

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

MLC100A-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. 80121889, Wire Rope Specifications chart No. 9800-B, and Counterweight Arrangements chart No. 9794-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.



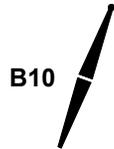
BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

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.

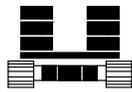
| Raising Ability Over End or Side of Crawlers | | |
|--|--------------------|---------|
| Boom Length (ft) | Machine List | |
| | 0° | 1° - 3° |
| | Bucket Weight (lb) | |
| 52.5 - 91.9 | 8,500 | 8,500 |
| 101.7 | 8,500 | 4,800 |
| 111.5 - 121.4 | 4,800 | 4,800 |

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

Explanation of Symbols



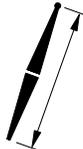
Boom No. B10:290



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)

MLC100A-1 S-1



45,400 lb
+
0 lb



52.5 ft

| | | 0° - 1° | | 1° - 3° | |
|----|------|---------|--------|---------|----|
| ft | o | lb | lb | lb | lb |
| 28 | 64.4 | 22,000 | 22,000 | | |
| 30 | 61.9 | 22,000 | 22,000 | | |
| 32 | 59.4 | 22,000 | 21,300 | | |
| 34 | 56.8 | 21,800 | 20,000 | | |
| 36 | 54.1 | 20,500 | 18,700 | | |
| 38 | 51.4 | 19,400 | 17,600 | | |
| 40 | 48.5 | 18,400 | 16,600 | | |
| 42 | 45.4 | 17,500 | 15,700 | | |
| 44 | 42.2 | 16,600 | 14,900 | | |
| 46 | 38.8 | 15,900 | 14,100 | | |
| 48 | 35.1 | 15,200 | 13,400 | | |
| 50 | 31.0 | 14,500 | 12,800 | | |

62.3 ft

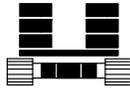
| | | 0° - 1° | | 1° - 3° | |
|----|------|---------|--------|---------|----|
| ft | o | lb | lb | lb | lb |
| 32 | 64.7 | 22,000 | 21,200 | | |
| 34 | 62.6 | 21,700 | 19,800 | | |
| 36 | 60.5 | 20,500 | 18,600 | | |
| 38 | 58.3 | 19,300 | 17,500 | | |
| 40 | 56.1 | 18,300 | 16,500 | | |
| 42 | 53.9 | 17,400 | 15,600 | | |
| 44 | 51.5 | 16,600 | 14,700 | | |
| 46 | 49.1 | 15,800 | 14,000 | | |
| 48 | 46.6 | 15,100 | 13,300 | | |
| 50 | 44.0 | 14,400 | 12,700 | | |
| 52 | 41.2 | 13,800 | 12,100 | | |
| 54 | 38.3 | 13,300 | 11,500 | | |
| 56 | 35.2 | 12,800 | 11,000 | | |
| 58 | 31.8 | 12,300 | 10,600 | | |

REFERENCE ONLY

MLC100A-1 S-1



B10



45,400 lb
+
0 lb



72.2 ft

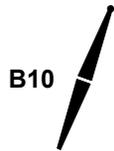
| | | 45,400 lb + 0 lb | |
|----|------|------------------|---------|
| | | 0° - 1° | 1° - 3° |
| ft | ° | lb | lb |
| 36 | 64.8 | 20,500 | 18,600 |
| 38 | 63.1 | 19,300 | 17,500 |
| 40 | 61.3 | 18,300 | 16,500 |
| 42 | 59.4 | 17,400 | 15,600 |
| 44 | 57.6 | 16,600 | 14,700 |
| 46 | 55.6 | 15,800 | 14,000 |
| 48 | 53.7 | 15,100 | 13,300 |
| 50 | 51.7 | 14,400 | 12,700 |
| 52 | 49.6 | 13,900 | 12,100 |
| 54 | 47.5 | 13,300 | 11,600 |
| 56 | 45.2 | 12,800 | 11,100 |
| 58 | 42.9 | 12,300 | 10,600 |
| 60 | 40.5 | 11,900 | 10,100 |
| 62 | 38.0 | 11,400 | 9,700 |
| 64 | 35.3 | 11,000 | 9,400 |
| 66 | 32.4 | 10,400 | 9,000 |

82.0 ft

| | | 45,400 lb + 0 lb | |
|----|------|------------------|---------|
| | | 0° - 1° | 1° - 3° |
| ft | ° | lb | lb |
| 40 | 65.0 | 18,300 | 16,400 |
| 42 | 63.4 | 17,400 | 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 | 53.5 | 13,300 | 11,500 |
| 56 | 51.8 | 12,800 | 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 | 39.9 | 10,000 | 8,600 |
| 70 | 37.7 | 9,300 | 8,300 |
| 72 | 35.3 | 8,700 | 8,000 |
| 74 | 32.8 | 8,100 | 7,700 |
| 76 | 30.1 | 7,500 | 7,200 |

REFERENCE ONLY

MLC100A-1 S-1



45,400 lb
+
0 lb



91.9 ft

| ft | ° | 45,400 lb + 0 lb | |
|----|------|------------------|---------|
| | | 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 |

101.7 ft

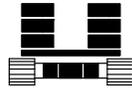
| ft | ° | 45,400 lb + 0 lb | |
|----|------|------------------|---------|
| | | 0° - 1° | 1° - 3° |
| 50 | 63.9 | 14,400 | 12,500 |
| 52 | 62.7 | 13,800 | 11,900 |
| 54 | 61.4 | 13,200 | 11,300 |
| 56 | 60.1 | 12,700 | 10,800 |
| 58 | 58.8 | 12,200 | 10,400 |
| 60 | 57.4 | 11,800 | 9,900 |
| 62 | 56.1 | 11,400 | 9,500 |
| 64 | 54.7 | 11,000 | 9,100 |
| 66 | 53.3 | 10,600 | 8,800 |
| 68 | 51.9 | 10,100 | 8,400 |
| 70 | 50.4 | 9,500 | 8,100 |
| 72 | 48.9 | 8,800 | 7,800 |
| 74 | 47.4 | 8,200 | 7,500 |
| 76 | 45.9 | 7,700 | 7,100 |
| 78 | 44.3 | 7,200 | 6,600 |
| 80 | 42.6 | 6,700 | 6,200 |
| 82 | 40.9 | 6,200 | 5,700 |
| 84 | 39.1 | 5,700 | 5,300 |
| 86 | 37.3 | 5,300 | 4,900 |
| 88 | 35.4 | 4,900 | |

REFERENCE ONLY

MLC100A-1 S-1



B10



45,400 lb
+
0 lb



111.5 ft

| | | 45,400 lb + 0 lb | |
|----|------|------------------|---------|
| | | 0° - 1° | 1° - 3° |
| ft | ° | lb | lb |
| 54 | 64.1 | 13,200 | 11,200 |
| 56 | 63.0 | 12,600 | 10,700 |
| 58 | 61.8 | 12,200 | 10,200 |
| 60 | 60.6 | 11,700 | 9,800 |
| 62 | 59.4 | 11,300 | 9,400 |
| 64 | 58.2 | 10,900 | 9,000 |
| 66 | 57.0 | 10,500 | 8,700 |
| 68 | 55.8 | 9,900 | 8,300 |
| 70 | 54.5 | 9,300 | 8,000 |
| 72 | 53.2 | 8,600 | 7,700 |
| 74 | 51.9 | 8,000 | 7,300 |
| 76 | 50.6 | 7,500 | 6,800 |
| 78 | 49.3 | 7,000 | 6,300 |
| 80 | 47.9 | 6,500 | 5,900 |
| 82 | 46.5 | 6,000 | 5,400 |
| 84 | 45.0 | 5,500 | 5,000 |
| 86 | 43.6 | 5,100 | |

121.4 ft

| | | 45,400 lb + 0 lb | |
|----|------|------------------|---------|
| | | 0° - 1° | 1° - 3° |
| ft | ° | lb | lb |
| 58 | 64.3 | 12,200 | 10,200 |
| 60 | 63.2 | 11,700 | 9,800 |
| 62 | 62.2 | 11,300 | 9,400 |
| 64 | 61.1 | 10,900 | 9,000 |
| 66 | 60.0 | 10,500 | 8,600 |
| 68 | 58.9 | 10,100 | 8,300 |
| 70 | 57.8 | 9,400 | 8,000 |
| 72 | 56.7 | 8,800 | 7,600 |
| 74 | 55.5 | 8,200 | 7,100 |
| 76 | 54.4 | 7,600 | 6,600 |
| 78 | 53.2 | 7,100 | 6,100 |
| 80 | 52.0 | 6,600 | 5,600 |
| 82 | 50.8 | 6,100 | 5,100 |
| 84 | 49.5 | 5,700 | |
| 86 | 48.3 | 5,200 | |
| 88 | 47.0 | 4,800 | |

REFERENCE ONLY