


# Liftcrane Boom Capacities

**Boom No. B65:505-500**  
**with 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 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) require 10,000 lb minimum weight suspended beneath boom point and (c) require 22,000 lb minimum weight. **Caution: Do not operate in areas indicated by (b) or (c) 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. 84050216**, Mast Rigging **No. 84045340**, Wire Rope Specifications chart **No. 9653-A**, Counterweight Arrangements **No. 9345-A**, and Wind Conditions chart **No. 9652-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. 9651-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.

Luffing Jib Backstay Deduct	
Boom Length (ft)	Deduct (lb)
177.2	5,200
196.9	5,800
216.5	6,400
236.2	6,900
255.9	7,500
275.6	8,100

Deduct the appropriate value from capacities when luffing jib backstays are stored on boom.

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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 ball, slings, and hoist lines beneath boom point 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 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)	34.8 ft Counterweight Position	48.0 ft Counterweight Position
	Block Weight (lb)	
177.2 - 255.9	22,900	22,900
275.6	15,800	22,900
295.3 - 413.4	Raising Not Permitted	

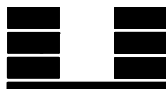
**Table 2: Without Luffing Jib Backstays**

Over End or Side of Crawlers		
Boom Length (ft)	34.8 ft Counterweight Position	48.0 ft Counterweight Position
	Block Weight (lb)	
177.2 - 275.6	22,900	22,900
295.3 - 374.0	#	#
393.7 - 413.4	Raising Not Permitted	

**Explanation of Symbols**



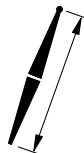
Boom No. B65:505-500



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)

REFERENCE ONLY!

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B65



386,000 lb



360°

177.2 ft				
ft	°	ft	lb	lb
24	85.0	183.3	588,100 c	588,100c
26	84.3	183.1	588,100 c	588,100c
28	83.7	182.8	588,100 c	588,100c
30	83.0	182.6	588,100 b	588,100b
32	82.4	182.3	588,100 b	588,100b
34	81.7	182.0	580,400 b	580,400b
36	81.1	181.6	565,700 b	565,700b
38	80.4	181.2	551,600 b	551,600b
40	79.8	180.9	538,100 b	538,100b
45	78.1	179.8	486,300	493,900
50	76.4	178.5	428,000	481,400
55	74.8	177.1	381,400	455,800
60	73.1	175.6	340,700	427,600
65	71.4	173.9	305,900	384,700
70	69.6	172.0	277,000	349,100
75	67.9	169.9	252,600	319,000
80	66.1	167.7	231,800	293,400
85	64.3	165.3	213,700	271,200
90	62.5	162.6	198,000	251,800
95	60.6	159.8	184,200	234,700
100	58.7	156.7	171,900	219,600
105	56.8	153.4	160,900	206,000
110	54.8	149.9	151,000	193,800
115	52.8	146.1	142,000	182,800
120	50.7	142.0	133,900	172,800
125	48.5	137.5	126,500	163,700
130	46.3	132.7	119,700	155,300
135	44.0	127.6	113,400	147,600
140	41.5	121.9	107,700	140,500
145	39.0	115.8	102,300	133,900
150	36.2	109.0	97,300	127,800
155	33.3	101.5	92,700	122,100
160	30.1	93.0	88,300	116,800
165	26.6	83.3	84,300	111,800
170	22.5	71.8	80,400	107,100
175	17.5	57.1	76,800	102,600

196.9 ft				
ft	°	ft	lb	lb
26	84.9	202.9	514,600 c	514,600c
28	84.3	202.7	514,600 b	514,600b
30	83.7	202.4	514,600 b	514,600b
32	83.2	202.2	514,600 b	514,600b
34	82.6	201.9	514,600 b	514,600b
36	82.0	201.6	514,600 b	514,600b
38	81.4	201.2	514,600	514,600
40	80.8	200.9	513,200	513,200
45	79.3	199.9	484,700	484,700
50	77.8	198.8	426,400	473,100
55	76.3	197.6	379,700	437,200
60	74.8	196.2	340,100	420,100
65	73.3	194.7	305,200	384,000
70	71.8	193.0	276,200	348,300
75	70.2	191.2	251,800	318,200
80	68.6	189.2	230,900	292,500
85	67.1	187.0	212,900	270,300
90	65.5	184.7	197,100	250,900
95	63.8	182.3	183,200	233,800
100	62.2	179.6	170,900	218,600
105	60.5	176.7	159,900	205,100
110	58.8	173.7	150,000	192,900
115	57.1	170.4	141,100	181,800
120	55.3	167.0	132,900	171,800
125	53.5	163.2	125,500	162,700
130	51.6	159.3	118,700	154,300
135	49.7	155.0	112,400	146,600
140	47.7	150.5	106,700	139,500
145	45.7	145.6	101,300	132,900
150	43.6	140.3	96,300	126,800
155	41.4	134.7	91,700	121,100
160	39.1	128.5	87,400	115,800
165	36.7	121.9	83,300	110,800
170	34.1	114.6	79,500	106,100
175	31.3	106.5	75,900	101,700
180	28.3	97.4	72,500	97,600
185	24.9	86.9	69,300	93,700
190	21.0	74.5	66,300	89,900
195	16.2	58.7	63,400	86,400

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ASME B30.5



B65



386,000 lb



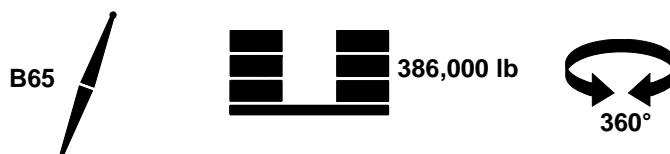
360°

216.5 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
28	84.8	222.5	477,800 b	477,800b
30	84.3	222.3	477,800 b	477,800b
32	83.8	222.0	477,800 b	477,800b
34	83.2	221.8	477,800 b	477,800b
36	82.7	221.5	477,800	477,800
38	82.2	221.2	477,800	477,800
40	81.6	220.9	477,800	477,800
45	80.3	220.0	462,000	462,000
50	79.0	219.0	424,500	452,000
55	77.6	217.9	377,700	429,900
60	76.2	216.6	339,200	423,700
65	74.9	215.2	304,200	383,000
70	73.5	213.7	275,200	347,300
75	72.1	212.1	250,800	317,200
80	70.7	210.3	229,900	291,500
85	69.3	208.4	211,800	269,200
90	67.8	206.3	196,000	249,800
95	66.4	204.1	182,100	232,700
100	64.9	201.8	169,800	217,500
105	63.4	199.2	158,800	203,900
110	61.9	196.6	148,900	191,700
115	60.4	193.7	139,900	180,700
120	58.9	190.7	131,700	170,700
125	57.3	187.4	124,300	161,500
130	55.7	184.0	117,500	153,100
135	54.1	180.4	111,200	145,400
140	52.4	176.5	105,500	138,300
145	50.7	172.4	100,100	131,700
150	48.9	168.0	95,100	125,600
155	47.1	163.4	90,500	119,900
160	45.2	158.4	86,200	114,600
165	43.3	153.1	82,100	109,600
170	41.3	147.4	78,300	105,000
175	39.2	141.3	74,700	100,600
180	37.0	134.7	71,400	96,400
185	34.7	127.6	68,200	92,500
190	32.3	119.7	65,200	88,800
195	29.6	111.1	62,300	85,300
200	26.7	101.4	59,600	82,000
210	19.8	77.0	54,100	75,800

236.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
30	84.8	242.1	404,300 b	404,300b
32	84.3	241.8	404,300	404,300
34	83.8	241.6	404,300	404,300
36	83.3	241.3	404,300	404,300
38	82.8	241.1	404,300	404,300
40	82.3	240.8	404,300	404,300
45	81.1	240.0	404,300	404,300
50	79.9	239.1	404,300	404,300
55	78.6	238.0	375,700	404,300
60	77.4	236.9	337,400	391,700
65	76.2	235.6	303,200	364,800
70	74.9	234.3	274,100	346,200
75	73.6	232.8	249,600	316,100
80	72.4	231.2	228,700	290,300
85	71.1	229.4	210,600	268,000
90	69.8	227.6	194,800	248,600
95	68.5	225.6	180,900	231,500
100	67.2	223.5	168,600	216,300
105	65.8	221.2	157,500	202,700
110	64.5	218.8	147,600	190,500
115	63.1	216.2	138,600	179,400
120	61.7	213.5	130,500	169,400
125	60.3	210.6	123,000	160,200
130	58.9	207.6	116,200	151,900
135	57.5	204.4	109,900	144,100
140	56.0	201.0	104,200	137,000
145	54.5	197.4	98,800	130,400
150	53.0	193.7	93,800	124,300
155	51.5	189.7	89,200	118,600
160	49.9	185.4	84,900	113,300
165	48.2	181.0	80,800	108,300
170	46.6	176.2	77,000	103,700
175	44.8	171.2	73,400	99,300
180	43.1	165.9	70,100	95,100
185	41.2	160.2	66,900	91,200
190	39.3	154.1	63,900	87,600
195	37.3	147.5	61,000	84,100
200	35.2	140.5	58,000	80,800
210	30.7	124.6	52,500	74,600
220	25.4	105.1	47,400	69,000
230	18.6	79.2	42,700	63,900

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255.9 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
32	84.7	261.6	377,900	377,900
34	84.3	261.4	377,900	377,900
36	83.8	261.2	377,900	377,900
38	83.4	260.9	377,900	377,900
40	82.9	260.7	377,900	377,900
45	81.8	259.9	377,900	377,900
50	80.7	259.1	377,900	377,900
55	79.5	258.1	374,000	375,900
60	78.4	257.1	335,700	372,100
65	77.2	255.9	302,300	358,000
70	76.1	254.7	273,200	345,300
75	74.9	253.3	248,700	315,100
80	73.8	251.8	227,700	289,300
85	72.6	250.3	209,600	267,000
90	71.4	248.5	193,800	247,600
95	70.2	246.7	179,900	230,400
100	69.0	244.8	167,500	215,200
105	67.8	242.7	156,400	201,600
110	66.6	240.5	146,500	189,400
115	65.3	238.2	137,500	178,300
120	64.1	235.8	129,400	168,300
125	62.8	233.2	121,900	159,100
130	61.6	230.5	115,100	150,700
135	60.3	227.6	108,800	143,000
140	59.0	224.6	103,000	135,900
145	57.6	221.4	97,700	129,300
150	56.3	218.0	92,700	123,200
155	54.9	214.5	88,100	117,500
160	53.5	210.8	83,700	112,200
165	52.1	206.9	79,700	107,200
170	50.7	202.8	75,900	102,500
175	49.2	198.5	72,300	98,100
180	47.7	193.9	68,900	94,000
185	46.1	189.1	65,800	90,100
190	44.5	184.0	62,500	86,400
195	42.9	178.6	59,400	82,900
200	41.2	172.9	56,500	79,600
210	37.6	160.4	51,000	73,500
220	33.7	146.0	45,900	68,000
230	29.3	129.1	41,300	62,900
240	24.1	108.5	37,100	58,200
250	17.6	81.1	33,100	53,900

275.6 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
34	84.7	281.2	336,700	336,700
36	84.3	281.0	336,700	336,700
38	83.9	280.8	336,700	336,700
40	83.4	280.5	336,700	336,700
45	82.4	279.8	336,700	336,700
50	81.3	279.1	336,700	336,700
55	80.3	278.2	336,700	336,700
60	79.2	277.2	333,500	336,100
65	78.2	276.1	301,100	332,700
70	77.1	275.0	272,000	329,300
75	76.0	273.7	247,400	313,800
80	75.0	272.4	226,400	288,000
85	73.9	270.9	208,300	265,700
90	72.8	269.3	192,400	246,200
95	71.7	267.7	178,500	229,000
100	70.6	265.9	166,100	213,800
105	69.5	264.0	155,000	200,200
110	68.3	262.0	145,100	187,900
115	67.2	259.9	136,100	176,900
120	66.1	257.6	127,900	166,800
125	64.9	255.3	120,400	157,700
130	63.8	252.8	113,600	149,300
135	62.6	250.2	107,300	141,500
140	61.4	247.4	101,500	134,400
145	60.2	244.6	96,200	127,800
150	59.0	241.5	91,200	121,700
155	57.8	238.4	86,600	116,000
160	56.5	235.0	82,200	110,700
165	55.3	231.6	78,200	105,700
170	54.0	227.9	74,400	101,000
175	52.7	224.1	70,800	96,600
180	51.3	220.1	67,100	92,500
185	50.0	215.9	63,700	88,600
190	48.6	211.4	60,400	84,900
195	47.2	206.8	57,300	81,400
200	45.7	201.9	54,400	78,100
210	42.7	191.4	48,900	72,000
220	39.5	179.6	43,900	66,500
230	36.0	166.3	39,300	61,400
240	32.2	151.2	35,100	56,800
250	28.0	133.4	31,200	52,500
260	23.0	111.7	27,600	48,600
270	16.7	82.9	24,100	44,900

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B65



386,000 lb



360°

295.3 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
36	84.7	300.8	301,400	301,400
38	84.3	300.6	301,400	301,400
40	83.9	300.4	301,400	301,400
45	82.9	299.7	301,400	301,400
50	81.9	299.0	301,400	301,400
55	80.9	298.2	301,400	301,400
60	80.0	297.3	301,400	301,400
65	79.0	296.3	300,800	301,400
70	78.0	295.2	271,800	298,000
75	77.0	294.0	247,200	290,700
80	76.0	292.8	226,200	282,500
85	75.0	291.4	208,000	265,400
90	74.0	289.9	192,200	245,900
95	72.9	288.4	178,200	228,700
100	71.9	286.7	165,800	213,500
105	70.9	285.0	154,700	199,900
110	69.9	283.1	144,800	187,600
115	68.8	281.2	135,800	176,600
120	67.8	279.1	127,600	166,500
125	66.7	277.0	120,100	157,300
130	65.7	274.7	113,300	148,900
135	64.6	272.3	107,000	141,200
140	63.5	269.8	101,200	134,100
145	62.4	267.1	95,800	127,500
150	61.3	264.4	90,900	121,300
155	60.2	261.5	86,200	115,600
160	59.0	258.5	81,900	110,300
165	57.9	255.3	77,800	105,300
170	56.7	252.0	74,000	100,700
175	55.5	248.6	70,300	96,300
180	54.4	245.0	66,600	92,200
185	53.1	241.2	63,200	88,300
190	51.9	237.3	59,900	84,600
195	50.6	233.2	56,800	81,100
200	49.4	228.9	53,900	77,800
210	46.7	219.7	48,400	71,700
220	44.0	209.6	43,400	66,200
230	41.1	198.4	38,900	61,100
240	38.0	186.0	34,700	56,500
250	34.6	172.0	30,800	52,300
260	31.0	156.1	27,200	48,300
270	26.9	137.4	23,900	44,700
280	22.1	114.7	20,700	41,300
290	15.9	84.4	17,800	32,200

315.0 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
36	85.0	320.6	260,900	260,900
38	84.6	320.4	260,900	260,900
40	84.3	320.2	260,900	260,900
45	83.4	319.6	260,900	260,900
50	82.4	318.9	260,900	260,900
55	81.5	318.1	260,900	260,900
60	80.6	317.3	260,900	260,900
65	79.7	316.4	260,900	260,900
70	78.7	315.3	260,900	260,900
75	77.8	314.2	245,300	260,900
80	76.9	313.1	224,200	260,900
85	75.9	311.8	206,000	260,900
90	75.0	310.4	190,100	243,800
95	74.0	309.0	176,100	226,600
100	73.1	307.5	163,700	211,400
105	72.1	305.8	152,600	197,700
110	71.2	304.1	142,600	185,400
115	70.2	302.3	133,600	174,400
120	69.2	300.4	125,400	164,300
125	68.3	298.4	117,900	155,100
130	67.3	296.3	111,000	146,700
135	66.3	294.0	104,800	138,900
140	65.3	291.7	98,900	131,800
145	64.3	289.3	93,600	125,200
150	63.2	286.8	88,600	119,100
155	62.2	284.1	83,900	113,400
160	61.2	281.3	79,400	108,000
165	60.1	278.5	75,000	103,000
170	59.1	275.5	70,900	98,400
175	58.0	272.3	67,100	94,000
180	56.9	269.0	63,400	89,900
185	55.8	265.6	60,000	86,000
190	54.7	262.1	56,700	82,300
195	53.6	258.4	53,600	78,800
200	52.4	254.5	50,700	75,500
210	50.0	246.3	45,200	69,400
220	47.6	237.3	40,200	63,900
230	45.1	227.6	35,700	58,800
240	42.4	216.9	31,500	54,200
250	39.6	205.1	27,700	50,000
260	36.6	192.0	24,200	46,100
270	33.4	177.4	20,800	42,500
280	29.8	160.7	17,800	39,100
290	25.9	141.3	14,900	36,000
300	21.2	117.5	12,100	33,000
310	15.1	85.8		30,200

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386,000 lb



360°

334.6 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
38	85.0	340.2	225,400	225,400
40	84.6	340.0	225,400	225,400
45	83.7	339.4	225,400	225,400
50	82.9	338.8	225,400	225,400
55	82.0	338.1	225,400	225,400
60	81.2	337.3	225,400	225,400
65	80.3	336.4	225,400	225,400
70	79.4	335.4	225,400	225,400
75	78.5	334.4	225,400	225,400
80	77.7	333.3	223,800	225,400
85	76.8	332.1	205,600	225,400
90	75.9	330.8	189,700	225,400
95	75.0	329.5	175,700	225,400
100	74.1	328.0	163,200	210,900
105	73.2	326.5	152,100	197,300
110	72.3	324.9	142,100	185,000
115	71.4	323.2	133,100	173,900
120	70.5	321.4	124,900	163,800
125	69.6	319.6	117,400	154,600
130	68.7	317.6	110,600	146,200
135	67.8	315.5	104,300	138,500
140	66.8	313.4	98,500	131,300
145	65.9	311.1	93,100	124,700
150	64.9	308.8	88,100	118,600
155	64.0	306.3	83,300	112,900
160	63.0	303.8	78,700	107,500
165	62.1	301.1	74,300	102,600
170	61.1	298.3	70,200	97,900
175	60.1	295.4	66,300	93,500
180	59.1	292.4	62,700	89,400
185	58.1	289.3	59,200	85,500
190	57.1	286.0	56,000	81,800
195	56.0	282.6	52,900	78,300
200	55.0	279.1	50,000	75,000
210	52.8	271.7	44,500	68,900
220	50.6	263.6	39,500	63,400
230	48.4	254.9	35,000	58,400
240	46.0	245.4	30,900	53,800
250	43.6	235.1	27,000	49,500
260	41.0	223.9	23,500	45,600
270	38.3	211.5	20,200	42,000
280	35.4	197.9	17,200	38,700
290	32.2	182.6	14,300	35,600
300	28.8	165.2	11,600	32,700
310	24.9	144.9		29,900
320	20.4	120.2		27,300

354.3 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
40	84.9	359.8	196,600	196,600
45	84.1	359.2	196,600	196,600
50	83.3	358.6	196,600	196,600
55	82.5	357.9	196,600	196,600
60	81.7	357.2	196,600	196,600
65	80.8	356.4	196,600	196,600
70	80.0	355.5	196,600	196,600
75	79.2	354.5	196,600	196,600
80	78.4	353.5	196,600	196,600
85	77.5	352.3	196,600	196,600
90	76.7	351.1	187,300	196,600
95	75.9	349.9	173,300	196,600
100	75.0	348.5	160,900	196,600
105	74.2	347.1	149,700	194,900
110	73.3	345.6	139,700	182,600
115	72.5	344.0	130,700	171,500
120	71.6	342.3	122,500	161,400
125	70.8	340.6	115,000	152,200
130	69.9	338.7	108,100	143,800
135	69.1	336.8	101,800	136,000
140	68.2	334.8	95,900	128,900
145	67.3	332.7	90,200	122,300
150	66.4	330.5	84,900	116,100
155	65.5	328.2	79,900	110,400
160	64.6	325.8	75,300	105,100
165	63.7	323.3	70,900	100,100
170	62.8	320.7	66,800	95,400
175	61.9	318.1	62,900	91,000
180	61.0	315.3	59,300	86,900
185	60.1	312.4	55,800	83,000
190	59.1	309.4	52,600	79,300
195	58.2	306.2	49,500	75,800
200	57.2	303.0	46,600	72,500
210	55.2	296.2	41,100	66,400
220	53.2	288.8	36,200	60,900
230	51.2	280.9	31,600	55,900
240	49.0	272.4	27,500	51,300
250	46.8	263.1	23,700	47,100
260	44.6	253.2	20,200	43,200
270	42.2	242.4	16,900	39,600
280	39.7	230.6	13,900	36,300
290	37.0	217.7	11,000	33,200
300	34.2	203.5		30,300
310	31.2	187.5		27,600
320	27.8	169.4		25,000
330	24.1	148.3		22,600
340	19.6	122.6		20,300



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386,000 lb



374.0 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
45	84.4	379.0	170,900	170,900
50	83.6	378.5	170,900	170,900
55	82.9	377.8	170,900	170,900
60	82.1	377.1	170,900	170,900
65	81.3	376.3	170,900	170,900
70	80.5	375.5	170,900	170,900
75	79.8	374.6	170,900	170,900
80	79.0	373.6	170,900	170,900
85	78.2	372.5	170,900	170,900
90	77.4	371.4	170,700	170,700
95	76.6	370.2	170,600	170,600
100	75.8	368.9	160,000	170,400
105	75.0	367.6	148,900	166,800
110	74.2	366.1	138,900	162,000
115	73.4	364.6	129,900	157,400
120	72.6	363.1	121,700	153,000
125	71.8	361.4	114,200	148,800
130	71.0	359.7	107,300	142,900
135	70.2	357.9	100,800	135,200
140	69.4	356.0	94,700	128,000
145	68.6	354.0	88,900	121,400
150	67.7	351.9	83,600	115,300
155	66.9	349.8	78,700	109,600
160	66.1	347.6	74,000	104,200
165	65.2	345.2	69,600	99,200
170	64.4	342.8	65,500	94,600
175	63.5	340.3	61,700	90,200
180	62.7	337.7	58,000	86,000
185	61.8	335.0	54,600	82,100
190	60.9	332.2	51,300	78,500
195	60.0	329.3	48,300	75,000
200	59.1	326.3	45,300	71,700
210	57.3	320.0	39,900	65,600
220	55.5	313.2	34,900	60,100
230	53.6	305.9	30,400	55,000
240	51.6	298.1	26,300	49,900
250	49.6	289.8	22,500	45,100
260	47.6	280.8	19,000	40,800
270	45.4	271.1	15,700	37,000
280	43.2	260.7	12,700	33,500
290	40.9	249.4		30,400
300	38.5	237.1		27,500
310	35.9	223.7		25,100
320	33.2	208.8		22,900
330	30.2	192.3		21,000
340	27.0	173.5		19,500
350	23.3	151.6		17,500
360	18.9	124.9		15,400

393.7 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
45	84.7	398.8	149,300	149,300
50	84.0	398.3	149,300	149,300
55	83.2	397.7	149,300	149,300
60	82.5	397.0	149,300	149,300
65	81.8	396.3	149,300	149,300
70	81.0	395.5	149,300	149,300
75	80.3	394.6	149,200	149,200
80	79.5	393.7	149,100	149,100
85	78.8	392.6	149,000	149,000
90	78.1	391.6	148,900	148,900
95	77.3	390.4	148,800	148,800
100	76.6	389.2	144,500	144,500
105	75.8	388.0	140,000	140,000
110	75.1	386.6	135,700	135,700
115	74.3	385.2	128,000	131,500
120	73.5	383.7	119,800	127,500
125	72.8	382.1	112,000	123,800
130	72.0	380.5	104,800	120,100
135	71.2	378.8	98,200	116,700
140	70.5	377.0	92,000	113,400
145	69.7	375.1	86,300	110,200
150	68.9	373.2	81,000	107,200
155	68.1	371.2	76,000	104,300
160	67.3	369.1	71,400	101,500
165	66.5	366.9	67,000	96,300
170	65.7	364.6	62,900	90,700
175	64.9	362.3	59,100	85,500
180	64.1	359.8	55,400	80,600
185	63.3	357.3	52,000	76,100
190	62.5	354.7	48,700	71,800
195	61.7	352.0	45,600	67,800
200	60.8	349.2	42,700	64,000
210	59.1	343.3	37,300	57,100
220	57.4	337.0	32,300	50,900
230	55.7	330.2	27,800	45,400
240	53.9	323.0	23,700	40,400
250	52.0	315.3	19,900	35,900
260	50.2	307.1	16,400	31,800
270	48.2	298.3	13,100	28,100
280	46.2	288.9	10,100	24,700
290	44.1	278.8		21,600
300	42.0	267.9		18,800
310	39.7	256.1		16,300
320	37.4	243.3		14,000
330	34.9	229.4		11,900
340	32.2	214.0		10,100

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ASME B30.5



B65



386,000 lb



360°

ft	°	ft	34.8 ft lb	48.0 ft lb
45	84.9	418.6	130,000	130,000
50	84.2	418.1	130,000	130,000
55	83.6	417.5	130,000	130,000
60	82.9	416.9	129,900	129,900
65	82.2	416.2	129,800	129,800
70	81.5	415.4	129,800	129,800
75	80.7	414.6	129,600	129,600
80	80.0	413.7	129,600	129,600
85	79.3	412.7	129,100	129,100
90	78.6	411.7	124,900	124,900
95	77.9	410.6	120,900	120,900
100	77.2	409.5	116,900	116,900
105	76.5	408.3	113,200	113,200
110	75.8	407.0	109,600	109,600
115	75.1	405.6	106,200	106,200
120	74.3	404.2	103,000	103,000
125	73.6	402.7	99,900	99,900
130	72.9	401.2	96,900	96,900
135	72.2	399.6	94,100	94,100
140	71.4	397.9	91,400	91,400
145	70.7	396.1	85,900	88,800
150	70.0	394.3	80,600	86,400
155	69.2	392.4	75,600	84,000
160	68.5	390.4	70,900	81,800
165	67.7	388.3	66,600	79,600
170	67.0	386.2	62,500	77,600
175	66.2	384.0	58,600	75,600
180	65.5	381.7	55,000	73,700
185	64.7	379.3	51,500	69,400
190	63.9	376.8	48,300	65,300
195	63.1	374.3	45,200	61,500
200	62.4	371.7	42,300	57,900
210	60.8	366.1	36,800	51,400
220	59.2	360.2	31,900	45,500
230	57.5	354.0	27,400	40,200
240	55.9	347.3	23,300	35,400
250	54.2	340.1	19,500	31,000
260	52.4	332.5	16,000	27,100
270	50.6	324.4	12,800	23,500
280	48.8	315.8		20,200
290	46.9	306.6		17,200
300	45.0	296.8		14,500
310	43.0	286.2		12,000