


Liftcrane Boom Capacities With Luffing Jib Attached

MLC300 SERIES 1

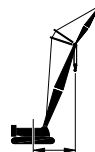
Boom No. B10:500
Luffing Jib No. LJ10:501
298,100 lb VPC (Variable Position Counterweight)
360 Degree Rating

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

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of load. Weight of luffing jib and 11,000 lb suspended beneath luffing jib point sheaves have been included in capacity determination. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate on a firm, level, and uniformly supporting surface. Supporting surface and bearing turntable are to be level within a tolerance of 1/2 in. in 10 ft. During operation, luffing jib must be maintained at proper boom-to-luffing jib angle shown in table. Refer to Luffing Jib Rigging **No. 81023383**, Wire Rope Specifications chart **No. 9813-A**, Counterweight Arrangements chart **No. 9345-A**, Luffing Jib Raising Procedure chart **No. 9380-A**, and Wind Conditions chart **No. 9371-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. 9372-A**.



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



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






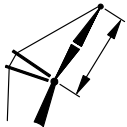
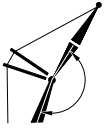



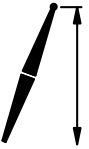

BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 31 ft 10 in. crawlers, 48 in. or 60 in. treads, 30 ft live mast, 24 part boom hoist reeving, boom support straps, 14 part luffing jib hoist reeving, luffing jib and backstay support straps, and 298,100 lb VPC.

Consult chart **No. 9378-A** for luffing jib capacities.

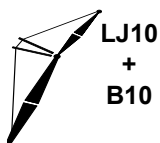
Luffing Jib Position During Operation	
Luffing Jib Length Feet	Boom-to-Luffing Jib Angle Degrees
78.7 - 98.4	140
118.1 - 157.5	155
177.2 - 315.0	169

Explanation of Symbols

-  LJ10 Luffing Jib No. LJ10:501
+
B10 Boom No. B10:500
-  VPC (Variable Position Counterweight)
-  360°
360 Degree Rating
-  Luffing Jib Length
-  Boom-to-Luffing Jib Angle
-  Boom Length
-  Operating Radius
(see page 1)
-  Boom Angle
(see page 1)
-  Boom Point Elevation
(see page 1)
-  Lifting Capacities
(see page 1)

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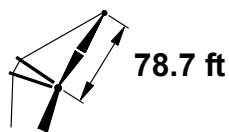
ASME B30.5



298,100 lb



360°



78.7 ft



140°

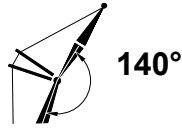
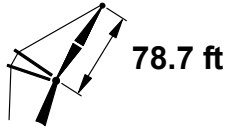
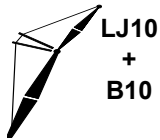
98.4 ft			
ft	°	ft	lb
18	84.5	104.8	588,100
19	83.9	104.6	588,100
20	83.3	104.5	588,100
21	82.7	104.3	588,100
22	82.1	104.2	588,100
24	80.9	103.8	585,600
26	79.8	103.4	540,600
28	78.6	102.9	474,200
30	77.4	102.4	422,100
32	76.2	101.9	375,600
34	74.9	101.3	335,000
36	73.7	100.6	301,000
38	72.5	99.9	272,100
40	71.3	99.2	247,300
45	68.1	97.1	198,300
50	64.9	94.8	162,000
55	61.6	92.0	134,000
60	58.1	88.8	111,900
65	54.5	85.2	93,800
70	50.8	81.1	78,900
75	46.8	76.4	66,400
80	42.5	71.0	55,700

118.1 ft			
ft	°	ft	lb
19	84.9	124.5	585,000
20	84.4	124.4	581,500
21	83.9	124.2	578,100
22	83.5	124.1	574,700
24	82.5	123.8	568,300
26	81.5	123.4	538,000
28	80.5	123.0	479,700
30	79.5	122.6	427,100
32	78.5	122.2	379,000
34	77.5	121.7	338,200
36	76.5	121.2	304,000
38	75.5	120.6	275,000
40	74.5	120.0	250,100
45	71.9	118.3	200,700
50	69.3	116.4	164,200
55	66.7	114.2	136,100
60	64.0	111.7	113,800
65	61.2	108.9	95,600
70	58.4	105.8	80,600
75	55.4	102.3	67,900
80	52.3	98.5	57,100
85	49.1	94.1	47,800
90	45.7	89.2	39,700
95	42.1	83.7	32,500

137.8 ft			
ft	°	ft	lb
21	84.8	144.1	529,400
22	84.4	143.9	526,300
24	83.6	143.7	520,300
26	82.7	143.4	514,600
28	81.9	143.1	482,900
30	81.0	142.7	429,900
32	80.2	142.3	381,400
34	79.3	141.9	340,400
36	78.5	141.5	306,100
38	77.6	141.0	276,900
40	76.8	140.5	251,900
45	74.6	139.1	202,300
50	72.4	137.4	165,600
55	70.2	135.6	137,300
60	68.0	133.5	114,900
65	65.7	131.2	96,700
70	63.3	128.7	81,600
75	61.0	125.9	68,800
80	58.5	122.8	58,000
85	56.0	119.4	48,600
90	53.4	115.7	40,400
95	50.7	111.5	33,200
100	47.9	107.0	26,800
105	45.0	102.0	21,100
110	41.9	96.4	16,000

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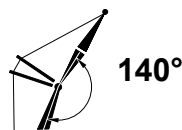
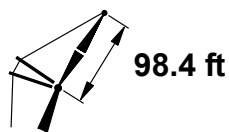
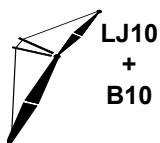


ft	°	ft	lb
24	84.4	163.5	479,400
26	83.6	163.3	474,500
28	82.9	163.0	469,800
30	82.2	162.7	433,200
32	81.4	162.3	383,100
34	80.7	162.0	341,900
36	79.9	161.6	307,400
38	79.2	161.2	278,100
40	78.5	160.7	252,900
45	76.6	159.5	203,100
50	74.7	158.1	166,200
55	72.8	156.5	137,800
60	70.9	154.8	115,200
65	68.9	152.8	96,900
70	66.9	150.6	81,700
75	64.9	148.3	68,900
80	62.9	145.7	58,000
85	60.8	142.8	48,500
90	58.6	139.8	40,300
95	56.5	136.4	33,000
100	54.2	132.8	26,600
105	51.9	128.9	20,900
110	49.5	124.6	15,700
115	47.0	119.9	11,100
120	44.4	114.8	6,800
125	41.7	109.2	3,000

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98.4 ft

	ft	o	ft	lb
18	84.5	104.8	588,100	
19	83.9	104.6	588,100	
20	83.3	104.5	588,100	
21	82.7	104.3	588,100	
22	82.1	104.2	588,100	
24	80.9	103.8	585,500	
26	79.8	103.4	537,400	
28	78.6	102.9	461,800	
30	77.4	102.4	402,500	
32	76.2	101.9	354,800	
34	74.9	101.3	315,600	
36	73.7	100.6	282,700	
38	72.5	99.9	254,900	
40	71.3	99.2	230,900	
45	68.1	97.1	183,600	
50	64.9	94.8	148,500	
55	61.6	92.0	121,600	
60	58.1	88.8	100,300	
65	54.5	85.2	82,900	
70	50.8	81.1	68,600	
75	46.8	76.4	56,600	
80	42.5	71.0	46,400	

118.1 ft

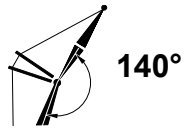
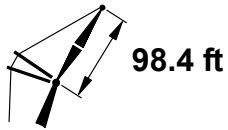
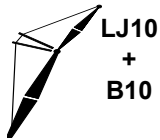
	ft	o	ft	lb
19	84.9	124.5	570,700	
20	84.4	124.4	567,100	
21	83.9	124.2	563,600	
22	83.5	124.1	560,200	
24	82.5	123.8	553,900	
26	81.5	123.4	538,000	
28	80.5	123.0	466,500	
30	79.5	122.6	406,900	
32	78.5	122.2	358,900	
34	77.5	121.7	319,400	
36	76.5	121.2	286,400	
38	75.5	120.6	258,300	
40	74.5	120.0	234,200	
45	71.9	118.3	186,500	
50	69.3	116.4	151,200	
55	66.7	114.2	124,100	
60	64.0	111.7	102,600	
65	61.2	108.9	85,100	
70	58.4	105.8	70,600	
75	55.4	102.3	58,400	
80	52.3	98.5	48,000	
85	49.1	94.1	39,100	
90	45.7	89.2	31,300	
95	42.1	83.7	24,500	

137.8 ft

	ft	o	ft	lb
21	84.8	144.1	516,300	
22	84.4	143.9	513,200	
24	83.6	143.7	507,100	
26	82.7	143.4	501,500	
28	81.9	143.1	469,900	
30	81.0	142.7	410,000	
32	80.2	142.3	361,700	
34	79.3	141.9	322,000	
36	78.5	141.5	288,800	
38	77.6	141.0	260,600	
40	76.8	140.5	236,400	
45	74.6	139.1	188,500	
50	72.4	137.4	153,000	
55	70.2	135.6	125,700	
60	68.0	133.5	104,000	
65	65.7	131.2	86,400	
70	63.3	128.7	71,800	
75	61.0	125.9	59,600	
80	58.5	122.8	49,100	
85	56.0	119.4	40,000	
90	53.4	115.7	32,200	
95	50.7	111.5	25,300	
100	47.9	107.0	19,100	
105	45.0	102.0	13,700	
110	41.9	96.4	8,800	

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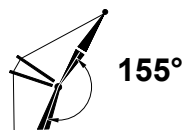
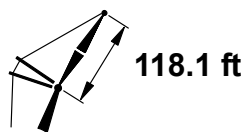
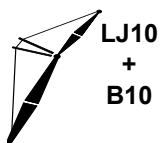


ft	°	ft	lb
24	84.4	163.5	467,900
26	83.6	163.3	463,000
28	82.9	163.0	458,400
30	82.2	162.7	412,200
32	81.4	162.3	363,700
34	80.7	162.0	323,800
36	79.9	161.6	290,400
38	79.2	161.2	262,100
40	78.5	160.7	237,700
45	76.6	159.5	189,500
50	74.7	158.1	153,900
55	72.8	156.5	126,400
60	70.9	154.8	104,600
65	68.9	152.8	86,900
70	66.9	150.6	72,200
75	64.9	148.3	59,800
80	62.9	145.7	49,300
85	60.8	142.8	40,200
90	58.6	139.8	32,200
95	56.5	136.4	25,300
100	54.2	132.8	19,100
105	51.9	128.9	13,600
110	49.5	124.6	8,600
115	47.0	119.9	4,200

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98.4 ft

	ft	o	ft	lb
18	84.5	104.8	588,100	
19	83.9	104.6	588,100	
20	83.3	104.5	588,100	
21	82.7	104.3	588,100	
22	82.1	104.2	588,100	
24	80.9	103.8	585,600	
26	79.8	103.4	540,600	
28	78.6	102.9	468,100	
30	77.4	102.4	407,100	
32	76.2	101.9	358,000	
34	74.9	101.3	317,700	
36	73.7	100.6	283,900	
38	72.5	99.9	255,200	
40	71.3	99.2	230,600	
45	68.1	97.1	181,900	
50	64.9	94.8	145,800	
55	61.6	92.0	118,000	
60	58.1	88.8	96,000	
65	54.5	85.2	78,000	
70	50.8	81.1	63,200	
75	46.8	76.4	50,700	
80	42.5	71.0	40,100	
85	37.8	64.6	30,900	
90	32.4	56.9	22,900	
95	26.0	47.1	15,900	

118.1 ft

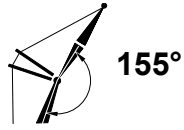
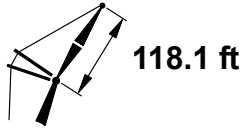
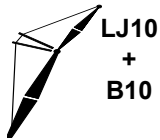
	ft	o	ft	lb
19	84.9	124.5	573,400	
20	84.4	124.4	569,500	
21	83.9	124.2	565,800	
22	83.5	124.1	562,200	
24	82.5	123.8	555,200	
26	81.5	123.4	538,000	
28	80.5	123.0	474,300	
30	79.5	122.6	413,000	
32	78.5	122.2	363,600	
34	77.5	121.7	323,000	
36	76.5	121.2	289,000	
38	75.5	120.6	260,200	
40	74.5	120.0	235,400	
45	71.9	118.3	186,300	
50	69.3	116.4	150,000	
55	66.7	114.2	122,000	
60	64.0	111.7	99,800	
65	61.2	108.9	81,800	
70	58.4	105.8	66,800	
75	55.4	102.3	54,200	
80	52.3	98.5	43,500	
85	49.1	94.1	34,200	
90	45.7	89.2	26,100	
95	42.1	83.7	19,000	
100	38.2	77.4	12,700	
105	33.9	70.1	7,100	
110	29.0	61.3	2,100	

137.8 ft

	ft	o	ft	lb
21	84.8	144.1	518,300	
22	84.4	143.9	515,000	
24	83.6	143.7	508,600	
26	82.7	143.4	502,600	
28	81.9	143.1	478,700	
30	81.0	142.7	417,100	
32	80.2	142.3	367,500	
34	79.3	141.9	326,700	
36	78.5	141.5	292,500	
38	77.6	141.0	263,500	
40	76.8	140.5	238,600	
45	74.6	139.1	189,300	
50	72.4	137.4	152,800	
55	70.2	135.6	124,700	
60	68.0	133.5	102,400	
65	65.7	131.2	84,200	
70	63.3	128.7	69,200	
75	61.0	125.9	56,500	
80	58.5	122.8	45,700	
85	56.0	119.4	36,300	
90	53.4	115.7	28,200	
95	50.7	111.5	21,000	
100	47.9	107.0	14,700	
105	45.0	102.0	9,000	
110	41.9	96.4	3,900	

MLC300 S-1

ASME B30.5

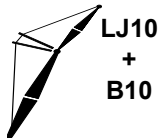


ft	°	ft	lb
24	84.4	163.5	468,900
26	83.6	163.3	463,600
28	82.9	163.0	458,700
30	82.2	162.7	420,100
32	81.4	162.3	370,300
34	80.7	162.0	329,200
36	79.9	161.6	294,900
38	79.2	161.2	265,800
40	78.5	160.7	240,700
45	76.6	159.5	191,100
50	74.7	158.1	154,400
55	72.8	156.5	126,100
60	70.9	154.8	103,700
65	68.9	152.8	85,500
70	66.9	150.6	70,300
75	64.9	148.3	57,600
80	62.9	145.7	46,700
85	60.8	142.8	37,300
90	58.6	139.8	29,100
95	56.5	136.4	21,900
100	54.2	132.8	15,500
105	51.9	128.9	9,800
110	49.5	124.6	4,700

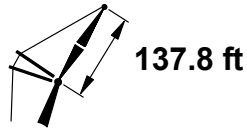
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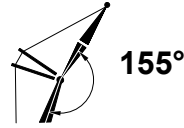
ASME B30.5



298,100 lb



137.8 ft



155°

98.4 ft

	ft	°	ft	lb
18	84.5	104.8	588,100	
19	83.9	104.6	588,100	
20	83.3	104.5	585,700	
21	82.7	104.3	582,100	
22	82.1	104.2	578,700	
24	80.9	103.8	572,000	
26	79.8	103.4	521,800	
28	78.6	102.9	446,100	
30	77.4	102.4	386,700	
32	76.2	101.9	339,000	
34	74.9	101.3	299,700	
36	73.7	100.6	266,800	
38	72.5	99.9	238,900	
40	71.3	99.2	214,900	
45	68.1	97.1	167,500	
50	64.9	94.8	132,400	
55	61.6	92.0	105,400	
60	58.1	88.8	84,000	
65	54.5	85.2	66,600	
70	50.8	81.1	52,300	
75	46.8	76.4	40,200	
80	42.5	71.0	29,900	
85	37.8	64.6	21,100	
90	32.4	56.9	13,500	
95	26.0	47.1	6,800	

118.1 ft

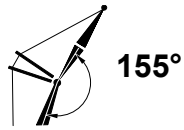
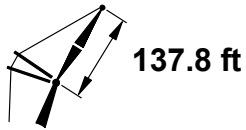
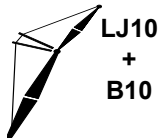
	ft	°	ft	lb
19	84.9	124.5	560,500	
20	84.4	124.4	556,600	
21	83.9	124.2	552,800	
22	83.5	124.1	549,100	
24	82.5	123.8	542,000	
26	81.5	123.4	529,500	
28	80.5	123.0	453,300	
30	79.5	122.6	393,500	
32	78.5	122.2	345,400	
34	77.5	121.7	305,900	
36	76.5	121.2	272,800	
38	75.5	120.6	244,700	
40	74.5	120.0	220,500	
45	71.9	118.3	172,800	
50	69.3	116.4	137,400	
55	66.7	114.2	110,200	
60	64.0	111.7	88,600	
65	61.2	108.9	71,100	
70	58.4	105.8	56,600	
75	55.4	102.3	44,300	
80	52.3	98.5	33,900	
85	49.1	94.1	24,900	
90	45.7	89.2	17,100	
95	42.1	83.7	10,300	
100	38.2	77.4	4,200	

137.8 ft

	ft	°	ft	lb
21	84.8	144.1	506,700	
22	84.4	143.9	503,300	
24	83.6	143.7	496,800	
26	82.7	143.4	490,700	
28	81.9	143.1	458,400	
30	81.0	142.7	398,300	
32	80.2	142.3	350,000	
34	79.3	141.9	310,200	
36	78.5	141.5	276,900	
38	77.6	141.0	248,700	
40	76.8	140.5	224,400	
45	74.6	139.1	176,300	
50	72.4	137.4	140,800	
55	70.2	135.6	113,400	
60	68.0	133.5	91,700	
65	65.7	131.2	74,000	
70	63.3	128.7	59,400	
75	61.0	125.9	47,100	
80	58.5	122.8	36,600	
85	56.0	119.4	27,500	
90	53.4	115.7	19,600	
95	50.7	111.5	12,700	
100	47.9	107.0	6,500	

MLC300 S-1

ASME B30.5

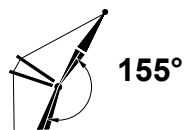
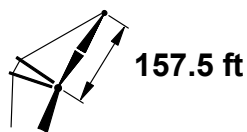
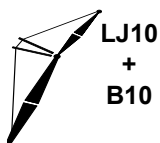


ft	°	ft	lb
24	84.4	163.5	458,100
26	83.6	163.3	452,800
28	82.9	163.0	447,800
30	82.2	162.7	401,900
32	81.4	162.3	353,300
34	80.7	162.0	313,300
36	79.9	161.6	279,800
38	79.2	161.2	251,400
40	78.5	160.7	226,900
45	76.6	159.5	178,600
50	74.7	158.1	142,900
55	72.8	156.5	115,300
60	70.9	154.8	93,500
65	68.9	152.8	75,700
70	66.9	150.6	61,000
75	64.9	148.3	48,600
80	62.9	145.7	38,000
85	60.8	142.8	28,900
90	58.6	139.8	20,900
95	56.5	136.4	13,900
100	54.2	132.8	7,700
105	51.9	128.9	2,100

REFERENCE ONLY!

MLC300 S-1

ASME B30.5



98.4 ft

	ft	o	ft	lb
18	84.5	104.8	577,700	
19	83.9	104.6	573,700	
20	83.3	104.5	569,800	
21	82.7	104.3	566,100	
22	82.1	104.2	562,500	
24	80.9	103.8	555,500	
26	79.8	103.4	494,600	
28	78.6	102.9	421,200	
30	77.4	102.4	363,700	
32	76.2	101.9	317,400	
34	74.9	101.3	279,400	
36	73.7	100.6	247,500	
38	72.5	99.9	220,500	
40	71.3	99.2	197,200	
45	68.1	97.1	151,300	
50	64.9	94.8	117,400	
55	61.6	92.0	91,300	
60	58.1	88.8	70,600	
65	54.5	85.2	53,900	
70	50.8	81.1	40,000	
75	46.8	76.4	28,400	
80	42.5	71.0	18,600	
85	37.8	64.6	10,200	
90	32.4	56.9	2,900	

118.1 ft

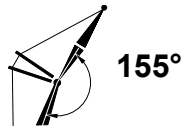
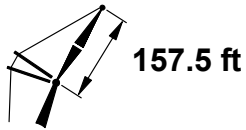
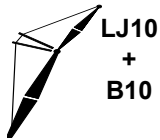
	ft	o	ft	lb
19	84.9	124.5	545,500	
20	84.4	124.4	541,500	
21	83.9	124.2	537,600	
22	83.5	124.1	533,800	
24	82.5	123.8	526,600	
26	81.5	123.4	503,400	
28	80.5	123.0	429,500	
30	79.5	122.6	371,600	
32	78.5	122.2	324,900	
34	77.5	121.7	286,600	
36	76.5	121.2	254,500	
38	75.5	120.6	227,200	
40	74.5	120.0	203,800	
45	71.9	118.3	157,500	
50	69.3	116.4	123,300	
55	66.7	114.2	97,000	
60	64.0	111.7	76,100	
65	61.2	108.9	59,100	
70	58.4	105.8	45,100	
75	55.4	102.3	33,300	
80	52.3	98.5	23,300	
85	49.1	94.1	14,600	
90	45.7	89.2	7,100	

137.8 ft

	ft	o	ft	lb
21	84.8	144.1	492,900	
22	84.4	143.9	489,400	
24	83.6	143.7	482,900	
26	82.7	143.4	476,700	
28	81.9	143.1	435,500	
30	81.0	142.7	377,200	
32	80.2	142.3	330,200	
34	79.3	141.9	291,700	
36	78.5	141.5	259,400	
38	77.6	141.0	232,000	
40	76.8	140.5	208,400	
45	74.6	139.1	161,800	
50	72.4	137.4	127,300	
55	70.2	135.6	100,800	
60	68.0	133.5	79,800	
65	65.7	131.2	62,700	
70	63.3	128.7	48,500	
75	61.0	125.9	36,600	
80	58.5	122.8	26,500	
85	56.0	119.4	17,700	
90	53.4	115.7	10,100	
95	50.7	111.5	3,400	

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ASME B30.5

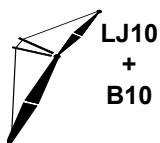


ft	°	ft	lb
24	84.4	163.5	445,500
26	83.6	163.3	440,200
28	82.9	163.0	435,200
30	82.2	162.7	381,300
32	81.4	162.3	334,100
34	80.7	162.0	295,300
36	79.9	161.6	262,800
38	79.2	161.2	235,200
40	78.5	160.7	211,500
45	76.6	159.5	164,600
50	74.7	158.1	129,900
55	72.8	156.5	103,200
60	70.9	154.8	82,000
65	68.9	152.8	64,800
70	66.9	150.6	50,600
75	64.9	148.3	38,600
80	62.9	145.7	28,300
85	60.8	142.8	19,500
90	58.6	139.8	11,800
95	56.5	136.4	5,000

REFERENCE ONLY!

MLC300 S-1

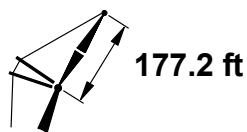
ASME B30.5



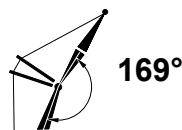
298,100 lb



360°



177.2 ft



169°

98.4 ft

	ft	°	ft	lb
18	84.5	104.8	588,100	
19	83.9	104.6	588,100	
20	83.3	104.5	588,100	
21	82.7	104.3	584,500	
22	82.1	104.2	580,400	
24	80.9	103.8	572,500	
26	79.8	103.4	533,300	
28	78.6	102.9	453,700	
30	77.4	102.4	391,300	
32	76.2	101.9	341,000	
34	74.9	101.3	299,700	
36	73.7	100.6	265,100	
38	72.5	99.9	235,700	
40	71.3	99.2	210,500	
45	68.1	97.1	160,500	
50	64.9	94.8	123,400	
55	61.6	92.0	94,900	
60	58.1	88.8	72,200	
65	54.5	85.2	53,800	
70	50.8	81.1	38,500	
75	46.8	76.4	25,500	
80	42.5	71.0	14,500	
85	37.8	64.6	4,900	

118.1 ft

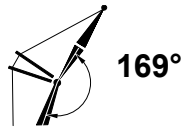
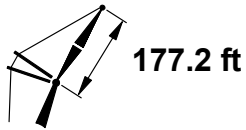
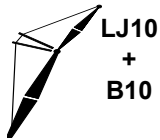
	ft	°	ft	lb
19	84.9	124.5	564,800	
20	84.4	124.4	560,400	
21	83.9	124.2	556,000	
22	83.5	124.1	551,800	
24	82.5	123.8	543,700	
26	81.5	123.4	536,000	
28	80.5	123.0	464,000	
30	79.5	122.6	401,200	
32	78.5	122.2	350,600	
34	77.5	121.7	309,000	
36	76.5	121.2	274,200	
38	75.5	120.6	244,600	
40	74.5	120.0	219,200	
45	71.9	118.3	168,900	
50	69.3	116.4	131,600	
55	66.7	114.2	102,900	
60	64.0	111.7	80,100	
65	61.2	108.9	61,500	
70	58.4	105.8	46,100	
75	55.4	102.3	33,200	
80	52.3	98.5	22,100	
85	49.1	94.1	12,500	
90	45.7	89.2	4,100	

137.8 ft

	ft	°	ft	lb
21	84.8	144.1	509,300	
22	84.4	143.9	505,600	
24	83.6	143.7	498,300	
26	82.7	143.4	491,400	
28	81.9	143.1	471,400	
30	81.0	142.7	408,200	
32	80.2	142.3	357,400	
34	79.3	141.9	315,500	
36	78.5	141.5	280,500	
38	77.6	141.0	250,800	
40	76.8	140.5	225,200	
45	74.6	139.1	174,600	
50	72.4	137.4	137,200	
55	70.2	135.6	108,300	
60	68.0	133.5	85,400	
65	65.7	131.2	66,700	
70	63.3	128.7	51,300	
75	61.0	125.9	38,200	
80	58.5	122.8	27,100	
85	56.0	119.4	17,500	
90	53.4	115.7	9,100	
95	50.7	111.5	1,700	

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ASME B30.5

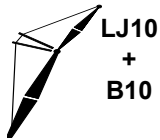


ft	°	ft	lb
24	84.4	163.5	458,500
26	83.6	163.3	452,600
28	82.9	163.0	447,100
30	82.2	162.7	413,400
32	81.4	162.3	362,300
34	80.7	162.0	320,200
36	79.9	161.6	285,000
38	79.2	161.2	255,100
40	78.5	160.7	229,400
45	76.6	159.5	178,500
50	74.7	158.1	140,800
55	72.8	156.5	111,800
60	70.9	154.8	88,800
65	68.9	152.8	70,100
70	66.9	150.6	54,500
75	64.9	148.3	41,400
80	62.9	145.7	30,200
85	60.8	142.8	20,500
90	58.6	139.8	12,100
95	56.5	136.4	4,700

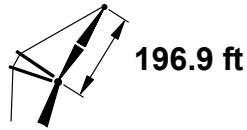
REFERENCE ONLY!

MLC300 S-1

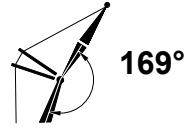
ASME B30.5



298,100 lb



196.9 ft



169°

98.4 ft

	ft	o	ft	lb
18	84.5	104.8	586,100	
19	83.9	104.6	583,700	
20	83.3	104.5	579,200	
21	82.7	104.3	574,800	
22	82.1	104.2	570,400	
24	80.9	103.8	562,200	
26	79.8	103.4	515,900	
28	78.6	102.9	437,500	
30	77.4	102.4	375,900	
32	76.2	101.9	326,400	
34	74.9	101.3	285,700	
36	73.7	100.6	251,600	
38	72.5	99.9	222,600	
40	71.3	99.2	197,700	
45	68.1	97.1	148,500	
50	64.9	94.8	112,000	
55	61.6	92.0	83,900	
60	58.1	88.8	61,600	
65	54.5	85.2	43,400	
70	50.8	81.1	28,400	
75	46.8	76.4	15,700	
80	42.5	71.0	4,800	

118.1 ft

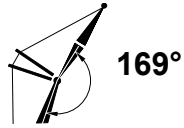
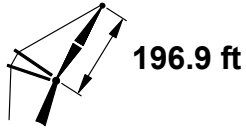
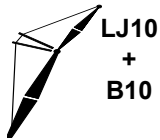
	ft	o	ft	lb
19	84.9	124.5	555,900	
20	84.4	124.4	551,300	
21	83.9	124.2	546,800	
22	83.5	124.1	542,500	
24	82.5	123.8	534,100	
26	81.5	123.4	526,200	
28	80.5	123.0	449,000	
30	79.5	122.6	387,100	
32	78.5	122.2	337,200	
34	77.5	121.7	296,200	
36	76.5	121.2	261,800	
38	75.5	120.6	232,700	
40	74.5	120.0	207,600	
45	71.9	118.3	158,000	
50	69.3	116.4	121,300	
55	66.7	114.2	93,000	
60	64.0	111.7	70,500	
65	61.2	108.9	52,200	
70	58.4	105.8	37,000	
75	55.4	102.3	24,300	
80	52.3	98.5	13,400	
85	49.1	94.1	3,900	

137.8 ft

	ft	o	ft	lb
21	84.8	144.1	501,000	
22	84.4	143.9	497,100	
24	83.6	143.7	489,700	
26	82.7	143.4	482,600	
28	81.9	143.1	457,300	
30	81.0	142.7	395,000	
32	80.2	142.3	344,800	
34	79.3	141.9	303,500	
36	78.5	141.5	269,000	
38	77.6	141.0	239,700	
40	76.8	140.5	214,400	
45	74.6	139.1	164,500	
50	72.4	137.4	127,600	
55	70.2	135.6	99,100	
60	68.0	133.5	76,500	
65	65.7	131.2	58,200	
70	63.3	128.7	42,900	
75	61.0	125.9	30,100	
80	58.5	122.8	19,100	
85	56.0	119.4	9,600	

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ASME B30.5

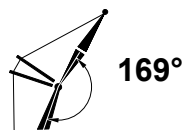
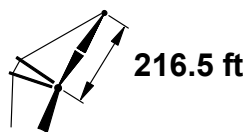
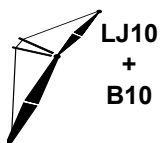


ft	°	ft	lb
24	84.4	163.5	450,600
26	83.6	163.3	444,600
28	82.9	163.0	439,000
30	82.2	162.7	400,800
32	81.4	162.3	350,300
34	80.7	162.0	308,800
36	79.9	161.6	274,100
38	79.2	161.2	244,600
40	78.5	160.7	219,200
45	76.6	159.5	169,000
50	74.7	158.1	131,900
55	72.8	156.5	103,300
60	70.9	154.8	80,500
65	68.9	152.8	62,000
70	66.9	150.6	46,700
75	64.9	148.3	33,800
80	62.9	145.7	22,800
85	60.8	142.8	13,200
90	58.6	139.8	4,900

REFERENCE ONLY!

MLC300 S-1

ASME B30.5



98.4 ft

	ft	°	ft	lb
18	84.5	104.8	576,800	
19	83.9	104.6	572,200	
20	83.3	104.5	567,400	
21	82.7	104.3	562,700	
22	82.1	104.2	558,200	
24	80.9	103.8	549,500	
26	79.8	103.4	495,800	
28	78.6	102.9	418,700	
30	77.4	102.4	358,100	
32	76.2	101.9	309,400	
34	74.9	101.3	269,300	
36	73.7	100.6	235,800	
38	72.5	99.9	207,300	
40	71.3	99.2	182,900	
45	68.1	97.1	134,400	
50	64.9	94.8	98,600	
55	61.6	92.0	70,900	
60	58.1	88.8	49,000	
65	54.5	85.2	31,200	
70	50.8	81.1	16,400	
75	46.8	76.4	3,900	

118.1 ft

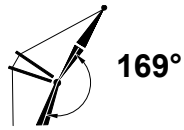
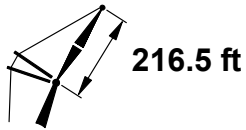
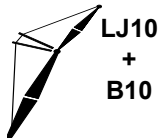
	ft	°	ft	lb
19	84.9	124.5	545,200	
20	84.4	124.4	540,500	
21	83.9	124.2	535,800	
22	83.5	124.1	531,400	
24	82.5	123.8	522,700	
26	81.5	123.4	509,400	
28	80.5	123.0	431,700	
30	79.5	122.6	370,700	
32	78.5	122.2	321,600	
34	77.5	121.7	281,200	
36	76.5	121.2	247,400	
38	75.5	120.6	218,700	
40	74.5	120.0	194,000	
45	71.9	118.3	145,200	
50	69.3	116.4	109,100	
55	66.7	114.2	81,200	
60	64.0	111.7	59,100	
65	61.2	108.9	41,200	
70	58.4	105.8	26,300	
75	55.4	102.3	13,700	
80	52.3	98.5	3,000	

137.8 ft

	ft	°	ft	lb
21	84.8	144.1	490,700	
22	84.4	143.9	486,700	
24	83.6	143.7	479,000	
26	82.7	143.4	471,800	
28	81.9	143.1	440,900	
30	81.0	142.7	379,600	
32	80.2	142.3	330,200	
34	79.3	141.9	289,500	
36	78.5	141.5	255,500	
38	77.6	141.0	226,600	
40	76.8	140.5	201,800	
45	74.6	139.1	152,700	
50	72.4	137.4	116,300	
55	70.2	135.6	88,300	
60	68.0	133.5	66,100	
65	65.7	131.2	48,000	
70	63.3	128.7	33,000	
75	61.0	125.9	20,400	
80	58.5	122.8	9,600	

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ASME B30.5

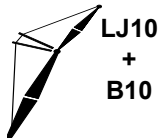


 157.5 ft			
ft	°	ft	lb
24	84.4	163.5	440,900
26	83.6	163.3	434,800
28	82.9	163.0	429,000
30	82.2	162.7	386,200
32	81.4	162.3	336,400
34	80.7	162.0	295,500
36	79.9	161.6	261,300
38	79.2	161.2	232,300
40	78.5	160.7	207,300
45	76.6	159.5	157,900
50	74.7	158.1	121,300
55	72.8	156.5	93,100
60	70.9	154.8	70,700
65	68.9	152.8	52,500
70	66.9	150.6	37,400
75	64.9	148.3	24,700
80	62.9	145.7	13,900
85	60.8	142.8	4,500

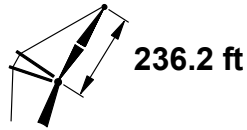
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MLC300 S-1

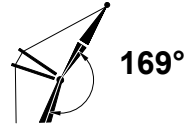
ASME B30.5



298,100 lb



236.2 ft



169°

98.4 ft

	ft	°	ft	lb
18	84.5	104.8	566,100	
19	83.9	104.6	561,000	
20	83.3	104.5	555,900	
21	82.7	104.3	551,100	
22	82.1	104.2	546,400	
24	80.9	103.8	537,200	
26	79.8	103.4	475,900	
28	78.6	102.9	400,000	
30	77.4	102.4	340,500	
32	76.2	101.9	292,600	
34	74.9	101.3	253,300	
36	73.7	100.6	220,300	
38	72.5	99.9	192,300	
40	71.3	99.2	168,300	
45	68.1	97.1	120,700	
50	64.9	94.8	85,500	
55	61.6	92.0	58,400	
60	58.1	88.8	36,900	
65	54.5	85.2	19,400	
70	50.8	81.1	4,900	

118.1 ft

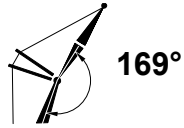
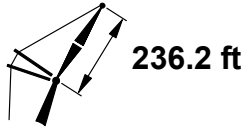
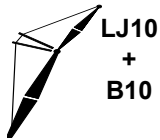
	ft	°	ft	lb
19	84.9	124.5	534,600	
20	84.4	124.4	529,800	
21	83.9	124.2	524,900	
22	83.5	124.1	520,300	
24	82.5	123.8	511,300	
26	81.5	123.4	490,900	
28	80.5	123.0	414,400	
30	79.5	122.6	354,500	
32	78.5	122.2	306,200	
34	77.5	121.7	266,500	
36	76.5	121.2	233,200	
38	75.5	120.6	205,000	
40	74.5	120.0	180,800	
45	71.9	118.3	132,800	
50	69.3	116.4	97,300	
55	66.7	114.2	69,900	
60	64.0	111.7	48,200	
65	61.2	108.9	30,600	
70	58.4	105.8	15,900	
75	55.4	102.3	3,600	

137.8 ft

	ft	°	ft	lb
21	84.8	144.1	480,600	
22	84.4	143.9	476,600	
24	83.6	143.7	468,700	
26	82.7	143.4	461,300	
28	81.9	143.1	424,800	
30	81.0	142.7	364,400	
32	80.2	142.3	315,800	
34	79.3	141.9	275,800	
36	78.5	141.5	242,300	
38	77.6	141.0	213,900	
40	76.8	140.5	189,500	
45	74.6	139.1	141,200	
50	72.4	137.4	105,400	
55	70.2	135.6	77,900	
60	68.0	133.5	56,000	
65	65.7	131.2	38,300	
70	63.3	128.7	23,500	
75	61.0	125.9	11,100	

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ASME B30.5

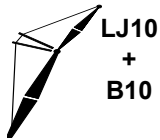


<p>157.5 ft</p>			
ft	°	ft	lb
24	84.4	163.5	431,800
26	83.6	163.3	425,600
28	82.9	163.0	419,700
30	82.2	162.7	371,700
32	81.4	162.3	322,800
34	80.7	162.0	282,600
36	79.9	161.6	248,900
38	79.2	161.2	220,300
40	78.5	160.7	195,700
45	76.6	159.5	147,100
50	74.7	158.1	111,100
55	72.8	156.5	83,400
60	70.9	154.8	61,300
65	68.9	152.8	43,500
70	66.9	150.6	28,600
75	64.9	148.3	16,100
80	62.9	145.7	5,500

REFERENCE ONLY!

MLC300 S-1

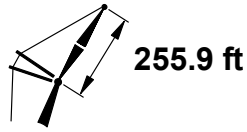
ASME B30.5



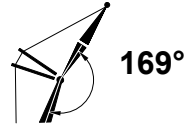
298,100 lb



360°



255.9 ft



169°

98.4 ft

	ft	o	ft	lb
18	84.5	104.8	553,600	
19	83.9	104.6	548,200	
20	83.3	104.5	542,900	
21	82.7	104.3	537,800	
22	82.1	104.2	532,800	
24	80.9	103.8	523,200	
26	79.8	103.4	453,700	
28	78.6	102.9	379,300	
30	77.4	102.4	320,900	
32	76.2	101.9	273,900	
34	74.9	101.3	235,300	
36	73.7	100.6	203,000	
38	72.5	99.9	175,500	
40	71.3	99.2	152,000	
45	68.1	97.1	105,300	
50	64.9	94.8	70,800	
55	61.6	92.0	44,200	
60	58.1	88.8	23,100	
65	54.5	85.2	6,000	

118.1 ft

	ft	o	ft	lb
19	84.9	124.5	522,500	
20	84.4	124.4	517,400	
21	83.9	124.2	512,500	
22	83.5	124.1	507,700	
24	82.5	123.8	498,400	
26	81.5	123.4	470,400	
28	80.5	123.0	395,300	
30	79.5	122.6	336,400	
32	78.5	122.2	289,000	
34	77.5	121.7	250,000	
36	76.5	121.2	217,400	
38	75.5	120.6	189,700	
40	74.5	120.0	165,900	
45	71.9	118.3	118,800	
50	69.3	116.4	83,900	
55	66.7	114.2	57,100	
60	64.0	111.7	35,800	
65	61.2	108.9	18,500	
70	58.4	105.8	4,200	

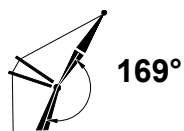
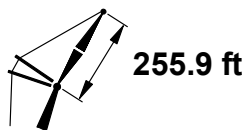
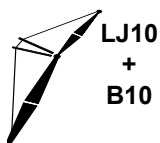
137.8 ft

	ft	o	ft	lb
21	84.8	144.1	469,500	
22	84.4	143.9	465,300	
24	83.6	143.7	457,200	
26	82.7	143.4	449,600	
28	81.9	143.1	406,700	
30	81.0	142.7	347,400	
32	80.2	142.3	299,700	
34	79.3	141.9	260,400	
36	78.5	141.5	227,500	
38	77.6	141.0	199,600	
40	76.8	140.5	175,700	
45	74.6	139.1	128,200	
50	72.4	137.4	93,100	
55	70.2	135.6	66,100	
60	68.0	133.5	44,600	
65	65.7	131.2	27,200	
70	63.3	128.7	12,700	

REFERENCE

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ASME B30.5

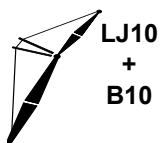


<p>157.5 ft</p>			
ft	°	ft	lb
24	84.4	163.5	421,100
26	83.6	163.3	414,700
28	82.9	163.0	408,600
30	82.2	162.7	355,600
32	81.4	162.3	307,500
34	80.7	162.0	268,000
36	79.9	161.6	234,900
38	79.2	161.2	206,800
40	78.5	160.7	182,600
45	76.6	159.5	134,900
50	74.7	158.1	99,500
55	72.8	156.5	72,300
60	70.9	154.8	50,700
65	68.9	152.8	33,100
70	66.9	150.6	18,500
75	64.9	148.3	6,300

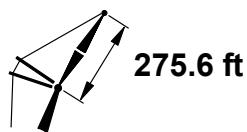
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MLC300 S-1

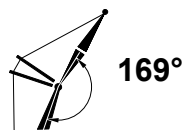
ASME B30.5



298,100 lb



275.6 ft



169°

98.4 ft

	ft	°	ft	lb
18	84.5	104.8	542,200	
19	83.9	104.6	536,700	
20	83.3	104.5	531,200	
21	82.7	104.3	525,800	
22	82.1	104.2	520,500	
24	80.9	103.8	510,400	
26	79.8	103.4	432,200	
28	78.6	102.9	359,200	
30	77.4	102.4	302,000	
32	76.2	101.9	256,000	
34	74.9	101.3	218,100	
36	73.7	100.6	186,400	
38	72.5	99.9	159,500	
40	71.3	99.2	136,400	
45	68.1	97.1	90,700	
50	64.9	94.8	56,800	
55	61.6	92.0	30,800	
60	58.1	88.8	10,200	

118.1 ft

	ft	°	ft	lb
19	84.9	124.5	511,500	
20	84.4	124.4	506,300	
21	83.9	124.2	501,200	
22	83.5	124.1	496,200	
24	82.5	123.8	486,600	
26	81.5	123.4	450,500	
28	80.5	123.0	376,800	
30	79.5	122.6	319,000	
32	78.5	122.2	272,500	
34	77.5	121.7	234,200	
36	76.5	121.2	202,200	
38	75.5	120.6	175,100	
40	74.5	120.0	151,700	
45	71.9	118.3	105,500	
50	69.3	116.4	71,400	
55	66.7	114.2	45,000	
60	64.0	111.7	24,200	
65	61.2	108.9	7,200	

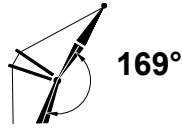
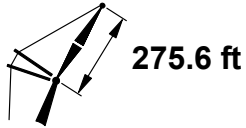
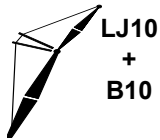
137.8 ft

	ft	°	ft	lb
21	84.8	144.1	458,900	
22	84.4	143.9	454,600	
24	83.6	143.7	446,300	
26	82.7	143.4	438,500	
28	81.9	143.1	389,300	
30	81.0	142.7	331,100	
32	80.2	142.3	284,200	
34	79.3	141.9	245,700	
36	78.5	141.5	213,400	
38	77.6	141.0	186,000	
40	76.8	140.5	162,500	
45	74.6	139.1	116,000	
50	72.4	137.4	81,500	
55	70.2	135.6	55,000	
60	68.0	133.5	33,900	
65	65.7	131.2	16,800	
70	63.3	128.7	2,700	

REFERENCE

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ASME B30.5

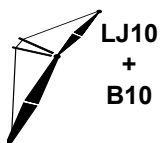


 157.5 ft			
ft	°	ft	lb
24	84.4	163.5	411,100
26	83.6	163.3	404,500
28	82.9	163.0	398,400
30	82.2	162.7	340,100
32	81.4	162.3	292,900
34	80.7	162.0	254,100
36	79.9	161.6	221,600
38	79.2	161.2	194,000
40	78.5	160.7	170,300
45	76.6	159.5	123,400
50	74.7	158.1	88,600
55	72.8	156.5	61,900
60	70.9	154.8	40,700
65	68.9	152.8	23,500
70	66.9	150.6	9,200

REFERENCE ONLY!

MLC300 S-1

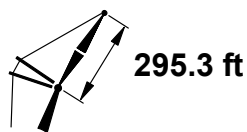
ASME B30.5



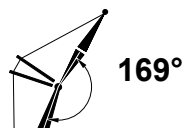
298,100 lb



360°



295.3 ft



169°

98.4 ft

	ft	°	ft	lb
18	84.5	104.8	528,300	
19	83.9	104.6	522,500	
20	83.3	104.5	516,800	
21	82.7	104.3	511,100	
22	82.1	104.2	505,700	
24	80.9	103.8	495,000	
26	79.8	103.4	408,000	
28	78.6	102.9	336,600	
30	77.4	102.4	280,600	
32	76.2	101.9	235,600	
34	74.9	101.3	198,500	
36	73.7	100.6	167,500	
38	72.5	99.9	141,200	
40	71.3	99.2	118,600	
45	68.1	97.1	73,900	
50	64.9	94.8	40,900	
55	61.6	92.0	15,500	

118.1 ft

	ft	°	ft	lb
19	84.9	124.5	498,100	
20	84.4	124.4	492,700	
21	83.9	124.2	487,500	
22	83.5	124.1	482,300	
24	82.5	123.8	472,300	
26	81.5	123.4	428,000	
28	80.5	123.0	355,900	
30	79.5	122.6	299,300	
32	78.5	122.2	253,800	
34	77.5	121.7	216,300	
36	76.5	121.2	185,000	
38	75.5	120.6	158,400	
40	74.5	120.0	135,500	
45	71.9	118.3	90,400	
50	69.3	116.4	56,900	
55	66.7	114.2	31,200	
60	64.0	111.7	10,800	

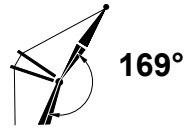
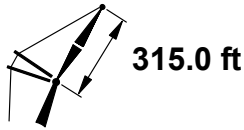
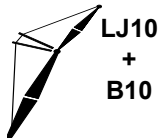
137.8 ft

	ft	°	ft	lb
21	84.8	144.1	446,200	
22	84.4	143.9	441,800	
24	83.6	143.7	433,300	
26	82.7	143.4	425,200	
28	81.9	143.1	369,700	
30	81.0	142.7	312,600	
32	80.2	142.3	266,700	
34	79.3	141.9	229,000	
36	78.5	141.5	197,400	
38	77.6	141.0	170,500	
40	76.8	140.5	147,500	
45	74.6	139.1	101,900	
50	72.4	137.4	68,200	
55	70.2	135.6	42,200	
60	68.0	133.5	21,600	
65	65.7	131.2	4,900	

REFER TO

MLC300 S-1

ASME B30.5



98.4 ft

ft	o	ft	lb
18	84.5	104.8	514,800
19	83.9	104.6	508,600
20	83.3	104.5	502,700
21	82.7	104.3	496,800
22	82.1	104.2	491,000
24	80.9	103.8	475,900
26	79.8	103.4	383,900
28	78.6	102.9	314,100
30	77.4	102.4	259,400
32	76.2	101.9	215,400
34	74.9	101.3	179,200
36	73.7	100.6	148,900
38	72.5	99.9	123,300
40	71.3	99.2	101,200
45	68.1	97.1	57,500
50	64.9	94.8	25,300

118.1 ft

ft	o	ft	lb
19	84.9	124.5	484,900
20	84.4	124.4	479,400
21	83.9	124.2	474,000
22	83.5	124.1	468,600
24	82.5	123.8	458,200
26	81.5	123.4	405,700
28	80.5	123.0	335,100
30	79.5	122.6	279,800
32	78.5	122.2	235,300
34	77.5	121.7	198,700
36	76.5	121.2	168,100
38	75.5	120.6	142,100
40	74.5	120.0	119,700
45	71.9	118.3	75,500
50	69.3	116.4	42,900
55	66.7	114.2	17,700

137.8 ft

ft	o	ft	lb
21	84.8	144.1	433,900
22	84.4	143.9	429,500
24	83.6	143.7	420,700
26	82.7	143.4	412,400
28	81.9	143.1	350,200
30	81.0	142.7	294,400
32	80.2	142.3	249,400
34	79.3	141.9	212,500
36	78.5	141.5	181,600
38	77.6	141.0	155,400
40	76.8	140.5	132,800
45	74.6	139.1	88,200
50	72.4	137.4	55,200
55	70.2	135.6	29,800
60	68.0	133.5	9,700

REFER TO