

Clamshell/Grapple Capacities

Boom No. B10:290
20 610 kg Crane Counterweight
0 kg 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 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.

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.

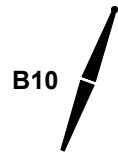


BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

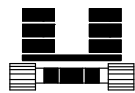
MACHINE EQUIPMENT: Machine equipped with 6 480 mm crawlers, 900 mm treads, 4 390 mm gantry, 8 part boom hoist reeving, two 32 mm boom pendants, 20 610 kg crane counterweight, and 0 kg carbody counterweight.

Raising Ability Over End or Side of Crawlers	
Boom Length (m)	Bucket Weight (kg)
19,0 - 31,0	3 850
34,0 - 37,0	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)

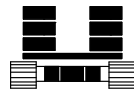


Boom Angle
(see page 1)



Lifting Capacities
(see page 1)

B10



20 610 kg
+
0 kg



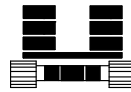
360°

19,0 m		
m	°	kg
9,8	64,7	9 900
10,0	63,8	9 900
10,5	62,1	9 900
11,0	60,4	9 900
11,5	58,6	9 400
12,0	56,8	9 000
12,5	55,0	8 700
13,0	53,1	8 300
13,5	51,2	8 000
14,0	49,2	7 700
14,5	47,1	7 500
15,0	45,0	7 200
15,5	42,8	7 000
16,0	40,5	6 800
16,5	38,1	6 600
17,0	35,5	6 400
17,5	32,8	6 100

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

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

B10



20 610 kg
+
0 kg



360°

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

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

34,0 m		
m	°	kg
16,5	64,1	6 600
17,0	63,1	6 400
17,5	62,1	6 200
18,0	61,2	6 000
18,5	60,2	5 800
19,0	59,2	5 700
19,5	58,2	5 400
20,0	57,2	5 100
20,5	56,2	4 800
21,0	55,2	4 600
21,5	54,2	4 300
22,0	53,1	4 100
22,5	52,0	3 800
23,0	51,0	3 600
23,5	49,9	3 400
24,0	48,7	3 200
24,5	47,6	3 000
25,0	46,4	2 800
25,5	45,3	2 600
26,0	44,0	2 500
26,5	42,8	2 300

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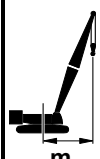


B10



20 610 kg
+
0 kg



 37,0 m		
 m	 °	 kg
17,7	64,3	6 100
18,0	63,7	6 000
18,5	62,9	5 800
19,0	62,0	5 700
19,5	61,1	5 400
20,0	60,2	5 200
20,5	59,3	4 900
21,0	58,4	4 700
21,5	57,5	4 400
22,0	56,6	4 100
22,5	55,6	3 900
23,0	54,7	3 700
23,5	53,7	3 500
24,0	52,7	3 300
24,5	51,8	3 100
25,0	50,8	2 900
25,5	49,7	2 700
26,0	48,7	2 600
26,5	47,7	2 400

REFERENCE ONLY!