

Liftcrane Boom


Extended Upper Point Capacities

Boom No. B87:505-500
with Mast No. M11:503 and
23.0 ft Extended Upper Boom Point
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 (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.

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 386,000 lb VPC.

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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 1a: Without Luffing Jib Backstays

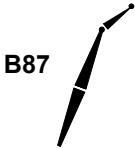


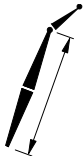





Over End or Side of Crawlers		
Boom Length (ft)	34.8 ft Counterweight Position	48.0 ft Counterweight Position
	Block Weight (lb)	
272.3	10,400	10,400
282.2	10,400	10,400
292.0	10,400	10,400
301.8	10,400	10,400
311.7	10,400	10,400
321.5	10,400	10,400
331.4	7,900	10,400
341.2	4,300	10,400
351.0	#	10,400
360.9		10,400
370.7	Raising Not Permitted	10,400
380.6		7,600
390.4		6,900
400.3		3,300
410.1		#

Table 1b: Without Luffing Jib Backstays

Over End of Blocked 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	7,700	10,400
351.0	5,700	10,400
360.9	#	10,400
370.7	Raising Not Permitted	10,400
380.6		8,300
390.4		7,600
400.3		4,000
410.1		#

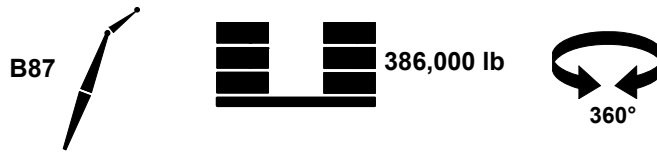
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. Crane tipping or structural damage can occur.

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)

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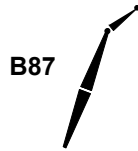


272.3 ft				
ft	ft	ft	34.8 ft lb	48.0 ft lb
55	82.9	295.9	185,000	185,000
56	82.7	295.7	184,600	184,600
58	82.3	295.3	183,700	183,700
60	81.9	295.0	182,700	182,700
62	81.5	294.6	181,800	181,800
64	81.1	294.2	180,800	180,800
66	80.7	293.8	179,900	179,900
68	80.3	293.3	179,000	179,000
70	79.9	292.9	178,000	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	160,400	161,400
110	71.7	280.7	150,200	159,000
115	70.7	278.7	141,000	156,700
120	69.6	276.7	132,700	154,300
125	68.5	274.5	125,100	152,100
130	67.5	272.2	118,100	149,900
135	66.4	269.8	111,600	145,800
140	65.3	267.2	105,700	138,600
145	64.2	264.6	100,200	131,900
150	63.1	261.8	95,100	125,600
155	61.9	258.9	90,400	119,800
160	60.8	255.8	85,900	114,400
165	59.6	252.6	81,800	109,300
170	58.4	249.3	77,900	104,600
175	57.3	245.8	74,200	100,100
180	56.0	242.2	70,800	95,900
185	54.8	238.4	67,500	91,900
190	53.6	234.4	64,500	88,100
195	52.3	230.2	61,300	84,600
200	51.0	225.9	58,300	81,200
205	49.7	221.3	55,400	78,000
210	48.3	216.5	52,600	75,000
215	46.9	211.5	50,000	72,100
220	45.5	206.2	47,500	69,300
225	44.1	200.7	45,100	66,700
230	42.6	194.9	42,800	64,100
235	41.0	188.7	40,600	61,700
240	39.4	182.2	38,500	59,400
245	37.7	175.3	36,400	57,200
250	36.0	167.9	34,500	55,000
252	35.3	164.8	33,700	54,200

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	159,400	165,800
110	72.3	291.2	149,200	163,400
115	71.3	289.3	140,000	161,200
120	70.3	287.3	131,600	158,800
125	69.3	285.2	124,000	156,600
130	68.2	283.0	117,000	152,600
135	67.2	280.7	110,600	144,800
140	66.2	278.2	104,600	137,500
145	65.1	275.7	99,100	130,800
150	64.0	273.0	94,000	124,500
155	62.9	270.2	89,300	118,700
160	61.8	267.3	84,800	113,300
165	60.7	264.3	80,700	108,200
170	59.6	261.1	76,800	103,400
175	58.5	257.8	73,100	99,000
180	57.3	254.3	69,700	94,700
185	56.2	250.7	66,300	90,800
190	55.0	246.9	63,000	87,000
195	53.8	243.0	59,800	83,400
200	52.5	238.9	56,700	80,100
205	51.3	234.6	53,800	76,900
210	50.0	230.1	51,100	73,800
215	48.7	225.4	48,500	70,900
220	47.4	220.4	46,000	68,200
225	46.0	215.3	43,600	65,500
230	44.6	209.9	41,300	63,000
235	43.2	204.2	39,000	60,600
240	41.7	198.2	36,900	58,300
245	40.2	191.9	34,900	56,000
250	38.6	185.2	32,900	53,900
255	37.0	178.1	31,000	51,900
260	35.3	170.5	29,200	49,900

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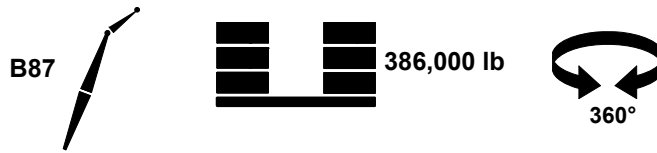


292.0 ft				
ft	ft	ft	lb	lb
57	83.0	315.5	198,500	198,500
58	82.8	315.3	198,100	198,100
60	82.4	315.0	197,400	197,400
62	82.0	314.6	196,600	196,600
64	81.7	314.2	195,800	195,800
66	81.3	313.8	195,100	195,100
68	80.9	313.4	194,200	194,200
70	80.5	313.0	193,400	193,400
72	80.2	312.6	192,600	192,600
74	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	181,900	191,000
100	74.9	305.1	169,200	191,000
105	73.9	303.4	157,800	191,000
110	72.9	301.7	147,600	190,500
115	71.9	299.8	138,400	179,200
120	71.0	297.9	130,000	168,900
125	70.0	295.9	122,300	159,500
130	69.0	293.8	115,300	151,000
135	68.0	291.5	108,900	143,100
140	67.0	289.2	102,900	135,800
145	65.9	286.7	97,400	129,000
150	64.9	284.2	92,300	122,800
155	63.9	281.5	87,500	117,000
160	62.8	278.7	83,100	111,500
165	61.8	275.8	78,900	106,400
170	60.7	272.8	75,000	101,700
175	59.6	269.6	71,100	97,200
180	58.5	266.3	67,400	92,900
185	57.4	262.8	63,800	89,000
190	56.3	259.2	60,500	85,200
195	55.1	255.5	57,300	81,600
200	54.0	251.6	54,200	78,300
205	52.8	247.5	51,300	75,100
210	51.6	243.3	48,600	72,000
215	50.4	238.8	46,000	69,100
220	49.1	234.2	43,500	66,400
225	47.8	229.4	41,100	63,700
230	46.5	224.3	38,800	61,200
235	45.2	219.0	36,600	58,800
240	43.8	213.4	34,400	56,500
245	42.4	207.6	32,400	54,200
250	41.0	201.4	30,500	52,100
255	39.5	195.0	28,600	50,100
260	37.9	188.1	26,800	48,100
265	36.3	180.9	25,000	46,200
268	35.3	176.3	24,000	45,100

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	195,300	207,100
95	76.3	316.9	180,900	203,600
100	75.3	315.4	168,200	200,000
105	74.4	313.8	156,800	195,800
110	73.5	312.1	146,600	189,400
115	72.5	310.3	137,300	178,100
120	71.6	308.5	128,900	167,800
125	70.6	306.5	121,200	158,500
130	69.7	304.5	114,200	149,900
135	68.7	302.3	107,800	142,000
140	67.7	300.1	101,800	134,700
145	66.7	297.7	96,300	127,900
150	65.7	295.2	91,200	121,700
155	64.7	292.7	86,400	115,800
160	63.7	290.0	81,900	110,400
165	62.7	287.2	77,800	105,300
170	61.7	284.3	73,500	100,500
175	60.7	281.2	69,600	96,000
180	59.6	278.1	65,800	91,800
185	58.5	274.8	62,200	87,800
190	57.5	271.3	58,900	84,100
195	56.4	267.8	55,700	80,500
200	55.3	264.0	52,600	77,100
205	54.1	260.2	49,800	73,900
210	53.0	256.1	47,000	70,900
215	51.8	251.9	44,400	68,000
220	50.7	247.6	41,900	65,200
225	49.5	243.0	39,500	62,600
230	48.2	238.2	37,200	60,000
235	47.0	233.2	35,000	57,600
240	45.7	228.0	32,900	55,300
245	44.4	222.6	30,800	53,100
250	43.0	216.9	28,900	51,000
255	41.6	210.9	27,000	48,900
260	40.2	204.6	25,200	47,000
265	38.7	198.0	23,500	45,100
270	37.2	191.0	21,800	43,200
275	35.6	183.6	20,100	41,500
276	35.3	182.0	19,800	41,100

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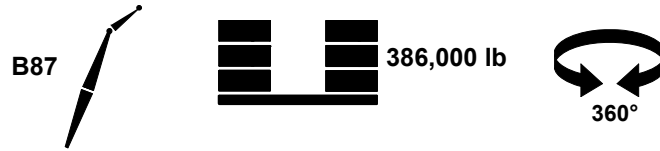


311.7 ft				
ft	ft	ft	lb	lb
60	82.9	334.9	220,500	220,500
62	82.5	334.6	220,500	220,500
64	82.2	334.2	220,500	220,500
66	81.8	333.9	220,500	220,500
68	81.5	333.5	220,500	220,500
70	81.1	333.1	220,500	220,500
72	80.8	332.7	219,800	219,800
74	80.4	332.3	218,400	218,400
76	80.1	331.8	217,100	217,100
78	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	195,000	207,200
95	76.7	327.1	180,700	202,000
100	75.8	325.6	167,900	196,800
105	74.9	324.1	156,500	191,900
110	74.0	322.5	146,300	187,200
115	73.1	320.8	137,000	177,800
120	72.1	319.0	128,600	167,500
125	71.2	317.1	120,900	158,100
130	70.3	315.1	113,900	149,600
135	69.4	313.0	107,400	141,600
140	68.4	310.8	101,500	134,400
145	67.5	308.6	96,000	127,600
150	66.5	306.2	90,800	121,300
155	65.6	303.7	86,100	115,500
160	64.6	301.1	81,600	110,000
165	63.6	298.5	77,300	105,000
170	62.6	295.7	73,000	100,200
175	61.6	292.7	69,100	95,700
180	60.6	289.7	65,300	91,500
185	59.6	286.5	61,700	87,500
190	58.6	283.3	58,400	83,700
195	57.5	279.8	55,200	80,200
200	56.5	276.3	52,100	76,800
205	55.4	272.6	49,300	73,600
210	54.3	268.7	46,500	70,500
215	53.2	264.8	43,900	67,600
220	52.1	260.6	41,400	64,900
225	50.9	256.3	39,000	62,200
230	49.8	251.8	36,700	59,700
235	48.6	247.1	34,500	57,300
240	47.4	242.2	32,400	55,000
245	46.2	237.1	30,400	52,800
250	44.9	231.7	28,400	50,700
255	43.6	226.1	26,600	48,600
260	42.3	220.3	24,800	46,700
265	40.9	214.2	23,000	44,800
270	39.5	207.7	21,300	42,900
275	38.1	201.0	19,700	41,200
280	36.6	193.8	18,100	39,500
284	35.3	187.8	16,900	38,200

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	179,600	187,300
100	76.2	335.9	166,900	182,200
105	75.3	334.4	155,500	177,300
110	74.5	332.8	145,200	172,600
115	73.6	331.2	135,900	168,200
120	72.7	329.4	127,500	163,900
125	71.8	327.6	119,800	157,000
130	70.9	325.7	112,800	148,400
135	70.0	323.7	106,300	140,500
140	69.1	321.6	100,300	133,200
145	68.2	319.4	94,800	126,500
150	67.3	317.1	89,700	120,200
155	66.3	314.7	84,900	114,300
160	65.4	312.2	80,200	108,900
165	64.4	309.6	75,700	103,800
170	63.5	306.9	71,400	99,000
175	62.5	304.1	67,400	94,500
180	61.6	301.2	63,700	90,300
185	60.6	298.2	60,100	86,300
190	59.6	295.0	56,700	82,500
195	58.6	291.7	53,600	79,000
200	57.6	288.3	50,500	75,600
205	56.6	284.8	47,600	72,400
210	55.5	281.1	44,900	69,300
215	54.5	277.3	42,300	66,400
220	53.4	273.4	39,800	63,700
225	52.3	269.2	37,400	61,000
230	51.2	265.0	35,100	58,500
235	50.1	260.5	32,900	56,100
240	49.0	255.9	30,800	53,800
245	47.8	251.1	28,800	51,600
250	46.6	246.0	26,800	49,500
255	45.4	240.8	24,900	47,400
260	44.1	235.3	23,100	45,500
265	42.9	229.6	21,400	43,600
270	41.6	223.6	19,700	41,800
280	38.8	210.8	16,600	38,300
290	35.9	196.5	13,600	35,100
293	35.0	191.9	12,700	34,200

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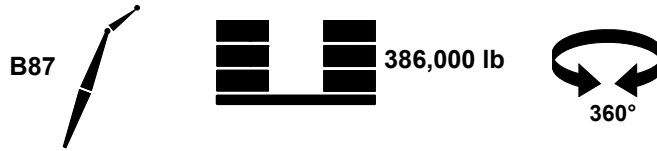


331.4 ft				
ft	ft	ft	lb	lb
62	82.9	354.5	209,200	209,200
64	82.6	354.2	209,200	209,200
66	82.3	353.8	209,200	209,200
68	81.9	353.5	209,200	209,200
70	81.6	353.1	209,200	209,200
72	81.3	352.7	209,200	209,200
74	81.0	352.3	208,200	208,200
76	80.6	351.9	205,900	205,900
78	80.3	351.5	203,700	203,700
80	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	179,400	185,400
100	76.6	346.1	166,600	180,400
105	75.8	344.7	155,200	175,400
110	74.9	343.1	144,900	170,700
115	74.1	341.5	135,600	166,100
120	73.2	339.9	127,200	161,800
125	72.3	338.1	119,500	156,700
130	71.5	336.2	112,500	148,100
135	70.6	334.3	106,000	140,200
140	69.7	332.3	100,000	132,900
145	68.8	330.1	94,500	126,100
150	67.9	327.9	89,400	119,900
155	67.0	325.6	84,500	114,000
160	66.1	323.2	79,700	108,600
165	65.2	320.7	75,200	103,500
170	64.3	318.1	70,900	98,700
175	63.4	315.4	66,900	94,200
180	62.4	312.6	63,200	90,000
185	61.5	309.7	59,600	86,000
190	60.6	306.6	56,200	82,200
195	59.6	303.5	53,100	78,600
200	58.6	300.2	50,000	75,300
205	57.6	296.8	47,100	72,100
210	56.6	293.3	44,400	69,000
215	55.6	289.7	41,800	66,100
220	54.6	285.9	39,300	63,300
225	53.6	282.0	36,900	60,700
230	52.5	277.9	34,600	58,200
235	51.5	273.6	32,400	55,800
240	50.4	269.2	30,300	53,500
245	49.3	264.7	28,300	51,300
250	48.2	259.9	26,300	49,100
255	47.0	255.0	24,500	47,100
260	45.8	249.8	22,700	45,100
265	44.6	244.5	20,900	43,300
270	43.4	238.9	19,300	41,400
280	40.9	226.9	16,100	38,000
290	38.2	213.8	13,100	34,800
300	35.3	199.2	10,300	31,800
301	35.0	197.7	10,100	31,500

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	165,500	168,400
105	76.2	354.9	154,100	163,600
110	75.3	353.4	143,800	158,900
115	74.5	351.9	134,500	154,500
120	73.7	350.2	126,100	150,200
125	72.8	348.5	118,400	146,200
130	72.0	346.7	111,300	142,400
135	71.1	344.8	104,900	138,700
140	70.3	342.9	98,900	131,700
145	69.4	340.8	93,300	125,000
150	68.6	338.7	87,900	118,700
155	67.7	336.5	82,800	112,800
160	66.8	334.1	78,000	107,400
165	66.0	331.7	73,500	102,300
170	65.1	329.2	69,300	97,500
175	64.2	326.6	65,300	93,000
180	63.3	323.9	61,500	88,800
185	62.4	321.1	58,000	84,800
190	61.5	318.1	54,600	81,000
195	60.5	315.1	51,400	77,400
200	59.6	312.0	48,400	74,100
205	58.6	308.7	45,500	70,800
210	57.7	305.3	42,700	67,800
215	56.7	301.8	40,100	64,900
220	55.7	298.2	37,600	62,100
225	54.8	294.4	35,200	59,500
230	53.8	290.6	32,900	57,000
235	52.7	286.5	30,700	54,600
240	51.7	282.3	28,600	52,300
245	50.7	278.0	26,600	50,000
250	49.6	273.5	24,700	47,900
255	48.5	268.8	22,800	45,900
260	47.4	263.9	21,000	43,900
265	46.3	258.8	19,300	42,100
270	45.1	253.6	17,600	40,200
280	42.7	242.3	14,500	36,800
290	40.2	230.1	11,500	33,600
300	37.6	216.7		30,600
309	35.0	203.4		28,100

MLC300 VPC-MAX S-2

ASME B30.5

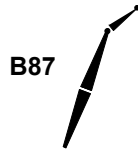


351.0 ft				
ft	ft	ft	lb	lb
65	82.9	374.0	194,800	194,800
66	82.7	373.8	194,800	194,800
68	82.4	373.5	194,800	194,800
70	82.1	373.1	194,800	194,800
72	81.8	372.8	194,800	194,800
74	81.4	372.4	194,700	194,700
76	81.1	372.0	192,600	192,600
78	80.8	371.6	190,500	190,500
80	80.5	371.2	188,300	188,300
85	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	165,500	167,800
105	76.5	365.1	154,100	163,000
110	75.7	363.7	143,800	158,400
115	74.9	362.2	134,500	154,000
120	74.1	360.6	126,100	149,700
125	73.3	358.9	118,400	145,600
130	72.5	357.2	111,300	141,700
135	71.7	355.4	104,800	138,100
140	70.8	353.5	98,800	131,700
145	70.0	351.5	93,300	124,900
150	69.2	349.4	87,800	118,600
155	68.3	347.2	82,700	112,800
160	67.5	345.0	77,900	107,300
165	66.6	342.6	73,400	102,200
170	65.8	340.2	69,200	97,400
175	64.9	337.7	65,200	92,900
180	64.1	335.1	61,400	88,700
185	63.2	332.4	57,800	84,700
190	62.3	329.5	54,500	80,900
195	61.4	326.6	51,300	77,400
200	60.5	323.6	48,200	74,000
205	59.6	320.4	45,400	70,800
210	58.7	317.2	42,600	67,700
215	57.7	313.8	40,000	64,800
220	56.8	310.4	37,500	62,100
225	55.8	306.7	35,100	59,400
230	54.9	303.0	32,800	56,900
235	53.9	299.1	30,600	54,500
240	52.9	295.1	28,500	52,200
245	51.9	291.0	26,500	50,000
250	50.9	286.7	24,600	47,900
255	49.9	282.2	22,700	45,800
260	48.8	277.6	20,900	43,900
265	47.8	272.8	19,200	42,000
270	46.7	267.8	17,500	40,200
280	44.4	257.2	14,400	36,800
290	42.1	245.8	11,400	33,600
300	39.6	233.3		30,600
310	37.0	219.6		27,800
317	35.1	209.2		25,900

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	153,000	153,100
110	76.1	373.9	142,700	148,500
115	75.3	372.5	133,400	144,200
120	74.5	370.9	124,900	140,000
125	73.8	369.3	117,200	136,000
130	73.0	367.6	110,100	132,300
135	72.2	365.8	103,600	128,700
140	71.4	364.0	97,600	125,300
145	70.6	362.1	91,700	121,900
150	69.7	360.1	86,200	117,400
155	68.9	358.0	81,000	111,600
160	68.1	355.8	76,200	106,100
165	67.3	353.5	71,700	101,000
170	66.5	351.2	67,500	96,200
175	65.6	348.7	63,500	91,700
180	64.8	346.2	59,700	87,500
185	63.9	343.5	56,100	83,500
190	63.1	340.8	52,800	79,700
195	62.2	338.0	49,600	76,100
200	61.3	335.1	46,500	72,800
205	60.5	332.1	43,700	69,600
210	59.6	328.9	40,900	66,500
215	58.7	325.7	38,300	63,600
220	57.8	322.3	35,800	60,800
225	56.9	318.9	33,400	58,200
230	55.9	315.3	31,100	55,700
235	55.0	311.6	28,900	53,300
240	54.1	307.7	26,800	51,000
245	53.1	303.7	24,800	48,700
250	52.1	299.6	22,900	46,600
255	51.1	295.4	21,000	44,600
260	50.1	290.9	19,200	42,600
265	49.1	286.4	17,500	40,800
270	48.1	281.6	15,800	39,000
280	46.0	271.6	12,700	35,500
290	43.8	260.8		32,300
300	41.4	249.1		29,400
310	39.0	236.4		26,600
320	36.4	222.4		24,000
325	35.1	214.9		22,700

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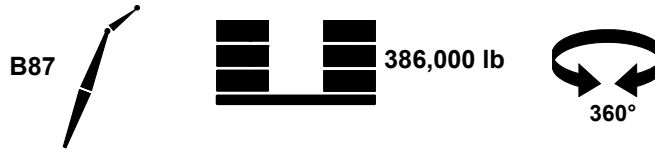


370.7 ft				
ft	ft	ft	lb	lb
34.8 ft		48.0 ft		
67	82.9	393.6	175,200	175,200
68	82.8	393.4	175,200	175,200
70	82.5	393.1	175,200	175,200
72	82.2	392.7	175,200	175,200
74	81.9	392.4	175,100	175,100
76	81.6	392.0	173,000	173,000
78	81.3	391.6	170,900	170,900
80	81.0	391.3	169,000	169,000
85	80.2	390.3	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	133,000	136,200
120	74.9	381.2	124,600	132,100
125	74.2	379.7	116,800	128,200
130	73.4	378.0	109,800	124,500
135	72.6	376.3	103,300	121,000
140	71.9	374.5	97,000	117,600
145	71.1	372.6	91,100	114,400
150	70.3	370.7	85,600	111,400
155	69.5	368.6	80,500	108,500
160	68.7	366.5	75,600	105,600
165	67.9	364.3	71,100	100,600
170	67.1	362.0	66,900	95,800
175	66.3	359.7	62,900	91,300
180	65.5	357.2	59,100	87,100
185	64.7	354.7	55,600	83,100
190	63.8	352.0	52,200	79,300
195	63.0	349.3	49,000	75,700
200	62.1	346.5	46,000	72,400
205	61.3	343.6	43,100	69,100
210	60.4	340.5	40,300	66,100
215	59.6	337.4	37,700	63,200
220	58.7	334.2	35,200	60,400
225	57.8	330.8	32,800	57,800
230	56.9	327.4	30,500	55,300
235	56.0	323.8	28,300	52,900
240	55.1	320.1	26,300	50,600
245	54.2	316.3	24,200	48,300
250	53.3	312.3	22,300	46,200
255	52.3	308.3	20,400	44,200
260	51.4	304.0	18,700	42,200
270	49.4	295.1	15,300	38,600
280	47.4	285.6	12,100	35,100
290	45.3	275.4		32,000
300	43.1	264.3		29,000
310	40.8	252.4		26,200
320	38.4	239.4		23,600
330	35.9	225.2		21,100
333	35.1	220.7		20,400

380.6 ft				
ft	ft	ft	lb	lb
34.8 ft		48.0 ft		
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	141,300	146,200
115	76.1	393.0	132,000	141,900
120	75.3	391.5	123,500	137,700
125	74.6	390.0	115,800	133,800
130	73.8	388.4	108,700	129,900
135	73.1	386.7	101,800	126,300
140	72.3	385.0	95,400	122,800
145	71.6	383.1	89,500	119,400
150	70.8	381.2	84,000	115,900
155	70.0	379.3	78,900	110,100
160	69.3	377.2	74,000	104,600
165	68.5	375.1	69,500	99,500
170	67.7	372.9	65,300	94,700
175	66.9	370.6	61,300	90,100
180	66.1	368.2	57,500	85,900
185	65.3	365.7	53,900	81,900
190	64.5	363.2	50,600	78,100
195	63.7	360.5	47,400	74,500
200	62.9	357.8	44,300	71,200
205	62.1	354.9	41,400	67,900
210	61.3	352.0	38,700	64,900
215	60.4	349.0	36,100	62,000
220	59.6	345.9	33,500	59,200
225	58.7	342.7	31,200	56,600
230	57.9	339.3	28,900	54,100
235	57.0	335.9	26,700	51,600
240	56.1	332.3	24,600	49,300
245	55.2	328.7	22,600	47,100
250	54.3	324.9	20,600	45,000
255	53.4	320.9	18,800	43,000
260	52.5	316.9	17,000	41,000
270	50.6	308.4	13,600	37,300
280	48.7	299.3	10,500	33,900
290	46.7	289.5		30,700
300	44.7	279.1		27,700
310	42.5	267.8		25,000
320	40.2	255.6		22,300
330	37.9	242.4		19,900
340	35.4	227.9		17,600
341	35.1	226.4		17,300

MLC300 VPC-MAX S-2

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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	132,800	134,900
120	75.7	401.8	124,300	130,900
125	75.0	400.3	116,600	127,100
130	74.2	398.7	109,500	123,400
135	73.5	397.1	102,900	119,900
140	72.8	395.4	96,500	116,600
145	72.0	393.6	90,600	113,400
150	71.3	391.8	85,100	110,200
155	70.5	389.8	79,900	107,300
160	69.8	387.8	75,100	104,400
165	69.0	385.8	70,600	100,300
170	68.3	383.6	66,400	95,500
175	67.5	381.4	62,400	91,000
180	66.7	379.1	58,600	86,800
185	66.0	376.7	55,000	82,800
190	65.2	374.2	51,700	79,000
195	64.4	371.6	48,500	75,400
200	63.6	369.0	45,400	72,000
205	62.8	366.2	42,500	68,800
210	62.0	363.4	39,800	65,800
215	61.2	360.5	37,200	62,900
220	60.4	357.5	34,700	60,100
225	59.6	354.4	32,300	57,400
230	58.7	351.1	30,000	54,900
235	57.9	347.8	27,800	52,500
240	57.1	344.4	25,700	50,200
245	56.2	340.8	23,700	48,000
250	55.3	337.2	21,800	45,900
255	54.5	333.4	19,900	43,900
260	53.6	329.5	18,100	41,900
270	51.8	321.4	14,800	38,200
280	49.9	312.6	11,600	34,800
290	48.0	303.3		31,600
300	46.1	293.4		28,700
310	44.0	282.7		25,900
320	41.9	271.2		23,300
330	39.7	258.8		20,800
340	37.3	245.3		18,500
349	35.1	232.1		16,500

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	123,100	123,900
125	75.3	410.6	115,400	120,200
130	74.6	409.0	108,000	116,600
135	73.9	407.4	101,200	113,100
140	73.2	405.8	94,800	109,800
145	72.5	404.1	88,900	106,600
150	71.7	402.3	83,400	103,600
155	71.0	400.4	78,200	100,700
160	70.3	398.4	73,400	97,900
165	69.5	396.4	68,900	95,200
170	68.8	394.3	64,600	92,700
175	68.1	392.2	60,600	89,700
180	67.3	389.9	56,800	85,500
185	66.6	387.6	53,300	81,500
190	65.8	385.2	49,900	77,700
195	65.1	382.7	46,700	74,100
200	64.3	380.1	43,700	70,700
205	63.5	377.5	40,800	67,500
210	62.7	374.7	38,000	64,500
215	62.0	371.9	35,400	61,600
220	61.2	369.0	32,900	58,800
225	60.4	365.9	30,500	56,100
230	59.6	362.8	28,200	53,600
235	58.8	359.6	26,000	51,200
240	57.9	356.3	23,900	48,900
245	57.1	352.9	21,900	46,700
250	56.3	349.4	20,000	44,600
255	55.4	345.7	18,100	42,500
260	54.6	342.0	16,400	40,600
270	52.9	334.1	13,000	36,900
280	51.1	325.8		33,500
290	49.3	316.8		30,300
300	47.4	307.3		27,300
310	45.4	297.2		24,600
320	43.4	286.3		22,000
330	41.3	274.6		19,500
340	39.1	261.9		17,200
350	36.8	248.2		15,000
357	35.1	237.9		13,600

MLC300 VPC-MAX S-2

ASME B30.5



B87



386,000 lb



360°

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	122,800	125,900
125	75.7	420.8	114,800	123,900
130	75.0	419.3	107,500	120,200
135	74.3	417.8	100,600	116,700
140	73.6	416.2	94,200	113,400
145	72.9	414.5	88,300	110,200
150	72.2	412.7	82,800	107,000
155	71.5	410.9	77,600	104,000
160	70.8	409.0	72,800	101,200
165	70.0	407.0	68,300	98,400
170	69.3	405.0	64,000	93,800
175	68.6	402.9	60,000	89,300
180	67.9	400.7	56,300	85,100
185	67.1	398.4	52,700	81,100
190	66.4	396.1	49,300	77,300
195	65.7	393.7	46,100	73,700
200	64.9	391.2	43,100	70,300
205	64.2	388.6	40,200	67,100
210	63.4	385.9	37,400	64,000
215	62.7	383.2	34,800	61,100
220	61.9	380.4	32,300	58,400
225	61.1	377.4	29,900	55,700
230	60.4	374.4	27,600	53,200
235	59.6	371.3	25,400	50,800
240	58.8	368.1	23,300	48,500
245	58.0	364.8	21,300	46,300
250	57.2	361.4	19,400	44,200
255	56.4	357.9	17,500	42,100
260	55.5	354.3	15,800	40,200
270	53.9	346.7	12,400	36,500
280	52.2	338.6		33,100
290	50.4	330.1		29,900
300	48.6	321.0		26,900
310	46.8	311.3		24,100
320	44.8	300.9		21,500
330	42.9	289.8		19,100
340	40.8	277.9		16,800
350	38.6	265.0		14,600
360	36.3	251.1		12,600
365	35.1	243.6		11,600