

Clamshell/Grapple Capacities

Boom No. B10:290

20 610 kg Crane Counterweight

0 kg 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

MLC90A-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. 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, 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 16 m/s 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 16 m/s.** 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 22 m/s.



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 6 480 mm crawlers, 900 mm treads, 4 390 mm gantry, 8 part boom hoist reeving, two 32 mm boom pendants, 20 610 kg crane counterweight, and 0 kg carbody counterweight.

Raising Ability Over End or Side of Crawlers		
Boom Length (m)	Machine List	
	0°	1° - 3°
	Bucket Weight (kg)	
19,0 - 28,0	3 850	3 850
31,0	3 850	2 175
34,0 - 37,0	2 175	2 175
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



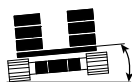
Boom Length



Operating Radius
(see page 1)



Boom Angle
(see page 1)



Machine List



Lifting Capacities
(see page 1)

MLC90A-1 S-1



B10



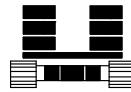
20 610 kg
+
0 kg



19,0 m			
m	°	kg	kg
9,8	64,7	9 900	9 600
10,0	63,8	9 900	9 300
10,5	62,1	9 700	8 800
11,0	60,4	9 200	8 400
11,5	58,6	8 800	8 000
12,0	56,8	8 400	7 600
12,5	55,0	8 100	7 200
13,0	53,1	7 700	6 900
13,5	51,2	7 400	6 600
14,0	49,2	7 100	6 300
14,5	47,1	6 900	6 100
15,0	45,0	6 600	5 800
15,5	42,8	6 400	5 600
16,0	40,5	6 200	5 400
16,5	38,1	6 000	5 200
17,0	35,5	5 800	5 000
17,5	32,8	5 600	4 800

22,0 m			
m	°	kg	kg
11,0	64,8	9 300	8 400
11,5	63,3	8 800	8 000
12,0	61,8	8 400	7 600
12,5	60,3	8 100	7 200
13,0	58,8	7 700	6 900
13,5	57,3	7 400	6 600
14,0	55,7	7 100	6 300
14,5	54,1	6 900	6 100
15,0	52,5	6 600	5 800
15,5	50,8	6 400	5 600
16,0	49,1	6 200	5 400
16,5	47,3	6 000	5 200
17,0	45,5	5 800	5 000
17,5	43,6	5 600	4 800
18,0	41,7	5 400	4 700
18,5	39,7	5 300	4 500
19,0	37,5	5 100	4 400
19,5	35,3	5 000	4 200
20,0	33,0	4 700	4 100

B10



20 610 kg
+
0 kg



25,0 m			
m	°	kg	kg
12,2	65,0	8 300	7 400
12,5	64,2	8 100	7 200
13,0	62,9	7 700	6 900
13,5	61,6	7 400	6 600
14,0	60,3	7 100	6 300
14,5	59,0	6 900	6 000
15,0	57,6	6 600	5 800
15,5	56,2	6 400	5 600
16,0	54,8	6 200	5 400
16,5	53,4	6 000	5 200
17,0	51,9	5 800	5 000
17,5	50,5	5 600	4 800
18,0	48,9	5 400	4 600
18,5	47,4	5 300	4 500
19,0	45,8	5 100	4 300
19,5	44,2	5 000	4 200
20,0	42,5	4 800	4 100
20,5	40,7	4 600	3 900
21,0	38,9	4 400	3 800
21,5	37,0	4 100	3 700
22,0	35,1	3 900	3 600
22,5	33,0	3 700	3 500
23,0	30,8	3 400	3 300

28,0 m			
m	°	kg	kg
14,0	63,7	7 100	6 300
14,5	62,6	6 900	6 000
15,0	61,5	6 600	5 800
15,5	60,3	6 400	5 600
16,0	59,1	6 200	5 400
16,5	57,9	6 000	5 200
17,0	56,7	5 800	5 000
17,5	55,4	5 600	4 800
18,0	54,2	5 400	4 600
18,5	52,9	5 300	4 500
19,0	51,6	5 100	4 300
19,5	50,2	5 000	4 200
20,0	48,9	4 800	4 100
20,5	47,5	4 700	3 900
21,0	46,1	4 500	3 800
21,5	44,7	4 300	3 700
22,0	43,2	4 100	3 600
22,5	41,6	3 800	3 500
23,0	40,1	3 600	3 400
23,5	38,4	3 400	3 200
24,0	36,7	3 200	3 100
24,5	35,0	3 000	2 900
25,0	33,1	2 900	2 700
25,5	31,2	2 700	2 600

B10



20 610 kg
+
0 kg



31,0 m			
m	°	kg	kg
15,2	63,9	6 500	5 600
15,5	63,4	6 400	5 500
16,0	62,4	6 200	5 300
16,5	61,3	5 900	5 100
17,0	60,2	5 800	4 900
17,5	59,2	5 600	4 700
18,0	58,1	5 400	4 600
18,5	57,0	5 200	4 400
19,0	55,9	5 100	4 300
19,5	54,7	4 900	4 100
20,0	53,6	4 800	4 000
20,5	52,4	4 600	3 900
21,0	51,2	4 400	3 700
21,5	50,0	4 200	3 600
22,0	48,8	4 000	3 500
22,5	47,6	3 700	3 400
23,0	46,3	3 500	3 200
23,5	45,0	3 300	3 100
24,0	43,6	3 100	2 900
24,5	42,3	2 900	2 700
25,0	40,9	2 800	2 600
25,5	39,4	2 600	2 400
26,0	37,9	2 400	2 300
26,5	36,4	2 300	

34,0 m			
m	°	kg	kg
16,5	64,1	5 900	5 100
17,0	63,1	5 700	4 900
17,5	62,1	5 600	4 700
18,0	61,2	5 400	4 500
18,5	60,2	5 200	4 400
19,0	59,2	5 100	4 200
19,5	58,2	4 900	4 100
20,0	57,2	4 800	3 900
20,5	56,2	4 600	3 800
21,0	55,2	4 300	3 700
21,5	54,2	4 100	3 600
22,0	53,1	3 900	3 500
22,5	52,0	3 600	3 300
23,0	51,0	3 400	3 100
23,5	49,9	3 200	2 900
24,0	48,7	3 000	2 800
24,5	47,6	2 900	2 600
25,0	46,4	2 700	2 400
25,5	45,3	2 500	2 300
26,0	44,0	2 400	

MLC90A-1 S-1



B10

20 610 kg
+
0 kg

360°

		kg	kg
17,7	64,3	5 500	4 600
18,0	63,7	5 400	4 500
18,5	62,9	5 200	4 300
19,0	62,0	5 100	4 200
19,5	61,1	4 900	4 100
20,0	60,2	4 800	3 900
20,5	59,3	4 600	3 800
21,0	58,4	4 400	3 700
21,5	57,5	4 200	3 500
22,0	56,6	3 900	3 400
22,5	55,6	3 700	3 200
23,0	54,7	3 500	3 000
23,5	53,7	3 300	2 800
24,0	52,7	3 100	2 700
24,5	51,8	2 900	2 500
25,0	50,8	2 700	
25,5	49,7	2 600	
26,0	48,7	2 400	
26,5	47,7	2 300	