500	55.3	399.4	94,000	
185	48.0	383.4	103,800	50.4	388.9	98,200	53.7	395.7	89,900	
190	46.3	378.6	99,500	48.7	384.4	94,200	52.2	391.8	86,100	
195	44.6	373.5	95,600	47.1	379.8	90,300	50.6	387.6	82,500	
200	42.8	368.0	91,800	45.3	374.8	86,700	48.9	383.2	79,000	
205	40.9	362.2	88,200	43.5	369.5	83,200	47.2	378.5	75,800	
210	38.9	356.0	84,700	41.7	363.8	79,900	45.5	373.6	72,700	
215	36.9	349.3	81,500	39.7	357.8	76,700	43.7	368.3	69,700	
220	34.7	342.1	78,300	37.7	351.3	73,700	41.9	362.7	66,900	
225	32.4	334.2	75,300	35.6	344.3	70,800	40.0	356.7	64,200	
230	30.0	325.6	72,500	33.4	336.7	68,100	37.9	350.3	61,600	
235	27.3	316.0	69,700	31.0	328.4	65,400	35.8	343.3	59,100	
240	24.4	305.2	67,000	28.4	319.3	62,900	33.6	335.8	56,700	
245	21.0	292.5	64,500	25.6	309.0	60,400	31.3	327.6	54,400	
250	17.0	277.1	61,900	22.5	297.2	58,100	28.7	318.6	52,200	
255	11.7	255.8	59,500	18.8	283.1	55,700	25.9	308.4	50,000	
260				14.1	264.9	53,500	22.8	296.8	47,900	
265				6.5	234.0	51,100	19.2	283.0	45,900	
270							14.7	265.4	43,900	
275							7.7	237.4	41,800	
280									275	
285									280	
290									285	
295									290	
295									295	

# MLC650 S-2

ASME B30.5



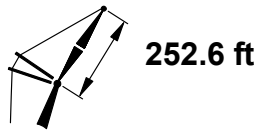
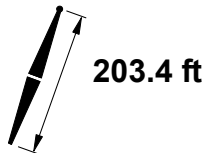
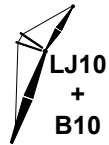
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	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	64.6	414.8	92,200							165
170	63.2	412.3	87,900							170
175	61.8	409.5	83,800							175
180	60.3	406.6	79,900							180
185	58.9	403.6	76,300							185
190	57.4	400.3	72,900							190
195	55.9	396.9	69,600							195
200	54.4	393.3	66,500	59.5	399.1	54,300				200
205	52.9	389.5	63,600	58.0	396.0	51,600				205
210	51.3	385.4	60,800	56.5	392.6	49,100				210
215	49.7	381.1	58,100	55.0	389.1	46,800				215
220	48.0	376.6	55,500	53.5	385.3	44,500				220
225	46.3	371.8	53,100	51.9	381.4	42,300				225
230	44.6	366.7	50,800	50.3	377.2	40,200				230
235	42.7	361.2	48,500	48.7	372.7	38,200	53.9	379.3	28,200	235
240	40.8	355.4	46,400	47.0	368.0	36,300	52.3	375.4	26,500	240
245	38.9	349.2	44,300	45.2	363.0	34,500	50.7	371.2	24,900	245
250	36.8	342.5	42,400	43.4	357.7	32,700	49.1	366.9	23,000	250
255	34.7	335.2	40,400	41.6	352.0	31,000	47.4	362.2	21,200	255
260	32.4	327.4	38,600	39.6	346.0	29,400	45.7	357.3	19,500	260
265	29.9	318.7	36,800	37.6	339.5	27,800				265
270	27.3	309.1	35,100	35.5	332.4	26,300				270
275	24.3	298.3	33,400	33.3	324.8	24,800				275
280	21.0	285.6	31,700	30.9	316.5	23,400				280
285	17.0	270.1	30,100	28.3	307.3	22,000				285
290	11.5	248.7	28,500	25.5	296.9	20,600				290
295				22.3	285.0	19,100				295

# MLC650 S-2

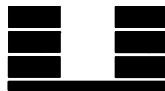
ASME B30.5



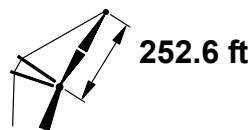
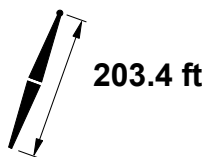
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
100	74.0	454.7	191,600						100	
105	72.8	453.1	191,000						105	
110	71.6	451.4	190,100						110	
115	70.4	449.6	189,300	72.1	451.3	188,500			115	
120	69.2	447.6	188,300	70.9	449.5	180,000			120	
125	67.9	445.6	178,800	69.7	447.6	170,200			125	
130	66.7	443.4	169,500	68.4	445.6	161,200			130	
135	65.4	441.1	160,800	67.2	443.5	152,900	69.8	446.1	141,100	
140	64.2	438.6	152,900	66.0	441.2	145,200	68.6	444.1	133,900	
145	62.9	436.0	145,500	64.7	438.8	138,100	67.3	441.9	127,200	
150	61.6	433.3	138,600	63.4	436.2	131,500	66.1	439.7	121,000	
155	60.3	430.4	132,200	62.1	433.6	125,300	64.8	437.3	115,100	
160	59.0	427.3	126,200	60.8	430.7	119,600	63.6	434.8	109,700	
165	57.6	424.1	120,500	59.5	427.7	114,100	62.3	432.1	104,600	
170	56.3	420.7	115,300	58.2	424.6	109,100	61.0	429.3	99,800	
175	54.9	417.2	110,300	56.8	421.3	104,300	59.7	426.3	95,300	
180	53.4	413.4	105,600	55.4	417.8	99,800	58.3	423.2	91,100	
185	52.0	409.5	101,200	54.0	414.1	95,500	57.0	419.9	87,100	
190	50.5	405.3	97,000	52.6	410.3	91,500	55.6	416.4	83,300	
195	49.0	400.9	93,000	51.1	406.2	87,700	54.2	412.8	79,700	
200	47.5	396.3	89,300	49.6	401.9	84,100	52.8	409.0	76,300	
205	45.9	391.4	85,700	48.1	397.4	80,600	51.3	404.9	73,000	
210	44.3	386.3	82,300	46.6	392.6	77,300	49.8	400.6	70,000	
215	42.6	380.8	79,000	44.9	387.6	74,200	48.3	396.1	67,000	
220	40.8	375.0	75,900	43.3	382.2	71,200	46.7	391.4	64,200	
225	39.0	368.8	73,000	41.6	376.6	68,400	45.1	386.4	61,500	
230	37.2	362.2	70,100	39.8	370.5	65,700	43.5	381.1	59,000	
235	35.2	355.1	67,400	37.9	364.1	63,000	41.8	375.4	56,500	
240	33.1	347.4	64,800	36.0	357.2	60,500	40.0	369.5	54,100	
245	30.9	339.1	62,300	34.0	349.8	58,100	38.1	363.1	51,900	
250	28.5	330.0	59,900	31.8	341.8	55,800	36.2	356.2	49,700	
255	26.0	319.8	57,500	29.5	333.0	53,600	34.2	348.9	47,600	
260	23.1	308.4	55,300	27.1	323.3	51,400	32.1	340.9	45,600	
265	19.9	295.0	53,100	24.4	312.4	49,300	29.8	332.2	43,600	
270	16.0	278.6	50,900	21.3	300.0	47,300	27.4	322.6	41,700	
275	10.7	255.8	48,800	17.7	285.0	45,300	24.7	311.9	39,900	
280				13.2	265.6	43,300	21.7	299.6	38,100	
285				5.3	231.1	41,300	18.2	285.0	36,300	
290							13.8	266.3	34,600	
295							6.7	235.5	32,800	
300									300	
310									310	

# MLC650 S-2

ASME B30.5



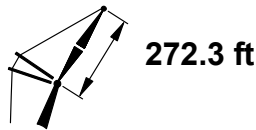
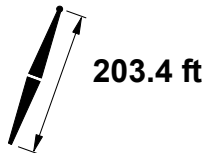
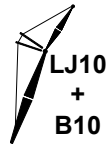
661,300 lb



	75°			70°			
	ft	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	64.2	431.8	80,600				175
180	62.9	429.2	76,800				180
185	61.6	426.5	73,200				185
190	60.3	423.6	69,800				190
195	58.9	420.5	66,500				195
200	57.6	417.3	63,500				200
205	56.2	413.9	60,600				205
210	54.8	410.4	57,800	59.5	416.1	45,900	210
215	53.4	406.6	55,200	58.1	412.9	43,600	215
220	52.0	402.7	52,600	56.8	409.6	41,300	220
225	50.5	398.5	50,200	55.4	406.1	39,200	225
230	49.0	394.1	47,900	54.0	402.4	37,200	230
235	47.4	389.5	45,700	52.5	398.6	35,200	235
240	45.9	384.6	43,600	51.1	394.5	33,300	240
245	44.2	379.4	41,600	49.6	390.2	31,500	245
250	42.5	374.0	39,600	48.0	385.7	29,800	250
255	40.8	368.1	37,800	46.5	380.9	28,100	255
260	39.0	361.9	35,900	44.9	375.8	26,500	260
265	37.1	355.3	34,200	43.2	370.5	24,900	265
270	35.2	348.2	32,500	41.5	364.8	23,400	270
275	33.1	340.5	30,900	39.7	358.7	22,000	275
280	30.9	332.2	29,300	37.8	352.3	20,400	280
285	28.5	323.1	27,800	35.9	345.3	18,700	285
290	25.9	312.9	26,300				290
295	23.1	301.4	24,800				295
300	19.9	288.0	23,400				300
310	10.6	248.6	20,500				310

# MLC650 S-2

ASME B30.5

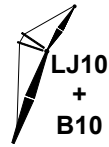


	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
105	74.1	473.8	167,000						105	
110	73.0	472.2	166,400						110	
115	71.9	470.5	165,700						115	
120	70.7	468.7	164,900	72.3	470.4	164,300			120	
125	69.6	466.8	164,100	71.2	468.6	164,000			125	
130	68.5	464.8	163,200	70.1	466.8	159,000			130	
135	67.3	462.7	158,900	69.0	464.8	150,800			135	
140	66.2	460.5	150,900	67.8	462.7	143,200			140	
145	65.0	458.1	143,600	66.7	460.5	136,100	69.1	463.3	125,000	
150	63.8	455.6	136,700	65.5	458.2	129,500	67.9	461.2	118,800	
155	62.7	453.0	130,300	64.3	455.8	123,400	66.8	459.0	113,000	
160	61.5	450.2	124,400	63.1	453.2	117,700	65.6	456.7	107,600	
165	60.2	447.3	118,800	62.0	450.5	112,300	64.5	454.3	102,600	
170	59.0	444.3	113,500	60.7	447.7	107,200	63.3	451.8	97,800	
175	57.8	441.1	108,600	59.5	444.7	102,500	62.1	449.1	93,400	
180	56.5	437.7	103,900	58.3	441.6	98,000	60.9	446.2	89,100	
185	55.2	434.2	99,500	57.0	438.3	93,800	59.7	443.3	85,200	
190	53.9	430.5	95,400	55.7	434.8	89,800	58.4	440.2	81,400	
195	52.6	426.7	91,400	54.4	431.2	86,000	57.2	436.9	77,800	
200	51.2	422.6	87,700	53.1	427.4	82,400	55.9	433.5	74,500	
205	49.8	418.4	84,100	51.8	423.5	79,000	54.6	429.9	71,200	
210	48.4	413.9	80,800	50.4	419.3	75,700	53.3	426.1	68,200	
215	47.0	409.2	77,500	49.0	414.9	72,600	51.9	422.2	65,300	
220	45.5	404.2	74,500	47.6	410.3	69,700	50.6	418.0	62,500	
225	44.0	399.0	71,500	46.1	405.5	66,800	49.2	413.7	59,800	
230	42.4	393.5	68,700	44.6	400.4	64,100	47.7	409.1	57,300	
235	40.8	387.7	66,000	43.1	395.0	61,500	46.3	404.3	54,900	
240	39.1	381.5	63,400	41.5	389.3	59,100	44.8	399.2	52,500	
245	37.4	375.0	61,000	39.8	383.3	56,700	43.2	393.8	50,300	
250	35.6	368.0	58,600	38.1	376.9	54,400	41.7	388.2	48,100	
255	33.7	360.5	56,300	36.3	370.1	52,200	40.0	382.2	46,100	
260	31.7	352.4	54,100	34.5	362.8	50,100	38.3	375.9	44,100	
265	29.6	343.7	51,900	32.5	355.0	48,000	36.5	369.1	42,200	
270	27.3	334.0	49,900	30.5	346.5	46,000	34.7	361.9	40,300	
275	24.8	323.4	47,900	28.3	337.3	44,100	32.8	354.1	38,500	
280	22.1	311.3	46,000	25.9	327.1	42,300	30.7	345.7	36,800	
285	18.9	297.2	44,100	23.2	315.7	40,500	28.5	336.6	35,100	
290	15.1	279.9	42,200	20.3	302.5	38,700	26.1	326.5	33,500	
295	9.9	255.5	40,300	16.8	286.8	37,000	23.5	315.2	31,900	
300				12.3	266.2	35,300	20.6	302.3	30,300	
310							12.9	267.0	27,300	

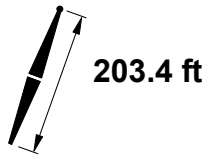


# MLC650 S-2

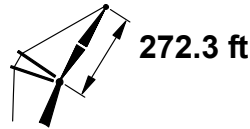
ASME B30.5



661,300 lb



203.4 ft

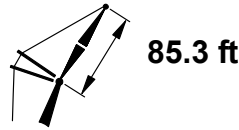
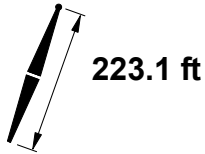
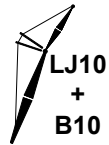


272.3 ft

	75°			70°			
	ft	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	65.0	451.3	74,600				180
185	63.8	448.8	71,000				185
190	62.6	446.2	67,600				190
195	61.4	443.4	64,500				195
200	60.2	440.5	61,400				200
205	59.0	437.5	58,500				205
210	57.7	434.3	55,800				210
215	56.5	431.0	53,200				215
220	55.2	427.4	50,700	59.5	433.1	39,200	220
225	53.9	423.8	48,300	58.2	429.9	37,100	225
230	52.6	419.9	46,000	57.0	426.6	35,000	230
235	51.2	415.8	43,900	55.7	423.2	33,100	235
240	49.8	411.6	41,800	54.4	419.5	31,300	240
245	48.4	407.1	39,800	53.1	415.8	29,500	245
250	47.0	402.4	37,800	51.7	411.8	27,800	250
255	45.5	397.4	36,000	50.3	407.6	26,100	255
260	44.0	392.2	34,200	48.9	403.2	24,600	260
265	42.4	386.7	32,500	47.5	398.6	23,000	265
270	40.8	380.9	30,800	46.0	393.7	21,200	270
275	39.1	374.7	29,200	44.5	388.6	19,500	275
280	37.4	368.2	27,700				280
285	35.6	361.2	26,200				285
290	33.7	353.6	24,800				290
295	31.7	345.6	23,300				295
300	29.5	336.8	22,000				300
310	24.8	316.5	19,400				310

# MLC650 S-2

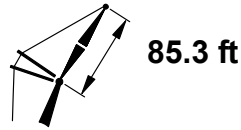
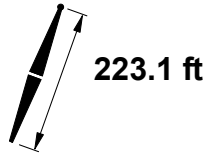
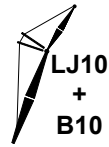
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	74.3	313.7	476,200 d						55	
60	70.7	311.8	444,000 d						60	
65	67.1	309.6	403,900 d	72.7	312.0	401,800 d			65	
70	63.3	306.9	370,400 c	69.1	309.9	368,500 d			70	
75	59.3	303.9	342,100 b	65.4	307.5	340,200 c			75	
80	55.2	300.3	317,700 b	61.5	304.7	316,000 c			80	
85	50.8	296.1	296,700	57.5	301.4	295,000 b	66.6	306.4	292,400 c	85
90	46.1	291.2	278,200	53.3	297.5	276,600 b	62.7	303.7	272,200 c	90
95	41.0	285.3	261,900	48.8	293.0	260,400	58.8	300.6	254,300 b	95
100	35.1	278.2	247,500	43.9	287.7	246,000	54.6	296.9	238,400 b	100
105	28.1	269.0	234,600	38.4	281.4	233,100	50.2	292.6	224,100	105
110	18.5	255.5	223,100	32.2	273.5	221,500	45.4	287.6	211,200	110
115				24.3	262.9	211,100	40.2	281.6	199,400	115
120				11.1	243.8	199,600	34.2	274.3	188,600	120
125							27.0	264.7	178,600	125
130							16.6	250.1	169,200	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170
175										175
180										180
185										185

# MLC650 S-2

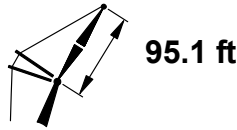
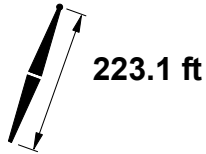
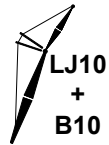
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	189,300 b							110
115	58.0	295.4	178,700 b							115
120	53.7	291.6	169,100 b							120
125	49.3	287.2	160,200							125
130	44.4	282.0	152,000							130
135	39.1	275.7	144,400	56.7	288.2	127,600				135
140	32.9	268.1	137,300	52.5	284.2	121,300				140
145	25.3	257.9	130,600	47.9	279.6	115,500				145
150	13.4	240.8	124,000	42.9	274.1	110,000				150
155				37.4	267.5	104,900	55.0	278.9	91,000	155
160				30.9	259.2	99,900	50.6	274.7	86,700	160
165				22.5	247.9	95,200	45.9	269.7	82,700	165
170							40.7	263.8	78,900	170
175							34.8	256.6	75,200	175
180							27.7	247.3	71,600	180
185							17.8	233.4	68,100	185

# MLC650 S-2

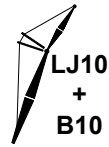
ASME B30.5



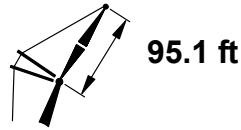
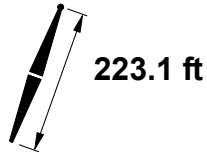
ft	85°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft		
60	72.8	322.3	441,800 d						60	
65	69.6	320.4	404,000 c						65	
70	66.3	318.1	370,500 c	71.4	320.6	368,600 c			70	
75	62.9	315.4	342,200 b	68.1	318.5	340,400 c			75	
80	59.4	312.3	317,900 b	64.8	316.0	316,200 b			80	
85	55.7	308.8	296,800	61.3	313.2	295,200 b	69.2	317.3	289,600 b	85
90	51.8	304.8	278,300	57.7	309.9	276,800 b	65.8	314.9	269,600 b	90
95	47.7	300.1	262,000	54.0	306.1	260,600	62.4	312.2	251,800 b	95
100	43.3	294.7	247,500	50.0	301.8	246,100	58.9	309.1	236,000 b	100
105	38.4	288.4	234,600	45.8	296.9	233,200	55.2	305.5	221,800	105
110	32.9	280.7	222,900	41.1	291.1	221,600	51.3	301.3	209,000	110
115	26.2	270.8	212,400	36.0	284.2	210,200	47.1	296.6	197,400	115
120	16.9	256.2	203,000	30.1	275.6	198,800	42.6	291.1	186,800	120
125				22.6	264.2	188,300	37.7	284.6	177,000	125
130				9.5	243.2	178,200	32.0	276.6	168,000	130
135							25.2	266.3	159,500	135
140							15.1	250.4	151,500	140
145										145
150										150
155										155
160										160
165										165
170										170
175										175
180										180
185										185
190										190
195										195

# MLC650 S-2

ASME B30.5



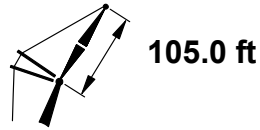
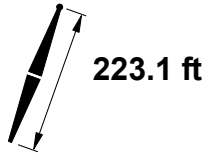
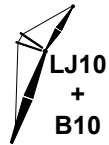
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	176,200 b							115
120	58.1	303.9	166,600							120
125	54.4	300.2	157,800							125
130	50.4	295.9	149,800							130
135	46.2	291.1	142,300							135
140	41.7	285.4	135,400	57.0	296.7	118,800				140
145	36.6	278.6	128,900	53.2	292.9	113,100				145
150	30.8	270.3	122,800	49.2	288.4	107,700				150
155	23.5	259.3	117,000	44.9	283.3	102,700				155
160	11.9	240.7	111,200	40.2	277.4	97,900				160
165				35.0	270.2	93,400	51.6	283.4	80,200	165
170				28.8	261.3	89,100	47.5	278.7	76,500	170
175				20.8	249.0	84,900	43.0	273.2	73,000	175
180							38.1	266.8	69,600	180
185							32.6	259.0	66,400	185
190							25.8	249.0	63,200	190
195							16.3	234.0	60,000	195

# MLC650 S-2

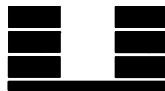
ASME B30.5



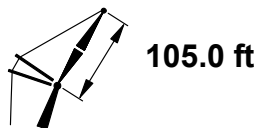
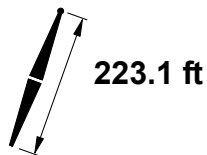
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60	74.5	332.7	437,600 d						60	
65	71.6	331.0	403,600 c						65	
70	68.7	328.9	370,300 c						70	
75	65.7	326.6	342,000 b	70.3	329.2	340,200 c			75	
80	62.6	323.9	317,700 b	67.3	327.0	316,000 b			80	
85	59.4	320.8	296,700	64.3	324.5	295,100 b			85	
90	56.0	317.4	278,200	61.1	321.6	276,700 b	68.3	325.8	267,900 b	90
95	52.6	313.4	261,900	57.9	318.4	260,500	65.2	323.4	250,300 b	95
100	48.9	309.0	247,400	54.5	314.7	246,000	62.1	320.6	234,600 b	100
105	45.0	303.9	234,500	51.0	310.6	233,100	58.9	317.5	220,500	105
110	40.9	298.1	222,800	47.2	305.9	221,500	55.6	314.0	207,800	110
115	36.2	291.2	212,200	43.2	300.5	209,300	52.1	310.0	196,200	115
120	31.0	282.9	202,700	38.8	294.2	198,100	48.4	305.5	185,700	120
125	24.6	272.4	194,000	34.0	286.8	187,800	44.5	300.3	176,000	125
130	15.6	256.7	185,500	28.3	277.6	178,300	40.2	294.4	167,100	130
135				21.1	265.4	169,400	35.5	287.3	158,900	135
140				8.1	242.2	160,800	30.2	278.8	151,200	140
145							23.6	267.8	144,000	145
150							13.8	250.7	137,100	150
155										155
160										160
165										165
170										170
175										175
180										180
185										185
190										190
195										195
200										200
205										205

# MLC650 S-2

ASME B30.5



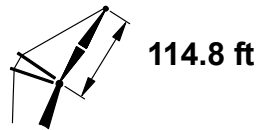
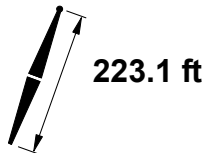
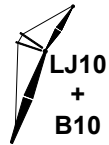
661,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	174,600							115
120	61.5	315.6	165,100							120
125	58.2	312.4	156,400							125
130	54.9	308.8	148,400							130
135	51.4	304.7	141,100							135
140	47.6	300.0	134,200							140
145	43.7	294.7	127,800	57.3	305.2	111,600				145
150	39.3	288.5	121,900	53.9	301.5	106,300				150
155	34.5	281.3	116,300	50.3	297.2	101,400				155
160	28.9	272.3	111,000	46.5	292.4	96,700				160
165	22.0	260.6	105,900	42.4	286.8	92,300				165
170	10.6	240.3	100,800	38.0	280.4	88,200	52.4	292.0	75,100	170
175				33.0	272.7	84,200	48.7	287.6	71,700	175
180				27.1	263.1	80,400	44.8	282.4	68,400	180
185				19.4	250.0	76,700	40.6	276.6	65,300	185
190							36.0	269.6	62,300	190
195							30.7	261.3	59,400	195
200							24.2	250.6	56,600	200
205							15.0	234.4	53,700	205

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
65	73.3	341.4	403,700 c						65	
70	70.6	339.6	370,400 b						70	
75	67.9	337.5	342,100 b	72.1	339.7	340,400 b			75	
80	65.1	335.1	317,900 b	69.4	337.7	316,200 b			80	
85	62.3	332.3	296,800	66.7	335.5	295,200 b			85	
90	59.4	329.3	278,400	63.9	333.0	276,900			90	
95	56.4	325.9	262,100	61.0	330.1	260,700	67.5	334.3	247,600	95
100	53.2	322.0	247,600	58.0	326.9	246,200	64.7	331.9	232,000	100
105	49.9	317.8	234,600	55.0	323.3	232,900	61.9	329.1	218,000	105
110	46.5	312.9	222,900	51.8	319.3	219,500	59.0	326.0	205,400	110
115	42.8	307.5	212,300	48.4	314.7	207,300	55.9	322.5	193,900	115
120	38.8	301.2	202,700	44.8	309.6	196,200	52.8	318.7	183,500	120
125	34.3	293.9	194,000	41.0	303.8	186,000	49.5	314.3	173,900	125
130	29.3	285.1	184,300	36.8	297.1	176,700	46.0	309.4	165,100	130
135	23.2	273.8	175,200	32.2	289.2	168,000	42.2	303.8	157,000	135
140	14.4	257.0	166,600	26.7	279.5	159,900	38.2	297.4	149,400	140
145				19.8	266.5	152,300	33.7	289.9	142,400	145
150				6.7	240.8	144,800	28.5	280.9	135,800	150
155							22.2	269.2	129,500	155
160							12.7	250.8	123,500	160
165										165
170										170
175										175
180										180
185										185
190										190
195										195
200										200
205										205
210										210
215										215

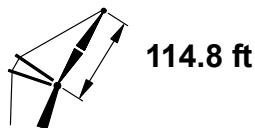
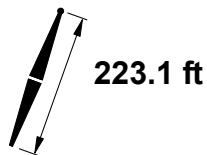


# MLC650 S-2

ASME B30.5



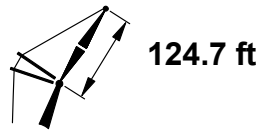
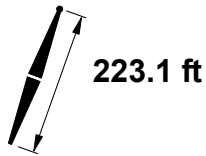
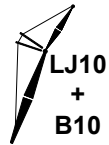
661,300 lb



ft	75°			70°			65°			ft
	ft	lb	ft	lb	ft	lb	ft	lb		
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	326.9	162,500							125
130	61.3	324.0	153,900							130
135	58.4	320.9	146,000							135
140	55.3	317.3	138,700							140
145	52.1	313.3	131,900							145
150	48.8	308.9	125,600							150
155	45.2	303.8	119,700	57.5	313.7	103,800				155
160	41.4	298.1	114,200	54.4	310.0	98,900				160
165	37.3	291.5	109,100	51.1	305.9	94,300				165
170	32.7	283.7	104,200	47.7	301.3	90,000				170
175	27.4	274.3	99,500	44.1	296.1	86,000	53.0	300.7	69,100	175
180	20.6	261.8	95,100	40.3	290.1	82,100	49.8	296.3	65,900	180
185	9.4	239.7	90,500	36.0	283.2	78,400	46.3	291.5	62,900	185
190				31.2	275.0	74,900	42.6	286.0	60,000	190
195				25.6	264.9	71,600	38.5	279.6	57,200	195
200				18.2	250.9	68,200	34.1	272.3	54,600	200
205							29.0	263.4	52,000	205
210							22.8	252.0	49,400	210
215							13.8	234.6	46,800	215

# MLC650 S-2

ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
65	74.6	351.8	402,800 c						65	
70	72.2	350.1	369,600 b						70	
75	69.7	348.2	341,500 b						75	
80	67.2	346.0	317,300 b	71.1	348.3	315,600 b			80	
85	64.7	343.5	296,300	68.6	346.3	294,800 b			85	
90	62.1	340.8	277,900	66.1	344.0	276,400			90	
95	59.4	337.8	261,700	63.5	341.4	260,300	69.4	345.1	247,300	95
100	56.6	334.4	247,200	60.9	338.6	245,900	66.9	342.8	231,800	100
105	53.7	330.6	234,200	58.1	335.4	232,700	64.3	340.4	217,800	105
110	50.8	326.5	222,600	55.3	331.8	219,400	61.7	337.6	205,200	110
115	47.6	321.8	212,000	52.4	327.9	207,300	59.0	334.5	193,800	115
120	44.3	316.6	202,400	49.4	323.5	196,300	56.2	331.1	183,500	120
125	40.8	310.8	193,600	46.2	318.7	186,200	53.3	327.3	173,900	125
130	36.9	304.1	184,700	42.7	313.2	176,900	50.3	323.0	165,200	130
135	32.7	296.3	175,800	39.1	307.0	168,300	47.2	318.3	157,100	135
140	27.8	287.0	167,500	35.1	299.9	160,400	43.8	313.1	149,700	140
145	21.9	275.2	159,700	30.6	291.5	152,900	40.3	307.1	142,700	145
150	13.4	257.3	152,300	25.4	281.2	146,000	36.4	300.3	136,200	150
155				18.6	267.4	139,400	32.1	292.3	130,100	155
160				5.2	238.6	132,800	27.1	282.8	124,400	160
165							21.0	270.4	118,900	165
170							11.6	250.7	113,600	170
175										175
180										180
185										185
190										190
195										195
200										200
205										205
210										210
215										215
220										220
225										225

# MLC650 S-2

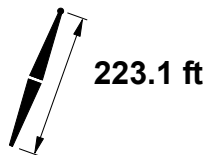
ASME B30.5



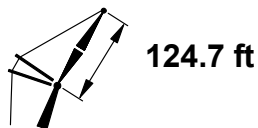
661,300 lb



360°



223.1 ft

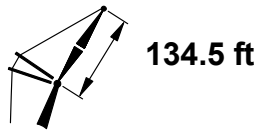
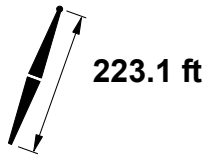
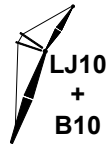


124.7 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	153,700							125
130	61.2	332.5	145,900							130
135	58.4	329.3	138,600							135
140	55.6	325.8	131,900							140
145	52.7	322.0	125,700							145
150	49.7	317.6	119,800							150
155	46.5	312.8	114,400	57.6	322.2	98,900				155
160	43.1	307.4	109,300	54.8	318.6	94,300				160
165	39.5	301.3	104,500	51.9	314.6	90,100				165
170	35.5	294.3	100,000	48.8	310.1	86,100				170
175	31.1	286.1	95,700	45.5	305.2	82,300				175
180	26.0	276.0	91,600	42.1	299.6	78,700	53.6	309.3	65,900	180
185	19.5	262.8	87,600	38.4	293.2	75,300	50.6	305.1	62,900	185
190	8.2	238.9	83,500	34.3	285.9	72,000	47.5	300.4	60,100	190
195				29.7	277.2	68,900	44.1	295.2	57,400	195
200				24.2	266.4	65,900	40.6	289.3	54,800	200
205				17.0	251.6	62,900	36.7	282.6	52,300	205
210							32.5	274.7	49,900	210
215							27.6	265.3	47,600	215
220							21.6	253.3	45,300	220
225							12.8	234.8	42,900	225

# MLC650 S-2

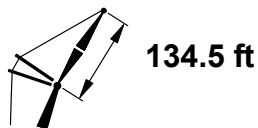
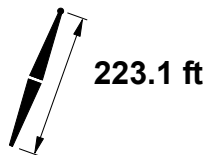
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
70	73.6	360.5	369,800 b						70	
75	71.3	358.7	341,600 b						75	
80	69.0	356.7	317,500	72.6	358.8	315,800 b			80	
85	66.7	354.5	296,500	70.3	356.9	294,900			85	
90	64.3	352.0	278,100	68.0	354.8	276,600			90	
95	61.9	349.3	261,800	65.6	352.5	260,400			95	
100	59.4	346.3	247,400	63.2	349.9	245,200	68.7	353.6	229,200	100
105	56.8	342.9	234,400	60.8	347.0	230,500	66.4	351.4	215,400	105
110	54.2	339.2	222,700	58.2	343.9	217,300	64.0	348.8	202,900	110
115	51.4	335.2	212,200	55.7	340.4	205,200	61.5	346.1	191,500	115
120	48.6	330.7	202,600	53.0	336.5	194,300	59.0	343.0	181,200	120
125	45.6	325.7	192,600	50.2	332.3	184,200	56.5	339.6	171,700	125
130	42.4	320.2	183,000	47.3	327.6	175,000	53.8	335.9	163,100	130
135	39.0	314.0	174,100	44.2	322.4	166,500	51.1	331.7	155,000	135
140	35.3	306.9	165,900	40.9	316.6	158,600	48.2	327.2	147,600	140
145	31.2	298.7	158,300	37.4	310.0	151,200	45.2	322.2	140,700	145
150	26.5	288.9	151,100	33.5	302.4	144,400	42.0	316.5	134,300	150
155	20.8	276.4	144,300	29.2	293.6	138,000	38.5	310.2	128,300	155
160	12.4	257.4	137,900	24.1	282.8	131,900	34.8	303.0	122,600	160
165				17.6	268.2	126,100	30.6	294.6	117,300	165
170				2.9	234.3	120,200	25.8	284.5	112,300	170
175							19.9	271.5	107,400	175
180							10.7	250.5	102,700	180
185										185
190										190
195										195
200										200
205										205
210										210
215										215
220										220
225										225
230										230
235										235

# MLC650 S-2

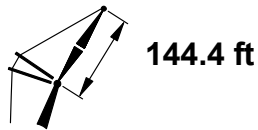
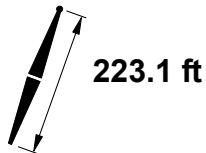
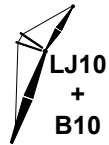
ASME B30.5



ft	75°			70°			65°			ft
	ft	lb	ft	lb	ft	lb	ft	lb		
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	143,400							130
135	61.0	341.0	136,200							135
140	58.5	337.8	129,500							140
145	55.9	334.4	123,300							145
150	53.3	330.6	117,600							150
155	50.5	326.4	112,200							155
160	47.6	321.7	107,100	57.8	330.7	91,800				160
165	44.5	316.6	102,400	55.2	327.2	87,600				165
170	41.3	310.8	97,900	52.5	323.2	83,700				170
175	37.8	304.3	93,700	49.6	318.9	79,900				175
180	34.0	296.9	89,700	46.7	314.1	76,400				180
185	29.7	288.3	85,900	43.6	308.8	73,100	54.0	317.8	60,400	185
190	24.7	277.7	82,200	40.3	302.9	69,900	51.3	313.8	57,600	190
195	18.4	263.7	78,700	36.7	296.1	66,800	48.4	309.3	55,000	195
200	7.2	237.8	75,000	32.8	288.4	63,900	45.4	304.3	52,500	200
205				28.3	279.2	61,100	42.2	298.7	50,000	205
210				23.1	267.9	58,400	38.8	292.4	47,700	210
215				16.1	252.2	55,700	35.1	285.3	45,500	215
220							31.0	277.1	43,300	220
225							26.3	267.1	41,200	225
230							20.5	254.4	39,100	230
235							11.8	234.7	36,900	235

# MLC650 S-2

ASME B30.5



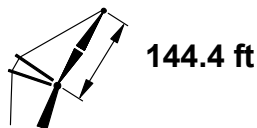
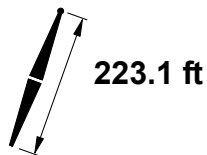
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
70	74.7	370.8	353,000 b						70	
75	72.6	369.2	341,400 b						75	
80	70.5	367.4	317,300						80	
85	68.4	365.3	296,400	71.7	367.5	294,800			85	
90	66.2	363.0	278,000	69.6	365.5	276,500			90	
95	64.0	360.5	261,800	67.4	363.4	259,800			95	
100	61.7	357.8	247,300	65.2	361.0	243,500			100	
105	59.4	354.7	234,400	63.0	358.4	228,900	68.1	362.2	213,600	105
110	57.0	351.4	222,700	60.7	355.5	215,600	65.9	359.9	201,100	110
115	54.6	347.8	212,100	58.3	352.3	203,700	63.7	357.3	189,800	115
120	52.0	343.8	201,600	55.9	348.9	192,700	61.4	354.5	179,500	120
125	49.4	339.5	191,200	53.4	345.1	182,700	59.1	351.5	170,100	125
130	46.7	334.7	181,600	50.9	341.0	173,600	56.7	348.1	161,500	130
135	43.8	329.4	172,800	48.2	336.4	165,100	54.2	344.4	153,500	135
140	40.7	323.5	164,700	45.4	331.4	157,200	51.7	340.4	146,100	140
145	37.4	317.0	157,100	42.4	325.9	150,000	49.0	336.0	139,300	145
150	33.9	309.5	150,000	39.3	319.8	143,200	46.3	331.2	132,900	150
155	29.9	300.9	143,400	35.9	312.8	136,800	43.4	325.8	126,900	155
160	25.4	290.6	137,200	32.2	304.9	130,900	40.3	319.9	121,300	160
165	19.8	277.5	131,200	28.0	295.6	125,200	37.0	313.2	116,100	165
170	11.6	257.3	125,500	23.1	284.3	119,900	33.4	305.6	111,100	170
175				16.7	269.0	114,800	29.3	296.8	106,400	175
180							24.7	286.2	102,000	180
185							18.9	272.5	97,700	185
190							9.8	250.1	93,400	190
195										195
200										200
205										205
210										210
215										215
220										220
225										225
230										230
235										235
240										240
245										245

# MLC650 S-2

ASME B30.5



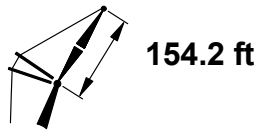
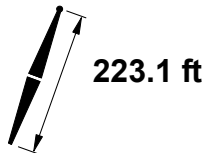
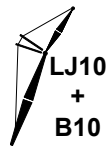
661,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
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	134,500							135
140	60.9	349.4	127,800							140
145	58.6	346.3	121,700							145
150	56.2	342.9	116,000							150
155	53.7	339.2	110,600							155
160	51.1	335.1	105,600							160
165	48.5	330.6	100,900	57.9	339.2	86,000				165
170	45.7	325.6	96,500	55.5	335.7	82,000				170
175	42.7	320.2	92,300	53.0	331.8	78,300				175
180	39.6	314.1	88,400	50.4	327.6	74,900				180
185	36.3	307.2	84,600	47.7	323.0	71,500				185
190	32.6	299.4	81,100	44.8	317.9	68,400	54.4	326.4	56,000	190
195	28.5	290.3	77,600	41.8	312.3	65,400	51.9	322.4	53,400	195
200	23.6	279.2	74,400	38.7	306.0	62,600	49.3	318.0	50,900	200
205	17.5	264.6	71,100	35.2	298.9	59,800	46.5	313.2	48,500	205
210	6.0	236.2	67,800	31.4	290.8	57,200	43.6	307.9	46,200	210
215				27.1	281.2	54,700	40.5	302.0	44,000	215
220				22.0	269.3	52,200	37.3	295.4	41,900	220
225				15.2	252.7	49,700	33.7	287.9	39,900	225
230							29.7	279.3	38,000	230
235							25.1	268.9	36,000	235
240							19.5	255.5	34,100	240
245							10.9	234.6	32,100	245

# MLC650 S-2

ASME B30.5

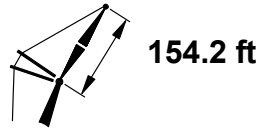
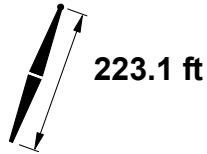
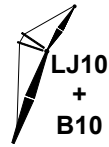


	85°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
75	73.8	379.6	329,000						75	
80	71.8	377.9	317,500						80	
85	69.8	376.0	296,600	72.9	377.9	295,000			85	
90	67.8	373.9	278,200	70.9	376.1	275,700			90	
95	65.8	371.5	262,000	68.9	374.1	257,500			95	
100	63.7	369.0	247,500	66.9	371.9	241,200			100	
105	61.6	366.2	234,500	64.8	369.5	226,600	69.6	372.9	211,100	105
110	59.4	363.2	222,900	62.7	366.9	213,500	67.5	370.7	198,700	110
115	57.2	359.9	211,000	60.6	364.0	201,500	65.5	368.4	187,500	115
120	54.9	356.3	199,600	58.4	360.8	190,700	63.4	365.8	177,200	120
125	52.5	352.4	189,300	56.2	357.4	180,700	61.3	363.0	167,900	125
130	50.1	348.2	179,800	53.8	353.7	171,600	59.1	359.9	159,300	130
135	47.6	343.6	171,000	51.5	349.6	163,100	56.9	356.6	151,400	135
140	44.9	338.5	162,900	49.0	345.2	155,300	54.6	353.0	144,000	140
145	42.1	332.9	155,400	46.4	340.4	148,100	52.2	349.0	137,200	145
150	39.2	326.7	148,300	43.7	335.1	141,300	49.8	344.8	130,900	150
155	36.0	319.8	141,800	40.8	329.3	135,000	47.2	340.1	124,900	155
160	32.6	312.0	135,600	37.8	322.8	129,100	44.5	334.9	119,400	160
165	28.8	303.0	129,800	34.5	315.5	123,600	41.7	329.3	114,200	165
170	24.3	292.3	124,300	30.9	307.2	118,300	38.8	323.0	109,300	170
175	18.9	278.5	119,100	26.9	297.5	113,400	35.6	316.0	104,700	175
180	10.8	257.2	114,000	22.1	285.6	108,700	32.1	308.1	100,300	180
185				15.8	269.6	104,100	28.2	298.8	96,100	185
190							23.7	287.8	92,100	190
195							18.0	273.4	88,300	195
200							9.0	249.5	84,400	200
205										205
210										210
215										215
220										220
225										225
230										230
235										235
240										240
245										245
250										250
255										255



# MLC650 S-2

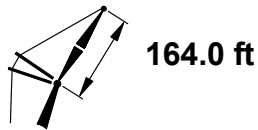
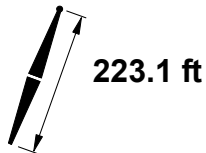
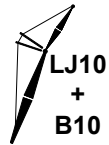
ASME B30.5



ft	75°			70°			65°			ft
	ft	lb	lb	ft	lb	lb	ft	lb	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	63.0	360.8	125,400							140
145	60.8	357.9	119,300							145
150	58.6	354.8	113,600							150
155	56.4	351.4	108,300							155
160	54.1	347.7	103,400							160
165	51.7	343.7	98,700							165
170	49.2	339.3	94,300	58.0	347.7	79,600				170
175	46.7	334.6	90,200	55.7	344.2	75,900				175
180	44.0	329.3	86,300	53.4	340.4	72,500				180
185	41.2	323.6	82,600	51.0	336.3	69,200				185
190	38.1	317.2	79,100	48.5	331.8	66,100				190
195	34.9	310.0	75,700	45.9	326.9	63,200	54.8	335.0	50,900	195
200	31.3	301.8	72,500	43.2	321.6	60,400	52.4	331.0	48,400	200
205	27.3	292.3	69,500	40.3	315.6	57,700	50.0	326.8	46,100	205
210	22.6	280.7	66,500	37.2	309.0	55,100	47.4	322.1	43,900	210
215	16.6	265.3	63,600	33.9	301.6	52,700	44.8	317.0	41,700	215
220	4.9	234.1	60,500	30.2	293.0	50,300	42.0	311.4	39,700	220
225				26.0	283.0	48,000	39.0	305.2	37,700	225
230				21.1	270.6	45,800	35.9	298.3	35,800	230
235				14.3	253.2	43,500	32.4	290.4	34,000	235
240							28.5	281.3	32,200	240
245							24.1	270.5	30,400	245
250							18.6	256.5	28,700	250
255							10.1	234.3	26,800	255

# MLC650 S-2

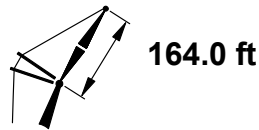
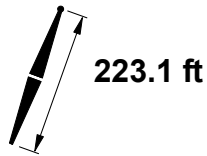
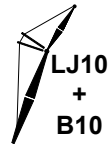
ASME B30.5



	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
75	74.8	389.9	309,100						75	
80	73.0	388.3	307,200						80	
85	71.1	386.5	296,300						85	
90	69.2	384.6	278,000	72.1	386.6	274,700			90	
95	67.3	382.4	261,700	70.3	384.7	256,500			95	
100	65.4	380.1	247,300	68.4	382.7	240,300			100	
105	63.4	377.5	234,400	66.5	380.4	225,800			105	
110	61.4	374.7	222,700	64.5	378.0	212,700	69.0	381.4	197,800	110
115	59.4	371.7	210,300	62.5	375.3	200,800	67.1	379.3	186,600	115
120	57.3	368.4	199,000	60.5	372.5	189,900	65.1	376.9	176,400	120
125	55.2	364.9	188,700	58.5	369.3	180,000	63.2	374.3	167,100	125
130	53.0	361.0	179,200	56.4	365.9	170,900	61.2	371.5	158,500	130
135	50.7	356.9	170,500	54.2	362.3	162,500	59.1	368.4	150,600	135
140	48.4	352.4	162,400	52.0	358.3	154,800	57.0	365.1	143,300	140
145	45.9	347.5	154,900	49.7	354.0	147,600	54.9	361.5	136,600	145
150	43.4	342.1	147,900	47.3	349.3	140,800	52.7	357.7	130,300	150
155	40.7	336.3	141,400	44.8	344.2	134,600	50.4	353.5	124,400	155
160	37.8	329.8	135,300	42.2	338.6	128,700	48.0	348.9	118,900	160
165	34.7	322.6	129,600	39.4	332.5	123,200	45.6	344.0	113,700	165
170	31.4	314.4	124,100	36.5	325.7	118,000	43.0	338.5	108,800	170
175	27.7	305.0	119,000	33.3	318.1	113,100	40.3	332.6	104,200	175
180	23.4	293.8	114,200	29.8	309.5	108,500	37.4	326.0	99,900	180
185	18.1	279.4	109,500	25.8	299.3	104,100	34.3	318.7	95,800	185
190	10.0	256.9	105,000	21.2	286.9	99,900	30.9	310.4	91,900	190
195				15.1	270.1	95,800	27.1	300.8	88,200	195
200							22.7	289.2	84,600	200
205							17.2	274.2	81,100	205
210							8.2	248.8	77,600	210
215										215
220										220
225										225
230										230
235										235
240										240
245										245
250										250
255										255
260										260
265										265

# MLC650 S-2

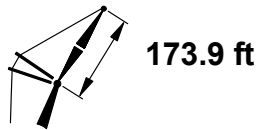
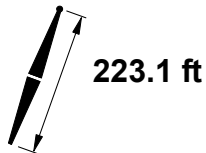
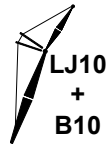
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	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	124,600						140	
145	62.8	369.2	118,500						145	
150	60.8	366.4	112,800						150	
155	58.7	363.3	107,600						155	
160	56.6	359.9	102,600						160	
165	54.4	356.3	98,000						165	
170	52.2	352.3	93,700						170	
175	49.9	348.1	89,600	58.1	356.2	75,200			175	
180	47.5	343.4	85,700	56.0	352.7	71,700			180	
185	45.1	338.4	82,000	53.8	349.0	68,500			185	
190	42.5	332.9	78,600	51.5	345.0	65,400			190	
195	39.7	326.8	75,300	49.2	340.6	62,500			195	
200	36.8	320.1	72,100	46.8	335.9	59,700			200	
205	33.6	312.6	69,100	44.3	330.7	57,100	52.9	339.7	45,400	205
210	30.2	304.1	66,200	41.7	325.0	54,600	50.6	335.5	43,100	210
215	26.3	294.1	63,500	38.9	318.8	52,100	48.2	331.0	41,000	215
220	21.7	282.1	60,800	35.9	311.9	49,800	45.8	326.0	39,000	220
225	15.8	265.9	58,100	32.7	304.1	47,600	43.2	320.7	37,100	225
230	3.4	230.6	55,200	29.1	295.2	45,400	40.5	314.8	35,200	230
235				25.0	284.7	43,300	37.7	308.3	33,400	235
240				20.2	271.7	41,300	34.6	301.0	31,700	240
245				13.6	253.5	39,200	31.2	292.8	30,000	245
250							27.5	283.3	28,400	250
255							23.2	272.0	26,800	255
260							17.8	257.4	25,100	260
265							9.4	233.9	23,400	265

# MLC650 S-2

ASME B30.5



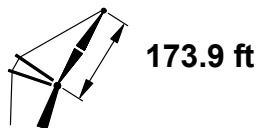
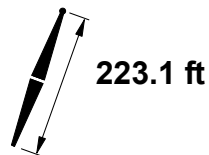
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
80	74.0	398.6	287,700						80	
85	72.2	397.0	285,800						85	
90	70.5	395.1	278,100						90	
95	68.7	393.1	261,900	71.4	395.2	254,200			95	
100	66.9	390.9	247,500	69.7	393.3	238,000			100	
105	65.1	388.6	234,200	67.9	391.2	223,500			105	
110	63.2	386.0	220,600	66.1	389.0	210,500			110	
115	61.3	383.2	208,300	64.2	386.5	198,600	68.4	390.0	184,300	
120	59.4	380.2	197,100	62.4	383.8	187,800	66.6	387.8	174,100	
125	57.4	376.9	186,800	60.5	380.9	178,000	64.8	385.4	164,800	
130	55.4	373.4	177,300	58.5	377.8	168,900	63.0	382.8	156,300	
135	53.4	369.6	168,600	56.5	374.4	160,500	61.1	380.0	148,500	
140	51.2	365.6	160,600	54.5	370.8	152,800	59.1	376.9	141,200	
145	49.1	361.2	153,100	52.4	366.9	145,600	57.2	373.6	134,500	
150	46.8	356.4	146,200	50.3	362.7	138,900	55.2	370.1	128,200	
155	44.4	351.3	139,700	48.0	358.1	132,700	53.1	366.3	122,300	
160	41.9	345.6	133,600	45.7	353.2	126,900	50.9	362.1	116,800	
165	39.3	339.5	127,900	43.3	347.9	121,400	48.7	357.7	111,700	
170	36.6	332.7	122,500	40.8	342.0	116,200	46.5	352.9	106,900	
175	33.6	325.2	117,500	38.1	335.6	111,400	44.1	347.7	102,300	
180	30.3	316.7	112,700	35.3	328.5	106,800	41.6	342.0	98,000	
185	26.7	307.0	108,100	32.2	320.6	102,500	39.0	335.8	94,000	
190	22.5	295.3	103,800	28.8	311.6	98,300	36.2	328.9	90,100	
195	17.3	280.3	99,600	24.9	301.1	94,400	33.2	321.3	86,400	
200	9.3	256.5	95,500	20.4	288.2	90,600	29.9	312.6	82,900	
205				14.3	270.6	86,900	26.2	302.6	79,600	
210							21.9	290.6	76,300	
215							16.5	275.0	73,200	
220							7.4	247.9	70,000	
225									225	
230									230	
235									235	
240									240	
245									245	
250									250	
255									255	
260									260	
265									265	
270									270	

# MLC650 S-2

ASME B30.5



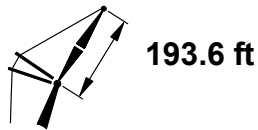
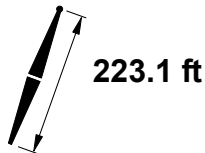
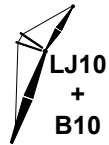
661,300 lb



ft	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	64.4	380.4	116,100							145
150	62.6	377.7	110,500							150
155	60.7	374.9	105,200							155
160	58.7	371.8	100,300							160
165	56.8	368.4	95,800							165
170	54.7	364.8	91,400							170
175	52.7	361.0	87,400							175
180	50.5	356.8	83,500	58.2	364.7	69,300				180
185	48.3	352.3	79,900	56.2	361.3	66,100				185
190	46.0	347.4	76,500	54.1	357.6	63,100				190
195	43.6	342.1	73,200	52.0	353.6	60,200				195
200	41.1	336.3	70,100	49.9	349.4	57,500				200
205	38.4	330.0	67,100	47.6	344.7	54,900				205
210	35.6	323.0	64,300	45.3	339.7	52,400	53.3	348.3	40,700	210
215	32.5	315.1	61,600	42.9	334.3	50,000	51.1	344.2	38,700	215
220	29.2	306.3	59,000	40.3	328.4	47,700	48.9	339.8	36,700	220
225	25.4	295.9	56,500	37.6	321.8	45,500	46.7	335.0	34,800	225
230	20.9	283.3	54,000	34.7	314.6	43,400	44.3	329.8	32,900	230
235	15.1	266.5	51,600	31.6	306.5	41,400	41.8	324.2	31,200	235
240				28.1	297.2	39,400	39.2	318.0	29,500	240
245				24.1	286.3	37,500	36.4	311.2	27,900	245
250				19.4	272.8	35,600	33.4	303.6	26,300	250
255				12.9	253.7	33,700	30.2	295.1	24,700	255
260							26.5	285.2	23,200	260
265							22.3	273.4	21,600	265
270							17.0	258.2	19,800	270

# MLC650 S-2

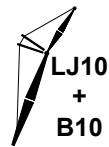
ASME B30.5



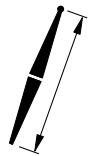
	85°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
85	74.1	417.7	252,700						85	
90	72.5	416.1	251,400						90	
95	71.0	414.3	249,800						95	
100	69.4	412.4	246,200	71.8	414.4	234,700			100	
105	67.8	410.3	231,300	70.3	412.5	220,400			105	
110	66.2	408.0	217,700	68.7	410.5	207,400			110	
115	64.5	405.6	205,500	67.1	408.3	195,600			115	
120	62.8	402.9	194,300	65.4	406.0	184,900	69.2	409.2	170,900	120
125	61.1	400.1	184,100	63.8	403.5	175,100	67.6	407.1	161,700	125
130	59.4	397.1	174,700	62.1	400.8	166,100	65.9	404.8	153,200	130
135	57.7	393.9	166,100	60.4	397.9	157,800	64.3	402.4	145,500	135
140	55.9	390.5	158,100	58.6	394.8	150,100	62.6	399.7	138,300	140
145	54.0	386.8	150,700	56.9	391.5	143,000	60.9	396.9	131,600	145
150	52.1	382.8	143,800	55.0	387.9	136,400	59.2	393.9	125,300	150
155	50.2	378.6	137,300	53.2	384.1	130,200	57.4	390.6	119,500	155
160	48.2	374.1	131,300	51.3	380.0	124,400	55.6	387.1	114,100	160
165	46.1	369.2	125,600	49.3	375.7	119,000	53.8	383.4	109,000	165
170	44.0	364.0	120,300	47.3	371.0	113,900	51.9	379.4	104,200	170
175	41.8	358.4	115,300	45.2	366.0	109,100	49.9	375.2	99,700	175
180	39.4	352.3	110,600	43.0	360.6	104,500	47.9	370.6	95,500	180
185	37.0	345.6	106,100	40.7	354.8	100,300	45.9	365.7	91,500	185
190	34.4	338.3	101,900	38.3	348.4	96,200	43.7	360.4	87,700	190
195	31.5	330.2	97,900	35.8	341.5	92,300	41.5	354.7	84,100	195
200	28.4	321.0	94,000	33.1	333.8	88,700	39.1	348.6	80,600	200
205	25.0	310.5	90,300	30.2	325.3	85,200	36.6	341.8	77,400	205
210	21.0	297.9	86,800	26.9	315.6	81,800	34.0	334.4	74,200	210
215	16.0	281.7	83,400	23.3	304.2	78,600	31.1	326.2	71,300	215
220	8.0	255.2	80,000	18.9	290.3	75,500	28.0	316.8	68,400	220
225				13.1	271.2	72,400	24.5	306.1	65,600	225
230							20.4	293.1	63,000	230
235							15.1	276.2	60,300	235
240							5.9	245.3	57,600	240
245										245
250										250
255										255
260										260
265										265
270										270
275										275

# MLC650 S-2

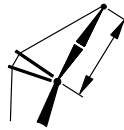
ASME B30.5



661,300 lb



223.1 ft



193.6 ft

ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155	63.9	397.4	102,100							155
160	62.3	394.7	97,200							160
165	60.6	391.8	92,700							165
170	58.8	388.7	88,400							170
175	57.0	385.4	84,400							175
180	55.2	381.9	80,600							180
185	53.4	378.1	77,000							185
190	51.5	374.1	73,600	58.3	381.6	59,900				190
195	49.5	369.8	70,400	56.5	378.3	57,100				195
200	47.5	365.2	67,400	54.7	374.7	54,400				200
205	45.4	360.2	64,500	52.8	370.8	51,800				205
210	43.3	354.8	61,700	50.9	366.7	49,400				210
215	41.0	349.0	59,100	48.9	362.3	47,100				215
220	38.6	342.8	56,500	46.9	357.6	44,800	53.9	365.4	33,500	220
225	36.1	335.9	54,100	44.8	352.5	42,700	52.0	361.4	31,600	225
230	33.4	328.3	51,800	42.6	347.0	40,700	50.1	357.2	29,800	230
235	30.5	319.9	49,500	40.3	341.1	38,700	48.1	352.7	28,100	235
240	27.3	310.3	47,400	37.9	334.7	36,800	46.0	347.8	26,500	240
245	23.7	299.2	45,200	35.3	327.6	35,000	43.9	342.6	24,900	245
250	19.4	285.6	43,200	32.6	319.8	33,200	41.7	336.9	23,200	250
255	13.8	267.4	41,100	29.6	311.1	31,500	39.3	330.8	21,500	255
260				26.3	301.1	29,900	36.8	324.1	19,800	260
265				22.5	289.4	28,200	34.2	316.7	18,100	265
270				18.0	274.8	26,600				270
275				11.6	253.9	25,000				275