

Clamshell/Grapple Capacities

Boom No. B10:290
45,400 lb Crane Counterweight
0 lb Carbody Counterweight
Crawler Machine on a Barge
0 Degree thru 1 Degree and
1 Degree thru 3 Degree Static Machine List
No Travel - 360 Degree Rating

MLC80A-1 SERIES 1

LIFTING CAPACITIES: Capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. 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 and uniformly supporting surface with machine list not to exceed degrees noted. Refer to Boom Rigging No. 80121888, Wire Rope Specifications chart No. 9775-B, and Counterweight Arrangements chart No. 9769-A. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, 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.



OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation at barge deck 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)	Machine List		
	0°	1º - 3º	
	Bucket Weight (lb)		
62.3 - 91.9	8,500	8,500	
101.7	8,500	4,800	
111.5 - 121.4	4,800	4,800	

Bucket weight includes the weight of all blocks, hooks, bucket, weight ball, slings and hoist lines beneath boom point sheaves.

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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)



Machine List



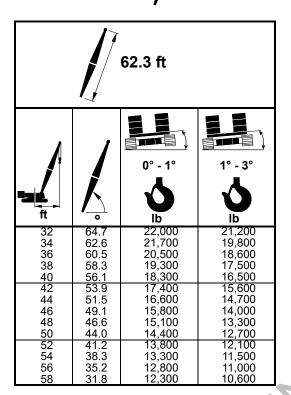
Lifting Capacities (see page 1)





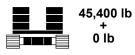
45,400 lb + 0 lb





72.2 ft			
	/	0° - 1°	1° - 3°
ft 36	64.8	lb 20,500	lb 18,600
38 40 42 44	63.1 61.3 59.4 57.6	19,300 18,300 17,400 16,600	17,500 16,500 15,600 14,700
46 48 50 52 54	55.6 53.7 51.7 49.6 47.5	15,800 15,100 14,400 13,900 13,300	14,000 13,300 12,700 12,100 11,600
56 58 60 62 64	45.2 42.9 40.5 38.0 35.3	12,800 12,300 11,900 11,400 11,000	11,100 10,600 10,100 9,700 9,400 9,000







82.0 ft			
Λ	,		
		0° - 1° ■	1° - 3° ■
Tal		Ø	O
_	0	lb 10.000	lb 10.100
40 42	65.0 63.4	18,300 17,400	16,400 15,500
44	61.9	16,500	14,700
46	60.2	15,800	13,900
48	58.6	15,100	13,200
50	57.0	14,400	12,600
52	55.3	13,800	12,000
54 56	53.5 51.8	13,300 12,800	11,500 11,000
58	49.9	12,300	10,500
60	48.1	11,800	10,100
62	46.2	11,400	9,700
64	44.2	11,000	9,300
66	42.1	10,700	8,900
68 70	39.9 37.7	10,000 9,300	8,600 8,300
70 72	35.3	8,700	8,000
74	32.8	8,100	7,700
76	30.1	7,500	7,200

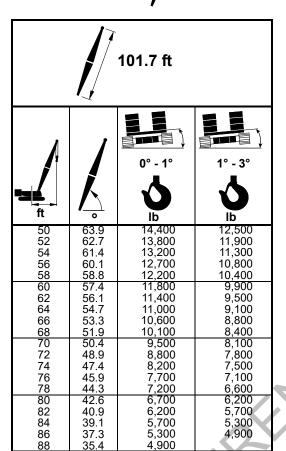
91.9 ft			
#		0° - 1°	1° - 3°
46	63.7	15,800	13,900
48	62.3	15,100	13,200
50	60.9	14,400	12,600
52	59.4	13,800	12,000
54	58.0	13,300	11,500
56	56.5	12,800	11,000
58	55.0	12,300	10,500
60	53.4	11,800	10,100
62	51.8	11,400	9,700
64	50.2	11,000	9,300
66	48.6	10,700	8,900
68	46.9	10,300	8,600
70	45.1	9,700	8,300
72	43.3	9,100	8,000
74	41.4	8,500	7,700
76	39.5	7,900	7,400
78	37.5	7,400	7,000
80	35.3	6,900	6,500
82	33.1	6,400	6,100
84	30.7	5,900	5,600











111.5 ft			
		0° · 1°	1° - 3°
ft 54	64.1	lb 13,200	Ib 11,200
56 58 60 62	63.0 61.8 60.6 59.4	12,600 12,200 11,700 11,300	10,700 10,200 9,800 9,400
64 66 68 70 72 74	58.2 57.0 55.8 54.5 53.2	10,900 10,500 9,900 9,300 8,600	9,000 8,700 8,300 8,000 7,700
76 78 80 82	51.9 50.6 49.3 47.9 46.5	8,000 7,500 7,000 6,500 6,000	7,300 6,800 6,300 5,900 5,400
84 86	45.0 43.6	5,500 5,100	5,000

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121.4 ft			
		0° - 1°	1° - 3°
58 60 62 64 66	64.3 63.2 62.2 61.1 60.0	12,200 11,700 11,300 10,900 10,500	10,200 9,800 9,400 9,000 8,600
68 70 72 74 76	58.9 57.8 56.7 55.5 54.4	10,100 9,400 8,800 8,200 7,600	8,300 8,000 7,600 7,100 6,600
78 80 82 84 86	53.2 52.0 50.8 49.5 48.3	7,100 6,600 6,100 5,700 5,200 4,800	6,100 5,600 5,100