Limited Duty Cycle Capacities

Boom No. B10:500
165,800 lb VPC (Variable Position Counterweight)
360 Degree Rating

MLC300
SERIES 0

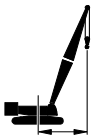
LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components. Capacities must be reduced by applicable deducts.

Limited duty cycle capacities shown are intended for limited duration applications. Continuous operation at these capacities may reduce component life.

OPERATING CONDITIONS: Machine to operate on a firm, level, and uniformly supporting surface. Refer to Boom Rigging **No. 81023380,** Wire Rope Specification chart **No. 9573-A,** and Counterweight Arrangement **No. 9345-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.

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. 9571-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.

MACHINE EQUIPMENT: Machine equipped with 31 ft 10 in. crawlers, 48 in. or 60 in. treads, 30 ft live mast, 24 part boom hoist reeving, boom support straps, and 165,800 lb VPC.

WARNING: Free fall operation is limited to 18,300 lb per part of line when lowering load with free fall clutch/brake pedal. Hydraulic power must be used for full line pull.

WARNING: Luffing jib backstay straps must be removed before use of this chart.

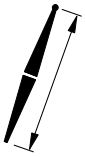
Raising Ability Over End or Side of Crawlers	
Boom Length (ft)	Block Weight (lb)
98.4	22,900
118.1	22,900
137.8	22,900
Block weight includes the weight of all blocks, hooks, weight balls, slings and hoist lines beneath lower and/or upper boom point sheaves.	

Explanation of Symbols

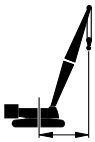
Boom No. B10:500

VPC (Variable Position Counterweight)

360 Degree Rating



Boom Length

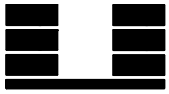


Operating Radius
(see page 1)

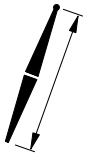
Boom Angle
(see page 1)

Lifting Capacities
(see page 1)

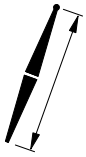
MLC300 S-0



ft	°	lb
25	81.1	44,000
30	78.1	44,000
35	75.1	44,000
40	72.0	44,000
45	68.9	44,000
50	65.6	44,000
55	62.4	44,000
60	58.9	44,000
65	55.4	44,000
70	51.7	44,000
75	47.7	44,000
80	43.5	44,000
85	38.9	44,000
90	33.7	44,000
95	27.7	41,800



ft	°	lb
25	82.6	44,000
30	80.1	44,000
35	77.6	44,000
40	75.1	44,000
45	72.5	44,000
50	70.0	44,000
55	67.3	44,000
60	64.6	44,000
65	61.9	44,000
70	59.0	44,000
75	56.1	44,000
80	53.1	44,000
85	49.9	44,000
90	46.5	44,000
95	43.0	43,700
100	39.2	39,700
105	35.0	36,100
110	30.2	32,800



ft	°	lb
30	81.5	44,000
35	79.4	44,000
40	77.3	44,000
45	75.1	44,000
50	72.9	44,000
55	70.7	44,000
60	68.5	44,000
65	66.2	44,000
70	63.9	44,000
75	61.5	44,000
80	59.1	44,000
85	56.6	44,000
90	54.0	44,000
95	51.4	44,000
100	48.6	41,100
105	45.7	37,500
110	42.6	34,100
115	39.3	31,100
120	35.8	28,400
125	31.9	25,800
130	27.5	23,500