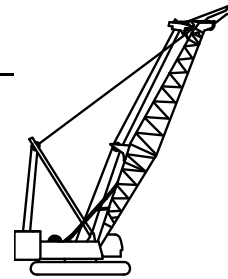


Liftcrane Boom Capacities

Boom No. 74
99,500 lb Crane Counterweight
0 lb Carbody Counterweight
360 Degree Rating



**MLC165
 SERIES 1**



LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Boom Backward Stability: A minimum of 4 parts hoist line is required for capacities denoted by (b), (c), and (d) for boom lengths 49.2 ft thru 98.4 ft. Capacities indicated by (b) require 3,000 lb minimum weight, (c) requires 7,500 lb minimum weight, and (d) requires 15,000 lb minimum weight.

Caution: Do not operate in areas indicated by (b), (c), or (d) without required minimum weights. Boom will not boom down and boom hoist wire rope may go slack causing wire rope damage or failure.

Upper boom point capacity for liftcrane service with single part whip line is 27,558 lb or 55,116 lb with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 20,000 lb or 40,000 lb with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

206.7 ft thru 236.2 ft boom lengths require only the middle three sheaves in lower boom point. All other sheaves must be removed from lower boom point.

Weight of upper boom point, jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of main boom 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 in a level position on a firm uniformly supporting surface. Refer to Boom Rigging **No. 81019793** or **No. 83004083**, Wire Rope Specification chart **No. 9292-A**, and Wind Conditions chart **No. 9289-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 Operator's 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. 9290-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 26 ft 2 in. crawlers, 43 in. treads, 23 ft 7 in. live mast, 18 part boom hoist reeving, four 28 mm boom pendants, 99,500 lb crane counterweight, and 0 lb carbody counterweight.



99,500 lb Crane Counterweight
 6 Side Boxes

WARNING: Free fall operation is limited to 13,000 lb per part of line when lowering load with free fall clutch/brake pedal. Hydraulic power must be used for full line pull.

**Deduct From Capacities
When Jib Is Attached**

Jib Length	Jib No. 134
30.0 ft	3,800 lb
40.0 ft	4,600 lb
50.0 ft	5,400 lb
60.0 ft	6,300 lb
70.0 ft	6,900 lb
80.0 ft	7,900 lb

Upper Boom Point Deduct

Deduct 1,300 lb from capacities when upper boom point, and adapter frame if equipped, is attached.

Lower Boom Point Sheave Deduct

Deduct 700 lb from capacities for boom lengths 147.6 ft thru 196.9 ft when lower boom point is equipped with outer sheave clusters.

Auxiliary Drum Deduct

Deduct 1,800 lb from capacities when boom butt is equipped with auxiliary drum, and 6.0 m (19.7 ft) insert is equipped with wire rope guide sheaves.

Third Line Deduct

Deduct 400 lb from capacities when boom is equipped for three line operation.

Refer to **Tables 1 and 2** for raising ability with the maximum weight of all load blocks, hooks, weight balls, slings, and hoist lines beneath lower and/or upper boom point and jib point sheaves. For block weights shown with #, a, or b, load blocks, hooks, weight balls, and slings must remain on ground until combined weights are within rated capacity of chart. For block weights shown with (a), auxiliary drum mounted in boom butt, wire rope guide sheaves in 6,0 m (19.7 ft) insert, and boom lights must be removed. For block weights shown with (b), upper boom point must be removed. Raising is not permitted in shaded areas of table.

Caution: Combined weight beneath lower and/or upper boom point and jib point sheaves must not exceed block weight shown. Total weight beneath jib point must not exceed 4,000 lb.

Table 1

Raising Ability Over End or Side of Crawlers							
Boom Length (ft)	Fixed Jib No. 134						
	—	30.0 ft	40.0 ft	50.0 ft	60.0 ft	70.0 ft	80.0 ft
	Block Weight (lb)						
49.2 - 78.7	7,700	—	—	—	—	—	—
88.6 - 108.3	7,700	7,700	7,700	7,700	7,700	7,700	7,700
118.1	7,700	7,700	7,700	7,700	7,700	5,800	5,800
128.0	7,700	7,700	7,700	5,800	5,800	1,600	1,600
137.8	7,700	5,800	5,800	1,600	1,600	1,600	1,600
147.6	7,700	5,800	1,600	1,600	1,600	1,600	1,600
157.5	7,700	1,600	1,600	1,600	1,600	1,600	#
167.3	5,800	1,600	1,600	1,600	#	#	#
177.2	1,600	1,600	#	#	a	a	
187.0	1,600	#	a	a			
196.9	#	RAISING NOT PERMITTED					
206.7	#						
216.5	a, b						
226.4							
236.2							

Table 2

Raising Ability Over Front of Blocked Crawlers							
Boom Length (ft)	Fixed Jib No. 134						
	—	30.0 ft	40.0 ft	50.0 ft	60.0 ft	70.0 ft	80.0 ft
	Block Weight (lb)						
49.2 - 78.7	7,700	—	—	—	—	—	—
88.6 - 108.3	7,700	7,700	7,700	7,700	7,700	7,700	7,700
118.1	7,700	7,700	7,700	7,700	7,700	5,800	5,800
128.0	7,700	7,700	7,700	5,800	5,800	1,600	1,600
137.8	7,700	5,800	5,800	1,600	1,600	1,600	1,600
147.6	7,700	5,800	1,600	1,600	1,600	1,600	1,600
157.5	7,700	1,600	1,600	1,600	1,600	1,600	#
167.3	5,800	1,600	1,600	1,600	#	#	#
177.2	1,600	1,600	#	#	#	#	#
187.0	1,600	#	#	#	#	#	#
196.9	#	#	#	#	a	a	
206.7	#	#	a				
216.5	#	RAISING NOT PERMITTED					
226.4	#						
236.2	a, b						

Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius and crane configuration is within 360 degree chart.

Explanation of Symbols



Boom No. 74



Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



Lifting Capacities
(see page 1)



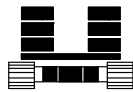
99,500 lb
+
0 lb



49.2 ft			
ft	o	ft	lb
14	81.7	55.2	363,800 *d
15	80.5	55.0	348,200 *d
16	79.3	54.8	327,200 *d
17	78.1	54.5	308,600 *d
18	76.9	54.3	291,900 *d
19	75.7	54.0	276,800 *d
20	74.5	53.7	263,200 *d
22	72.0	53.0	231,100 c
24	69.5	52.2	198,600 c
26	66.9	51.2	173,900 b
28	64.3	50.2	154,400
30	61.7	49.1	138,600
32	58.9	47.8	125,600
34	56.1	46.4	114,700
36	53.1	44.9	105,400
38	50.0	43.1	97,400
40	46.8	41.2	90,400
42	43.3	39.0	84,300
44	39.6	36.5	78,800
46	35.6	33.6	74,000
48	31.0	30.3	69,500
50	25.6	26.1	65,500

59.1 ft			
ft	o	ft	lb
16	81.1	64.8	327,100 *d
17	80.1	64.6	308,500 *d
18	79.1	64.4	291,800 *c
19	78.1	64.2	276,700 *c
20	77.1	63.9	263,100 *c
22	75.1	63.3	231,900 c
24	73.1	62.7	199,300 c
26	71.0	62.0	174,500 b
28	68.9	61.1	154,900
30	66.8	60.2	139,200
32	64.6	59.2	126,100
34	62.4	58.1	115,200
36	60.2	56.9	105,900
38	57.8	55.6	97,900
40	55.5	54.2	90,900
42	53.0	52.7	84,800
44	50.4	50.9	79,400
46	47.8	49.1	74,500
48	45.0	47.0	70,100
50	42.1	44.8	66,200
55	33.8	37.8	57,800
60	22.7	27.6	50,900

68.9 ft			
ft	o	ft	lb
17	81.6	74.7	307,900 *d
18	80.7	74.5	291,200 *c
19	79.9	74.3	276,100 *c
20	79.0	74.1	262,500 *c
22	77.3	73.6	232,000 c
24	75.6	73.0	199,400 c
26	73.8	72.4	174,500 b
28	72.1	71.7	154,900
30	70.3	71.0	139,100
32	68.5	70.1	126,100
34	66.7	69.2	115,200
36	64.8	68.2	105,900
38	62.9	67.2	97,800
40	61.0	66.0	90,900
42	59.1	64.8	84,700
44	57.1	63.5	79,300
46	55.0	62.0	74,400
48	52.9	60.5	70,100
50	50.7	58.8	66,200
55	45.0	53.9	57,800
60	38.5	47.9	51,100
65	30.8	40.2	45,500
70	20.5	28.8	40,700



99,500 lb
+
0 lb



78.7 ft			
ft	o	ft	lb
19	81.2	84.3	275,800 *c
20	80.4	84.1	262,200 *c
22	78.9	83.7	232,300 c
24	77.4	83.2	199,600 c
26	75.9	82.7	174,700 b
28	74.4	82.1	155,100 b
30	72.9	81.4	139,200
32	71.3	80.7	126,200
34	69.8	80.0	115,200
36	68.2	79.1	105,900
38	66.6	78.2	97,900
40	65.0	77.2	90,900
42	63.3	76.2	84,700
44	61.7	75.1	79,300
46	60.0	73.9	74,500
48	58.3	72.6	70,100
50	56.5	71.3	66,200
55	51.9	67.4	57,900
60	47.0	62.9	51,100
65	41.6	57.5	45,600
70	35.6	50.8	40,900
75	28.4	42.3	36,900
80	18.6	29.8	33,400

88.6 ft			
ft	o	ft	lb
20	81.5	94.1	262,000 *c
22	80.2	93.7	232,500 b
24	78.9	93.3	199,800 b
26	77.5	92.8	174,800 b
28	76.2	92.3	155,200 b
30	74.8	91.8	139,300
32	73.5	91.1	126,300
34	72.1	90.5	115,300
36	70.7	89.7	106,000
38	69.4	88.9	97,900
40	68.0	88.1	90,900
42	66.5	87.2	84,800
44	65.1	86.2	79,400
46	63.6	85.2	74,500
48	62.2	84.1	70,200
50	60.7	83.0	66,200
55	56.8	79.8	57,900
60	52.8	76.1	51,200
65	48.5	71.7	45,700
70	43.9	66.7	41,100
75	38.9	60.7	37,100
80	33.2	53.5	33,700
85	26.4	44.2	30,700
90	17.1	30.7	28,000

98.4 ft			
ft	o	ft	lb
22	81.2	103.8	232,700 b
24	80.0	103.4	199,900 b
26	78.8	103.0	174,900 b
28	77.6	102.5	155,200 b
30	76.4	102.0	139,300
32	75.2	101.4	126,200
34	74.0	100.8	115,200
36	72.8	100.2	105,900
38	71.5	99.5	97,800
40	70.3	98.7	90,800
42	69.0	97.9	84,700
44	67.8	97.1	79,200
46	66.5	96.2	74,400
48	65.2	95.2	70,000
50	63.9	94.2	66,100
55	60.6	91.5	57,800
60	57.1	88.3	51,100
65	53.5	84.6	45,600
70	49.7	80.5	40,900
75	45.7	75.7	37,000
80	41.4	70.2	33,600
85	36.6	63.7	30,700
90	31.2	55.9	28,000
95	24.7	46.0	25,700
100	15.8	31.4	23,600



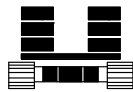
99,500 lb
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108.3 ft			
ft	o	ft	lb
24	80.9	113.4	199,900 b
26	79.8	113.0	174,900 b
28	78.7	112.6	155,200
30	77.7	112.1	139,300
32	76.6	111.6	126,200
34	75.5	111.1	115,200
36	74.4	110.5	105,900
38	73.3	109.9	97,800
40	72.1	109.2	90,800
42	71.0	108.5	84,700
44	69.9	107.7	79,200
46	68.8	106.9	74,400
48	67.6	106.1	70,000
50	66.4	105.2	66,100
55	63.5	102.7	57,800
60	60.5	99.9	51,100
65	57.3	96.8	45,600
70	54.1	93.2	41,000
75	50.7	89.2	37,100
80	47.1	84.6	33,700
85	43.3	79.5	30,800
90	39.2	73.5	28,200
95	34.7	66.6	25,900
100	29.5	58.2	23,800
105	23.3	47.6	21,900

118.1 ft			
ft	o	ft	lb
24	81.7	123.4	199,900 b
26	80.7	123.0	174,900 b
28	79.7	122.6	155,100
30	78.7	122.2	139,200
32	77.7	121.8	126,100
34	76.7	121.3	115,100
36	75.7	120.7	105,700
38	74.7	120.2	97,700
40	73.7	119.6	90,700
42	72.7	118.9	84,500
44	71.6	118.2	79,000
46	70.6	117.5	74,200
48	69.6	116.7	69,800
50	68.5	115.9	65,900
55	65.9	113.7	57,600
60	63.2	111.2	50,800
65	60.4	108.4	45,300
70	57.5	105.3	40,700
75	54.6	101.8	36,800
80	51.5	97.8	33,500
85	48.2	93.5	30,500
90	44.8	88.5	27,900
95	41.2	83.0	25,700
100	37.3	76.6	23,600
105	32.9	69.2	21,800
110	28.0	60.3	20,100
115	22.0	49.0	18,500

128.0 ft			
ft	o	ft	lb
26	81.4	133.0	174,800
28	80.5	132.7	155,100
30	79.6	132.3	139,100
32	78.7	131.9	126,000
34	77.8	131.4	115,000
36	76.8	130.9	105,600
38	75.9	130.4	97,500
40	75.0	129.8	90,500
42	74.0	129.3	84,300
44	73.1	128.6	78,900
46	72.2	128.0	74,000
48	71.2	127.3	69,700
50	70.3	126.5	65,700
55	67.8	124.5	57,400
60	65.4	122.2	50,700
65	62.9	119.7	45,200
70	60.3	116.9	40,600
75	57.7	113.8	36,600
80	54.9	110.3	33,300
85	52.1	106.5	30,400
90	49.2	102.2	27,800
95	46.1	97.5	25,500
100	42.9	92.2	23,500
105	39.4	86.3	21,600
110	35.6	79.5	20,000
115	31.4	71.7	18,500
120	26.7	62.3	17,100
125	20.9	50.4	15,800



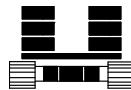
99,500 lb
+
0 lb



137.8 ft			
ft	o	ft	lb
28	81.2	142.7	155,000
30	80.3	142.3	139,000
32	79.5	141.9	125,900
34	78.6	141.5	114,800
36	77.8	141.0	105,400
38	76.9	140.6	97,300
40	76.1	140.1	90,300
42	75.2	139.5	84,100
44	74.4	138.9	78,700
46	73.5	138.3	73,800
48	72.6	137.7	69,400
50	71.7	137.0	65,500
55	69.5	135.1	57,100
60	67.3	133.1	50,400
65	65.0	130.7	44,900
70	62.6	128.2	40,300
75	60.2	125.4	36,400
80	57.8	122.2	33,000
85	55.3	118.8	30,100
90	52.7	115.1	27,500
95	50.0	110.9	25,200
100	47.2	106.4	23,200
105	44.2	101.3	21,400
110	41.1	95.7	19,700
115	37.7	89.4	18,200
120	34.1	82.3	16,800
125	30.1	74.0	15,600
130	25.5	64.1	14,400
135	19.9	51.6	13,300

147.6 ft			
ft	o	ft	lb
30	81.0	152.3	139,300
32	80.2	151.9	126,100
34	79.4	151.6	115,100
36	78.6	151.1	105,700
38	77.8	150.7	97,600
40	77.0	150.2	90,600
42	76.2	149.7	84,400
44	75.4	149.2	78,900
46	74.6	148.6	74,100
48	73.8	148.0	69,700
50	73.0	147.4	65,800
55	70.9	145.7	57,400
60	68.9	143.7	50,700
65	66.8	141.6	45,200
70	64.6	139.3	40,600
75	62.4	136.7	36,700
80	60.2	133.8	33,300
85	57.9	130.7	30,400
90	55.6	127.3	27,800
95	53.2	123.6	25,600
100	50.7	119.6	23,500
105	48.1	115.2	21,700
110	45.4	110.3	20,100
115	42.5	105.0	18,600
120	39.5	99.0	17,200
125	36.3	92.4	16,000
130	32.8	84.9	14,800
135	28.9	76.2	13,800
140	24.4	65.9	12,800
145	19.0	52.7	11,800

157.5 ft			
ft	o	ft	lb
30	81.6	162.3	139,200
32	80.8	162.0	126,000
34	80.1	161.6	114,900
36	79.3	161.2	105,500
38	78.6	160.8	97,400
40	77.9	160.3	90,400
42	77.1	159.9	84,200
44	76.4	159.4	78,700
46	75.6	158.8	73,800
48	74.8	158.3	69,500
50	74.1	157.7	65,500
55	72.2	156.1	57,100
60	70.3	154.3	50,400
65	68.3	152.3	44,900
70	66.3	150.1	40,300
75	64.3	147.8	36,400
80	62.2	145.2	33,000
85	60.2	142.3	30,100
90	58.0	139.2	27,500
95	55.8	135.9	25,200
100	53.6	132.2	23,200
105	51.2	128.2	21,400
110	48.8	123.9	19,800
115	46.3	119.2	18,300
120	43.7	114.1	16,900
125	41.0	108.4	15,700
130	38.1	102.2	14,500
135	35.0	95.3	13,500
140	31.6	87.4	12,500
145	27.8	78.3	11,600
150	23.5	67.5	10,700
155	18.2	53.8	9,900



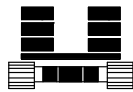
99,500 lb
+
0 lb



167.3 ft			
ft	o	ft	lb
32	81.4	171.9	125,800
34	80.7	171.6	114,700
36	80.0	171.2	105,300
38	79.3	170.8	97,200
40	78.6	170.4	90,200
42	77.9	170.0	84,000
44	77.2	169.5	78,500
46	76.5	169.0	73,600
48	75.8	168.5	69,200
50	75.1	167.9	65,300
55	73.3	166.4	56,900
60	71.5	164.8	50,200
65	69.6	162.9	44,600
70	67.8	160.9	40,000
75	65.9	158.7	36,100
80	64.0	156.3	32,700
85	62.1	153.6	29,800
90	60.1	150.8	27,300
95	58.1	147.7	25,000
100	56.0	144.4	23,000
105	53.9	140.8	21,200
110	51.8	136.9	19,500
115	49.5	132.7	18,000
120	47.2	128.1	16,700
125	44.8	123.1	15,400
130	42.3	117.7	14,300
135	39.6	111.8	13,200
140	36.8	105.3	12,300
145	33.8	98.0	11,400
150	30.5	89.8	10,500
155	26.8	80.3	9,700
160	22.6	69.1	8,900
165	17.4	54.7	8,200

177.2 ft			
ft	o	ft	lb
34	81.2	181.6	114,600
36	80.5	181.2	105,100
38	79.9	180.9	97,000
40	79.2	180.5	89,900
42	78.6	180.0	83,700
44	77.9	179.6	78,200
46	77.2	179.1	73,400
48	76.6	178.6	69,000
50	75.9	178.1	65,000
55	74.2	176.7	56,600
60	72.5	175.2	49,900
65	70.8	173.4	44,300
70	69.1	171.5	39,700
75	67.3	169.5	35,800
80	65.6	167.2	32,400
85	63.8	164.8	29,500
90	61.9	162.1	26,900
95	60.1	159.3	24,700
100	58.2	156.2	22,600
105	56.2	152.9	20,800
110	54.3	149.3	19,200
115	52.2	145.5	17,700
120	50.1	141.3	16,300
125	48.0	136.9	15,100
130	45.7	132.1	14,000
135	43.4	126.9	12,900
140	40.9	121.2	11,900
145	38.4	115.0	11,000
150	35.6	108.2	10,200
155	32.7	100.6	9,400
160	29.5	92.1	8,600
165	25.9	82.2	7,900
170	21.8	70.5	7,300
175	16.7	55.6	6,600

187.0 ft			
ft	o	ft	lb
34	81.7	191.6	114,300
36	81.0	191.2	104,900
38	80.4	190.9	96,800
40	79.8	190.5	89,700
42	79.2	190.1	83,500
44	78.6	189.7	78,000
46	77.9	189.2	73,100
48	77.3	188.8	68,700
50	76.7	188.3	64,800
55	75.1	187.0	56,400
60	73.5	185.5	49,700
65	71.9	183.9	44,100
70	70.2	182.1	39,500
75	68.6	180.1	35,600
80	66.9	178.0	32,200
85	65.3	175.7	29,300
90	63.5	173.3	26,700
95	61.8	170.6	24,400
100	60.0	167.7	22,400
105	58.2	164.7	20,600
110	56.4	161.4	19,000
115	54.5	157.8	17,500
120	52.6	154.1	16,100
125	50.6	150.0	14,900
130	48.6	145.7	13,800
135	46.5	141.0	12,700
140	44.3	135.9	11,800
145	42.1	130.5	10,900
150	39.7	124.5	10,000
155	37.2	118.1	9,200
160	34.5	111.0	8,500
165	31.7	103.1	7,800
170	28.6	94.3	7,100
175	25.1	84.1	6,500
180	21.1	71.9	5,900
185	16.1	56.4	5,300



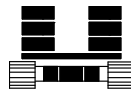
99,500 lb
+
0 lb



196.9 ft			
ft	o	ft	lb
36	81.5	201.2	104,700
38	80.9	200.9	96,600
40	80.3	200.5	89,500
42	79.7	200.1	83,300
44	79.1	199.7	77,800
46	78.5	199.3	72,900
48	77.9	198.9	68,500
50	77.3	198.4	64,500
55	75.8	197.2	56,100
60	74.3	195.8	49,400
65	72.8	194.2	43,800
70	71.3	192.6	39,200
75	69.7	190.7	35,300
80	68.2	188.7	31,900
85	66.6	186.6	29,000
90	65.0	184.3	26,400
95	63.3	181.8	24,100
100	61.7	179.1	22,100
105	60.0	176.2	20,300
110	58.3	173.2	18,600
115	56.6	169.9	17,200
120	54.8	166.4	15,800
125	53.0	162.6	14,600
130	51.1	158.7	13,400
135	49.2	154.4	12,400
140	47.2	149.8	11,400
145	45.2	144.9	10,500
150	43.1	139.6	9,700
155	40.9	133.9	8,900
160	38.6	127.8	8,200
165	36.1	121.1	7,500
170	33.5	113.7	6,800
175	30.7	105.5	6,200
180	27.7	96.3	5,600
185	24.3	85.8	5,100
190	20.4	73.2	4,500
195	15.4	57.1	4,000

206.7 ft			
ft	o	ft	lb
38	81.3	210.8	96,400
40	80.8	210.5	89,300
42	80.2	210.2	83,000
44	79.7	209.8	77,500
46	79.1	209.4	72,600
48	78.5	209.0	68,200
50	78.0	208.5	64,300
55	76.5	207.3	55,800
60	75.1	206.0	49,100
65	73.7	204.5	43,500
70	72.2	203.0	38,900
75	70.7	201.2	35,000
80	69.3	199.3	31,600
85	67.8	197.3	28,700
90	66.2	195.1	26,100
95	64.7	192.8	23,800
100	63.2	190.3	21,800
105	61.6	187.6	20,000
110	60.0	184.7	18,300
115	58.4	181.6	16,900
120	56.7	178.4	15,500
125	55.0	174.9	14,300
130	53.3	171.2	13,100
135	51.5	167.3	12,100
140	49.7	163.1	11,100
145	47.9	158.6	10,200
150	45.9	153.8	9,400
155	44.0	148.7	8,600
160	41.9	143.2	7,900
165	39.8	137.3	7,200
170	37.5	130.9	6,500
175	35.1	123.9	5,900
180	32.6	116.3	5,400
185	29.9	107.9	4,800
190	26.9	98.4	4,300
195	23.6	87.5	3,800
200	19.7	74.4	3,300

216.5 ft			
ft	o	ft	lb
40	81.2	220.5	86,500 *
42	80.7	220.2	82,800
44	80.1	219.8	77,300
46	79.6	219.4	72,400
48	79.1	219.0	68,000
50	78.5	218.6	64,000
55	77.2	217.5	55,600
60	75.8	216.2	48,800
65	74.4	214.8	43,200
70	73.0	213.3	38,600
75	71.6	211.7	34,600
80	70.2	209.9	31,300
85	68.8	207.9	28,300
90	67.4	205.9	25,700
95	65.9	203.6	23,500
100	64.5	201.3	21,400
105	63.0	198.7	19,600
110	61.5	196.0	18,000
115	60.0	193.2	16,500
120	58.4	190.1	15,100
125	56.8	186.9	13,900
130	55.2	183.4	12,800
135	53.6	179.8	11,700
140	51.9	175.9	10,800
145	50.2	171.8	9,900
150	48.4	167.4	9,000
155	46.6	162.7	8,200
160	44.8	157.7	7,500
165	42.8	152.4	6,800
170	40.8	146.7	6,200
175	38.7	140.6	5,600
180	36.5	133.9	5,000
185	34.2	126.7	4,500
190	31.7	118.8	3,900
195	29.1	110.1	3,400
200	26.2	100.3	3,000



99,500 lb
+
0 lb



226.4 ft			
ft	o	ft	lb
40	81.6	230.5	77,200 *
42	81.1	230.1	76,200 *
44	80.6	229.8	75,300 *
46	80.1	229.4	72,100
48	79.5	229.0	67,700
50	79.0	228.6	63,700
55	77.7	227.6	55,300
60	76.4	226.4	48,500
65	75.1	225.0	43,000
70	73.8	223.6	38,300
75	72.5	222.0	34,400
80	71.1	220.3	31,000
85	69.8	218.5	28,100
90	68.4	216.5	25,500
95	67.1	214.4	23,200
100	65.7	212.2	21,200
105	64.3	209.8	19,400
110	62.8	207.2	17,700
115	61.4	204.5	16,300
120	59.9	201.7	14,900
125	58.5	198.6	13,700
130	57.0	195.4	12,500
135	55.4	192.0	11,500
140	53.9	188.3	10,500
145	52.3	184.5	9,600
150	50.6	180.4	8,800
155	49.0	176.1	8,000
160	47.2	171.5	7,300
165	45.5	166.7	6,600
170	43.7	161.5	6,000
175	41.8	156.0	5,400
180	39.8	150.1	4,800
185	37.8	143.7	4,200
190	35.6	136.8	3,700
195	33.4	129.4	3,200

236.2 ft			
ft	o	ft	lb
42	81.5	240.1	75,100 *
44	81.0	239.8	74,300 *
46	80.5	239.4	71,800
48	80.0	239.1	67,300
50	79.5	238.7	63,300
55	78.2	237.7	54,900
60	77.0	236.5	48,100
65	75.8	235.2	42,500
70	74.5	233.9	37,900
75	73.2	232.4	33,900
80	72.0	230.7	30,500
85	70.7	229.0	27,600
90	69.4	227.1	25,000
95	68.1	225.1	22,700
100	66.7	223.0	20,700
105	65.4	220.7	18,800
110	64.1	218.3	17,200
115	62.7	215.7	15,700
120	61.3	213.0	14,400
125	59.9	210.1	13,100
130	58.5	207.1	12,000
135	57.1	203.9	10,900
140	55.6	200.5	10,000
145	54.1	196.9	9,100
150	52.6	193.1	8,200
155	51.0	189.1	7,500
160	49.4	184.8	6,700
165	47.8	180.3	6,000
170	46.1	175.6	5,400
175	44.4	170.5	4,800
180	42.6	165.2	4,200
185	40.8	159.4	3,700
190	38.9	153.3	3,200