

Clamshell/Grapple Capacities

Boom No. B10:290
45,400 lb Crane Counterweight
0 lb Carbody Counterweight
360 Degree Rating

MLC90A-1
SERIES 1



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.

Weight of bucket is considered part of load. Where no capacity is shown, operation is not intended or approved.

Clamshell/grapple 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. 80121887**, Wire Rope Specifications chart **No. 9751-B**, and Counterweight Arrangements chart **No. 9745-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 Specifications chart **No. 9749-A**.



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

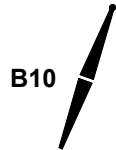


BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

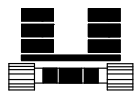
MACHINE EQUIPMENT: Machine equipped with 21 ft 3 in. crawlers, 35 in. treads, 14 ft 5 in. gantry, 8 part boom hoist reeving, two 32 mm boom pendants, 45,400 lb crane counterweight, and 0 lb carbody counterweight.

Raising Ability Over End or Side of Crawlers	
Boom Length (ft)	Bucket Weight (lb)
62.3 - 101.7	8,500
111.5 - 121.4	4,800
Bucket weight includes the weight of all blocks, hooks, bucket, weight ball, slings and hoist lines beneath boom point sheaves.	

Explanation of Symbols



Boom No. B10:290



Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



Operating Radius
(see page 1)

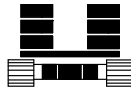


Boom Angle
(see page 1)



Lifting Capacities
(see page 1)

B10



45,400 lb
+
0 lb



360°

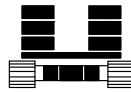
62.3 ft		
ft	°	lb
32	64.7	22,000
34	62.6	22,000
36	60.5	21,900
38	58.3	20,700
40	56.1	19,700
42	53.9	18,700
44	51.5	17,900
46	49.1	17,100
48	46.6	16,400
50	44.0	15,700
52	41.2	15,100
54	38.3	14,600
56	35.2	14,000
58	31.8	13,200

72.2 ft		
ft	°	lb
36	64.8	21,900
38	63.1	20,700
40	61.3	19,700
42	59.4	18,700
44	57.6	17,900
46	55.6	17,100
48	53.7	16,400
50	51.7	15,700
52	49.6	15,100
54	47.5	14,600
56	45.2	14,000
58	42.9	13,500
60	40.5	13,100
62	38.0	12,300
64	35.3	11,500
66	32.4	10,600

82.0 ft		
ft	°	lb
40	65.0	19,700
42	63.4	18,700
44	61.9	17,900
46	60.2	17,100
48	58.6	16,400
50	57.0	15,700
52	55.3	15,100
54	53.5	14,600
56	51.8	14,000
58	49.9	13,500
60	48.1	13,100
62	46.2	12,700
64	44.2	11,900
66	42.1	11,100
68	39.9	10,300
70	37.7	9,600
72	35.3	8,900
74	32.8	8,300
76	30.1	7,600

REFERENCE ONLY

B10



45,400 lb
+
0 lb



360°

91.9 ft		
ft	°	lb
46	63.7	17,100
48	62.3	16,400
50	60.9	15,700
52	59.4	15,100
54	58.0	14,600
56	56.5	14,000
58	55.0	13,500
60	53.4	13,100
62	51.8	12,700
64	50.2	12,300
66	48.6	11,500
68	46.9	10,800
70	45.1	10,000
72	43.3	9,400
74	41.4	8,800
76	39.5	8,200
78	37.5	7,600
80	35.3	7,100
82	33.1	6,600
84	30.7	6,100

101.7 ft		
ft	°	lb
50	63.9	15,700
52	62.7	15,100
54	61.4	14,600
56	60.1	14,000
58	58.8	13,500
60	57.4	13,100
62	56.1	12,700
64	54.7	12,200
66	53.3	11,300
68	51.9	10,600
70	50.4	9,900
72	48.9	9,200
74	47.4	8,600
76	45.9	8,000
78	44.3	7,400
80	42.6	6,900
82	40.9	6,400
84	39.1	5,900
86	37.3	5,500
88	35.4	5,100

111.5 ft		
ft	°	lb
54	64.1	14,600
56	63.0	14,000
58	61.8	13,500
60	60.6	13,100
62	59.4	12,700
64	58.2	12,000
66	57.0	11,200
68	55.8	10,500
70	54.5	9,700
72	53.2	9,100
74	51.9	8,500
76	50.6	7,900
78	49.3	7,300
80	47.9	6,800
82	46.5	6,300
84	45.0	5,800
86	43.6	5,400
88	42.0	4,900

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B10



45,400 lb
+
0 lb



360°

 121.4 ft		
ft	°	lb
58	64.3	13,500
60	63.2	13,100
62	62.2	12,700
64	61.1	12,000
66	60.0	11,300
68	58.9	10,700
70	57.8	9,900
72	56.7	9,300
74	55.5	8,600
76	54.4	8,000
78	53.2	7,500
80	52.0	7,000
82	50.8	6,500
84	49.5	6,000
86	48.3	5,500
88	47.0	5,100

REFERENCE ONLY!