


Liftcrane Boom Capacities

Boom No. B10:82A
51 980 kg Crane Counterweight
0 kg Carbody Counterweight
360 Degree Rating

MLC250 SERIES 0

 **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.

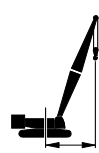
Upper boom point capacity for liftcrane service with single part whip line from Drum 1 or Drum 2 is 13 380 kg or 26 760 kg with two part whip line. When Drum 3 is used, capacity with single part whip line is 9 070 kg or 18 140 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.


Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib 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: Capacities indicated by (b) require 5 670 kg minimum weight. **Caution: Do not operate in areas indicated by (b) without required minimum weight. 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 with gantry up. Refer to Boom Rigging No. 80137888, Wire Rope Specifications chart No. 9909-A, Counterweight Arrangements chart No. 9893-A, and Wind Conditions chart No. 9908-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. 9907-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 8 585 mm crawlers, 1 200 mm or 1 524 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, and boom support straps.

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.

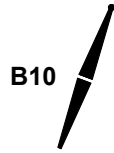
Table 1

Boom Length (m)	Maximum Number of Lower Boom Point Sheaves	Over End or Side of Crawlers	Over End of Blocked Crawlers
		Block Weight (kg)	
21,3 - 42,7	8	4 525	4 525
45,7	8	3 975	3 975
48,8	8	2 925	3 025
51,8	8	1 900	2 525
54,9	8	#	2 025
57,9	8	#	1 625
61,0	8		#
64,0	8		#

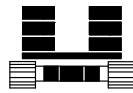
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. *Crane tipping or structural damage can occur.*

REFERENCE ONLY

Explanation of Symbols



Boom No. B10:82A



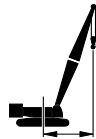
Crane Counterweight
+
Carbody Counterweight



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)

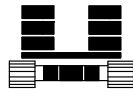
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ASME B30.5



B10



51 980 kg
+
0 kg



360°

21,3 m			
m	°	m	kg
4,9	82,8	23,6	195 900 b
5,0	82,5	23,6	191 600 b
5,5	81,1	23,5	175 300 b
6,0	79,7	23,4	161 600 b
7,0	77,0	23,1	122 300 b
8,0	74,2	22,8	95 900
9,0	71,3	22,5	78 700
10,0	68,4	22,1	66 500
11,0	65,5	21,6	57 200
12,0	62,5	21,1	50 100
13,0	59,3	20,5	44 400
14,0	56,1	19,8	39 700
15,0	52,7	19,1	35 800
16,0	49,1	18,2	32 600
18,0	41,3	16,1	27 300
20,0	31,9	13,2	23 100

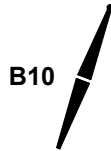
24,4 m			
m	°	m	kg
5,2	83,0	26,6	184 900 b
5,5	82,2	26,6	174 900 b
6,0	81,0	26,5	161 300 b
7,0	78,6	26,3	122 500 b
8,0	76,2	26,0	96 000
9,0	73,8	25,7	78 800
10,0	71,3	25,4	66 500
11,0	68,8	25,0	57 200
12,0	66,2	24,5	50 100
13,0	63,5	24,0	44 400
14,0	60,9	23,5	39 600
15,0	58,1	22,8	35 800
16,0	55,2	22,1	32 600
18,0	49,1	20,5	27 200
20,0	42,4	18,4	23 100
22,0	34,5	15,8	19 900
24,0	24,5	12,0	17 200

27,4 m			
m	°	m	kg
5,8	82,5	29,6	166 400 b
6,0	82,0	29,6	161 000 b
7,0	79,9	29,4	122 700 b
8,0	77,8	29,2	96 100
9,0	75,6	28,9	78 800
10,0	73,4	28,6	66 500
11,0	71,2	28,2	57 200
12,0	69,0	27,9	50 100
13,0	66,7	27,4	44 300
14,0	64,4	26,9	39 600
15,0	62,0	26,4	35 700
16,0	59,6	25,8	32 500
18,0	54,5	24,4	27 100
20,0	49,1	22,8	23 100
22,0	43,2	20,8	19 900
24,0	36,4	18,2	17 200
26,0	28,3	14,9	15 000

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51 980 kg
+
0 kg



30,5 m

m	°	m	kg
6,1	82,7	32,6	158 400 b
7,0	80,9	32,5	122 900 b
8,0	79,0	32,3	96 300
9,0	77,1	32,1	79 000
10,0	75,1	31,8	66 600
11,0	73,2	31,5	57 300
12,0	71,2	31,1	50 200
13,0	69,2	30,7	44 400
14,0	67,1	30,3	39 700
15,0	65,1	29,8	35 800
16,0	62,9	29,3	32 600
18,0	58,6	28,1	27 200
20,0	54,0	26,7	23 100
22,0	49,1	25,1	20 000
24,0	43,8	23,1	17 300
26,0	37,9	20,7	15 100
28,0	31,0	17,6	13 300
30,0	22,2	13,4	11 700

33,5 m

m	°	m	kg
6,7	82,3	35,6	132 700
7,0	81,8	35,6	123 000
8,0	80,0	35,4	96 300
9,0	78,3	35,2	79 000
10,0	76,5	34,9	66 600
11,0	74,8	34,7	57 200
12,0	73,0	34,4	50 100
13,0	71,2	34,0	44 300
14,0	69,3	33,6	39 600
15,0	67,5	33,2	35 700
16,0	65,6	32,7	32 500
18,0	61,7	31,7	27 100
20,0	57,7	30,5	23 000
22,0	53,5	29,1	19 800
24,0	49,1	27,4	17 200
26,0	44,3	25,4	15 000
28,0	39,0	23,1	13 200
30,0	33,1	20,2	11 600
32,0	25,8	16,5	10 200

36,6 m

m	°	m	kg
6,7	82,9	38,7	132 800
7,0	82,5	38,7	123 200
8,0	80,9	38,5	96 400
9,0	79,3	38,3	79 000
10,0	77,7	38,1	66 600
11,0	76,1	37,8	57 200
12,0	74,4	37,5	50 100
13,0	72,8	37,2	44 300
14,0	71,1	36,9	39 600
15,0	69,5	36,5	35 700
16,0	67,8	36,1	32 500
18,0	64,3	35,2	27 100
20,0	60,7	34,1	23 000
22,0	57,0	32,8	19 800
24,0	53,2	31,4	17 200
26,0	49,1	29,7	15 000
28,0	44,7	27,7	13 200
30,0	40,0	25,5	11 600
32,0	34,7	22,7	10 300
34,0	28,5	19,3	9 100
36,0	20,6	14,7	8 000

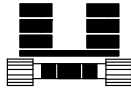
REFER TO THE CRANE MANUAL

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B10



51 980 kg
+
0 kg



39,6 m

m	o	m	kg
7,3	82,6	41,7	112 900
8,0	81,6	41,6	96 400
9,0	80,1	41,4	79 000
10,0	78,6	41,2	66 600
11,0	77,2	41,0	57 200
12,0	75,7	40,7	50 000
13,0	74,2	40,4	44 200
14,0	72,6	40,1	39 500
15,0	71,1	39,8	35 600
16,0	69,6	39,4	32 400
18,0	66,4	38,5	27 000
20,0	63,2	37,6	22 900
22,0	59,9	36,4	19 700
24,0	56,4	35,1	17 100
26,0	52,8	33,7	14 900
28,0	49,1	32,0	13 100
30,0	45,1	30,1	11 500
32,0	40,7	27,8	10 200
34,0	36,0	25,2	9 000
36,0	30,5	22,0	8 000
38,0	24,0	18,0	7 000

42,7 m

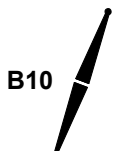
m	o	m	kg
7,9	82,3	44,7	97 900
8,0	82,2	44,7	96 500
9,0	80,8	44,5	79 000
10,0	79,5	44,3	66 600
11,0	78,1	44,1	57 200
12,0	76,7	43,9	50 000
13,0	75,3	43,6	44 200
14,0	73,9	43,3	39 400
15,0	72,5	43,0	35 500
16,0	71,1	42,6	32 300
18,0	68,2	41,9	26 900
20,0	65,3	41,0	22 800
22,0	62,2	39,9	19 600
24,0	59,1	38,8	17 000
26,0	55,9	37,5	14 800
28,0	52,6	36,0	13 000
30,0	49,1	34,3	11 500
32,0	45,4	32,4	10 100
34,0	41,4	30,2	8 900
36,0	37,0	27,7	7 900
38,0	32,2	24,7	7 000
40,0	26,6	21,0	6 100
42,0	19,4	16,0	5 400

45,7 m

m	o	m	kg
7,9	82,8	47,8	97 900
8,0	82,7	47,8	96 500
9,0	81,4	47,6	79 000
10,0	80,2	47,4	66 500
11,0	78,9	47,2	57 100
12,0	77,6	47,0	49 900
13,0	76,3	46,8	44 000
14,0	75,0	46,5	39 300
15,0	73,7	46,2	35 400
16,0	72,4	45,9	32 100
18,0	69,7	45,1	26 700
20,0	67,0	44,3	22 600
22,0	64,3	43,4	19 400
24,0	61,4	42,3	16 800
26,0	58,5	41,1	14 600
28,0	55,5	39,8	12 800
30,0	52,3	38,3	11 200
32,0	49,1	36,6	9 900
34,0	45,6	34,7	8 700
36,0	41,9	32,5	7 700
38,0	37,9	30,1	6 800
40,0	33,6	27,2	5 900
42,0	28,6	23,8	5 200
44,0	22,6	19,4	4 500

MLC250 S-0

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48,8 m

m	°	m	kg
8,5	82,5	50,8	86 100
9,0	82,0	50,7	79 000
10,0	80,8	50,5	66 400
11,0	79,6	50,3	57 000
12,0	78,4	50,1	49 800
13,0	77,2	49,9	44 000
14,0	76,0	49,6	39 200
15,0	74,8	49,4	35 300
16,0	73,5	49,1	32 000
18,0	71,1	48,4	26 600
20,0	68,5	47,6	22 500
22,0	66,0	46,8	19 300
24,0	63,4	45,8	16 700
26,0	60,7	44,7	14 500
28,0	57,9	43,5	12 700
30,0	55,1	42,1	11 100
32,0	52,1	40,6	9 800
34,0	49,1	38,9	8 600
36,0	45,8	37,0	7 600
38,0	42,4	34,9	6 700
40,0	38,7	32,5	5 800
42,0	34,7	29,7	5 100
44,0	30,2	26,5	4 400
46,0	25,0	22,5	3 800
48,0	18,5	17,3	3 200

51,8 m

m	°	m	kg
8,5	83,0	53,8	86 100
9,0	82,5	53,8	78 900
10,0	81,3	53,6	66 400
11,0	80,2	53,4	56 900
12,0	79,1	53,2	49 700
13,0	78,0	53,0	43 900
14,0	76,8	52,8	39 100
15,0	75,7	52,5	35 100
16,0	74,5	52,3	31 900
18,0	72,2	51,6	26 500
20,0	69,9	50,9	22 400
22,0	67,5	50,1	19 100
24,0	65,1	49,2	16 500
26,0	62,6	48,2	14 300
28,0	60,0	47,0	12 500
30,0	57,4	45,8	11 000
32,0	54,7	44,4	9 600
34,0	52,0	42,9	8 500
36,0	49,1	41,2	7 400
38,0	46,0	39,3	6 500
40,0	42,8	37,2	5 700
42,0	39,4	34,9	4 900
44,0	35,7	32,2	4 300
46,0	31,6	29,1	3 700
48,0	27,0	25,4	3 100
50,0	21,5	20,8	2 600

54,9 m

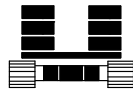
m	°	m	kg
9,1	82,7	56,8	76 600
10,0	81,8	56,7	66 300
11,0	80,8	56,5	56 800
12,0	79,7	56,4	49 600
13,0	78,6	56,2	43 800
14,0	77,6	55,9	39 000
15,0	76,5	55,7	35 000
16,0	75,4	55,4	31 800
18,0	73,2	54,8	26 400
20,0	71,0	54,2	22 200
22,0	68,8	53,4	19 000
24,0	66,5	52,5	16 400
26,0	64,2	51,6	14 200
28,0	61,9	50,6	12 400
30,0	59,5	49,4	10 800
32,0	57,0	48,1	9 500
34,0	54,4	46,7	8 300
36,0	51,8	45,2	7 300
38,0	49,0	43,5	6 400
40,0	46,2	41,6	5 600
42,0	43,2	39,5	4 800
44,0	40,0	37,2	4 200
46,0	36,6	34,6	3 500
48,0	32,8	31,7	3 000
50,0	28,6	28,2	2 500

MLC250 S-0

ASME B30.5



B10



51 980 kg
+
0 kg



360°

57,9 m			
m	°	m	kg
9,8	82,5	59,8	68 900
10,0	82,3	59,8	66 300
11,0	81,3	59,6	56 700
12,0	80,3	59,5	49 500
13,0	79,2	59,3	43 600
14,0	78,2	59,1	38 800
15,0	77,2	58,8	34 900
16,0	76,2	58,6	31 600
18,0	74,2	58,0	26 200
20,0	72,1	57,4	22 000
22,0	70,0	56,7	18 800
24,0	67,8	55,9	16 200
26,0	65,7	55,0	14 000
28,0	63,5	54,0	12 200
30,0	61,2	52,9	10 600
32,0	58,9	51,7	9 200
34,0	56,6	50,4	8 100
36,0	54,1	49,0	7 100
38,0	51,6	47,5	6 100
40,0	49,0	45,8	5 300
42,0	46,3	43,9	4 600
44,0	43,5	41,9	3 900
46,0	40,5	39,6	3 300
48,0	37,3	37,1	2 800
50,0	33,9	34,2	2 200

61,0 m			
m	°	m	kg
9,8	82,9	62,9	68 800
10,0	82,7	62,9	66 200
11,0	81,7	62,7	56 600
12,0	80,7	62,6	49 400
13,0	79,8	62,4	43 500
14,0	78,8	62,2	38 700
15,0	77,9	62,0	34 700
16,0	76,9	61,7	31 500
18,0	75,0	61,2	26 000
20,0	73,0	60,6	21 900
22,0	71,0	59,9	18 700
24,0	69,0	59,2	16 000
26,0	67,0	58,3	13 800
28,0	64,9	57,4	12 000
30,0	62,8	56,4	10 400
32,0	60,7	55,3	9 100
34,0	58,5	54,1	7 900
36,0	56,2	52,8	6 900
38,0	53,9	51,3	6 000
40,0	51,5	49,8	5 200
42,0	49,0	48,1	4 400
44,0	46,5	46,2	3 800
46,0	43,8	44,2	3 200
48,0	41,0	41,9	2 600
50,0	38,0	39,5	2 100

64,0 m			
m	°	m	kg
10,4	82,7	65,9	62 200
11,0	82,1	65,8	56 500
12,0	81,2	65,6	49 200
13,0	80,3	65,5	43 400
14,0	79,4	65,3	38 600
15,0	78,5	65,1	34 600
16,0	77,5	64,8	31 300
18,0	75,7	64,4	25 900
20,0	73,8	63,8	21 700
22,0	72,0	63,1	18 500
24,0	70,1	62,4	15 800
26,0	68,1	61,6	13 600
28,0	66,2	60,8	11 800
30,0	64,2	59,8	10 300
32,0	62,2	58,8	8 900
34,0	60,1	57,7	7 700
36,0	58,0	56,4	6 700
38,0	55,9	55,1	5 800
40,0	53,7	53,7	5 000
42,0	51,4	52,1	4 200
44,0	49,0	50,4	3 600
46,0	46,6	48,5	3 000
48,0	44,1	46,5	2 400
50,0	41,4	44,3	1 900