


Liftcrane Boom

Extended Upper Point Capacities

MLC300 VPC-MAX SERIES 3

Boom No. B87:505-500
with Mast No. M11:503 and
23.0 ft Extended Upper Boom Point
474,100 lb VPC (Variable Position Counterweight)
360 Degree Rating

 **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 (upper sheave) capacity for liftcrane service with single part whip line from Drum 6 is 30,000 lb. When Drum 2 or Drum 3 is used, capacity with single part whip line is 36,700 lb. In all cases, upper boom point capacities cannot exceed those listed for extended upper boom point (lower sheave) capacity.


Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath 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 5,200 lb minimum weight suspended beneath boom point. **Caution: Do not operate in areas indicated by (b) 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. 80134737**, Mast Rigging **No. 84045340**, Wire Rope Specifications chart **No. 9871-A**, Counterweight Arrangements chart **No. 9345-A**, and Wind Conditions chart **No. 9872-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 Specifications chart **No. 9870-A**.

 **EXTENDED UPPER BOOM POINT OPERATING RADIUS:** Extended upper boom point operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.

 **BOOM ANGLE:** Boom angle in degrees ($^{\circ}$) 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.

 **EXTENDED UPPER BOOM POINT ELEVATION:** Extended upper boom point elevation is vertical distance from ground level to centerline of extended upper 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 474,100 lb VPC.

MLC300 VPC-MAX S-3

ASME B30.5



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

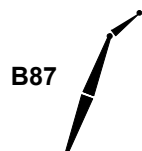
Select counterweight position from Table 1 that will allow raising and lowering of boom length. Counterweight position selection may be changed with boom on ground or while boom is within operating range of capacity chart.

Combined weight beneath extended upper boom point (lower or upper sheaves) must not exceed block weight shown.

Table 1: Without Luffing Jib Backstays

Over End or Side of Crawlers		
Boom Length (ft)	34.8 ft Counterweight Position	48.0 ft Counterweight Position
	Block Weight (lb)	
272.3	10,400	10,400
282.2	10,400	10,400
292.0	10,400	10,400
301.8	10,400	10,400
311.7	10,400	10,400
321.5	10,400	10,400
331.4	10,400	10,400
341.2	10,400	10,400
351.0	8,700	10,400
360.9	5,100	10,400
370.7	#	10,400
380.6	Raising Not Permitted	10,400
390.4		10,400
400.3		8,000
410.1		5,700
419.9		#
429.8	#	#

Explanation of Symbols



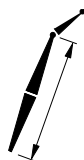
Boom No. B87:505-500



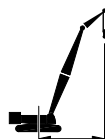
VPC (Variable Position Counterweight)



360 Degree Rating



Boom Length



Extended Upper Boom Point Operating Radius
(see page 1)



Boom Angle
(see page 1)



Extended Upper Boom Point Elevation
(see page 1)



Counterweight Position
from Axis of Rotation

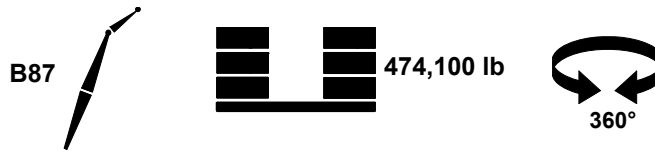


Lifting Capacities
(see page 1)

REFERENCE ONLY!

MLC300 VPC-MAX S-3

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272.3 ft				
ft	ft	ft	34.8 ft lb	48.0 ft lb
55	82.9	295.9	185,000b	185,000b
56	82.7	295.7	184,600	184,600
58	82.3	295.3	183,700	183,700
60	81.9	295.0	182,700	182,700
62	81.5	294.6	181,800	181,800
64	81.1	294.2	180,800	180,800
66	80.7	293.8	179,900	179,900
68	80.3	293.3	179,000	179,000
70	79.9	292.9	178,000	178,000
72	79.5	292.4	177,000	177,000
74	79.1	291.9	176,100	176,100
76	78.7	291.4	175,200	175,200
78	78.3	290.9	174,200	174,200
80	77.9	290.4	173,300	173,300
85	76.9	289.0	170,900	170,900
90	75.9	287.6	168,500	168,500
95	74.8	286.0	166,200	166,200
100	73.8	284.3	163,800	163,800
105	72.8	282.6	161,400	161,400
110	71.7	280.7	159,000	159,000
115	70.7	278.7	156,700	156,700
120	69.6	276.7	154,300	154,300
125	68.5	274.5	151,900	152,100
130	67.5	272.2	143,800	149,900
135	66.4	269.8	136,300	147,700
140	65.3	267.2	129,400	145,600
145	64.2	264.6	123,000	143,600
150	63.1	261.8	117,100	141,600
155	61.9	258.9	111,600	139,700
160	60.8	255.8	106,400	137,700
165	59.6	252.6	101,600	134,800
170	58.4	249.3	97,100	129,300
175	57.3	245.8	92,900	124,000
180	56.0	242.2	88,900	119,100
185	54.8	238.4	85,100	114,500
190	53.6	234.4	81,500	110,100
195	52.3	230.2	78,100	105,900
200	51.0	225.9	74,900	102,000
205	49.7	221.3	71,900	98,300
210	48.3	216.5	69,000	94,700
215	46.9	211.5	66,200	91,300
220	45.5	206.2	63,300	88,100
225	44.1	200.7	60,500	85,000
230	42.6	194.9	57,900	82,100
235	41.0	188.7	55,300	79,200
240	39.4	182.2	52,900	76,500
245	37.7	175.3	50,500	73,900
250	36.0	167.9	48,300	71,500
252	35.3	164.8	47,400	70,500

282.2 ft				
ft	ft	ft	34.8 ft lb	48.0 ft lb
56	82.9	305.7	187,800	187,800
58	82.5	305.3	187,000	187,000
60	82.2	305.0	186,100	186,100
62	81.8	304.6	185,200	185,200
64	81.4	304.2	184,300	184,300
66	81.0	303.8	183,500	183,500
68	80.6	303.4	182,500	182,500
70	80.2	302.9	181,700	181,700
72	79.8	302.5	180,800	180,800
74	79.5	302.0	179,900	179,900
76	79.1	301.6	179,000	179,000
78	78.7	301.1	178,100	178,100
80	78.3	300.6	177,200	177,200
85	77.3	299.2	175,000	175,000
90	76.3	297.8	172,700	172,700
95	75.3	296.3	170,400	170,400
100	74.3	294.7	168,200	168,200
105	73.3	293.0	165,800	165,800
110	72.3	291.2	163,400	163,400
115	71.3	289.3	161,200	161,200
120	70.3	287.3	158,800	158,800
125	69.3	285.2	150,800	156,600
130	68.2	283.0	142,700	154,300
135	67.2	280.7	135,200	152,100
140	66.2	278.2	128,300	150,000
145	65.1	275.7	121,900	147,900
150	64.0	273.0	116,000	145,800
155	62.9	270.2	110,500	143,800
160	61.8	267.3	105,300	139,600
165	60.7	264.3	100,500	133,700
170	59.6	261.1	96,000	128,100
175	58.5	257.8	91,700	122,900
180	57.3	254.3	87,700	118,000
185	56.2	250.7	84,000	113,300
190	55.0	246.9	80,400	108,900
195	53.8	243.0	77,000	104,800
200	52.5	238.9	73,800	100,900
205	51.3	234.6	70,800	97,100
210	50.0	230.1	67,600	93,600
215	48.7	225.4	64,600	90,200
220	47.4	220.4	61,700	87,000
225	46.0	215.3	59,000	83,900
230	44.6	209.9	56,300	80,900
235	43.2	204.2	53,800	78,100
240	41.7	198.2	51,300	75,400
245	40.2	191.9	49,000	72,800
250	38.6	185.2	46,700	70,300
255	37.0	178.1	44,600	67,900
260	35.3	170.5	42,500	65,600

MLC300 VPC-MAX S-3

ASME B30.5



B87



474,100 lb



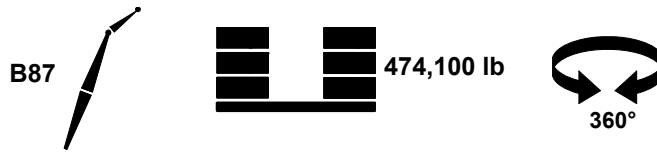
360°

292.0 ft				
ft	ft	ft	lb	lb
57	83.0	315.5	198,500	198,500
58	82.8	315.3	198,100	198,100
60	82.4	315.0	197,400	197,400
62	82.0	314.6	196,600	196,600
64	81.7	314.2	195,800	195,800
66	81.3	313.8	195,100	195,100
68	80.9	313.4	194,200	194,200
70	80.5	313.0	193,400	193,400
72	80.2	312.6	192,600	192,600
74	79.8	312.1	191,700	191,700
76	79.4	311.7	191,000	191,000
78	79.0	311.2	191,000	191,000
80	78.7	310.7	191,000	191,000
85	77.7	309.4	191,000	191,000
90	76.8	308.1	191,000	191,000
95	75.8	306.6	191,000	191,000
100	74.9	305.1	191,000	191,000
105	73.9	303.4	190,400	191,000
110	72.9	301.7	178,500	191,000
115	71.9	299.8	167,800	191,000
120	71.0	297.9	158,000	190,800
125	70.0	295.9	149,100	188,400
130	69.0	293.8	141,000	184,000
135	68.0	291.5	133,500	174,800
140	67.0	289.2	126,600	166,300
145	65.9	286.7	120,200	158,400
150	64.9	284.2	114,300	151,100
155	63.9	281.5	108,700	144,200
160	62.8	278.7	103,600	137,900
165	61.8	275.8	98,700	131,900
170	60.7	272.8	94,200	126,400
175	59.6	269.6	89,900	121,100
180	58.5	266.3	85,900	116,200
185	57.4	262.8	82,200	111,500
190	56.3	259.2	78,600	107,100
195	55.1	255.5	75,100	103,000
200	54.0	251.6	71,600	99,000
205	52.8	247.5	68,300	95,300
210	51.6	243.3	65,100	91,800
215	50.4	238.8	62,100	88,400
220	49.1	234.2	59,200	85,100
225	47.8	229.4	56,500	82,100
230	46.5	224.3	53,800	79,100
235	45.2	219.0	51,300	76,300
240	43.8	213.4	48,900	73,600
245	42.4	207.6	46,500	71,000
250	41.0	201.4	44,300	68,500
255	39.5	195.0	42,100	66,200
260	37.9	188.1	40,000	63,900
265	36.3	180.9	38,000	61,600
268	35.3	176.3	36,800	60,400

301.8 ft				
ft	ft	ft	lb	lb
59	82.8	325.1	209,100	209,100
60	82.6	324.9	209,100	209,100
62	82.3	324.6	209,100	209,100
64	81.9	324.2	209,100	209,100
66	81.6	323.8	209,100	209,100
68	81.2	323.5	209,100	209,100
70	80.8	323.1	209,100	209,100
72	80.5	322.6	209,100	209,100
74	80.1	322.2	209,100	209,100
76	79.7	321.8	209,100	209,100
78	79.4	321.3	209,100	209,100
80	79.0	320.8	209,100	209,100
85	78.1	319.6	209,100	209,100
90	77.2	318.3	207,100	207,100
95	76.3	316.9	203,600	203,600
100	75.3	315.4	200,000	200,000
105	74.4	313.8	189,300	195,800
110	73.5	312.1	177,500	191,200
115	72.5	310.3	166,700	186,800
120	71.6	308.5	157,000	182,600
125	70.6	306.5	148,100	178,600
130	69.7	304.5	139,900	174,700
135	68.7	302.3	132,400	171,000
140	67.7	300.1	125,500	165,100
145	66.7	297.7	119,100	157,300
150	65.7	295.2	113,100	149,900
155	64.7	292.7	107,600	143,100
160	63.7	290.0	102,400	136,800
165	62.7	287.2	97,600	130,800
170	61.7	284.3	93,100	125,200
175	60.7	281.2	88,800	120,000
180	59.6	278.1	84,800	115,000
185	58.5	274.8	81,000	110,400
190	57.5	271.3	77,200	106,000
195	56.4	267.8	73,500	101,800
200	55.3	264.0	70,000	97,900
205	54.1	260.2	66,700	94,200
210	53.0	256.1	63,500	90,600
215	51.8	251.9	60,500	87,200
220	50.7	247.6	57,600	84,000
225	49.5	243.0	54,900	80,900
230	48.2	238.2	52,200	78,000
235	47.0	233.2	49,700	75,200
240	45.7	228.0	47,300	72,500
245	44.4	222.6	45,000	69,900
250	43.0	216.9	42,700	67,400
255	41.6	210.9	40,600	65,000
260	40.2	204.6	38,500	62,700
265	38.7	198.0	36,500	60,500
270	37.2	191.0	34,500	58,400
275	35.6	183.6	32,700	56,300
276	35.3	182.0	32,300	55,900

MLC300 VPC-MAX S-3

ASME B30.5

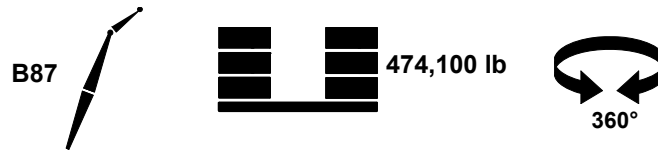


311.7 ft				
ft	ft	ft	lb	lb
60	82.9	334.9	220,500	220,500
62	82.5	334.6	220,500	220,500
64	82.2	334.2	220,500	220,500
66	81.8	333.9	220,500	220,500
68	81.5	333.5	220,500	220,500
70	81.1	333.1	220,500	220,500
72	80.8	332.7	219,800	219,800
74	80.4	332.3	218,400	218,400
76	80.1	331.8	217,100	217,100
78	79.7	331.4	215,800	215,800
80	79.4	330.9	214,500	214,500
85	78.5	329.7	211,300	211,300
90	77.6	328.4	207,200	207,200
95	76.7	327.1	202,000	202,000
100	75.8	325.6	196,800	196,800
105	74.9	324.1	189,100	191,900
110	74.0	322.5	177,200	187,200
115	73.1	320.8	166,400	182,700
120	72.1	319.0	156,700	178,400
125	71.2	317.1	147,700	174,200
130	70.3	315.1	139,600	170,200
135	69.4	313.0	132,100	166,500
140	68.4	310.8	125,200	162,800
145	67.5	308.6	118,800	156,900
150	66.5	306.2	112,800	149,600
155	65.6	303.7	107,300	142,800
160	64.6	301.1	102,100	136,400
165	63.6	298.5	97,300	130,500
170	62.6	295.7	92,700	124,900
175	61.6	292.7	88,500	119,600
180	60.6	289.7	84,500	114,700
185	59.6	286.5	80,600	110,100
190	58.6	283.3	76,700	105,700
195	57.5	279.8	73,000	101,500
200	56.5	276.3	69,500	97,600
205	55.4	272.6	66,200	93,800
210	54.3	268.7	63,000	90,300
215	53.2	264.8	60,000	86,900
220	52.1	260.6	57,200	83,700
225	50.9	256.3	54,400	80,600
230	49.8	251.8	51,800	77,600
235	48.6	247.1	49,200	74,800
240	47.4	242.2	46,800	72,100
245	46.2	237.1	44,500	69,600
250	44.9	231.7	42,300	67,100
255	43.6	226.1	40,100	64,700
260	42.3	220.3	38,000	62,400
265	40.9	214.2	36,000	60,200
270	39.5	207.7	34,100	58,100
275	38.1	201.0	32,300	56,100
280	36.6	193.8	30,500	54,100
284	35.3	187.8	29,100	52,600

321.5 ft				
ft	ft	ft	lb	lb
61	82.9	344.7	216,000	216,000
62	82.7	344.6	216,000	216,000
64	82.4	344.2	216,000	216,000
66	82.1	343.9	216,000	216,000
68	81.7	343.5	216,000	216,000
70	81.4	343.1	214,800	214,800
72	81.0	342.7	212,500	212,500
74	80.7	342.3	210,300	210,300
76	80.3	341.9	208,000	208,000
78	80.0	341.5	205,700	205,700
80	79.7	341.0	203,500	203,500
85	78.8	339.9	197,900	197,900
90	77.9	338.6	192,500	192,500
95	77.1	337.3	187,300	187,300
100	76.2	335.9	182,200	182,200
105	75.3	334.4	177,300	177,300
110	74.5	332.8	172,600	172,600
115	73.6	331.2	165,300	168,200
120	72.7	329.4	155,600	163,900
125	71.8	327.6	146,600	159,900
130	70.9	325.7	138,500	156,000
135	70.0	323.7	131,000	152,200
140	69.1	321.6	124,000	148,700
145	68.2	319.4	117,600	145,300
150	67.3	317.1	111,700	142,000
155	66.3	314.7	106,100	138,900
160	65.4	312.2	100,900	135,300
165	64.4	309.6	96,100	129,300
170	63.5	306.9	91,600	123,700
175	62.5	304.1	87,300	118,500
180	61.6	301.2	83,000	113,500
185	60.6	298.2	79,000	108,900
190	59.6	295.0	75,100	104,500
195	58.6	291.7	71,400	100,300
200	57.6	288.3	67,900	96,400
205	56.6	284.8	64,600	92,600
210	55.5	281.1	61,400	89,100
215	54.5	277.3	58,400	85,700
220	53.4	273.4	55,500	82,500
225	52.3	269.2	52,800	79,400
230	51.2	265.0	50,100	76,500
235	50.1	260.5	47,600	73,600
240	49.0	255.9	45,200	71,000
245	47.8	251.1	42,900	68,400
250	46.6	246.0	40,600	65,900
255	45.4	240.8	38,500	63,500
260	44.1	235.3	36,400	61,200
265	42.9	229.6	34,400	59,000
270	41.6	223.6	32,500	56,900
280	38.8	210.8	28,900	52,900
290	35.9	196.5	25,500	49,200
293	35.0	191.9	24,500	48,100

MLC300 VPC-MAX S-3

ASME B30.5



331.4 ft				
ft	ft	ft	lb	lb
62	82.9	354.5	209,200	209,200
64	82.6	354.2	209,200	209,200
66	82.3	353.8	209,200	209,200
68	81.9	353.5	209,200	209,200
70	81.6	353.1	209,200	209,200
72	81.3	352.7	209,200	209,200
74	81.0	352.3	208,200	208,200
76	80.6	351.9	205,900	205,900
78	80.3	351.5	203,700	203,700
80	80.0	351.1	201,500	201,500
85	79.1	350.0	196,000	196,000
90	78.3	348.8	190,700	190,700
95	77.4	347.5	185,400	185,400
100	76.6	346.1	180,400	180,400
105	75.8	344.7	175,400	175,400
110	74.9	343.1	170,700	170,700
115	74.1	341.5	165,000	166,100
120	73.2	339.9	155,300	161,800
125	72.3	338.1	146,300	157,800
130	71.5	336.2	138,200	153,800
135	70.6	334.3	130,600	150,000
140	69.7	332.3	123,700	146,400
145	68.8	330.1	117,300	142,900
150	67.9	327.9	111,300	139,600
155	67.0	325.6	105,800	136,500
160	66.1	323.2	100,600	133,500
165	65.2	320.7	95,800	129,000
170	64.3	318.1	91,200	123,400
175	63.4	315.4	86,900	118,100
180	62.4	312.6	82,500	113,200
185	61.5	309.7	78,500	108,500
190	60.6	306.6	74,600	104,100
195	59.6	303.5	70,900	100,000
200	58.6	300.2	67,400	96,000
205	57.6	296.8	64,100	92,300
210	56.6	293.3	60,900	88,700
215	55.6	289.7	57,900	85,400
220	54.6	285.9	55,000	82,100
225	53.6	282.0	52,300	79,100
230	52.5	277.9	49,600	76,100
235	51.5	273.6	47,100	73,300
240	50.4	269.2	44,700	70,600
245	49.3	264.7	42,400	68,000
250	48.2	259.9	40,200	65,600
255	47.0	255.0	38,000	63,200
260	45.8	249.8	36,000	60,900
265	44.6	244.5	34,000	58,700
270	43.4	238.9	32,100	56,600
280	40.9	226.9	28,400	52,600
290	38.2	213.8	25,000	48,900
300	35.3	199.2	21,800	45,400
301	35.0	197.7	21,500	45,100

341.2 ft				
ft	ft	ft	lb	lb
63	83.0	364.3	202,800	202,800
64	82.8	364.2	202,800	202,800
66	82.5	363.8	202,800	202,800
68	82.2	363.5	202,600	202,600
70	81.8	363.1	200,300	200,300
72	81.5	362.7	198,100	198,100
74	81.2	362.4	195,900	195,900
76	80.9	362.0	193,600	193,600
78	80.6	361.6	191,400	191,400
80	80.2	361.1	189,200	189,200
85	79.4	360.1	183,900	183,900
90	78.6	358.9	178,500	178,500
95	77.8	357.6	173,400	173,400
100	77.0	356.3	168,400	168,400
105	76.2	354.9	163,600	163,600
110	75.3	353.4	158,900	158,900
115	74.5	351.9	154,500	154,500
120	73.7	350.2	150,200	150,200
125	72.8	348.5	145,200	146,200
130	72.0	346.7	137,000	142,400
135	71.1	344.8	129,500	138,700
140	70.3	342.9	122,600	135,200
145	69.4	340.8	116,100	131,800
150	68.6	338.7	110,200	128,700
155	67.7	336.5	104,600	125,600
160	66.8	334.1	99,400	122,600
165	66.0	331.7	94,600	119,800
170	65.1	329.2	89,800	117,100
175	64.2	326.6	85,200	114,600
180	63.3	323.9	80,900	112,000
185	62.4	321.1	76,800	107,300
190	61.5	318.1	72,900	102,900
195	60.5	315.1	69,200	98,800
200	59.6	312.0	65,700	94,800
205	58.6	308.7	62,400	91,100
210	57.7	305.3	59,300	87,500
215	56.7	301.8	56,200	84,100
220	55.7	298.2	53,400	80,900
225	54.8	294.4	50,600	77,800
230	53.8	290.6	48,000	74,900
235	52.7	286.5	45,500	72,100
240	51.7	282.3	43,000	69,400
245	50.7	278.0	40,700	66,800
250	49.6	273.5	38,500	64,400
255	48.5	268.8	36,400	62,000
260	47.4	263.9	34,300	59,700
265	46.3	258.8	32,300	57,500
270	45.1	253.6	30,400	55,400
280	42.7	242.3	26,800	51,400
290	40.2	230.1	23,400	47,700
300	37.6	216.7	20,200	44,200
309	35.0	203.4	17,500	41,300

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351.0 ft				
ft	ft	ft	lb	lb
65	82.9	374.0	194,800	194,800
66	82.7	373.8	194,800	194,800
68	82.4	373.5	194,800	194,800
70	82.1	373.1	194,800	194,800
72	81.8	372.8	194,800	194,800
74	81.4	372.4	194,700	194,700
76	81.1	372.0	192,600	192,600
78	80.8	371.6	190,500	190,500
80	80.5	371.2	188,300	188,300
85	79.7	370.1	183,000	183,000
90	78.9	369.0	177,900	177,900
95	78.1	367.8	172,800	172,800
100	77.3	366.5	167,800	167,800
105	76.5	365.1	163,000	163,000
110	75.7	363.7	158,400	158,400
115	74.9	362.2	154,000	154,000
120	74.1	360.6	149,700	149,700
125	73.3	358.9	145,200	145,600
130	72.5	357.2	137,000	141,700
135	71.7	355.4	129,500	138,100
140	70.8	353.5	122,500	134,500
145	70.0	351.5	116,100	131,100
150	69.2	349.4	110,100	127,800
155	68.3	347.2	104,600	124,700
160	67.5	345.0	99,400	121,800
165	66.6	342.6	94,500	118,900
170	65.8	340.2	89,700	116,200
175	64.9	337.7	85,100	113,700
180	64.1	335.1	80,800	111,200
185	63.2	332.4	76,700	107,300
190	62.3	329.5	72,800	102,900
195	61.4	326.6	69,100	98,700
200	60.5	323.6	65,600	94,800
205	59.6	320.4	62,300	91,000
210	58.7	317.2	59,100	87,500
215	57.7	313.8	56,100	84,100
220	56.8	310.4	53,300	80,900
225	55.8	306.7	50,500	77,800
230	54.9	303.0	47,900	74,800
235	53.9	299.1	45,400	72,000
240	52.9	295.1	42,900	69,300
245	51.9	291.0	40,600	66,800
250	50.9	286.7	38,400	64,300
255	49.9	282.2	36,300	61,900
260	48.8	277.6	34,200	59,700
265	47.8	272.8	32,200	57,500
270	46.7	267.8	30,300	55,400
280	44.4	257.2	26,700	51,400
290	42.1	245.8	23,300	47,600
300	39.6	233.3	20,100	44,200
310	37.0	219.6	17,200	40,900
317	35.1	209.2	15,200	38,800

360.9 ft				
ft	ft	ft	lb	lb
66	82.9	383.8	184,600	184,600
68	82.6	383.4	184,600	184,600
70	82.3	383.1	184,600	184,600
72	82.0	382.7	184,600	184,600
74	81.7	382.4	184,000	184,000
76	81.4	382.0	181,900	181,900
78	81.1	381.6	179,900	179,900
80	80.7	381.2	177,800	177,800
85	80.0	380.2	172,600	172,600
90	79.2	379.1	167,500	167,500
95	78.4	377.9	162,500	162,500
100	77.7	376.7	157,800	157,800
105	76.9	375.3	153,100	153,100
110	76.1	373.9	148,500	148,500
115	75.3	372.5	144,200	144,200
120	74.5	370.9	140,000	140,000
125	73.8	369.3	136,000	136,000
130	73.0	367.6	132,300	132,300
135	72.2	365.8	128,300	128,700
140	71.4	364.0	121,300	125,300
145	70.6	362.1	114,900	121,900
150	69.7	360.1	108,900	118,800
155	68.9	358.0	103,400	115,800
160	68.1	355.8	98,100	112,900
165	67.3	353.5	92,900	110,100
170	66.5	351.2	88,000	107,500
175	65.6	348.7	83,400	105,000
180	64.8	346.2	79,100	102,500
185	63.9	343.5	75,000	100,200
190	63.1	340.8	71,100	98,100
195	62.2	338.0	67,400	96,000
200	61.3	335.1	63,900	93,500
205	60.5	332.1	60,600	89,800
210	59.6	328.9	57,500	86,200
215	58.7	325.7	54,400	82,800
220	57.8	322.3	51,600	79,600
225	56.9	318.9	48,800	76,500
230	55.9	315.3	46,200	73,600
235	55.0	311.6	43,700	70,800
240	54.1	307.7	41,200	68,100
245	53.1	303.7	38,900	65,500
250	52.1	299.6	36,700	63,100
255	51.1	295.4	34,600	60,700
260	50.1	290.9	32,500	58,400
265	49.1	286.4	30,500	56,200
270	48.1	281.6	28,600	54,100
280	46.0	271.6	25,000	50,100
290	43.8	260.8	21,600	46,400
300	41.4	249.1	18,500	42,900
310	39.0	236.4	15,500	39,700
320	36.4	222.4	12,700	36,700
325	35.1	214.9	11,400	35,200

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370.7 ft				
ft	ft	ft	lb	lb
67	82.9	393.6	175,200	175,200
68	82.8	393.4	175,200	175,200
70	82.5	393.1	175,200	175,200
72	82.2	392.7	175,200	175,200
74	81.9	392.4	175,100	175,100
76	81.6	392.0	173,000	173,000
78	81.3	391.6	170,900	170,900
80	81.0	391.3	169,000	169,000
85	80.2	390.3	163,800	163,800
90	79.5	389.2	158,800	158,800
95	78.7	388.0	154,000	154,000
100	78.0	386.8	149,300	149,300
105	77.2	385.5	144,800	144,800
110	76.5	384.2	140,400	140,400
115	75.7	382.7	136,200	136,200
120	74.9	381.2	132,100	132,100
125	74.2	379.7	128,200	128,200
130	73.4	378.0	124,500	124,500
135	72.6	376.3	121,000	121,000
140	71.9	374.5	117,600	117,600
145	71.1	372.6	114,400	114,400
150	70.3	370.7	108,500	111,400
155	69.5	368.6	103,000	108,500
160	68.7	366.5	97,500	105,600
165	67.9	364.3	92,300	103,000
170	67.1	362.0	87,500	100,400
175	66.3	359.7	82,900	98,000
180	65.5	357.2	78,500	95,600
185	64.7	354.7	74,400	93,400
190	63.8	352.0	70,500	91,200
195	63.0	349.3	66,800	89,100
200	62.1	346.5	63,400	87,200
205	61.3	343.6	60,000	85,300
210	60.4	340.5	56,900	83,500
215	59.6	337.4	53,900	81,800
220	58.7	334.2	51,000	79,200
225	57.8	330.8	48,200	76,100
230	56.9	327.4	45,600	73,200
235	56.0	323.8	43,100	70,400
240	55.1	320.1	40,700	67,700
245	54.2	316.3	38,400	65,100
250	53.3	312.3	36,100	62,700
255	52.3	308.3	34,000	60,300
260	51.4	304.0	31,900	58,000
270	49.4	295.1	28,100	53,700
280	47.4	285.6	24,500	49,700
290	45.3	275.4	21,100	46,000
300	43.1	264.3	17,900	42,600
310	40.8	252.4	15,000	39,300
320	38.4	239.4	12,200	35,200
330	35.9	225.2		31,600
333	35.1	220.7		30,600

380.6 ft				
ft	ft	ft	lb	lb
68	82.9	403.4	165,700	165,700
70	82.7	403.1	165,700	165,700
72	82.4	402.7	165,700	165,700
74	82.1	402.4	165,700	165,700
76	81.8	402.0	165,700	165,700
78	81.5	401.7	165,700	165,700
80	81.2	401.3	165,700	165,700
85	80.5	400.3	165,700	165,700
90	79.8	399.2	164,500	164,500
95	79.0	398.1	159,800	159,800
100	78.3	396.9	155,200	155,200
105	77.5	395.7	150,600	150,600
110	76.8	394.4	146,200	146,200
115	76.1	393.0	141,900	141,900
120	75.3	391.5	137,700	137,700
125	74.6	390.0	133,800	133,800
130	73.8	388.4	129,900	129,900
135	73.1	386.7	126,300	126,300
140	72.3	385.0	119,800	122,800
145	71.6	383.1	113,400	119,400
150	70.8	381.2	107,400	116,300
155	70.0	379.3	101,500	113,200
160	69.3	377.2	95,900	110,200
165	68.5	375.1	90,700	107,400
170	67.7	372.9	85,800	104,700
175	66.9	370.6	81,200	102,200
180	66.1	368.2	76,900	99,700
185	65.3	365.7	72,800	97,300
190	64.5	363.2	68,900	95,000
195	63.7	360.5	65,200	92,800
200	62.9	357.8	61,700	90,700
205	62.1	354.9	58,400	88,200
210	61.3	352.0	55,200	84,600
215	60.4	349.0	52,200	81,200
220	59.6	345.9	49,300	78,000
225	58.7	342.7	46,600	74,900
230	57.9	339.3	43,900	72,000
235	57.0	335.9	41,400	69,200
240	56.1	332.3	39,000	66,500
245	55.2	328.7	36,700	63,900
250	54.3	324.9	34,500	61,400
255	53.4	320.9	32,300	59,100
260	52.5	316.9	30,300	56,800
270	50.6	308.4	26,400	52,500
280	48.7	299.3	22,800	48,500
290	46.7	289.5	19,400	44,800
300	44.7	279.1	16,200	41,300
310	42.5	267.8	13,300	38,100
320	40.2	255.6	10,500	35,000
330	37.9	242.4		32,200
340	35.4	227.9		29,500
341	35.1	226.4		29,200

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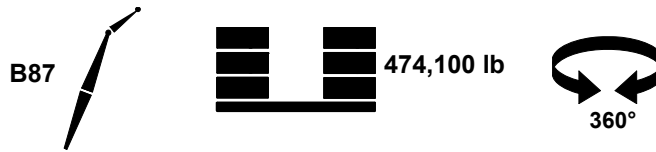


390.4 ft				
ft	ft	ft	lb	lb
69	83.0	413.2	156,900	156,900
70	82.8	413.0	156,900	156,900
72	82.6	412.7	156,900	156,900
74	82.3	412.4	156,900	156,900
76	82.0	412.0	156,900	156,900
78	81.7	411.7	156,900	156,900
80	81.4	411.3	156,900	156,900
85	80.7	410.3	156,900	156,900
90	80.0	409.3	156,700	156,700
95	79.3	408.2	152,100	152,100
100	78.6	407.1	147,700	147,700
105	77.9	405.8	143,300	143,300
110	77.1	404.6	139,100	139,100
115	76.4	403.2	134,900	134,900
120	75.7	401.8	130,900	130,900
125	75.0	400.3	127,100	127,100
130	74.2	398.7	123,400	123,400
135	73.5	397.1	119,900	119,900
140	72.8	395.4	116,600	116,600
145	72.0	393.6	113,400	113,400
150	71.3	391.8	108,200	110,200
155	70.5	389.8	102,600	107,300
160	69.8	387.8	97,000	104,400
165	69.0	385.8	91,800	101,700
170	68.3	383.6	86,900	99,100
175	67.5	381.4	82,300	96,500
180	66.7	379.1	78,000	94,100
185	66.0	376.7	73,900	91,900
190	65.2	374.2	70,000	89,700
195	64.4	371.6	66,300	87,600
200	63.6	369.0	62,800	85,500
205	62.8	366.2	59,500	83,600
210	62.0	363.4	56,300	81,700
215	61.2	360.5	53,300	80,000
220	60.4	357.5	50,500	78,300
225	59.6	354.4	47,700	75,800
230	58.7	351.1	45,100	72,900
235	57.9	347.8	42,600	70,000
240	57.1	344.4	40,200	67,400
245	56.2	340.8	37,800	64,800
250	55.3	337.2	35,600	62,300
255	54.5	333.4	33,500	59,900
260	53.6	329.5	31,400	57,700
270	51.8	321.4	27,600	53,400
280	49.9	312.6	24,000	49,400
290	48.0	303.3	20,600	45,700
300	46.1	293.4	17,400	42,200
310	44.0	282.7	14,500	39,000
320	41.9	271.2	11,700	36,000
330	39.7	258.8		33,100
340	37.3	245.3		30,400
349	35.1	232.1		27,200

400.3 ft				
ft	ft	ft	lb	lb
71	82.9	422.8	147,000	147,000
72	82.7	422.7	147,000	147,000
74	82.5	422.3	147,000	147,000
76	82.2	422.0	147,000	147,000
78	81.9	421.6	147,000	147,000
80	81.6	421.3	147,000	147,000
85	80.9	420.4	147,000	147,000
90	80.2	419.4	147,000	147,000
95	79.5	418.3	144,600	144,600
100	78.8	417.2	140,200	140,200
105	78.1	416.0	136,000	136,000
110	77.4	414.7	131,800	131,800
115	76.7	413.4	127,800	127,800
120	76.0	412.0	123,900	123,900
125	75.3	410.6	120,200	120,200
130	74.6	409.0	116,600	116,600
135	73.9	407.4	113,100	113,100
140	73.2	405.8	109,800	109,800
145	72.5	404.1	106,600	106,600
150	71.7	402.3	103,600	103,600
155	71.0	400.4	100,700	100,700
160	70.3	398.4	95,300	97,900
165	69.5	396.4	90,100	95,200
170	68.8	394.3	85,200	92,700
175	68.1	392.2	80,600	90,200
180	67.3	389.9	76,200	87,900
185	66.6	387.6	72,100	85,600
190	65.8	385.2	68,200	83,400
195	65.1	382.7	64,600	81,400
200	64.3	380.1	61,100	79,400
205	63.5	377.5	57,700	77,500
210	62.7	374.7	54,600	75,700
215	62.0	371.9	51,600	74,000
220	61.2	369.0	48,700	72,300
225	60.4	365.9	45,900	70,600
230	59.6	362.8	43,300	69,000
235	58.8	359.6	40,800	67,500
240	57.9	356.3	38,400	66,000
245	57.1	352.9	36,100	63,500
250	56.3	349.4	33,800	61,000
255	55.4	345.7	31,700	58,600
260	54.6	342.0	29,600	56,400
270	52.9	334.1	25,800	52,100
280	51.1	325.8	22,200	48,100
290	49.3	316.8	18,800	44,400
300	47.4	307.3	15,700	40,900
310	45.4	297.2	12,700	37,700
320	43.4	286.3		33,900
330	41.3	274.6		29,100
340	39.1	261.9		25,000
350	36.8	248.2		21,500
357	35.1	237.9		19,200

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410.1 ft				
ft	ft	ft	lb	lb
72	82.9	432.6	140,600	140,600
74	82.6	432.3	140,500	140,500
76	82.4	432.0	140,500	140,500
78	82.1	431.6	140,500	140,500
80	81.8	431.3	140,500	140,500
85	81.1	430.4	140,400	140,400
90	80.5	429.4	140,300	140,300
95	79.8	428.4	138,300	138,300
100	79.1	427.3	135,000	135,000
105	78.4	426.1	132,800	132,800
110	77.7	424.9	130,800	130,800
115	77.1	423.6	128,300	128,300
120	76.4	422.2	125,900	125,900
125	75.7	420.8	123,900	123,900
130	75.0	419.3	120,200	120,200
135	74.3	417.8	116,700	116,700
140	73.6	416.2	113,400	113,400
145	72.9	414.5	110,200	110,200
150	72.2	412.7	106,200	107,000
155	71.5	410.9	100,300	104,000
160	70.8	409.0	94,700	101,200
165	70.0	407.0	89,500	98,400
170	69.3	405.0	84,600	95,800
175	68.6	402.9	80,000	93,300
180	67.9	400.7	75,700	90,800
185	67.1	398.4	71,500	88,500
190	66.4	396.1	67,700	86,300
195	65.7	393.7	64,000	84,100
200	64.9	391.2	60,500	82,100
205	64.2	388.6	57,100	80,100
210	63.4	385.9	54,000	78,300
215	62.7	383.2	51,000	76,400
220	61.9	380.4	48,100	74,700
225	61.1	377.4	45,300	73,100
230	60.4	374.4	42,700	71,100
235	59.6	371.3	40,200	68,300
240	58.8	368.1	37,800	65,600
245	58.0	364.8	35,500	63,100
250	57.2	361.4	33,200	60,600
255	56.4	357.9	31,100	58,200
260	55.5	354.3	29,100	55,900
270	53.9	346.7	25,200	51,600
280	52.2	338.6	21,600	47,700
290	50.4	330.1	18,200	44,000
300	48.6	321.0	15,100	40,500
310	46.8	311.3	12,100	37,300
320	44.8	300.9		34,200
330	42.9	289.8		31,400
340	40.8	277.9		28,700
350	38.6	265.0		25,200
360	36.3	251.1		21,400
365	35.1	243.6		19,700

419.9 ft				
ft	ft	ft	lb	lb
73	82.9	442.4	131,700	131,700
74	82.8	442.3	131,700	131,700
76	82.5	441.9	131,600	131,600
78	82.3	441.6	131,600	131,600
80	82.0	441.3	131,600	131,600
85	81.3	440.4	131,400	131,400
90	80.7	439.4	130,400	130,400
95	80.0	438.4	126,500	126,500
100	79.4	437.3	124,600	124,600
105	78.7	436.2	122,000	122,000
110	78.0	435.0	119,900	119,900
115	77.3	433.7	118,800	118,800
120	76.7	432.4	117,800	117,800
125	76.0	431.0	116,700	116,700
130	75.3	429.6	113,300	113,300
135	74.6	428.1	109,800	109,800
140	74.0	426.5	106,500	106,500
145	73.3	424.9	103,400	103,400
150	72.6	423.2	100,400	100,400
155	71.9	421.4	97,600	97,600
160	71.2	419.5	92,300	94,800
165	70.5	417.6	87,100	92,100
170	69.8	415.6	82,200	89,600
175	69.1	413.6	77,600	87,100
180	68.4	411.5	73,200	84,800
185	67.7	409.2	69,100	82,500
190	67.0	407.0	65,200	80,300
195	66.3	404.6	61,500	78,300
200	65.5	402.2	58,000	76,300
205	64.8	399.7	54,700	74,400
210	64.1	397.1	51,500	72,500
215	63.3	394.4	48,500	70,800
220	62.6	391.7	45,600	69,100
225	61.8	388.8	42,900	67,500
230	61.1	385.9	40,300	66,000
235	60.3	382.9	37,700	64,400
240	59.6	379.8	35,300	63,000
245	58.8	376.6	33,000	61,200
250	58.0	373.3	30,800	58,800
260	56.4	366.4	26,600	54,100
270	54.8	359.1	22,700	49,800
280	53.2	351.3	19,100	45,800
290	51.5	343.1	15,700	42,100
300	49.8	334.3	12,600	38,700
310	48.0	325.0		35,400
320	46.2	315.1		32,400
330	44.3	304.6		29,500
340	42.3	293.3		24,300
350	40.3	281.1		19,800
360	38.1	268.0		15,900
370	35.9	253.8		12,500
373	35.2	249.4		11,600

MLC300 VPC-MAX S-3

ASME B30.5



B87



474,100 lb



429.8 ft

ft	ft	ft	lb	lb
74	83.0	452.2	124,400	124,400
76	82.7	451.9	124,400	124,400
78	82.4	451.6	124,300	124,300
80	82.2	451.2	124,300	124,300
85	81.5	450.4	124,200	124,200
90	80.9	449.4	121,500	121,500
95	80.2	448.5	118,700	118,700
100	79.6	447.4	116,000	116,000
105	78.9	446.3	113,900	113,900
110	78.3	445.1	113,100	113,100
115	77.6	443.9	112,200	112,200
120	77.0	442.6	111,300	111,300
125	76.3	441.3	110,300	110,300
130	75.7	439.8	109,300	109,300
135	75.0	438.4	108,400	108,400
140	74.3	436.8	107,400	107,400
145	73.7	435.2	106,100	106,100
150	73.0	433.6	103,100	103,100
155	72.3	431.8	99,700	100,300
160	71.6	430.0	94,100	97,500
165	71.0	428.2	88,900	94,800
170	70.3	426.2	84,000	92,300
175	69.6	424.2	79,400	89,800
180	68.9	422.1	75,100	87,500
185	68.2	420.0	70,900	85,200
190	67.5	417.8	67,100	83,000
195	66.8	415.5	63,400	80,900
200	66.1	413.1	59,900	78,900
205	65.4	410.7	56,500	77,000
210	64.7	408.2	53,400	75,100
215	64.0	405.6	50,400	73,400
220	63.3	402.9	47,500	71,600
225	62.5	400.1	44,700	70,000
230	61.8	397.3	42,100	68,400
235	61.1	394.4	39,600	66,900
240	60.3	391.4	37,200	65,200
245	59.6	388.3	34,900	62,600
250	58.8	385.1	32,600	60,200
260	57.3	378.4	28,500	55,500
270	55.7	371.3	24,600	51,200
280	54.1	363.8	21,000	47,300
290	52.5	355.9	17,600	43,600
300	50.8	347.5	14,500	40,100
310	49.1	338.5	11,600	36,900
320	47.4	329.1		33,900
330	45.6	319.0		31,000
340	43.7	308.2		28,400
350	41.8	296.7		25,800
360	39.7	284.3		23,400
370	37.6	271.0		21,200
380	35.4	256.6		19,000
381	35.2	255.1		18,800

REFERENCE ONLY!