


Liftcrane Boom Capacities

Boom No. B20:350
34 110 kg Crane Counterweight
0 kg Carbody Counterweight
360 Degree Rating

MLC150-1
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 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.

OPERATING CONDITIONS: Machine to operate on a firm, level, and uniformly supporting surface. Refer to Boom Rigging **No. 80117859**, Wire Rope Specifications chart **No. 9848-A**, Counterweight Arrangements chart **No. 9828-A**, and Wind Conditions chart **No. 9847-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. 9846-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 ($^{\circ}$) 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 7 980 mm crawlers, 1 200 mm treads, 5 300 mm gantry, 10 part boom hoist reeving, boom straps, 34 110 kg crane counterweight, 0 kg carbody counterweight.

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	Over End of Blocked Crawlers
	Block Weight (kg)	
15,0 - 45,0	3 475	3 475
48,0	2 750	3 125
51,0	1 975	2 475
54,0	1 250	1 850
57,0	625	1 450
60,0	#	1 125
63,0		#

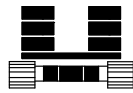
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. *Crane tipping or structural damage can occur.*

REFERENCE ONLY!

Explanation of Symbols



Boom No. B20:350



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)

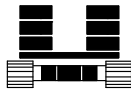
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ASME B30.5



B20



34 110 kg
+
0 kg



360°

15,0 m			
m	°	m	kg
4,9	80,3	16,7	74 800
5,0	79,8	16,7	74 800
5,5	77,8	16,5	74 800
6,0	75,8	16,4	74 800
6,5	73,8	16,2	74 800
7,0	71,7	16,0	74 100
8,0	67,5	15,6	63 300
9,0	63,2	15,0	52 500
10,0	58,6	14,3	44 700
11,0	53,8	13,6	38 700
12,0	48,5	12,6	34 100
13,0	42,8	11,5	30 400
14,0	36,1	10,1	27 300
15,0	27,9	8,2	24 700
15,2	25,5	7,6	24 100

18,0 m			
m	°	m	kg
5,5	79,9	19,7	80 500
6,0	78,2	19,5	80 500
6,5	76,6	19,4	80 500
7,0	74,9	19,2	77 100
8,0	71,5	18,9	63 400
9,0	68,1	18,4	52 600
10,0	64,5	17,9	44 700
11,0	60,8	17,3	38 800
12,0	56,9	16,6	34 100
13,0	52,9	15,8	30 400
14,0	48,5	14,9	27 300
15,0	43,8	13,8	24 700
16,0	38,6	12,5	22 600
17,0	32,6	10,9	20 700
18,0	25,4	8,8	19 000

21,0 m			
m	°	m	kg
6,1	79,7	22,6	80 500
6,5	78,6	22,5	80 500
7,0	77,1	22,4	77 200
8,0	74,3	22,0	63 500
9,0	71,4	21,7	52 700
10,0	68,4	21,2	44 800
11,0	65,4	20,8	38 800
12,0	62,3	20,2	34 200
13,0	59,0	19,6	30 500
14,0	55,7	18,8	27 400
15,0	52,2	18,0	24 800
16,0	48,4	17,1	22 700
17,0	44,5	16,0	20 800
18,0	40,2	14,8	19 100
19,0	35,4	13,4	17 700
20,0	29,8	11,6	16 400
20,7	25,0	10,0	15 500

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ASME B30.5



34 110 kg
+
0 kg



24,0 m

m	°	m	kg
6,4	80,3	25,6	80 500
6,5	80,0	25,6	80 500
7,0	78,8	25,4	77 200
8,0	76,3	25,2	63 500
9,0	73,8	24,9	52 700
10,0	71,3	24,5	44 800
11,0	68,7	24,1	38 800
12,0	66,0	23,6	34 200
13,0	63,3	23,1	30 400
14,0	60,6	22,5	27 300
15,0	57,7	21,8	24 800
16,0	54,7	21,1	22 700
17,0	51,6	20,2	20 700
18,0	48,4	19,3	19 100
19,0	44,9	18,3	17 700
20,0	41,3	17,1	16 400
22,0	32,8	14,2	14 200
23,2	26,7	11,9	13 100

27,0 m

m	°	m	kg
7,0	80,0	28,5	79 200
8,0	77,9	28,3	63 500
9,0	75,7	28,0	52 700
10,0	73,4	27,7	44 800
11,0	71,2	27,3	38 800
12,0	68,9	26,9	34 100
13,0	66,6	26,5	30 400
14,0	64,2	25,9	27 300
15,0	61,8	25,4	24 700
16,0	59,3	24,8	22 600
17,0	56,7	24,1	20 700
18,0	54,0	23,3	19 000
19,0	51,3	22,5	17 600
20,0	48,4	21,6	16 300
22,0	42,2	19,4	14 200
24,0	35,0	16,7	12 400
25,9	26,4	13,1	11 000

30,0 m

m	°	m	kg
7,3	80,4	31,5	73 600
8,0	79,1	31,4	63 500
9,0	77,1	31,1	52 600
10,0	75,2	30,8	44 700
11,0	73,1	30,5	38 700
12,0	71,1	30,1	34 100
13,0	69,1	29,7	30 300
14,0	67,0	29,3	27 200
15,0	64,8	28,8	24 600
16,0	62,7	28,3	22 500
17,0	60,4	27,7	20 600
18,0	58,2	27,0	18 900
19,0	55,8	26,3	17 500
20,0	53,4	25,5	16 200
22,0	48,3	23,8	14 100
24,0	42,8	21,7	12 300
26,0	36,5	19,1	10 800
28,0	29,0	15,7	9 600
28,7	26,1	14,3	9 200

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ASME B30.5



B20



34 110 kg
+
0 kg



360°

33,0 m			
m	o	m	kg
7,9	80,3	34,5	64 400
8,0	80,1	34,5	63 500
9,0	78,3	34,2	52 600
10,0	76,6	34,0	44 700
11,0	74,7	33,7	38 600
12,0	72,9	33,4	34 000
13,0	71,1	33,0	30 200
14,0	69,2	32,6	27 100
15,0	67,3	32,1	24 600
16,0	65,4	31,7	22 400
17,0	63,4	31,1	20 500
18,0	61,4	30,6	18 900
19,0	59,4	30,0	17 400
20,0	57,3	29,3	16 100
22,0	53,0	27,8	14 000
24,0	48,4	26,0	12 300
26,0	43,4	24,0	10 800
28,0	37,8	21,5	9 600
30,0	31,4	18,3	8 500
31,4	26,0	15,6	7 900

36,0 m			
m	o	m	kg
8,5	80,1	37,4	57 000
9,0	79,3	37,3	52 500
10,0	77,7	37,1	44 600
11,0	76,0	36,8	38 600
12,0	74,4	36,5	33 900
13,0	72,7	36,2	30 100
14,0	71,0	35,8	27 000
15,0	69,3	35,4	24 500
16,0	67,6	35,0	22 300
17,0	65,8	34,5	20 400
18,0	64,0	34,0	18 800
19,0	62,2	33,5	17 300
20,0	60,4	32,9	16 000
22,0	56,6	31,5	13 900
24,0	52,6	30,0	12 100
26,0	48,3	28,3	10 700
28,0	43,8	26,2	9 400
30,0	38,8	23,8	8 400
32,0	33,1	20,8	7 500
34,0	26,3	17,0	6 700
34,1	25,7	16,7	6 600

39,0 m			
m	o	m	kg
8,8	80,4	40,4	53 900
9,0	80,2	40,4	52 400
10,0	78,7	40,2	44 500
11,0	77,2	39,9	38 500
12,0	75,6	39,6	33 800
13,0	74,1	39,3	30 000
14,0	72,6	39,0	26 900
15,0	71,0	38,6	24 400
16,0	69,4	38,3	22 200
17,0	67,8	37,8	20 300
18,0	66,2	37,4	18 600
19,0	64,6	36,9	17 200
20,0	62,9	36,3	15 900
22,0	59,5	35,2	13 800
24,0	56,0	33,8	12 000
26,0	52,3	32,3	10 500
28,0	48,3	30,5	9 300
30,0	44,2	28,5	8 300
32,0	39,6	26,1	7 400
34,0	34,5	23,3	6 600
36,0	28,7	19,8	5 900
36,9	25,6	18,0	5 600


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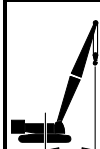

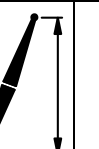

ASME B30.5




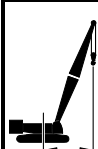

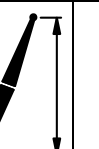

 34 110 kg
+
0 kg





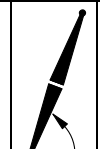
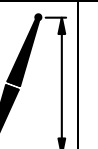

 **42,0 m**

 m	 °	 m	 kg
9,4	80,3	43,3	48 500
10,0	79,5	43,2	44 500
11,0	78,1	43,0	38 400
12,0	76,7	42,7	33 700
13,0	75,3	42,5	29 900
14,0	73,8	42,2	26 800
15,0	72,4	41,8	24 200
16,0	71,0	41,5	22 100
17,0	69,5	41,1	20 200
18,0	68,0	40,7	18 500
19,0	66,5	40,2	17 100
20,0	65,0	39,7	15 800
22,0	61,9	38,7	13 600
24,0	58,7	37,4	11 900
26,0	55,4	36,1	10 400
28,0	52,0	34,5	9 200
30,0	48,3	32,7	8 100
32,0	44,4	30,7	7 200
34,0	40,3	28,4	6 400
36,0	35,7	25,7	5 700
38,0	30,5	22,4	5 100
39,6	25,5	19,2	4 700

 **45,0 m**

 m	 °	 m	 kg
10,1	80,1	46,3	43 900
11,0	78,9	46,1	38 300
12,0	77,6	45,8	33 600
13,0	76,3	45,6	29 800
14,0	74,9	45,3	26 700
15,0	73,6	45,0	24 100
16,0	72,3	44,6	22 000
17,0	70,9	44,3	20 000
18,0	69,6	43,9	18 400
19,0	68,2	43,5	17 000
20,0	66,8	43,0	15 700
22,0	63,9	42,1	13 500
24,0	61,0	40,9	11 800
26,0	58,0	39,7	10 300
28,0	54,9	38,3	9 100
30,0	51,7	36,7	8 000
32,0	48,3	35,0	7 100
34,0	44,7	33,0	6 300
36,0	40,8	30,7	5 600
38,0	36,6	28,1	5 000
40,0	31,9	25,0	4 500
42,0	26,5	21,2	4 000
42,4	25,3	20,4	3 900

 **48,0 m**

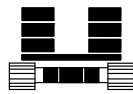
 m	 °	 m	 kg
10,4	80,4	49,3	41 800
11,0	79,6	49,1	38 200
12,0	78,4	48,9	33 500
13,0	77,2	48,7	29 700
14,0	75,9	48,4	26 600
15,0	74,7	48,1	24 000
16,0	73,4	47,8	21 900
17,0	72,2	47,5	19 900
18,0	70,9	47,1	18 300
19,0	69,6	46,7	16 800
20,0	68,3	46,3	15 500
22,0	65,7	45,4	13 400
24,0	63,0	44,4	11 600
26,0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

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ASME B30.5



B20



34 110 kg
+
0 kg



360°

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

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

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

MLC150-1 S-1

ASME B30.5



34 110 kg
+
0 kg



60,0 m

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

63,0 m

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