


# Liftcrane Boom Capacities

**Boom No. B10:76A**  
**51 980 kg Crane Counterweight**  
**0 kg Carbody Counterweight**  
**360 Degree Rating**

## MLC200 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.


Upper boom point capacity for liftcrane service with single part whip line from Drum 1 or Drum 2 is 14 290 kg or 27 220 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 4 540 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. 80149429**, Wire Rope Specifications chart **No. A018-A**, Counterweight Arrangements chart **No. A004-A**, and Wind Conditions chart **No. A017-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. A016-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 8 280 mm crawlers, 1 200 mm treads, 3 124 mm retractable gantry, 8 250 mm live mast, 20 part boom hoist reeving, and boom support straps.

Consult chart **No. A021-AM** when Jib No. 134 is attached.

Deduct From Capacities When Jib No. 134 Is Attached			
Jib Length (m)	Jib Offset Angle		
	5°	15°	25°
Deduct (kg)			
9,1	2 650	2 875	3 425
12,2	3 000	3 550	4 325
15,2	3 375	4 225	5 275
18,3	3 725	4 900	6 175
21,3	4 050	5 450	7 000
24,4	4 450	6 000	7 900

Weight of jib and 1 360 kg suspended beneath jib point have been included in determination of deduct.

Upper Boom Point Deduct
Deduct 500 kg from capacities when upper boom point is attached.

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. For boom lengths shown with (a), upper boom point must be removed. Raising is not permitted in shaded areas of table.

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

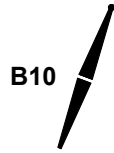
**Table 1**

Boom Length (m)	Maximum Number of Lower Boom Point Sheaves	Over End or Side of Crawlers	Over End of Blocked Crawlers
		Block Weight (kg)	
20,0 - 47,0	7	3 625	3 625
50,0	7	2 700	3 175
53,0	7	1 700	2 400
56,0	7	#	1 900
59,0	7	#	1 625
62,0	7		#
65,0	7		#
68,0 (a)	7		#

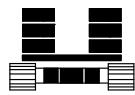
**Warning:** Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. *Crane tipping or structural damage can occur.*

REFERENCE ONLY

## Explanation of Symbols



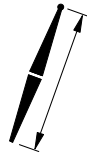
Boom No. B10:76A



Crane Counterweight  
+  
Carbody Counterweight



360 Degree Rating



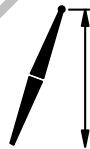
Boom Length



Operating Radius  
(see page 1)



Boom Angle  
(see page 1)



Boom Point Elevation  
(see page 1)



Lifting Capacities  
(see page 1)

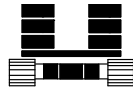
REFERENCE ONLY!

# MLC200 S-1

ASME B30.5



B10



51 980 kg  
+  
0 kg



**20,0 m**

m	o	m	kg
4,6	83,2	22,2	167 600 <b>b</b>
5,0	82,0	22,1	154 500 <b>b</b>
5,5	80,5	22,0	141 200 <b>b</b>
6,0	79,0	21,9	130 100 <b>b</b>
6,5	77,6	21,8	120 500 <b>b</b>
7,0	76,1	21,7	111 000 <b>b</b>
7,5	74,6	21,5	98 600
8,0	73,1	21,4	88 300
8,5	71,6	21,2	79 900
9,0	70,0	21,0	72 900
9,5	68,5	20,8	67 000
10,0	66,9	20,6	61 900
10,5	65,3	20,3	57 500
11,0	63,7	20,0	53 500
12,0	60,4	19,5	47 000
13,0	57,0	18,8	41 800
14,0	53,4	18,1	37 500
15,0	49,6	17,2	33 900
16,0	45,6	16,2	31 000
18,0	36,5	13,8	26 000
20,0	24,5	10,1	22 100

**23,0 m**

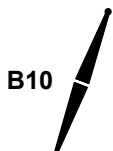
m	o	m	kg
5,2	82,6	25,1	149 100 <b>b</b>
5,5	81,8	25,1	141 000 <b>b</b>
6,0	80,5	25,0	129 900 <b>b</b>
6,5	79,2	24,9	120 300 <b>b</b>
7,0	77,9	24,8	111 200 <b>b</b>
7,5	76,7	24,7	98 700
8,0	75,4	24,5	88 500
8,5	74,1	24,4	80 000
9,0	72,8	24,2	73 000
9,5	71,4	24,0	67 100
10,0	70,1	23,8	61 900
10,5	68,8	23,6	57 500
11,0	67,4	23,4	53 600
12,0	64,6	22,9	47 100
13,0	61,8	22,4	41 800
14,0	58,9	21,8	37 500
15,0	55,9	21,1	33 900
16,0	52,7	20,3	31 000
18,0	46,0	18,5	26 000
20,0	38,3	16,2	22 200
22,0	28,9	13,0	19 200

**26,0 m**

m	o	m	kg
5,5	82,8	28,1	141 200
6,0	81,6	28,0	129 800
6,5	80,5	28,0	120 200
7,0	79,4	27,9	111 400
7,5	78,2	27,7	98 900
8,0	77,1	27,6	88 600
8,5	76,0	27,5	80 200
9,0	74,8	27,3	73 100
9,5	73,7	27,2	67 200
10,0	72,5	27,0	62 000
10,5	71,3	26,8	57 600
11,0	70,1	26,7	53 700
12,0	67,8	26,2	47 200
13,0	65,3	25,8	41 900
14,0	62,8	25,3	37 600
15,0	60,3	24,7	34 000
16,0	57,7	24,0	31 100
18,0	52,2	22,6	26 100
20,0	46,2	20,7	22 300
22,0	39,6	18,5	19 300
24,0	31,7	15,5	16 900
26,0	21,3	11,2	14 800

# MLC200 S-1

ASME B30.5



51 980 kg  
+  
0 kg



**29,0 m**

m	o	m	kg
5,8	82,9	31,1	134 000
6,0	82,5	31,1	129 600
6,5	81,5	31,0	120 000
7,0	80,5	30,9	111 500
7,5	79,5	30,8	98 900
8,0	78,4	30,7	88 600
8,5	77,4	30,6	80 200
9,0	76,4	30,4	73 200
9,5	75,4	30,3	67 100
10,0	74,4	30,2	62 000
10,5	73,3	30,0	57 600
11,0	72,3	29,8	53 600
12,0	70,2	29,5	47 100
13,0	68,0	29,1	41 800
14,0	65,9	28,6	37 500
15,0	63,7	28,1	33 900
16,0	61,4	27,6	31 000
18,0	56,7	26,3	26 000
20,0	51,8	24,8	22 200
22,0	46,4	23,0	19 200
24,0	40,5	20,7	16 800
26,0	33,8	18,0	14 800
28,0	25,4	14,2	13 000

**32,0 m**

m	o	m	kg
6,1	83,0	34,1	127 600
6,5	82,3	34,1	120 000
7,0	81,4	34,0	111 600
7,5	80,5	33,9	99 000
8,0	79,6	33,8	88 700
8,5	78,6	33,7	80 300
9,0	77,7	33,6	73 200
9,5	76,8	33,4	67 200
10,0	75,9	33,3	62 100
10,5	74,9	33,2	57 600
11,0	74,0	33,0	53 700
12,0	72,1	32,7	47 200
13,0	70,2	32,3	41 900
14,0	68,3	31,9	37 600
15,0	66,3	31,5	34 000
16,0	64,3	31,0	31 000
18,0	60,2	29,9	26 100
20,0	56,0	28,6	22 300
22,0	51,5	27,0	19 300
24,0	46,6	25,2	16 900
26,0	41,4	23,1	14 800
28,0	35,4	20,4	13 100
30,0	28,4	17,1	11 700
32,0	19,0	12,2	10 400

**35,0 m**

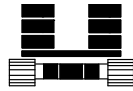
m	o	m	kg
6,4	83,1	37,1	121 500
6,5	82,9	37,1	119 800
7,0	82,1	37,0	111 400
7,5	81,3	36,9	99 100
8,0	80,5	36,8	88 700
8,5	79,6	36,7	80 200
9,0	78,8	36,6	73 200
9,5	77,9	36,5	67 200
10,0	77,1	36,4	62 000
10,5	76,3	36,3	57 600
11,0	75,4	36,1	53 600
12,0	73,7	35,8	47 100
13,0	72,0	35,5	41 800
14,0	70,2	35,1	37 500
15,0	68,5	34,7	33 900
16,0	66,7	34,3	30 900
18,0	63,0	33,3	25 900
20,0	59,3	32,2	22 100
22,0	55,3	30,8	19 200
24,0	51,2	29,3	16 700
26,0	46,7	27,4	14 700
28,0	42,0	25,3	13 000
30,0	36,7	22,8	11 600
32,0	30,6	19,6	10 300
34,0	23,0	15,5	9 200

# MLC200 S-1

ASME B30.5



B10



51 980 kg  
+  
0 kg



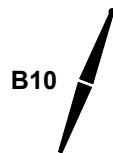
38,0 m			
m	°	m	kg
6,7	83,2	40,1	116 000
7,0	82,8	40,0	111 300
7,5	82,0	40,0	99 100
8,0	81,2	39,9	88 700
8,5	80,5	39,8	80 200
9,0	79,7	39,7	73 200
9,5	78,9	39,6	67 100
10,0	78,1	39,5	62 000
10,5	77,4	39,4	57 500
11,0	76,6	39,2	53 600
12,0	75,0	39,0	47 000
13,0	73,5	38,7	41 700
14,0	71,9	38,3	37 400
15,0	70,3	38,0	33 800
16,0	68,6	37,6	30 800
18,0	65,3	36,7	25 900
20,0	62,0	35,7	22 100
22,0	58,4	34,5	19 100
24,0	54,8	33,1	16 700
26,0	51,0	31,5	14 600
28,0	46,9	29,7	13 000
30,0	42,5	27,6	11 500
32,0	37,7	25,2	10 200
34,0	32,3	22,2	9 100
36,0	26,0	18,4	8 200
38,0	17,4	13,1	7 300

41,0 m			
m	°	m	kg
7,3	82,8	43,0	103 400
7,5	82,6	43,0	99 100
8,0	81,9	42,9	88 700
8,5	81,2	42,8	80 200
9,0	80,5	42,7	73 100
9,5	79,7	42,6	67 100
10,0	79,0	42,5	61 900
10,5	78,3	42,4	57 500
11,0	77,6	42,3	53 500
12,0	76,2	42,1	46 900
13,0	74,7	41,8	41 600
14,0	73,2	41,5	37 300
15,0	71,8	41,2	33 700
16,0	70,3	40,8	30 700
18,0	67,3	40,0	25 700
20,0	64,2	39,0	21 900
22,0	61,0	38,0	18 900
24,0	57,7	36,7	16 500
26,0	54,3	35,3	14 500
28,0	50,7	33,7	12 800
30,0	47,0	31,9	11 300
32,0	42,9	29,9	10 100
34,0	38,6	27,5	9 000
36,0	33,7	24,6	8 000
38,0	28,1	21,2	7 100
40,0	21,2	16,6	6 400

44,0 m			
m	°	m	kg
7,6	82,9	46,0	96 300
8,0	82,4	46,0	88 700
8,5	81,8	45,9	80 200
9,0	81,1	45,8	73 100
9,5	80,5	45,7	67 100
10,0	79,8	45,6	61 900
10,5	79,1	45,5	57 400
11,0	78,5	45,4	53 400
12,0	77,1	45,2	46 900
13,0	75,8	44,9	41 600
14,0	74,4	44,6	37 200
15,0	73,1	44,3	33 600
16,0	71,7	44,0	30 700
18,0	68,9	43,2	25 700
20,0	66,1	42,4	21 900
22,0	63,2	41,4	18 900
24,0	60,2	40,3	16 500
26,0	57,1	39,0	14 400
28,0	53,9	37,6	12 700
30,0	50,6	36,0	11 300
32,0	47,1	34,2	10 000
34,0	43,3	32,1	9 000
36,0	39,3	29,8	8 000
38,0	34,9	27,1	7 100
40,0	30,0	23,8	6 400
42,0	24,0	19,7	5 600
44,0	16,1	14,0	5 000

# MLC200 S-1

ASME B30.5



51 980 kg  
+  
0 kg



**47,0 m**

m	o	m	kg
7,9	83,0	49,0	90 100
8,0	82,9	49,0	88 700
8,5	82,3	48,9	80 200
9,0	81,7	48,8	73 100
9,5	81,1	48,8	67 000
10,0	80,4	48,7	61 800
10,5	79,8	48,6	57 300
11,0	79,2	48,5	53 300
12,0	78,0	48,3	46 800
13,0	76,7	48,0	41 500
14,0	75,4	47,7	37 100
15,0	74,2	47,5	33 500
16,0	72,9	47,2	30 500
18,0	70,3	46,5	25 500
20,0	67,7	45,7	21 700
22,0	65,0	44,7	18 700
24,0	62,3	43,7	16 300
26,0	59,5	42,6	14 300
28,0	56,6	41,3	12 600
30,0	53,5	39,8	11 100
32,0	50,4	38,2	9 900
34,0	47,1	36,4	8 800
36,0	43,7	34,4	7 800
38,0	39,9	32,1	7 000
40,0	35,9	29,4	6 200
42,0	31,4	26,3	5 500
44,0	26,2	22,6	4 900
46,0	19,7	17,6	4 300

**50,0 m**

m	o	m	kg
8,2	83,1	52,0	84 500
8,5	82,8	51,9	80 100
9,0	82,2	51,9	73 000
9,5	81,6	51,8	66 900
10,0	81,0	51,7	61 700
10,5	80,4	51,6	57 300
11,0	79,9	51,5	53 200
12,0	78,7	51,3	46 700
13,0	77,5	51,1	41 400
14,0	76,3	50,8	37 000
15,0	75,1	50,6	33 400
16,0	74,0	50,3	30 400
18,0	71,5	49,6	25 400
20,0	69,1	48,9	21 600
22,0	66,6	48,0	18 600
24,0	64,1	47,1	16 100
26,0	61,5	46,0	14 100
28,0	58,8	44,8	12 400
30,0	56,1	43,5	11 000
32,0	53,2	42,1	9 700
34,0	50,3	40,4	8 600
36,0	47,2	38,6	7 700
38,0	43,9	36,6	6 800
40,0	40,5	34,3	6 100
42,0	36,7	31,8	5 400
44,0	32,6	28,8	4 700
46,0	28,0	25,3	4 200
48,0	22,4	20,8	3 600

**53,0 m**

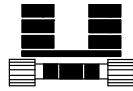
m	o	m	kg
8,5	83,1	55,0	79 500
9,0	82,6	54,9	72 900
9,5	82,1	54,8	66 900
10,0	81,5	54,8	61 600
10,5	81,0	54,7	57 200
11,0	80,4	54,6	53 100
12,0	79,3	54,4	46 600
13,0	78,2	54,2	41 200
14,0	77,1	53,9	36 800
15,0	76,0	53,7	33 200
16,0	74,9	53,4	30 200
18,0	72,6	52,8	25 200
20,0	70,3	52,1	21 400
22,0	68,0	51,3	18 400
24,0	65,7	50,4	16 000
26,0	63,2	49,4	13 900
28,0	60,8	48,4	12 300
30,0	58,2	47,1	10 800
32,0	55,6	45,8	9 500
34,0	53,0	44,3	8 500
36,0	50,2	42,7	7 500
38,0	47,3	40,9	6 600
40,0	44,2	38,9	5 900
42,0	41,0	36,7	5 200
44,0	37,5	34,1	4 600
46,0	33,7	31,3	4 000
48,0	29,5	27,9	3 500
50,0	24,6	23,9	3 000
52,0	18,5	18,6	2 500

# MLC200 S-1

ASME B30.5



B10



51 980 kg  
+  
0 kg



56,0 m			
m	°	m	kg
8,8	83,2	58,0	75 000
9,0	83,0	57,9	72 900
9,5	82,5	57,9	66 800
10,0	82,0	57,8	61 600
10,5	81,5	57,7	57 100
11,0	81,0	57,6	53 100
12,0	79,9	57,4	46 500
13,0	78,9	57,2	41 100
14,0	77,8	57,0	36 700
15,0	76,8	56,8	33 100
16,0	75,7	56,5	30 100
18,0	73,6	55,9	25 100
20,0	71,4	55,3	21 300
22,0	69,3	54,5	18 300
24,0	67,0	53,7	15 900
26,0	64,8	52,8	13 800
28,0	62,5	51,8	12 200
30,0	60,1	50,6	10 700
32,0	57,7	49,4	9 400
34,0	55,3	48,0	8 400
36,0	52,7	46,6	7 400
38,0	50,1	44,9	6 500
40,0	47,3	43,1	5 800
42,0	44,4	41,1	5 100
44,0	41,4	38,9	4 500
46,0	38,1	36,5	3 900
48,0	34,6	33,7	3 400
50,0	30,7	30,5	2 900
52,0	26,4	26,7	2 500
54,0	21,1	22,0	2 000

59,0 m			
m	°	m	kg
9,4	83,0	60,9	67 300
9,5	82,9	60,9	66 700
10,0	82,4	60,8	61 500
10,5	81,9	60,8	57 000
11,0	81,4	60,7	53 000
12,0	80,4	60,5	46 400
13,0	79,5	60,3	41 000
14,0	78,5	60,1	36 600
15,0	77,5	59,9	33 000
16,0	76,5	59,6	30 000
18,0	74,5	59,1	25 000
20,0	72,4	58,5	21 100
22,0	70,4	57,8	18 100
24,0	68,3	57,0	15 700
26,0	66,2	56,1	13 700
28,0	64,0	55,2	12 000
30,0	61,8	54,1	10 500
32,0	59,6	53,0	9 300
34,0	57,3	51,7	8 200
36,0	54,9	50,3	7 200
38,0	52,5	48,8	6 400
40,0	50,0	47,2	5 600
42,0	47,4	45,4	4 900
44,0	44,6	43,4	4 300
46,0	41,8	41,2	3 700
48,0	38,7	38,8	3 200
50,0	35,4	36,1	2 700
52,0	31,9	33,0	2 300

62,0 m			
m	°	m	kg
9,8	83,0	63,9	63 800
10,0	82,8	63,8	61 400
10,5	82,3	63,8	56 900
11,0	81,8	63,7	52 900
12,0	80,9	63,5	46 200
13,0	80,0	63,4	40 900
14,0	79,0	63,2	36 500
15,0	78,1	62,9	32 900
16,0	77,1	62,7	29 900
18,0	75,2	62,2	24 800
20,0	73,3	61,6	21 000
22,0	71,3	61,0	18 000
24,0	69,4	60,2	15 500
26,0	67,4	59,4	13 500
28,0	65,4	58,5	11 800
30,0	63,3	57,5	10 400
32,0	61,2	56,4	9 100
34,0	59,0	55,2	8 000
36,0	56,8	54,0	7 000
38,0	54,6	52,6	6 200
40,0	52,3	51,0	5 400
42,0	49,9	49,4	4 700
44,0	47,4	47,6	4 100
46,0	44,8	45,6	3 600
48,0	42,1	43,5	3 000
50,0	39,2	41,1	2 600
52,0	36,1	38,4	2 100



# MLC200 S-1

ASME B30.5



51 980 kg  
+  
0 kg



65,0 m			
m	o	m	kg
10,1	83,1	66,9	60 700
10,5	82,7	66,8	56 800
11,0	82,2	66,8	52 800
12,0	81,3	66,6	46 100
13,0	80,4	66,4	40 800
14,0	79,5	66,2	36 300
15,0	78,6	66,0	32 700
16,0	77,7	65,8	29 700
18,0	75,9	65,3	24 700
20,0	74,1	64,8	20 800
22,0	72,2	64,1	17 800
24,0	70,4	63,4	15 400
26,0	68,5	62,7	13 300
28,0	66,6	61,8	11 600
30,0	64,6	60,9	10 200
32,0	62,7	59,9	8 900
34,0	60,6	58,8	7 800
36,0	58,6	57,6	6 800
38,0	56,5	56,3	6 000
40,0	54,3	54,8	5 200
42,0	52,1	53,3	4 500
44,0	49,8	51,7	3 900
46,0	47,4	49,9	3 400
48,0	45,0	47,9	2 800
50,0	42,4	45,8	2 400

68,0 m			
m	o	m	kg
10,4	83,1	69,9	57 800
10,5	83,0	69,8	56 600
11,0	82,6	69,8	52 600
12,0	81,7	69,6	46 000
13,0	80,9	69,5	40 600
14,0	80,0	69,3	36 200
15,0	79,1	69,1	32 500
16,0	78,3	68,9	29 500
18,0	76,6	68,4	24 500
20,0	74,8	67,9	20 600
22,0	73,1	67,3	17 600
24,0	71,3	66,6	15 200
26,0	69,5	65,9	13 100
28,0	67,7	65,1	11 400
30,0	65,8	64,2	10 000
32,0	64,0	63,2	8 700
34,0	62,1	62,2	7 600
36,0	60,1	61,0	6 700
38,0	58,1	59,8	5 800
40,0	56,1	58,5	5 000
42,0	54,1	57,1	4 400
44,0	51,9	55,5	3 700
46,0	49,7	53,9	3 200
48,0	47,5	52,1	2 700
50,0	45,1	50,1	2 200

RENTAL ONLY!