

Liftcrane Boom Capacities

Boom No. B10:290

33 120 kg Crane Counterweight

10 500 kg Carbody Counterweight

360 Degree Rating

MLC100-1 SERIES 2



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.

Upper boom point capacity for liftcrane service with single part whip line from Drum 3 is 9 070 kg. When Drum 1 or Drum 2 is used, capacity with single part whip line is 12 520 kg. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

BOOM BACKWARD STABILITY: A minimum of 2 parts hoist line is required when using Drum 2 or 3 on 13,0 m and 16,0 m boom lengths to maintain boom stability at high boom angles. **Caution: Do not operate using Drum 2 or 3 without required parts of hoist line. Boom may not lower and boom hoist wire rope may go slack causing wire rope damage or failure.**

OPERATING CONDITIONS: Machine to operate on a firm, level, and uniformly supporting surface. Refer to Boom Rigging **No. 84054317**, Wire Rope Specifications chart **No. 9709-A**, Counterweight Arrangements chart **No. 9703-A**, and Wind Conditions chart **No. 9708-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.

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. 9707-A**.



OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.



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.



BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

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, 33 120 kg crane counterweight, and 10 500 kg carbody counterweight.

Consult chart **No. 9710-AM** when Jib No. 117 is attached.

Upper Boom Point Deduct

Deduct 260 kg from capacities when upper boom point is attached. Deduct does not apply to 13,0 m thru 19,0 m boom lengths.

Third Line Deduct

Deduct 120 kg from capacities when boom top is equipped with optional 3rd sheave wire rope guide.

Deduct From Capacities When Jib No. 117 Is Attached

Jib Length (m)	Deduct (kg)
9,1	2 050
12,2	2 400
15,2	2 800
18,3	3 350

Weight of jib and 325 kg suspended beneath jib point have been included in determination of deduct.

Refer to Table 1 for raising ability with the maximum weight of all load blocks, hooks, weight ball, slings, and hoist lines beneath boom point sheaves. For block weights shown with #, load blocks, hooks, weight ball, and slings must remain on ground until combined weights are within rated capacity of chart. Raising is not permitted in shaded areas of table.

Combined weight beneath boom point sheaves must not exceed block weight shown.

Table 1

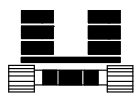
Boom Length (m)	Over End or Side of Crawlers
	Block Weight (kg)
13,0 - 49,0	1 725
52,0	1 200
55,0 - 61,0	325

REFERENCE ONLY!

Explanation of Symbols



Boom No. B10:290



Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



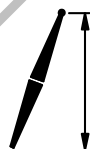
Boom Length



Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



Lifting Capacities
(see page 1)

B10



33 120 kg
+
10 500 kg



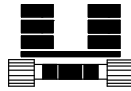
360°

13,0 m			
m	°	m	kg
3,7	79,8	14,9	100 000
4,0	78,3	14,8	87 800
4,5	76,0	14,7	81 200
5,0	73,7	14,5	73 500
5,5	71,4	14,4	67 000
6,0	69,0	14,2	61 700
6,5	66,6	14,0	55 200
7,0	64,2	13,7	49 300
7,5	61,7	13,5	44 300
8,0	59,2	13,2	40 200
8,5	56,5	12,8	36 800
9,0	53,8	12,5	34 000
9,5	51,0	12,1	31 500
10,0	48,1	11,6	29 300
10,5	45,0	11,1	27 400
11,0	41,7	10,6	25 700
11,5	38,2	10,0	24 200
12,0	34,4	9,3	22 600
13,0	25,2	7,4	18 300

16,0 m			
m	°	m	kg
4,0	80,6	17,9	88 300
4,5	78,7	17,8	81 200
5,0	76,8	17,6	73 400
5,5	75,0	17,5	67 000
6,0	73,1	17,4	61 600
6,5	71,2	17,2	55 200
7,0	69,3	17,0	49 400
7,5	67,4	16,8	44 400
8,0	65,4	16,6	40 300
8,5	63,4	16,3	36 900
9,0	61,4	16,0	34 000
9,5	59,3	15,8	31 500
10,0	57,2	15,4	29 300
10,5	55,0	15,1	27 400
11,0	52,7	14,7	25 700
11,5	50,4	14,3	24 200
12,0	48,0	13,9	22 800
13,0	42,9	12,8	20 500
14,0	37,3	11,6	18 600
15,0	30,7	10,1	16 900

19,0 m			
m	°	m	kg
4,6	80,3	20,8	79 300
5,0	78,9	20,7	73 300
5,5	77,4	20,6	66 800
6,0	75,8	20,5	61 500
6,5	74,3	20,3	55 200
7,0	72,7	20,2	49 400
7,5	71,1	20,0	44 400
8,0	69,5	19,8	40 300
8,5	67,9	19,6	36 800
9,0	66,2	19,4	34 000
9,5	64,5	19,2	31 500
10,0	62,8	18,9	29 300
10,5	61,1	18,6	27 400
11,0	59,4	18,3	25 700
11,5	57,6	18,0	24 200
12,0	55,8	17,7	22 800
13,0	52,0	16,9	20 500
14,0	48,0	16,1	18 500
15,0	43,8	15,1	16 900
16,0	39,1	13,9	15 500
17,0	34,0	12,5	14 300
18,0	28,0	10,8	13 200

B10



33 120 kg
+
10 500 kg



360°

22,0 m			
m	°	m	kg
4,9	80,8	23,8	72 100
5,0	80,5	23,8	71 600
5,5	79,1	23,7	66 900
6,0	77,8	23,6	61 500
6,5	76,5	23,5	55 400
7,0	75,1	23,3	49 500
7,5	73,8	23,2	44 500
8,0	72,4	23,0	40 400
8,5	71,0	22,9	37 000
9,0	69,6	22,7	34 100
9,5	68,2	22,5	31 600
10,0	66,8	22,3	29 500
10,5	65,4	22,0	27 500
11,0	64,0	21,8	25 800
11,5	62,5	21,5	24 300
12,0	61,0	21,3	23 000
13,0	58,0	20,6	20 600
14,0	54,8	20,0	18 700
15,0	51,5	19,2	17 000
16,0	48,1	18,3	15 700
17,0	44,4	17,4	14 400
18,0	40,5	16,2	13 400
19,0	36,3	15,0	12 500
20,0	31,6	13,4	11 600
21,0	26,0	11,6	10 900

25,0 m			
m	°	m	kg
5,5	80,5	26,7	64 700
6,0	79,3	26,6	61 400
6,5	78,1	26,5	55 300
7,0	76,9	26,4	49 500
7,5	75,8	26,3	44 500
8,0	74,6	26,1	40 400
8,5	73,4	26,0	36 900
9,0	72,2	25,8	34 100
9,5	71,0	25,7	31 600
10,0	69,7	25,5	29 400
10,5	68,5	25,3	27 500
11,0	67,3	25,1	25 700
11,5	66,0	24,9	24 200
12,0	64,7	24,6	22 900
13,0	62,2	24,1	20 500
14,0	59,5	23,5	18 600
15,0	56,8	22,9	17 000
16,0	54,0	22,2	15 600
17,0	51,1	21,4	14 400
18,0	48,1	20,6	13 300
19,0	44,9	19,6	12 400
20,0	41,5	18,5	11 500
21,0	37,9	17,3	10 800
22,0	33,9	15,9	10 100
23,0	29,5	14,2	9 500
24,0	24,3	12,2	9 000

28,0 m			
m	°	m	kg
5,8	80,9	29,7	58 600
6,0	80,5	29,7	57 900
6,5	79,4	29,6	54 300
7,0	78,4	29,5	49 500
7,5	77,3	29,4	44 500
8,0	76,3	29,3	40 300
8,5	75,2	29,1	36 900
9,0	74,2	29,0	34 100
9,5	73,1	28,8	31 600
10,0	72,0	28,7	29 400
10,5	70,9	28,5	27 400
11,0	69,8	28,3	25 700
11,5	68,7	28,1	24 200
12,0	67,6	27,9	22 900
13,0	65,4	27,5	20 500
14,0	63,1	27,0	18 600
15,0	60,8	26,5	16 900
16,0	58,4	25,9	15 600
17,0	56,0	25,2	14 300
18,0	53,4	24,5	13 300
19,0	50,8	23,7	12 400
20,0	48,1	22,8	11 500
21,0	45,3	21,9	10 800
22,0	42,3	20,8	10 100
23,0	39,1	19,6	9 500
24,0	35,7	18,3	9 000
25,0	32,0	16,8	8 500
26,0	27,9	15,0	8 000
27,0	23,0	12,8	7 600

B10



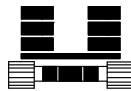
33 120 kg
+
10 500 kg



360°

31,0 m				34,0 m				37,0 m			
m	°	m	kg	m	°	m	kg	m	°	m	kg
6,7	80,1	32,6	51 900	6,7	80,9	35,7	48 000	7,3	80,7	38,6	43 600
7,0	79,5	32,6	49 100	7,0	80,4	35,6	47 000	7,5	80,4	38,6	42 700
7,5	78,6	32,5	44 400	7,5	79,6	35,5	44 400	8,0	79,7	38,5	40 200
8,0	77,6	32,3	40 300	8,0	78,7	35,4	40 200	8,5	78,9	38,4	36 700
8,5	76,7	32,2	36 900	8,5	77,9	35,3	36 800	9,0	78,1	38,3	33 900
9,0	75,7	32,1	34 000	9,0	77,0	35,2	33 900	9,5	77,3	38,2	31 400
9,5	74,8	32,0	31 500	9,5	76,1	35,1	31 400	10,0	76,5	38,0	29 200
10,0	73,8	31,8	29 300	10,0	75,3	34,9	29 200	10,5	75,7	37,9	27 200
10,5	72,8	31,7	27 400	10,5	74,4	34,8	27 300	11,0	74,9	37,8	25 500
11,0	71,9	31,5	25 600	11,0	73,5	34,6	25 600	11,5	74,1	37,6	24 000
11,5	70,9	31,3	24 100	11,5	72,6	34,5	24 100	12,0	73,3	37,5	22 600
12,0	69,9	31,1	22 800	12,0	71,7	34,3	22 700	13,0	71,6	37,2	20 300
13,0	67,9	30,8	20 400	13,0	69,9	34,0	20 400	14,0	70,0	36,8	18 300
14,0	65,9	30,3	18 500	14,0	68,1	33,6	18 400	15,0	68,3	36,4	16 700
15,0	63,8	29,8	16 900	15,0	66,3	33,1	16 800	16,0	66,7	36,0	15 300
16,0	61,8	29,3	15 500	16,0	64,4	32,7	15 400	17,0	65,0	35,5	14 100
17,0	59,6	28,7	14 300	17,0	62,5	32,2	14 200	18,0	63,2	35,0	13 000
18,0	57,5	28,1	13 200	18,0	60,6	31,6	13 100	19,0	61,5	34,5	12 100
19,0	55,2	27,4	12 300	19,0	58,7	31,0	12 200	20,0	59,7	33,9	11 200
20,0	52,9	26,7	11 400	20,0	56,7	30,4	11 300	21,0	57,9	33,3	10 500
21,0	50,6	25,9	10 700	21,0	54,6	29,7	10 600	22,0	56,0	32,7	9 800
22,0	48,1	25,0	10 000	22,0	52,5	28,9	9 900	23,0	54,1	32,0	9 200
23,0	45,6	24,1	9 400	23,0	50,3	28,1	9 300	24,0	52,2	31,2	8 700
24,0	42,9	23,0	8 900	24,0	48,1	27,3	8 800	25,0	50,2	30,4	8 200
25,0	40,1	21,9	8 400	25,0	45,8	26,3	8 300	26,0	48,1	29,5	7 700
26,0	37,1	20,6	7 900	26,0	43,3	25,3	7 800	27,0	46,0	28,6	7 300
27,0	33,8	19,2	7 500	27,0	40,8	24,2	7 400	28,0	43,8	27,6	6 900
28,0	30,3	17,6	7 100	28,0	38,1	22,9	7 000	29,0	41,5	26,5	6 600
				29,0	35,3	21,6	6 700	30,0	39,1	25,3	6 200
				30,0	32,2	20,0	6 300	32,0	33,8	22,5	5 600
				32,0	25,1	16,3	5 700	34,0	27,7	19,1	5 100

B10



33 120 kg
+
10 500 kg



360°

40,0 m			
m	°	m	kg
7,9	80,6	41,5	39 600
8,0	80,4	41,5	39 200
8,5	79,7	41,4	36 600
9,0	79,0	41,3	33 800
9,5	78,2	41,2	31 300
10,0	77,5	41,1	29 100
10,5	76,8	41,0	27 100
11,0	76,0	40,9	25 400
11,5	75,3	40,7	23 900
12,0	74,6	40,6	22 600
13,0	73,1	40,3	20 200
14,0	71,6	40,0	18 300
15,0	70,0	39,6	16 600
16,0	68,5	39,2	15 300
17,0	66,9	38,8	14 000
18,0	65,4	38,4	13 000
19,0	63,8	37,9	12 000
20,0	62,2	37,4	11 200
21,0	60,5	36,8	10 400
22,0	58,9	36,2	9 800
23,0	57,2	35,6	9 200
24,0	55,4	34,9	8 600
25,0	53,7	34,2	8 100
26,0	51,9	33,4	7 700
27,0	50,0	32,6	7 200
28,0	48,1	31,7	6 900
29,0	46,1	30,8	6 500
30,0	44,1	29,8	6 200
32,0	39,8	27,5	5 600
34,0	35,0	24,9	5 000
36,0	29,6	21,7	4 600
38,0	23,1	17,6	4 200

43,0 m			
m	°	m	kg
8,5	80,4	44,5	35 300
9,0	79,8	44,4	33 500
9,5	79,1	44,3	31 200
10,0	78,4	44,2	29 000
10,5	77,7	44,1	27 100
11,0	77,0	44,0	25 300
11,5	76,4	43,9	23 800
12,0	75,7	43,7	22 500
13,0	74,3	43,5	20 100
14,0	72,9	43,2	18 200
15,0	71,5	42,8	16 500
16,0	70,1	42,5	15 200
17,0	68,7	42,1	13 900
18,0	67,2	41,7	12 900
19,0	65,8	41,2	11 900
20,0	64,3	40,8	11 100
21,0	62,8	40,3	10 300
22,0	61,3	39,7	9 700
23,0	59,7	39,1	9 100
24,0	58,2	38,5	8 500
25,0	56,6	37,9	8 000
26,0	55,0	37,2	7 600
27,0	53,3	36,5	7 100
28,0	51,6	35,7	6 800
29,0	49,9	34,9	6 400
30,0	48,1	34,0	6 100
32,0	44,4	32,1	5 500
34,0	40,5	29,8	4 900
36,0	36,1	27,3	4 500
38,0	31,3	24,3	4 000
40,0	25,6	20,5	3 700

46,0 m			
m	°	m	kg
9,1	80,3	47,4	32 000
9,5	79,8	47,3	30 800
10,0	79,2	47,2	28 900
10,5	78,5	47,1	27 000
11,0	77,9	47,0	25 300
11,5	77,3	46,9	23 700
12,0	76,6	46,8	22 400
13,0	75,3	46,6	20 000
14,0	74,0	46,3	18 100
15,0	72,7	46,0	16 400
16,0	71,4	45,6	15 100
17,0	70,1	45,3	13 800
18,0	68,8	44,9	12 800
19,0	67,4	44,5	11 800
20,0	66,1	44,1	11 000
21,0	64,7	43,6	10 300
22,0	63,3	43,1	9 600
23,0	61,9	42,6	9 000
24,0	60,5	42,0	8 400
25,0	59,0	41,4	7 900
26,0	57,6	40,8	7 500
27,0	56,1	40,1	7 000
28,0	54,5	39,4	6 700
29,0	53,0	38,7	6 300
30,0	51,4	37,9	6 000
32,0	48,1	36,2	5 400
34,0	44,7	34,3	4 800
36,0	41,0	32,1	4 400
38,0	37,0	29,6	4 000
40,0	32,6	26,7	3 600
42,0	27,6	23,2	3 300
44,0	21,5	18,8	2 900

B10



33 120 kg
+
10 500 kg



360°

49,0 m				52,0 m				55,0 m			
m	°	m	kg	m	°	m	kg	m	°	m	kg
9,1	80,9	50,5	28 500	9,8	80,7	53,4	24 100	10,4	80,6	56,3	20 800
9,5	80,4	50,4	28 200	10,0	80,4	53,4	23 900	10,5	80,4	56,3	20 800
10,0	79,8	50,3	27 800	10,5	79,9	53,3	23 700	11,0	79,9	56,2	20 500
10,5	79,2	50,2	26 900	11,0	79,3	53,2	23 400	11,5	79,4	56,1	20 300
11,0	78,7	50,1	25 200	11,5	78,7	53,1	23 100	12,0	78,8	56,0	20 100
11,5	78,1	50,0	23 700	12,0	78,2	53,0	22 100	13,0	77,8	55,8	19 400
12,0	77,5	49,9	22 300	13,0	77,1	52,7	19 900	14,0	76,7	55,6	17 800
13,0	76,3	49,7	19 900	14,0	75,9	52,5	17 900	15,0	75,6	55,3	16 200
14,0	75,0	49,4	18 000	15,0	74,8	52,2	16 300	16,0	74,5	55,1	14 800
15,0	73,8	49,1	16 300	16,0	73,6	51,9	14 900	17,0	73,5	54,8	13 500
16,0	72,6	48,8	15 000	17,0	72,5	51,6	13 600	18,0	72,4	54,4	12 500
17,0	71,4	48,5	13 700	18,0	71,3	51,3	12 600	19,0	71,3	54,1	11 500
18,0	70,1	48,1	12 700	19,0	70,2	50,9	11 600	20,0	70,2	53,8	10 700
19,0	68,9	47,8	11 700	20,0	69,0	50,6	10 800	21,0	69,1	53,4	10 000
20,0	67,6	47,3	10 900	21,0	67,8	50,2	10 100	22,0	67,9	53,0	9 300
21,0	66,4	46,9	10 100	22,0	66,6	49,7	9 400	23,0	66,8	52,6	8 700
22,0	65,1	46,5	9 500	23,0	65,4	49,3	8 800	24,0	65,7	52,1	8 100
23,0	63,8	46,0	8 900	24,0	64,2	48,8	8 200	25,0	64,5	51,6	7 600
24,0	62,5	45,5	8 300	25,0	62,9	48,3	7 700	26,0	63,3	51,2	7 200
25,0	61,1	44,9	7 800	26,0	61,7	47,8	7 300	27,0	62,2	50,6	6 700
26,0	59,8	44,3	7 400	27,0	60,4	47,2	6 900	28,0	61,0	50,1	6 400
27,0	58,4	43,7	6 900	28,0	59,1	46,6	6 500	29,0	59,8	49,5	6 000
28,0	57,0	43,1	6 600	29,0	57,8	46,0	6 100	30,0	58,6	48,9	5 700
29,0	55,6	42,4	6 200	30,0	56,5	45,4	5 800	32,0	56,1	47,6	5 100
30,0	54,2	41,7	5 900	32,0	53,8	44,0	5 200	34,0	53,5	46,2	4 500
32,0	51,2	40,2	5 200	34,0	51,0	42,4	4 600	36,0	50,9	44,6	4 100
34,0	48,1	38,5	4 700	36,0	48,1	40,7	4 200	38,0	48,1	42,9	3 700
36,0	44,9	36,6	4 300	38,0	45,1	38,8	3 800	40,0	45,3	41,0	3 300
38,0	41,5	34,4	3 800	40,0	41,9	36,7	3 400	42,0	42,2	38,9	3 000
40,0	37,8	32,0	3 500	42,0	38,4	34,3	3 100	44,0	39,0	36,5	2 700
42,0	33,8	29,2	3 100	44,0	34,7	31,5	2 800	46,0	35,5	33,9	2 400
44,0	29,3	25,9	2 800	46,0	30,6	28,4	2 500	48,0	31,8	30,9	2 100
46,0	24,0	21,8	2 500	48,0	25,9	24,6	2 200	50,0	27,5	27,3	1 900

B10



33 120 kg
+
10 500 kg



360°

58,0 m			
m	°	m	kg
11,0	80,5	59,3	19 700
11,5	79,9	59,2	19 500
12,0	79,4	59,1	19 300
13,0	78,4	58,9	18 900
14,0	77,4	58,7	17 700
15,0	76,4	58,4	16 000
16,0	75,4	58,2	14 700
17,0	74,3	57,9	13 400
18,0	73,3	57,6	12 400
19,0	72,3	57,3	11 400
20,0	71,2	57,0	10 600
21,0	70,2	56,6	9 800
22,0	69,1	56,2	9 200
23,0	68,1	55,8	8 600
24,0	67,0	55,4	8 000
25,0	65,9	55,0	7 500
26,0	64,8	54,5	7 000
27,0	63,7	54,0	6 600
28,0	62,6	53,5	6 200
29,0	61,5	53,0	5 900
30,0	60,4	52,4	5 500
32,0	58,1	51,2	4 900
34,0	55,7	49,9	4 400
36,0	53,3	48,5	3 900
38,0	50,8	46,9	3 500
40,0	48,1	45,2	3 200
42,0	45,4	43,3	2 800
44,0	42,6	41,2	2 500
46,0	39,5	38,9	2 200
48,0	36,3	36,3	2 000
50,0	32,8	33,4	1 800

61,0 m			
m	°	m	kg
11,0	80,9	62,3	17 600
11,5	80,4	62,2	17 400
12,0	79,9	62,1	17 200
13,0	79,0	61,9	16 900
14,0	78,0	61,7	16 500
15,0	77,1	61,5	15 800
16,0	76,1	61,3	14 600
17,0	75,1	61,0	13 300
18,0	74,2	60,7	12 200
19,0	73,2	60,4	11 300
20,0	72,2	60,1	10 500
21,0	71,2	59,8	9 700
22,0	70,2	59,4	9 000
23,0	69,2	59,1	8 400
24,0	68,2	58,7	7 900
25,0	67,2	58,2	7 400
26,0	66,2	57,8	6 900
27,0	65,1	57,3	6 500
28,0	64,1	56,9	6 100
29,0	63,0	56,4	5 700
30,0	62,0	55,8	5 400
32,0	59,8	54,7	4 800
34,0	57,6	53,5	4 300
36,0	55,3	52,2	3 800
38,0	53,0	50,7	3 400
40,0	50,6	49,1	3 000
42,0	48,1	47,4	2 700
44,0	45,6	45,5	2 400
46,0	42,8	43,4	2 100
48,0	40,0	41,1	1 900