


Liftcrane Boom Capacities

Boom No. B10:350
34 110 kg Crane Counterweight
0 kg Carbody Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Static Machine List
No Travel - 360 Degree Rating


MLC150-1 SERIES 1


 **LIFTING CAPACITIES:** Lifting capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. 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 or 18 140 kg with two part whip line. When Drum 1 or Drum 2 is used, capacity with single part whip line is 13 430 kg or 26 860 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.

OPERATING CONDITIONS: Machine to operate on a firm and uniformly supporting surface with machine list not to exceed degrees noted. Refer to Boom Rigging **No. 80117858**, Wire Rope Specifications chart **No. 9834-A**, Counterweight Arrangements chart **No. 9828-A**, and Wind Conditions chart **No. 9833-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to the Operator Manual for operating guidelines.

 **OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation at barge deck 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 barge deck to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 7 980 mm crawlers, 1 200 mm treads, 5 300 mm gantry, load drums 1 and 2, 10 part boom hoist reeving, boom straps, 34 110 kg crane counterweight, and 0 kg carbody counterweight.

Consult chart **No. 9839-AM** when Jib No. 134 is attached.

Upper Boom Point Deduct	
Deduct 550 kg from capacities when upper boom point is attached. Deduct does not apply to 15,0 m boom length.	

Third Line Deduct	
Deduct 190 kg from capacities when boom top is equipped with optional 3rd sheave wire rope guide.	

Deduct From Capacities When Jib No. 134 Is Attached			
Jib Length (m)	Jib Offset Angle		
	5°	15°	25°
	Deduct (kg)		
9.1	2 275	2 500	3 000
12.2	2 600	3 200	3 875
15.2	2 950	3 875	4 825
18.3	3 425	4 600	5 775
21.3	3 725	5 150	6 600
24.4	4 050	5 775	7 550

Weight of jib and 900 kg suspended beneath jib point have been included in determination of deduct.

Refer to Tables 1 and 2 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 barge deck 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	
	Machine List	
	0°	1° - 3°
	Block Weight (kg)	
15,0 - 45,0	3 475	3 475
48,0	2 925	2 700
51,0	2 175	1 975
54,0	1 450	1 250
57,0	850	675
60,0	#	#
63,0		
66,0		

Table 2

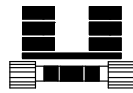
Boom Length (m)	Over End of Blocked Crawlers	
	Machine List	
	0°	1° - 3°
	Block Weight (kg)	
15,0 - 48,0	3 475	3 475
51,0	3 125	2 925
54,0	2 475	2 300
57,0	1 950	1 800
60,0	1 350	1 175
63,0	725	#
66,0	#	

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.

Explanation of Symbols



Boom No. B10:350



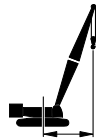
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)

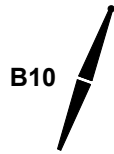


Machine List



Lifting Capacities
(see page 1)

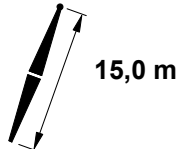



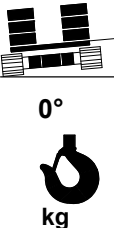
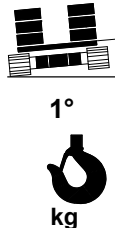
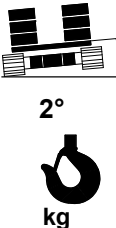
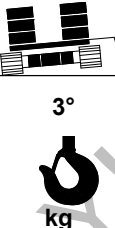

MLC150-1 S-1





 34 110 kg
 +
 0 kg



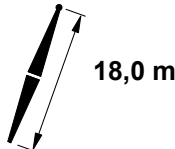
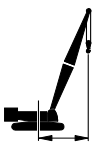


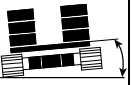
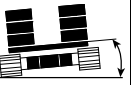
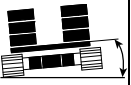
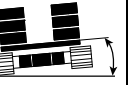

							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
4,3	80,4	16,8	146 300				4,3
4,5	79,5	16,8	139 400				4,5
4,6	79,1	16,7	136 800	130 100			4,6
4,9	77,9	16,7	129 000	122 700	109 800		4,9
5,0	77,5	16,7	126 400	120 300	107 100		5,0
5,2	76,7	16,6	122 100	116 300	103 000	86 000	5,2
5,5	75,5	16,5	115 500	110 200	97 000	80 900	5,5
6,0	73,5	16,4	104 100	95 200	87 100	73 900	6,0
6,5	71,5	16,2	90 500	83 300	77 000	68 100	6,5
7,0	69,5	16,0	79 300	73 600	68 600	63 000	7,0
8,0	65,3	15,5	63 100	59 400	56 100	53 000	8,0
9,0	60,9	15,0	52 400	49 800	47 400	45 200	9,0
10,0	56,3	14,3	44 600	42 700	40 900	39 300	10,0
11,0	51,4	13,5	38 700	37 300	35 900	34 600	11,0
12,0	46,2	12,6	34 100	33 000	32 000	30 900	12,0
13,0	40,4	11,4	30 400	29 600	28 700	27 900	13,0
14,0	33,7	10,0	27 300	26 700	26 000	25 400	14,0
14,6	28,6	8,8	25 700	25 200	24 600	24 000	14,6
14,9	26,1	8,2	24 900	24 400			14,9

MLC150-1 S-1




34 110 kg
 +
0 kg



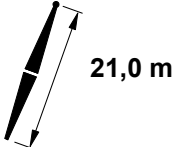


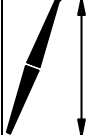
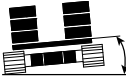
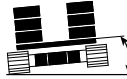
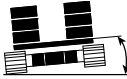
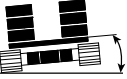

							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
4,9	80,1	19,8	129 500				4,9
5,0	79,7	19,8	126 600				5,0
5,2	79,0	19,7	122 300	107 700			5,2
5,5	78,0	19,6	115 700	107 300	80 900		5,5
5,8	77,0	19,6	109 000	99 400	80 900	61 400	5,8
6,0	76,4	19,5	104 500	94 200	80 900	61 400	6,0
6,5	74,7	19,4	91 000	82 500	74 700	61 400	6,5
7,0	73,1	19,2	79 700	73 100	67 300	60 000	7,0
8,0	69,7	18,8	63 500	59 200	55 300	51 800	8,0
9,0	66,2	18,4	52 800	49 700	46 900	44 400	9,0
10,0	62,6	17,9	45 000	42 700	40 600	38 700	10,0
11,0	58,9	17,3	39 100	37 300	35 700	34 200	11,0
12,0	55,0	16,6	34 500	33 100	31 800	30 600	12,0
13,0	50,9	15,8	30 800	29 700	28 700	27 700	13,0
14,0	46,6	14,8	27 700	26 800	26 000	25 200	14,0
15,0	41,9	13,7	25 200	24 500	23 800	23 100	15,0
16,0	36,7	12,4	23 100	22 500	21 900	21 400	16,0
17,0	30,6	10,8	21 200	20 700	20 200	19 800	17,0
17,4	28,0	10,1	20 500	20 100	19 700	19 200	17,4
17,7	25,8	9,5	20 000				17,7

MLC150-1 S-1

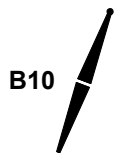



34 110 kg
 +
0 kg







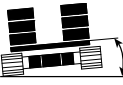
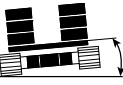
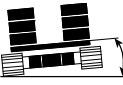
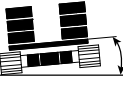

							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
5,5	79,8	22,7	115 900				5,5
5,8	78,9	22,6	109 100	98 500			5,8
6,0	78,4	22,6	104 500	92 800			6,0
6,1	78,1	22,6	101 900	90 500	76 800		6,1
6,4	77,2	22,5	93 800	83 700	73 300	58 600	6,4
6,5	77,0	22,5	91 100	81 500	72 200	58 600	6,5
7,0	75,5	22,3	79 800	72 200	65 800	57 700	7,0
8,0	72,7	22,0	63 600	58 600	54 300	50 400	8,0
9,0	69,8	21,6	52 900	49 300	46 100	43 300	9,0
10,0	66,8	21,2	45 100	42 400	40 000	37 800	10,0
11,0	63,8	20,7	39 100	37 100	35 200	33 500	11,0
12,0	60,6	20,2	34 500	32 900	31 400	30 000	12,0
13,0	57,4	19,5	30 800	29 500	28 300	27 100	13,0
14,0	54,0	18,8	27 800	26 700	25 700	24 700	14,0
15,0	50,5	18,0	25 200	24 300	23 500	22 700	15,0
16,0	46,8	17,1	23 100	22 400	21 700	21 000	16,0
17,0	42,8	16,0	21 200	20 600	20 000	19 400	17,0
18,0	38,5	14,8	19 600	19 100	18 600	18 100	18,0
19,0	33,7	13,3	18 200	17 700	17 300	16 900	19,0
19,8	29,2	11,9	17 100	16 700	16 400	16 000	19,8
20,0	28,1	11,5	16 900	16 500	16 200		20,0
20,1	27,4	11,3	16 700	16 400	16 000		20,1
20,4	25,4	10,7	16 400				20,4

MLC150-1 S-1

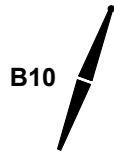



34 110 kg
 +
0 kg



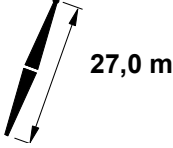


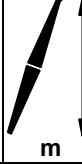
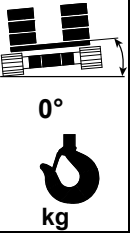
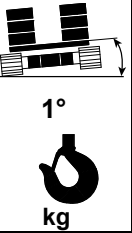
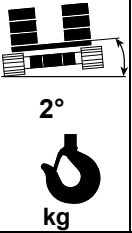
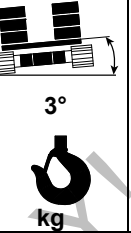

 24,0 m							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
5,8	80,4	25,7	109 900				5,8
6,0	79,8	25,6	104 500				6,0
6,4	78,9	25,6	93 900	82 000			6,4
6,5	78,6	25,5	91 200	80 100			6,5
6,7	78,1	25,5	86 700	76 600	68 200		6,7
7,0	77,4	25,4	79 900	71 400	64 400	56 900	7,0
8,0	74,9	25,1	63 600	58 000	53 200	49 000	8,0
9,0	72,4	24,8	52 800	48 800	45 300	42 200	9,0
10,0	69,9	24,5	45 000	42 000	39 300	36 900	10,0
11,0	67,3	24,0	39 100	36 700	34 600	32 700	11,0
12,0	64,6	23,6	34 500	32 600	30 900	29 400	12,0
13,0	61,9	23,0	30 800	29 300	27 900	26 600	13,0
14,0	59,1	22,4	27 700	26 400	25 300	24 200	14,0
15,0	56,3	21,8	25 100	24 100	23 100	22 200	15,0
16,0	53,3	21,0	23 000	22 200	21 300	20 500	16,0
17,0	50,2	20,2	21 100	20 400	19 700	19 000	17,0
18,0	47,0	19,3	19 500	18 900	18 300	17 700	18,0
19,0	43,5	18,2	18 100	17 500	17 000	16 500	19,0
20,0	39,8	17,1	16 800	16 300	15 900	15 400	20,0
22,0	31,3	14,1	14 700	14 300	14 000	13 700	22,0
22,6	28,4	13,0	14 200	13 800	13 500	13 200	22,6
22,9	26,8	12,4	13 900	13 600			22,9
23,2	25,2	11,8	13 600				23,2

MLC150-1 S-1

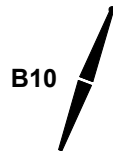



34 110 kg
 +
0 kg



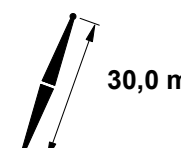
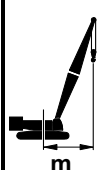
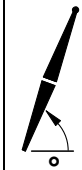

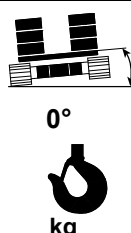
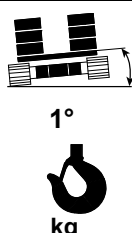
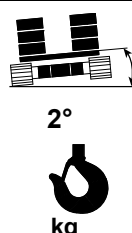
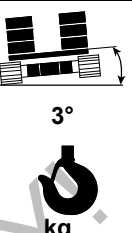

							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
6,4	80,1	28,6	93 200				6,4
6,5	79,9	28,6	90 700				6,5
6,7	79,5	28,6	86 400	75 100			6,7
7,0	78,8	28,5	79 900	70 500			7,0
7,3	78,2	28,4	75 000	66 600	59 000		7,3
7,6	77,5	28,4	70 100	62 600	56 000	50 700	7,6
8,0	76,6	28,3	63 600	57 400	52 200	47 700	8,0
9,0	74,4	28,0	52 800	48 400	44 500	41 200	9,0
10,0	72,2	27,7	45 000	41 600	38 700	36 100	10,0
11,0	70,0	27,3	39 000	36 400	34 100	32 000	11,0
12,0	67,7	26,9	34 400	32 400	30 500	28 800	12,0
13,0	65,3	26,4	30 700	29 000	27 500	26 000	13,0
14,0	62,9	25,9	27 600	26 200	24 900	23 700	14,0
15,0	60,5	25,4	25 100	23 900	22 800	21 800	15,0
16,0	58,0	24,7	23 000	22 000	21 000	20 100	16,0
17,0	55,4	24,1	21 100	20 200	19 400	18 600	17,0
18,0	52,8	23,3	19 500	18 700	18 000	17 300	18,0
19,0	50,0	22,5	18 000	17 400	16 800	16 200	19,0
20,0	47,1	21,5	16 700	16 200	15 700	15 100	20,0
22,0	40,9	19,4	14 600	14 200	13 800	13 400	22,0
24,0	33,7	16,6	12 900	12 600	12 200	11 900	24,0
25,3	27,8	14,2	11 900	11 700	11 400	11 100	25,3
25,6	26,5	13,7	11 700	11 400			25,6
25,9	25,1	13,1	11 500				25,9

MLC150-1 S-1

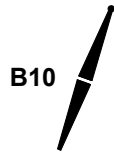



34 110 kg
 +
0 kg



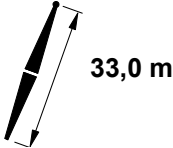



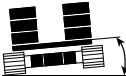
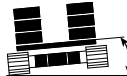
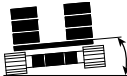
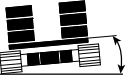

 30,0 m							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
7,0	79,9	31,6	79 200				7,0
7,3	79,3	31,5	74 500	64 800			7,3
7,9	78,2	31,4	65 100	57 900	51 800		7,9
8,0	78,0	31,4	63 600	56 800	51 100		8,0
8,5	77,0	31,2	58 200	52 300	47 400	42 800	8,5
9,0	76,0	31,1	52 800	47 900	43 700	40 100	9,0
10,0	74,0	30,8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

MLC150-1 S-1

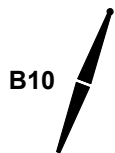



34 110 kg
 +
0 kg



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

MLC150-1 S-1

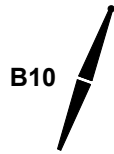


34 110 kg
 +
0 kg



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

MLC150-1 S-1

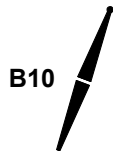


34 110 kg
+
0 kg



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

MLC150-1 S-1

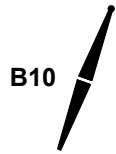


34 110 kg
 +
0 kg



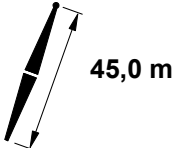



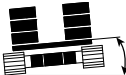
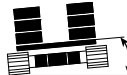
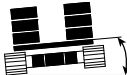
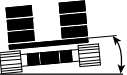

 42,0 m							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
8,8	80,3	43,4	53 900				8,8
9,0	80,1	43,4	52 400				9,0
9,4	79,5	43,3	49 300	42 900			9,4
10,0	78,7	43,2	44 600	39 700			10,0
10,4	78,1	43,1	42 200	37 700	34 000		10,4
11,0	77,3	43,0	38 600	34 800	31 500	28 800	11,0
12,0	75,9	42,7	34 000	30 900	28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

MLC150-1 S-1




34 110 kg
 +
0 kg



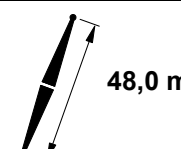
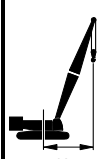


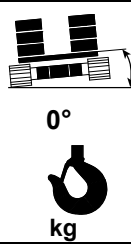
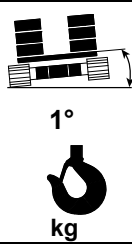
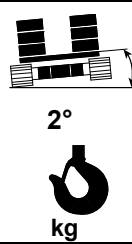
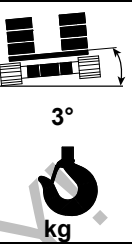
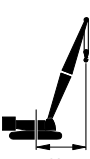
 45,0 m							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
9,4	80,2	46,4	48 500				9,4
10,0	79,5	46,3	44 600				10,0
10,1	79,3	46,2	43 900	39 000			10,1
11,0	78,2	46,0	38 500	34 500	31 100		11,0
11,6	77,4	45,9	35 800	32 100	29 100	26 500	11,6
12,0	76,8	45,8	33 900	30 600	27 800	25 400	12,0
13,0	75,5	45,6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

MLC150-1 S-1

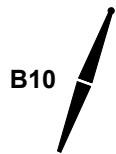



34 110 kg
 +
0 kg



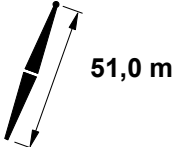



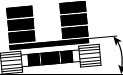
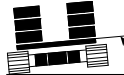
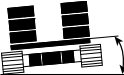
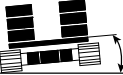

 48,0 m							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
9,8	80,4	49,4	46 100				9,8
10,0	80,1	49,3	44 500				10,0
10,7	79,3	49,2	40 200	35 600			10,7
11,0	78,9	49,1	38 400	34 100			11,0
11,6	78,2	49,0	35 600	31 800	28 600		11,6
12,0	77,7	48,9	33 800	30 300	27 400		12,0
12,2	77,4	48,9	33 000	29 700	26 800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

MLC150-1 S-1

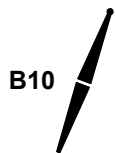




34 110 kg
 +
0 kg



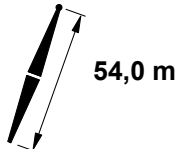
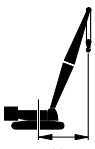


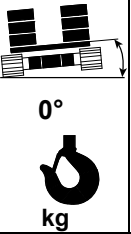
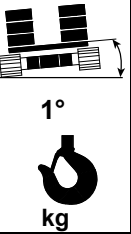
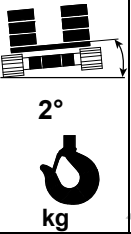
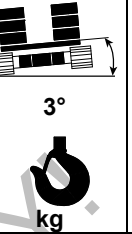

 51,0 m							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
10,4	80,3	52,3	41 900				10,4
11,0	79,6	52,2	38 300				11,0
11,3	79,2	52,1	36 900	32 600			11,3
12,0	78,4	52,0	33 700	30 000			12,0
12,2	78,2	51,9	32 900	29 400	26 400		12,2
12,8	77,5	51,8	30 700	27 500	24 800	22 500	12,8
13,0	77,3	51,7	29 900	26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

MLC150-1 S-1




34 110 kg
 +
0 kg

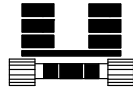


							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
11,0	80,2	55,2	38 400				11,0
11,9	79,2	55,1	34 000	30 100			11,9
12,0	79,1	55,1	33 600	29 700			12,0
12,8	78,2	54,9	30 500	27 200	24 400		12,8
13,0	78,0	54,8	29 800	26 600	23 900		13,0
13,7	77,2	54,7	27 600	24 800	22 400	20 300	13,7
14,0	76,9	54,6	26 700	24 000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

MLC150-1 S-1



B10



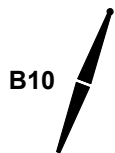
34 110 kg
+
0 kg



360°

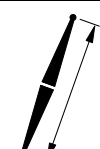
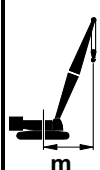

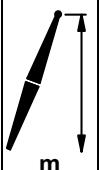
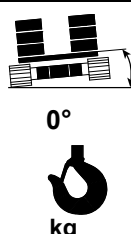
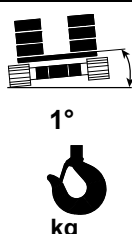
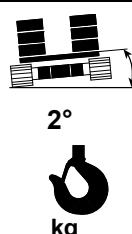
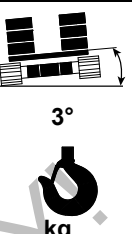

m	°	m	kg	kg	kg	kg	m
11,3	80,4	58,2	36 700				11,3
12,0	79,7	58,1	33 500				12,0
12,2	79,4	58,1	32 700	28 700			12,2
13,0	78,6	57,9	29 700	26 300			13,0
13,4	78,2	57,8	28 400	25 300	22 600		13,4
14,0	77,6	57,7	26 600	23 800	21 400		14,0
14,3	77,3	57,6	25 800	23 100	20 800	18 800	14,3
15,0	76,6	57,4	24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

MLC150-1 S-1

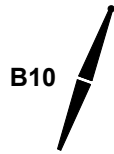



34 110 kg
 +
0 kg



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

MLC150-1 S-1

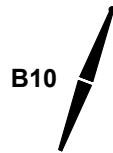


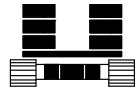
34 110 kg
+
0 kg



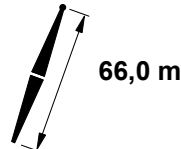


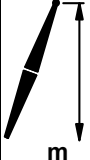
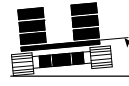

 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
12,2	80,5	64,2	32 400				12,2
13,0	79,7	64,0	29 400				13,0
13,4	79,4	63,9	28 200	24 700			13,4
14,0	78,8	63,8	26 300	23 300			14,0
14,3	78,5	63,8	25 500	22 600	20 100		14,3
15,0	77,9	63,6	23 700	21 100	18 900		15,0
15,5	77,4	63,5	22 700	20 200	18 200	15 900	15,5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

MLC150-1 S-1




34 110 kg
 +
0 kg



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