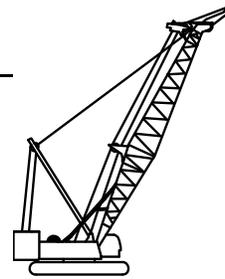


# Clamshell/Grapple Capacities

Boom No. 74  
77,400 lb Crane Counterweight  
0 lb Carbody Counterweight  
360 Degree Rating



**Manitowoc**

**MLC165**



**LIFTING CAPACITIES:** Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 67.5% of a static tipping load. Capacities are based on tipping, structural competence (\*), operating speeds and other factors.

Weight of bucket is considered part of load. 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**, and Wire Rope Specification chart **No. 9292-B** or **9292-C**. Crane operator judgment must be used to allow for adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.

**WIND CONDITIONS:** Machine may be operated in winds up to 35 mph provided crane operator judgment is used to allow for wind effect on lifted load and other considerations noted on capacity chart are followed. Wind speed to be measured at boom point elevation. **Operation is not permitted when wind is above 35 mph.** Park crane with bucket on ground or secured and position boom at 50 degrees. Lower boom onto blocking at ground level when wind is above 50 mph.

**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. 9333-A**.



**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation to center of gravity of freely suspended load.



**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.

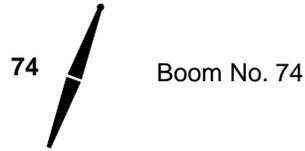
**MACHINE EQUIPMENT:** Machine equipped with 26 ft 2 in. crawlers, 43 in. treads, 23 ft 7 in. live mast, 18 part boom hoist reeving, four 28 mm boom pendants, 77,400 lb crane counterweight, and 0 lb carbody counterweight.



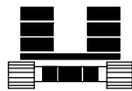
77,400 lb Crane Counterweight  
4 Side Boxes

**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.

## 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)



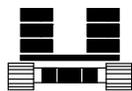
Boom Point Elevation  
(see page 1)



Lifting Capacities  
(see page 1)

REFERENCE ONLY!

# MLC165



77,400 lb  
+  
0 lb



**49.2 ft**

ft	°	ft	lb
25	69.4	52.1	26,000*
30	63.0	49.7	26,000*
35	56.0	46.4	26,000*
40	48.4	42.1	26,000*
45	39.5	36.4	26,000*
50	28.3	28.2	26,000*

**59.1 ft**

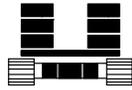
ft	°	ft	lb
30	67.8	60.7	26,000*
35	62.4	58.1	26,000*
40	56.6	54.9	26,000*
45	50.4	50.9	26,000*
50	43.5	45.9	26,000*
55	35.5	39.3	26,000*
60	25.2	30.0	25,800*

**68.9 ft**

ft	°	ft	lb
35	66.6	69.2	26,000*
40	62.0	66.6	26,000*
45	57.0	63.4	26,000*
50	51.8	59.6	26,000*
55	46.1	54.9	26,000*
60	39.8	49.2	25,800*
65	32.4	41.9	22,600*

REFERENCE ONLY

# MLC165



77,400 lb  
+  
0 lb



**78.7 ft**

ft	o	ft	lb
35	69.7	79.9	26,000*
40	65.8	77.7	26,000*
45	61.6	75.1	26,000*
50	57.3	71.9	26,000*
55	52.8	68.2	26,000*
60	48.0	63.8	25,800*
65	42.7	58.6	22,700*
70	36.8	52.2	19,800*
75	29.9	44.1	17,200*

**88.6 ft**

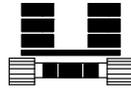
ft	o	ft	lb
40	68.6	88.5	26,000*
45	65.1	86.2	26,000*
50	61.4	83.5	26,000*
55	57.6	80.4	26,000*
60	53.6	76.8	25,800*
65	49.4	72.6	22,800*
70	44.9	67.7	20,000*
75	39.9	62.0	17,400*
80	34.4	55.0	15,200*
85	27.8	46.2	13,100*

**98.4 ft**

ft	o	ft	lb
45	67.7	97.1	26,000*
50	64.5	94.7	26,000*
55	61.2	92.0	26,000*
60	57.8	88.9	25,800*
65	54.2	85.4	22,500*
70	50.5	81.3	19,700*
75	46.5	76.7	17,200*
80	42.2	71.3	15,000*
85	37.6	65.1	13,000*
90	32.3	57.6	11,200*
95	26.1	48.1	9,500*

REFERENCE

# MLC165



77,400 lb  
+  
0 lb



**108.3 ft**

ft	o	ft	lb
45	69.9	107.7	26,000*
50	67.0	105.6	26,000*
55	64.1	103.2	26,000*
60	61.0	100.5	25,800*
65	57.9	97.4	22,600*
70	54.7	93.9	19,800*
75	51.3	90.0	17,300*
80	47.8	85.6	15,100*
85	44.0	80.5	13,200*
90	40.0	74.7	11,400*
95	35.6	68.0	9,800*
100	30.6	59.9	8,300*

**118.1 ft**

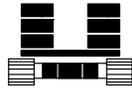
ft	o	ft	lb
50	69.0	116.3	26,000*
55	66.4	114.2	26,000*
60	63.7	111.7	25,400*
65	60.9	109.0	22,100*
70	58.1	105.9	19,300*
75	55.1	102.5	16,900*
80	52.1	98.6	14,700*
85	48.9	94.3	12,800*
90	45.5	89.5	11,000*
95	41.9	84.1	9,500*
100	38.1	77.9	8,000*
105	33.8	70.7	6,600*

**128.0 ft**

ft	o	ft	lb
55	68.3	124.9	26,000*
60	65.9	122.7	25,100*
65	63.4	120.2	21,900*
70	60.8	117.4	19,100*
75	58.2	114.4	16,600*
80	55.5	111.0	14,400*
85	52.7	107.2	12,500*
90	49.8	103.1	10,800*
95	46.7	98.4	9,200*
100	43.5	93.3	7,800*
105	40.1	87.5	6,400*

REFERENCE ONLY

# MLC165



77,400 lb  
+  
0 lb



ft	°	ft	lb
55	69.9	135.5	26,000*
60	67.7	133.5	24,600*
65	65.4	131.2	21,300*
70	63.1	128.7	18,500*
75	60.7	125.9	16,100*
80	58.3	122.9	13,900*
85	55.8	119.5	12,000*
90	53.2	115.8	10,300*
95	50.5	111.7	8,700*
100	47.7	107.3	7,300*
105	44.8	102.3	5,900*

REFERENCE ONLY!