

Liftcrane Boom Capacities

Boom No. B60:500

with Mast No. M10:503 or Mast No. M11:503

386,000 lb VPC (Variable Position Counterweight)

360 Degree Rating

**MLC300
VPC-MAX
SERIES 2**



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

Upper boom point capacity for liftcrane service with single part whip line from Drum 6 is 30,000 lb or 60,000 lb with two part whip line. When Drum 2 or Drum 3 is used, capacity with single part whip line is 36,700 lb or 73,500 lb with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves is considered part of load. 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.

BOOM BACKWARD STABILITY: Capacities indicated by (b) requires 10,000 lb minimum weight suspended beneath boom point, (c) requires 22,000 lb minimum weight, and (d) requires 30,000 lb minimum weight. **Caution: Do not operate in areas indicated by (b), (c), or (d) without required minimum weight.** Boom may not lower and boom hoist wire rope may go slack causing wire rope damage or failure.

OPERATING CONDITIONS: Machine to operate on a firm, level, and uniformly supporting surface. Refer to Boom Rigging **No. 81023382**, Mast Rigging **No. 81025690** or **No. 84045340**, Wire Rope Specification chart **No. 9434-A**, Counterweight Arrangement **No. 9345-A**, and Wind Conditions chart **No. 9435-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 must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 9436-A**.

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



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



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



MACHINE EQUIPMENT: Machine equipped with VPC-MAX, 31 ft 10 in. crawlers, 48 in. or 60 in. treads, 30 ft live mast, 98.4 ft mast, 10 part boom hoist reeving, boom support straps, and 386,000 lb VPC.

Consult chart **No. 9477-A** when Jib No. 148 is attached.

MLC300 VPC-MAX S-2

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Luffing Jib Backstay Deduct	
Boom Length (ft)	Deduct (lb)
137.8	4,100
157.5	4,600
177.2	5,200
196.9	5,800
216.5	6,400
236.2	6,900
255.9	7,500
275.6	8,100
295.3	8,700
315.0	9,300
334.6	9,800
354.3	10,400
374.0	11,000
393.7	11,600
Deduct the appropriate value from capacities when luffing jib backstays are stored on boom.	

Deduct From Capacities When Jib No. 148 Is Attached	
Jib Length (ft)	Deduct (lb)
39.4	31,500
59.1	39,400
78.7	49,000
98.4	59,600
118.1	75,100
137.8	85,600
Weight of jib and 6,500 lb suspended beneath jib point have been included in determination of deduct.	

MLC300 VPC-MAX S-2

ASME B30.5



Refer to Table 1 (with luffing jib backstays stored) and Table 2 (without luffing jib backstays stored) for raising ability with the maximum weight of all load blocks, hooks, weight balls, slings, and hoist lines beneath boom point sheaves. For block weights shown with #, load blocks, hooks, weight balls, and slings must remain on ground until combined weights are within rated capacity of chart. Raising is not permitted in shaded areas of table.

Select counterweight position from Tables 1 or 2 that will allow raising and lowering of boom length. Counterweight position selection may be changed with boom on ground or while boom is within operating range of capacity chart.

Combined weight beneath boom point sheaves must not exceed block weight shown.

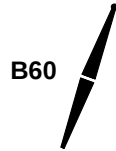
Table 1: With Luffing Jib Backstays

Over End or Side of Crawlers		
Boom Length (ft)	Counterweight Position	
	34.8 ft	48.0 ft
	Block Weight (lb)	
137.8	22,900	22,900
157.5	22,900	22,900
177.2	22,900	22,900
196.9	22,900	22,900
216.5	22,900	22,900
236.2	22,900	22,900
255.9	22,900	22,900
275.5	15,800	22,900
295.3	8,300	22,900
315.0	#	#
334.6	#	#
354.3	#	#
374.0	#	#
393.7	Raising Not Permitted	

Table 2: Without Luffing Jib Backstays

Over End or Side of Crawlers		
Boom Length (ft)	Counterweight Position	
	34.8 ft	48.0 ft
	Block Weight (lb)	
137.8	22,900	22,900
157.5	22,900	22,900
177.2	22,900	22,900
196.9	22,900	22,900
216.5	22,900	22,900
236.2	22,900	22,900
255.9	22,900	22,900
275.5	22,900	22,900
295.3	15,800	22,900
315.0	8,300	8,300
334.6	#	#
354.3	#	#
374.0	#	#
393.7	#	#

Explanation of Symbols



Boom No. B60:500



VPC (Variable Position Counterweight)



360 Degree Rating



Boom Length



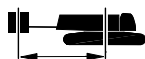
Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



Counterweight Position
from Axis of Rotation



Lifting Capacities
(see page 1)

MLC300 VPC-MAX S-2

ASME B30.5



B60



386,000 lb



137.8 ft				
ft	°	ft	lb	lb
22	84.4	143.9	661,400 d	661,400 d
24	83.6	143.7	661,400 c	661,400 c
26	82.7	143.4	661,400 c	661,400 c
28	81.9	143.1	661,400 c	661,400 c
30	81.0	142.7	649,500 c	649,500 c
32	80.2	142.3	631,300 b	631,300 b
34	79.3	141.9	614,100 b	614,100 b
36	78.5	141.5	575,100 b	597,700 b
38	77.6	141.0	537,900 b	582,000 b
40	76.8	140.5	504,900 b	567,100 b
45	74.6	139.1	436,700 b	567,100 b
50	72.4	137.4	383,800	549,600
55	70.2	135.6	341,300	483,000
60	68.0	133.5	306,600	430,100
65	65.7	131.2	277,700	387,100
70	63.3	128.7	253,200	351,400
75	61.0	125.9	232,200	321,400
80	58.5	122.8	213,900	295,700
85	56.0	119.4	198,000	273,500
90	53.4	115.7	183,900	254,100
95	50.7	111.5	171,300	237,000
100	47.9	107.0	160,100	221,800
105	45.0	102.0	149,900	208,300
110	41.9	96.4	140,800	196,100
115	38.5	90.2	132,400	185,000
120	34.9	83.1	124,700	175,000
125	31.0	75.0	117,700	165,900
130	26.4	65.2	111,200	157,500
135	20.9	53.0	105,100	149,700

157.5 ft				
ft	°	ft	lb	lb
24	84.4	163.5	613,000 c	613,000 c
26	83.6	163.3	613,000 c	613,000 c
28	82.9	163.0	613,000 c	613,000 c
30	82.2	162.7	613,000 b	613,000 b
32	81.4	162.3	599,600 b	599,600 b
34	80.7	162.0	584,200 b	584,200 b
36	79.9	161.6	569,400 b	569,400 b
38	79.2	161.2	537,900 b	555,300 b
40	78.5	160.7	504,800 b	541,800 b
45	76.6	159.5	436,500	520,400
50	74.7	158.1	383,400	520,400
55	72.8	156.5	340,900	483,000
60	70.9	154.8	306,100	430,000
65	68.9	152.8	277,000	386,900
70	66.9	150.6	252,500	351,200
75	64.9	148.3	231,400	321,000
80	62.9	145.7	213,100	295,300
85	60.8	142.8	197,100	273,000
90	58.6	139.8	183,000	253,600
95	56.5	136.4	170,400	236,500
100	54.2	132.8	159,200	221,300
105	51.9	128.9	149,000	207,700
110	49.5	124.6	139,800	195,500
115	47.0	119.9	131,500	184,500
120	44.4	114.8	123,800	174,500
125	41.7	109.2	116,800	165,300
130	38.8	103.0	110,300	156,900
135	35.7	96.1	104,300	149,200
140	32.3	88.3	98,700	142,100
145	28.6	79.3	93,500	135,400
150	24.3	68.7	88,700	129,300
155	19.1	55.2	84,100	123,500

MLC300 VPC-MAX S-2

ASME B30.5



B60



386,000 lb



360°

177.2 ft				
ft	°	ft	lb	lb
24	85.0	183.3	553,900 c	553,900c
26	84.3	183.1	553,900 c	553,900c
28	83.7	182.8	553,900 c	553,900c
30	83.0	182.6	553,900 b	553,900b
32	82.4	182.3	553,900 b	553,900b
34	81.7	182.0	553,900 b	553,900b
36	81.1	181.6	540,800 b	540,800b
38	80.4	181.2	528,200 b	528,200b
40	79.8	180.9	505,400	516,100
45	78.1	179.8	437,000	487,800
50	76.4	178.5	383,800	487,800
55	74.8	177.1	341,200	483,500
60	73.1	175.6	306,400	430,500
65	71.4	173.9	277,300	387,300
70	69.6	172.0	252,700	351,600
75	67.9	169.9	231,600	321,400
80	66.1	167.7	213,300	295,600
85	64.3	165.3	197,300	273,300
90	62.5	162.6	183,100	253,900
95	60.6	159.8	170,600	236,700
100	58.7	156.7	159,300	221,500
105	56.8	153.4	149,100	208,000
110	54.8	149.9	140,000	195,700
115	52.8	146.1	131,600	184,700
120	50.7	142.0	123,900	174,700
125	48.5	137.5	116,900	165,500
130	46.3	132.7	110,400	157,100
135	44.0	127.6	104,500	149,400
140	41.5	121.9	98,900	142,300
145	39.0	115.8	93,800	135,700
150	36.2	109.0	88,900	129,500
155	33.3	101.5	84,400	123,800
160	30.1	93.0	80,200	118,500
165	26.6	83.3	76,200	113,500
170	22.5	71.8	72,400	108,700
175	17.5	57.1	68,800	104,300

196.9 ft				
ft	°	ft	lb	lb
26	84.9	202.9	500,100 c	500,100c
28	84.3	202.7	500,100 b	500,100b
30	83.7	202.4	500,100 b	500,100b
32	83.2	202.2	500,100 b	500,100b
34	82.6	201.9	500,100 b	500,100b
36	82.0	201.6	500,100 b	500,100b
38	81.4	201.2	498,500	498,500
40	80.8	200.9	487,800	487,800
45	79.3	199.9	435,800	462,600
50	77.8	198.8	382,500	439,500
55	76.3	197.6	339,800	439,500
60	74.8	196.2	304,900	429,700
65	73.3	194.7	275,800	386,500
70	71.8	193.0	251,200	350,700
75	70.2	191.2	230,100	320,400
80	68.6	189.2	211,700	294,600
85	67.1	187.0	195,700	272,300
90	65.5	184.7	181,500	252,800
95	63.8	182.3	168,900	235,700
100	62.2	179.6	157,600	220,500
105	60.5	176.7	147,500	206,900
110	58.8	173.7	138,300	194,600
115	57.1	170.4	129,900	183,600
120	55.3	167.0	122,300	173,500
125	53.5	163.2	115,200	164,400
130	51.6	159.3	108,800	156,000
135	49.7	155.0	102,800	148,200
140	47.7	150.5	97,200	141,100
145	45.7	145.6	92,100	134,500
150	43.6	140.3	87,300	128,400
155	41.4	134.7	82,800	122,700
160	39.1	128.5	78,600	117,300
165	36.7	121.9	74,600	112,300
170	34.1	114.6	70,900	107,700
175	31.3	106.5	67,300	103,200
180	28.3	97.4	64,000	99,100
185	24.9	86.9	60,800	95,100
190	21.0	74.5	57,800	91,400
195	16.2	58.7	54,800	87,800

MLC300 VPC-MAX S-2

ASME B30.5



B60



386,000 lb



360°

216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	449,900 b	449,900b
30	84.3	222.3	449,900 b	449,900b
32	83.8	222.0	449,900 b	449,900b
34	83.2	221.8	449,900 b	449,900b
36	82.7	221.5	449,900	449,900
38	82.2	221.2	449,900	449,900
40	81.6	220.9	449,900	449,900
45	80.3	220.0	435,700	438,200
50	79.0	219.0	382,300	417,700
55	77.6	217.9	339,600	405,500
60	76.2	216.6	304,700	405,500
65	74.9	215.2	275,600	386,500
70	73.5	213.7	250,900	350,600
75	72.1	212.1	229,800	320,400
80	70.7	210.3	211,400	294,600
85	69.3	208.4	195,400	272,200
90	67.8	206.3	181,200	252,700
95	66.4	204.1	168,600	235,600
100	64.9	201.8	157,300	220,300
105	63.4	199.2	147,100	206,700
110	61.9	196.6	137,900	194,500
115	60.4	193.7	129,600	183,400
120	58.9	190.7	121,900	173,400
125	57.3	187.4	114,900	164,200
130	55.7	184.0	108,400	155,800
135	54.1	180.4	102,400	148,100
140	52.4	176.5	96,900	140,900
145	50.7	172.4	91,800	134,300
150	48.9	168.0	87,000	128,200
155	47.1	163.4	82,500	122,500
160	45.2	158.4	78,300	117,200
165	43.3	153.1	74,300	112,200
170	41.3	147.4	70,600	107,500
175	39.2	141.3	67,100	103,100
180	37.0	134.7	63,800	99,000
185	34.7	127.6	60,600	95,100
190	32.3	119.7	57,600	91,400
195	29.6	111.1	54,800	87,800
200	26.7	101.4	52,100	84,500
210	19.8	77.0	47,000	78,300

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	390,100 b	390,100b
32	84.3	241.8	390,100	390,100
34	83.8	241.6	390,100	390,100
36	83.3	241.3	390,100	390,100
38	82.8	241.1	390,100	390,100
40	82.3	240.8	390,100	390,100
45	81.1	240.0	390,100	390,100
50	79.9	239.1	389,600	389,600
55	78.6	238.0	358,800	377,100
60	77.4	236.9	321,900	372,700
65	76.2	235.6	291,100	365,500
70	74.9	234.3	265,100	349,400
75	73.6	232.8	242,700	319,100
80	72.4	231.2	223,400	293,200
85	71.1	229.4	206,400	270,900
90	69.8	227.6	191,500	251,300
95	68.5	225.6	178,200	234,200
100	67.2	223.5	166,300	218,900
105	65.8	221.2	155,500	205,300
110	64.5	218.8	145,800	193,000
115	63.1	216.2	137,000	182,000
120	61.7	213.5	128,900	171,900
125	60.3	210.6	121,500	162,700
130	58.9	207.6	114,700	154,300
135	57.5	204.4	108,400	146,600
140	56.0	201.0	102,600	139,500
145	54.5	197.4	97,100	132,800
150	53.0	193.7	92,100	126,700
155	51.5	189.7	87,300	121,000
160	49.9	185.4	82,900	115,700
165	48.2	181.0	78,700	110,700
170	46.6	176.2	74,800	106,000
175	44.8	171.2	71,100	101,600
180	43.1	165.9	67,700	97,500
185	41.2	160.2	64,400	93,600
190	39.3	154.1	61,200	89,900
195	37.3	147.5	58,300	86,400
200	35.2	140.5	55,400	83,100
210	30.7	124.6	50,200	76,900
220	25.4	105.1	45,400	71,300
230	18.6	79.2	40,900	66,200

MLC300 VPC-MAX S-2

ASME B30.5



B60



386,000 lb



360°

255.9 ft				
ft	°	ft	lb	lb
32	84.7	261.6	324,700	324,700
34	84.3	261.4	324,700	324,700
36	83.8	261.2	324,700	324,700
38	83.4	260.9	324,700	324,700
40	82.9	260.7	324,700	324,700
45	81.8	259.9	324,700	324,700
50	80.7	259.1	324,700	324,700
55	79.5	258.1	324,700	324,700
60	78.4	257.1	321,300	324,700
65	77.2	255.9	290,400	324,700
70	76.1	254.7	264,400	324,700
75	74.9	253.3	242,000	318,700
80	73.8	251.8	222,600	292,800
85	72.6	250.3	205,600	270,400
90	71.4	248.5	190,600	250,900
95	70.2	246.7	177,300	233,600
100	69.0	244.8	165,400	218,400
105	67.8	242.7	154,600	204,700
110	66.6	240.5	144,900	192,500
115	65.3	238.2	136,100	181,400
120	64.1	235.8	128,000	171,300
125	62.8	233.2	120,600	162,100
130	61.6	230.5	113,700	153,700
135	60.3	227.6	107,400	146,000
140	59.0	224.6	101,600	138,800
145	57.6	221.4	96,200	132,200
150	56.3	218.0	91,100	126,100
155	54.9	214.5	86,400	120,400
160	53.5	210.8	82,000	115,100
165	52.1	206.9	77,800	110,100
170	50.7	202.8	73,900	105,400
175	49.2	198.5	70,200	101,000
180	47.7	193.9	66,800	96,900
185	46.1	189.1	63,500	93,000
190	44.5	184.0	60,400	89,300
195	42.9	178.6	57,400	85,800
200	41.2	172.9	54,600	82,500
210	37.6	160.4	49,400	76,400
220	33.7	146.0	44,600	70,800
230	29.3	129.1	40,200	65,700
240	24.1	108.5	36,200	61,100
250	17.6	81.1	32,400	56,700

275.6 ft				
ft	°	ft	lb	lb
34	84.7	281.2	275,800	275,800
36	84.3	281.0	275,800	275,800
38	83.9	280.8	275,800	275,800
40	83.4	280.5	275,800	275,800
45	82.4	279.8	275,800	275,800
50	81.3	279.1	275,800	275,800
55	80.3	278.2	275,800	275,800
60	79.2	277.2	275,800	275,800
65	78.2	276.1	275,800	275,800
70	77.1	275.0	275,400	275,800
75	76.0	273.7	250,700	275,800
80	75.0	272.4	229,600	275,800
85	73.9	270.9	211,400	268,900
90	72.8	269.3	195,500	249,300
95	71.7	267.7	181,500	232,100
100	70.6	265.9	169,100	216,800
105	69.5	264.0	158,000	203,200
110	68.3	262.0	148,000	190,900
115	67.2	259.9	139,000	179,800
120	66.1	257.6	130,800	169,700
125	64.9	255.3	123,300	160,500
130	63.8	252.8	116,400	152,100
135	62.6	250.2	110,100	144,400
140	61.4	247.4	104,300	137,200
145	60.2	244.6	98,900	130,600
150	59.0	241.5	94,000	124,500
155	57.8	238.4	89,300	118,800
160	56.5	235.0	85,000	113,400
165	55.3	231.6	80,900	108,400
170	54.0	227.9	77,100	103,800
175	52.7	224.1	73,500	99,400
180	51.3	220.1	70,100	95,200
185	50.0	215.9	67,000	91,300
190	48.6	211.4	63,700	87,600
195	47.2	206.8	60,600	84,200
200	45.7	201.9	57,700	80,900
210	42.7	191.4	52,200	74,700
220	39.5	179.6	47,300	69,200
230	36.0	166.3	42,700	64,100
240	32.2	151.2	38,500	59,500
250	28.0	133.4	34,600	55,200
260	23.0	111.7	31,000	51,300
270	16.7	82.9	27,600	47,600

MLC300 VPC-MAX S-2

ASME B30.5



B60



386,000 lb



360°

295.3 ft				
ft	°	ft	lb	lb
36	84.7	300.8	231,200	231,200
38	84.3	300.6	231,200	231,200
40	83.9	300.4	231,200	231,200
45	82.9	299.7	231,200	231,200
50	81.9	299.0	231,200	231,200
55	80.9	298.2	231,200	231,200
60	80.0	297.3	231,200	231,200
65	79.0	296.3	231,200	231,200
70	78.0	295.2	231,200	231,200
75	77.0	294.0	231,200	231,200
80	76.0	292.8	229,400	231,200
85	75.0	291.4	211,200	231,200
90	74.0	289.9	195,300	229,900
95	72.9	288.4	181,300	225,400
100	71.9	286.7	168,800	216,600
105	70.9	285.0	157,700	202,900
110	69.9	283.1	147,700	190,600
115	68.8	281.2	138,700	179,500
120	67.8	279.1	130,500	169,500
125	66.7	277.0	123,000	160,300
130	65.7	274.7	116,200	151,800
135	64.6	272.3	109,900	144,100
140	63.5	269.8	104,100	136,900
145	62.4	267.1	98,700	130,300
150	61.3	264.4	93,700	124,200
155	60.2	261.5	89,000	118,500
160	59.0	258.5	84,700	113,200
165	57.9	255.3	80,600	108,200
170	56.7	252.0	76,800	103,500
175	55.5	248.6	73,200	99,100
180	54.4	245.0	69,900	95,000
185	53.1	241.2	66,600	91,100
190	51.9	237.3	63,300	87,400
195	50.6	233.2	60,200	83,900
200	49.4	228.9	57,300	80,600
210	46.7	219.7	51,800	74,500
220	44.0	209.6	46,900	68,900
230	41.1	198.4	42,300	63,900
240	38.0	186.0	38,200	59,300
250	34.6	172.0	34,300	55,100
260	31.0	156.1	30,800	51,100
270	26.9	137.4	27,400	47,500
280	22.1	114.7	24,300	44,100
290	15.9	84.4	21,400	40,900

315.0 ft				
ft	°	ft	lb	lb
36	85.0	320.6	199,400	199,400
38	84.6	320.4	199,400	199,400
40	84.3	320.2	199,400	199,400
45	83.4	319.6	199,400	199,400
50	82.4	318.9	199,400	199,400
55	81.5	318.1	199,400	199,400
60	80.6	317.3	199,400	199,400
65	79.7	316.4	199,400	199,400
70	78.7	315.3	199,400	199,400
75	77.8	314.2	199,400	199,400
80	76.9	313.1	199,400	199,400
85	75.9	311.8	199,400	199,400
90	75.0	310.4	193,800	199,400
95	74.0	309.0	179,800	199,400
100	73.1	307.5	167,300	199,400
105	72.1	305.8	156,200	199,400
110	71.2	304.1	146,200	189,100
115	70.2	302.3	137,200	178,000
120	69.2	300.4	128,900	167,900
125	68.3	298.4	121,500	158,700
130	67.3	296.3	114,600	150,300
135	66.3	294.0	108,300	142,500
140	65.3	291.7	102,500	135,400
145	64.3	289.3	97,100	128,700
150	63.2	286.8	92,100	122,600
155	62.2	284.1	87,400	116,900
160	61.2	281.3	83,100	111,500
165	60.1	278.5	79,000	106,500
170	59.1	275.5	75,200	101,900
175	58.0	272.3	71,400	97,500
180	56.9	269.0	67,800	93,300
185	55.8	265.6	64,300	89,400
190	54.7	262.1	61,100	85,700
195	53.6	258.4	58,000	82,300
200	52.4	254.5	55,000	79,000
210	50.0	246.3	49,600	72,800
220	47.6	237.3	44,600	67,300
230	45.1	227.6	40,100	62,300
240	42.4	216.9	35,900	57,600
250	39.6	205.1	32,100	53,400
260	36.6	192.0	28,500	49,500
270	33.4	177.4	25,200	45,900
280	29.8	160.7	22,200	42,500
290	25.9	141.3	19,300	39,400
300	21.2	117.5	16,500	36,400
310	15.1	85.8	13,900	33,600

MLC300 VPC-MAX S-2

ASME B30.5



B60



386,000 lb



360°

334.6 ft				
ft	°	ft	lb	lb
38	85.0	340.2	168,100	168,100
40	84.6	340.0	168,100	168,100
45	83.7	339.4	168,100	168,100
50	82.9	338.8	168,100	168,100
55	82.0	338.1	168,100	168,100
60	81.2	337.3	168,100	168,100
65	80.3	336.4	168,100	168,100
70	79.4	335.4	168,100	168,100
75	78.5	334.4	168,100	168,100
80	77.7	333.3	168,100	168,100
85	76.8	332.1	168,100	168,100
90	75.9	330.8	168,100	168,100
95	75.0	329.5	168,100	168,100
100	74.1	328.0	166,800	168,100
105	73.2	326.5	155,700	168,100
110	72.3	324.9	145,600	167,100
115	71.4	323.2	136,600	166,100
120	70.5	321.4	128,400	163,600
125	69.6	319.6	120,900	158,100
130	68.7	317.6	114,000	149,700
135	67.8	315.5	107,700	142,000
140	66.8	313.4	101,900	134,800
145	65.9	311.1	96,500	128,200
150	64.9	308.8	91,500	122,000
155	64.0	306.3	86,900	116,300
160	63.0	303.8	82,500	111,000
165	62.1	301.1	78,500	106,000
170	61.1	298.3	74,500	101,300
175	60.1	295.4	70,600	96,900
180	59.1	292.4	67,000	92,800
185	58.1	289.3	63,600	88,900
190	57.1	286.0	60,300	85,200
195	56.0	282.6	57,200	81,700
200	55.0	279.1	54,300	78,400
210	52.8	271.7	48,800	72,300
220	50.6	263.6	43,900	66,800
230	48.4	254.9	39,400	61,800
240	46.0	245.4	35,200	57,200
250	43.6	235.1	31,400	52,900
260	41.0	223.9	27,900	49,000
270	38.3	211.5	24,600	45,400
280	35.4	197.9	21,600	42,100
290	32.2	182.6	18,700	39,000
300	28.8	165.2	16,000	36,100
310	24.9	144.9	13,500	33,300
320	20.4	120.2	11,100	30,700

354.3 ft				
ft	°	ft	lb	lb
40	84.9	359.8	147,400	147,400
45	84.1	359.2	147,400	147,400
50	83.3	358.6	147,400	147,400
55	82.5	357.9	147,400	147,400
60	81.7	357.2	147,400	147,400
65	80.8	356.4	147,400	147,400
70	80.0	355.5	147,400	147,400
75	79.2	354.5	147,400	147,400
80	78.4	353.5	147,400	147,400
85	77.5	352.3	147,400	147,400
90	76.7	351.1	147,400	147,400
95	75.9	349.9	147,400	147,400
100	75.0	348.5	147,400	147,400
105	74.2	347.1	147,000	147,000
110	73.3	345.6	143,000	143,000
115	72.5	344.0	135,100	139,200
120	71.6	342.3	126,800	135,500
125	70.8	340.6	119,300	131,900
130	69.9	338.7	112,500	128,500
135	69.1	336.8	106,100	125,100
140	68.2	334.8	100,300	121,900
145	67.3	332.7	94,900	118,900
150	66.4	330.5	89,900	115,800
155	65.5	328.2	85,300	113,000
160	64.6	325.8	80,700	109,400
165	63.7	323.3	76,300	104,400
170	62.8	320.7	72,200	99,700
175	61.9	318.1	68,400	95,300
180	61.0	315.3	64,700	91,200
185	60.1	312.4	61,300	87,300
190	59.1	309.4	58,000	83,600
195	58.2	306.2	54,900	80,100
200	57.2	303.0	52,000	76,800
210	55.2	296.2	46,600	70,700
220	53.2	288.8	41,600	65,200
230	51.2	280.9	37,100	60,100
240	49.0	272.4	33,000	55,500
250	46.8	263.1	29,200	51,300
260	44.6	253.2	25,600	47,400
270	42.2	242.4	22,400	43,800
280	39.7	230.6	19,300	40,500
290	37.0	217.7	16,500	37,400
300	34.2	203.5	13,900	34,500
310	31.2	187.5	11,400	31,800
320	27.8	169.4		29,200
330	24.1	148.3		26,800
340	19.6	122.6		24,500

MLC300 VPC-MAX S-2

ASME B30.5



B60



386,000 lb



360°

374.0 ft				
ft	°	ft	lb	lb
45	84.4	379.0	129,200	129,200
50	83.6	378.5	129,200	129,200
55	82.9	377.8	129,200	129,200
60	82.1	377.1	129,200	129,200
65	81.3	376.3	129,200	129,200
70	80.5	375.5	129,200	129,200
75	79.8	374.6	129,200	129,200
80	79.0	373.6	129,200	129,200
85	78.2	372.5	129,100	129,100
90	77.4	371.4	129,000	129,000
95	76.6	370.2	128,900	128,900
100	75.8	368.9	128,700	128,700
105	75.0	367.6	128,400	128,400
110	74.2	366.1	127,600	127,600
115	73.4	364.6	126,800	126,800
120	72.6	363.1	124,700	124,700
125	71.8	361.4	118,700	121,500
130	71.0	359.7	111,800	118,500
135	70.2	357.9	105,500	115,500
140	69.4	356.0	99,700	112,600
145	68.6	354.0	94,300	109,900
150	67.7	351.9	89,300	107,300
155	66.9	349.8	84,400	104,700
160	66.1	347.6	79,800	102,200
165	65.2	345.2	75,400	99,700
170	64.4	342.8	71,300	97,400
175	63.5	340.3	67,400	94,700
180	62.7	337.7	63,800	90,500
185	61.8	335.0	60,400	86,600
190	60.9	332.2	57,100	82,900
195	60.0	329.3	54,000	79,500
200	59.1	326.3	51,100	76,200
210	57.3	320.0	45,700	70,000
220	55.5	313.2	40,700	64,500
230	53.6	305.9	36,200	59,500
240	51.6	298.1	32,100	54,900
250	49.6	289.8	28,300	50,700
260	47.6	280.8	24,800	46,800
270	45.4	271.1	21,500	43,200
280	43.2	260.7	18,500	39,900
290	40.9	249.4	15,700	36,800
300	38.5	237.1	13,000	33,900
310	35.9	223.7	10,600	31,200
320	33.2	208.8		28,700
330	30.2	192.3		26,300
340	27.0	173.5		24,000
350	23.3	151.6		21,900
360	18.9	124.9		19,800

393.7 ft				
ft	°	ft	lb	lb
45	84.7	398.8	113,500	113,500
50	84.0	398.3	113,500	113,500
55	83.2	397.7	113,500	113,500
60	82.5	397.0	113,500	113,500
65	81.8	396.3	113,500	113,500
70	81.0	395.5	113,500	113,500
75	80.3	394.6	113,400	113,400
80	79.5	393.7	113,300	113,300
85	78.8	392.6	113,200	113,200
90	78.1	391.6	113,100	113,100
95	77.3	390.4	113,000	113,000
100	76.6	389.2	112,900	112,900
105	75.8	388.0	112,700	112,700
110	75.1	386.6	112,200	112,200
115	74.3	385.2	111,500	111,500
120	73.5	383.7	110,700	110,700
125	72.8	382.1	109,900	109,900
130	72.0	380.5	108,300	108,300
135	71.2	378.8	103,800	105,600
140	70.5	377.0	98,000	103,100
145	69.7	375.1	92,300	100,600
150	68.9	373.2	87,000	98,200
155	68.1	371.2	82,000	95,900
160	67.3	369.1	77,400	93,700
165	66.5	366.9	73,000	91,500
170	65.7	364.6	68,900	89,400
175	64.9	362.3	65,000	87,400
180	64.1	359.8	61,400	85,300
185	63.3	357.3	58,000	83,500
190	62.5	354.7	54,700	81,200
195	61.7	352.0	51,600	77,700
200	60.8	349.2	48,700	74,400
210	59.1	343.3	43,300	68,300
220	57.4	337.0	38,300	62,800
230	55.7	330.2	33,800	57,700
240	53.9	323.0	29,700	53,100
250	52.0	315.3	25,900	48,900
260	50.2	307.1	22,400	45,100
270	48.2	298.3	19,100	41,500
280	46.2	288.9	16,100	38,100
290	44.1	278.8	13,300	35,000
300	42.0	267.9	10,700	32,200
310	39.7	256.1		29,500
320	37.4	243.3		26,900
330	34.9	229.4		24,600
340	32.2	214.0		22,300
350	29.3	196.9		20,200
360	26.1	177.4		18,200
370	22.5	154.8		16,300
380	18.3	127.1		14,400