


Liftcrane Boom Capacities

Boom No. B10:500
175 200 kg VPC (Variable Position Counterweight)
Crawler Machine on a Barge
0 Degree thru 3 Degree Static Machine List
No Travel - 360 Degree Rating - Two Swing Drives

MLC300 SERIES 2


 **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 6 is 13 600 kg or 27 200 kg with two part whip line. When Drum 2 or Drum 3 is used, capacity with single part whip line is 16 600 kg or 33 300 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 2 270 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 uniformly supporting surface with machine list not to exceed degrees noted. Refer to Boom Rigging **No. 81023380**, Wire Rope Specification chart **No. 9341-A**, Counterweight Arrangement **No. 9345-A**, and Wind Conditions chart **No. 9344-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 two swing drives, 9 700 mm crawlers, 1 219 mm or 1 524 mm treads, 9 144 mm live mast, 24 part boom hoist reeving, boom support straps, and 175 200 kg VPC.

Caution: Luffing jib backstay straps must be removed before use of this chart. *Crane tipping or structural damage may occur.*

Consult chart **No. 9550-AM** when jib No. 148 is attached.

Deduct From Capacities When Jib No. 148 is Attached	
Jib Length (m)	Deduct (kg)
12,0	10 600
18,0	14 500
24,0	18 500
30,0	22 600
36,0	28 300
42,0	31 800

Weight of jib and 3 000 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 balls, slings, and hoist lines beneath boom point sheaves. For block weights shown with #, load blocks, hooks, weight balls, and slings must remain on barge deck 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


Over End or Side of Crawlers				
Boom Length (m)	Machine List			
	0°	1°	2°	3°
	Block Weight (kg)			
30,0 - 66,0	10 300	10 300	10 300	10 300
72,0	7 100	3 700	3 700	3 700
78,0	3 700	3 700	3 700	3 700
84,0	3 700	#	#	#
90,0	#	#	#	#
96,0	Raising Not Permitted			
102,0				

Table 2


Over End of Blocked Crawlers				
Boom Length (m)	Machine List			
	0°	1°	2°	3°
	Block Weight (kg)			
30,0 - 66,0	10 300	10 300	10 300	10 300
72,0	7 100	3 700	3 700	3 700
78,0	3 700	3 700	3 700	3 700
84,0	3 700	#	#	#
90,0	#	#	#	#
96,0	#	#	#	#
(a)102,0	#	Raising Not Permitted		
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. <i>Crane tipping or structural damage can occur.</i>				


Explanation of Symbols


B10  Boom No. B10:500


 VPC (Variable Position Counterweight)

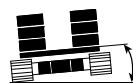
 360 Degree Rating


 Boom Length

 Operating Radius
(see page 1)

 Boom Angle
(see page 1)

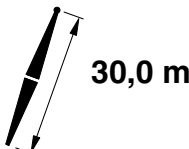
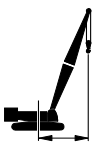


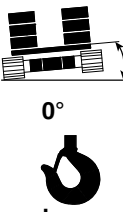
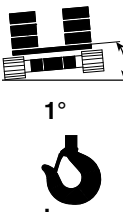
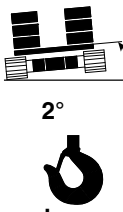
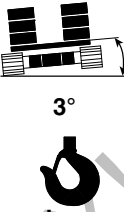

 Boom Point Elevation
(see page 1)

 Machine List

 Lifting Capacities
(see page 1)

MLC300 S-2



 30,0 m							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
5,5	84,5	31,9	300 000 b				5,5
6,0	83,5	31,9	300 000 b	244 500 b			6,0
6,5	82,5	31,8	296 900 b	244 300 b	183 700 b		6,5
7,0	81,6	31,7	281 400 b	244 100 b	183 500 b		7,0
8,0	79,6	31,5	253 100	231 300	183 200	142 300 b	8,0
9,0	77,6	31,2	227 300	197 700	176 500	142 100	9,0
10,0	75,7	31,0	193 100	169 500	153 900	139 800	10,0
12,0	71,6	30,3	146 800	132 100	121 900	112 800	12,0
14,0	67,5	29,5	118 000	107 900	100 700	94 200	14,0
16,0	63,2	28,5	98 500	91 100	85 700	80 700	16,0
18,0	58,8	27,3	84 400	78 800	74 600	70 600	18,0
20,0	54,1	25,8	73 700	69 300	65 900	62 800	20,0
22,0	49,0	24,1	65 300	61 800	59 000	56 400	22,0
24,0	43,6	22,1	58 600	55 700	53 400	51 300	24,0
26,0	37,4	19,5	53 000	50 700	48 800	47 000	26,0
28,0	30,2	16,3	48 400	46 500	45 000	43 500	28,0
30,0	20,5	11,7	44 400	42 900	41 800	40 600	30,0

REFERENCIA

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 36,0 m							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
5,8	84,9	37,9	294 700 b				5,8
6,0	84,6	37,9	293 700 b				6,0
6,5	83,8	37,8	289 700	235 600 b			6,5
7,0	83,0	37,8	274 500	232 200 b			7,0
8,0	81,4	37,6	247 700	223 100	178 100	138 800 b	8,0
9,0	79,7	37,4	225 800	195 200	171 400	138 500	9,0
10,0	78,1	37,2	195 400	167 600	150 000	135 800	10,0
12,0	74,8	36,6	148 400	131 100	119 600	109 400	12,0
14,0	71,5	36,0	119 400	107 500	99 200	91 800	14,0
16,0	68,0	35,2	99 700	91 000	84 700	79 000	16,0
18,0	64,5	34,2	85 500	78 800	73 900	69 300	18,0
20,0	60,9	33,1	74 700	69 400	65 400	61 700	20,0
22,0	57,1	31,8	66 300	61 900	58 600	55 500	22,0
24,0	53,1	30,3	59 500	55 900	53 100	50 500	24,0
26,0	48,9	28,6	53 900	50 900	48 500	46 300	26,0
28,0	44,4	26,6	49 200	46 600	44 700	42 800	28,0
30,0	39,5	24,2	45 200	43 000	41 400	39 700	30,0
32,0	33,9	21,4	41 800	40 000	38 500	37 100	32,0
34,0	27,3	17,7	38 800	37 300	36 100	34 900	34,0

REFERENCING ONLY

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 m	 °	 m	 0°	 1°	 2°	 3°	 m
m	°	m	kg	kg	kg	kg	m
6,4	84,8	43,9	267 800				6,4
6,5	84,7	43,9	267 400				6,5
7,0	84,0	43,8	263 200				7,0
8,0	82,6	43,7	241 000	202 900	166 100		8,0
9,0	81,2	43,5	220 300	190 700	163 600	131 100	9,0
10,0	79,8	43,3	197 300	164 900	145 600	128 900	10,0
12,0	77,0	42,9	149 200	129 500	116 700	105 600	12,0
14,0	74,2	42,3	120 100	106 400	97 200	89 000	14,0
16,0	71,3	41,6	100 200	90 200	83 100	76 800	16,0
18,0	68,4	40,8	85 900	78 200	72 600	67 500	18,0
20,0	65,4	39,9	75 100	68 900	64 400	60 200	20,0
22,0	62,3	38,9	66 600	61 500	57 800	54 300	22,0
24,0	59,1	37,7	59 700	55 500	52 300	49 400	24,0
26,0	55,8	36,3	54 100	50 500	47 800	45 300	26,0
28,0	52,4	34,8	49 400	46 300	44 000	41 800	28,0
30,0	48,8	33,1	45 400	42 800	40 700	38 800	30,0
32,0	45,0	31,1	41 900	39 700	37 900	36 200	32,0
34,0	40,9	28,8	38 900	37 000	35 400	33 900	34,0
36,0	36,3	26,2	36 300	34 600	33 300	32 000	36,0
38,0	31,2	23,0	34 000	32 500	31 400	30 200	38,0
40,0	25,2	19,1	31 900	30 700	29 700	28 700	40,0

REFERENCE ONLY

MLC300 S-2



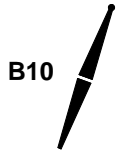
 m	 °	 m	 kg	 kg	 kg	 kg	 kg	 m
7,3	84,4	49,8	243 500					7,3
8,0	83,5	49,8	234 200	183 000				8,0
9,0	82,3	49,6	214 600	178 600	147 800			9,0
10,0	81,1	49,4	196 500	163 300	142 600	122 400		10,0
12,0	78,7	49,0	150 300	128 200	114 100	102 100		12,0
14,0	76,2	48,5	120 900	105 600	95 300	86 400		14,0
16,0	73,7	48,0	100 900	89 600	81 800	74 800		16,0
18,0	71,2	47,3	86 500	77 700	71 500	65 900		18,0
20,0	68,7	46,5	75 600	68 500	63 500	58 800		20,0
22,0	66,1	45,6	67 000	61 200	57 000	53 100		22,0
24,0	63,4	44,6	60 100	55 300	51 700	48 300		24,0
26,0	60,6	43,5	54 400	50 300	47 200	44 400		26,0
28,0	57,8	42,2	49 700	46 100	43 500	40 900		28,0
30,0	54,9	40,8	45 600	42 600	40 200	38 000		30,0
32,0	51,9	39,3	42 200	39 500	37 400	35 500		32,0
34,0	48,7	37,5	39 200	36 800	35 000	33 200		34,0
36,0	45,4	35,6	36 500	34 400	32 800	31 200		36,0
38,0	41,9	33,4	34 200	32 300	30 900	29 500		38,0
40,0	38,0	30,9	32 100	30 500	29 200	27 900		40,0
42,0	33,8	28,0	30 100	28 800	27 700	26 600		42,0
44,0	29,1	24,6	27 900	27 000	26 300	25 300		44,0
46,0	23,4	20,3	25 800	25 100	24 600	24 000		46,0

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54,0 m								
m	°	m	kg	kg	kg	kg	m	m
7,3	85,0	55,9	222 700					7,3
8,0	84,3	55,8	220 400					8,0
9,0	83,2	55,7	209 100	161 900				9,0
10,0	82,1	55,5	193 200	157 400	130 500			10,0
12,0	80,0	55,2	151 700	127 200	111 800	99 100		12,0
14,0	77,8	54,7	122 100	105 000	93 900	84 300		14,0
16,0	75,6	54,2	102 000	89 300	80 800	73 200		16,0
18,0	73,4	53,6	87 500	77 700	70 800	64 700		18,0
20,0	71,1	52,9	76 500	68 600	63 000	57 900		20,0
22,0	68,9	52,2	67 900	61 400	56 700	52 400		22,0
24,0	66,6	51,3	61 000	55 500	51 500	47 800		24,0
26,0	64,2	50,3	55 300	50 600	47 100	43 900		26,0
28,0	61,8	49,3	50 500	46 400	43 400	40 600		28,0
30,0	59,3	48,1	46 400	42 900	40 300	37 800		30,0
32,0	56,8	46,8	42 900	39 800	37 500	35 300		32,0
34,0	54,2	45,3	39 900	37 200	35 100	33 100		34,0
36,0	51,5	43,8	37 200	34 800	32 900	31 100		36,0
38,0	48,7	42,0	34 900	32 700	31 000	29 400		38,0
40,0	45,7	40,1	32 600	30 800	29 300	27 900		40,0
42,0	42,6	38,0	30 100	28 800	27 700	26 500		42,0
44,0	39,3	35,6	27 900	26 700	25 900	25 100		44,0
46,0	35,7	32,8	25 900	24 900	24 100	23 400		46,0
48,0	31,8	29,7	24 000	23 200	22 500	21 900		48,0
50,0	27,3	26,0	22 300	21 600	21 000	20 500		50,0
52,0	22,0	21,4	20 700	20 100	19 700	19 200		52,0

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 m	 °	 m	 kg	 kg	 kg	 kg	 m
7,9	84,9	61,8	192 300				7,9
8,0	84,8	61,9	192 100				8,0
9,0	83,9	61,7	187 700				9,0
10,0	82,9	61,6	179 200	137 400			10,0
12,0	81,0	61,3	153 400	126 500	108 500	92 900	12,0
14,0	79,0	60,9	123 200	104 300	92 200	82 100	14,0
16,0	77,1	60,4	103 000	88 900	79 600	71 500	16,0
18,0	75,1	59,9	88 400	77 400	69 900	63 300	18,0
20,0	73,1	59,3	77 300	68 500	62 300	56 800	20,0
22,0	71,1	58,6	68 600	61 300	56 100	51 400	22,0
24,0	69,0	57,8	61 600	55 400	51 000	47 000	24,0
26,0	67,0	57,0	55 800	50 600	46 800	43 200	26,0
28,0	64,9	56,0	51 000	46 500	43 100	40 000	28,0
30,0	62,7	55,0	46 900	42 900	40 000	37 200	30,0
32,0	60,5	53,9	43 400	39 900	37 300	34 800	32,0
34,0	58,3	52,7	40 300	37 200	34 900	32 600	34,0
36,0	56,0	51,3	37 600	34 900	32 700	30 700	36,0
38,0	53,6	49,8	34 600	32 700	30 900	29 000	38,0
40,0	51,2	48,2	31 900	30 200	29 000	27 500	40,0
42,0	48,6	46,5	29 400	27 900	26 800	25 800	42,0
44,0	46,0	44,6	27 200	25 900	24 900	24 000	44,0
46,0	43,2	42,5	25 200	24 000	23 200	22 300	46,0
48,0	40,3	40,2	23 400	22 300	21 600	20 800	48,0
50,0	37,2	37,6	21 700	20 800	20 100	19 400	50,0
52,0	33,8	34,7	20 200	19 300	18 700	18 100	52,0
54,0	30,1	31,3	18 700	18 000	17 500	16 900	54,0
56,0	25,9	27,4	17 400	16 800	16 300	15 800	56,0
58,0	20,8	22,5	16 100	15 600	15 200	14 800	58,0





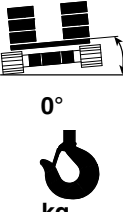
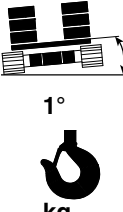
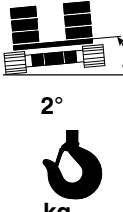
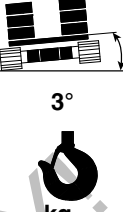

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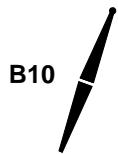
66,0 m								
			0°	1°	2°	3°		
m	°	m	kg	kg	kg	kg	m	
8,5	84,8	67,8	169 300					8,5
9,0	84,4	67,8	166 900					9,0
10,0	83,6	67,6	160 400	122 800				10,0
12,0	81,8	67,3	147 800	115 700	94 900			12,0
14,0	80,0	67,0	124 300	104 000	91 300	76 200		14,0
16,0	78,3	66,6	103 600	88 300	78 300	70 300		16,0
18,0	76,5	66,1	88 900	77 000	68 900	61 900		18,0
20,0	74,7	65,5	77 800	68 100	61 500	55 600		20,0
22,0	72,9	64,9	69 000	61 100	55 500	50 400		22,0
24,0	71,0	64,2	62 000	55 300	50 500	46 100		24,0
26,0	69,2	63,5	56 200	50 500	46 300	42 500		26,0
28,0	67,3	62,6	51 400	46 400	42 700	39 300		28,0
30,0	65,4	61,7	47 300	42 900	39 600	36 600		30,0
32,0	63,4	60,7	43 700	39 800	37 000	34 300		32,0
34,0	61,5	59,6	40 600	37 200	34 600	32 200		34,0
36,0	59,4	58,5	37 600	34 900	32 500	30 300		36,0
38,0	57,4	57,2	34 400	32 300	30 600	28 600		38,0
40,0	55,3	55,8	31 700	29 800	28 400	27 100		40,0
42,0	53,1	54,3	29 300	27 600	26 300	25 200		42,0
44,0	50,9	52,7	27 000	25 500	24 400	23 400		44,0
46,0	48,6	50,9	25 000	23 700	22 700	21 700		46,0
48,0	46,2	49,0	23 200	22 000	21 100	20 200		48,0
50,0	43,7	47,0	21 500	20 400	19 600	18 900		50,0
52,0	41,0	44,7	20 000	19 000	18 300	17 600		52,0
54,0	38,3	42,2	18 600	17 700	17 000	16 400		54,0
56,0	35,3	39,4	17 300	16 500	15 900	15 300		56,0
58,0	32,1	36,3	16 000	15 300	14 800	14 300		58,0
60,0	28,6	32,8	14 900	14 300	13 800	13 300		60,0
62,0	24,5	28,6	13 800	13 300	12 900	12 500		62,0
64,0	19,7	23,4	12 800	12 300	12 000	11 600		64,0

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 72,0 m							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
9,1	84,8	73,8	140 100				9,1
10,0	84,1	73,7	139 300				10,0
12,0	82,5	73,4	132 000	100 300	77 600		12,0
14,0	80,9	73,1	121 700	95 900	77 000	61 900	14,0
16,0	79,3	72,7	105 200	87 900	75 400	61 600	16,0
18,0	77,6	72,3	89 700	76 700	68 300	60 000	18,0
20,0	76,0	71,8	78 500	67 900	60 700	54 400	20,0
22,0	74,3	71,2	69 700	60 900	54 800	49 400	22,0
24,0	72,7	70,6	62 600	55 200	49 900	45 200	24,0
26,0	71,0	69,9	56 700	50 400	45 800	41 700	26,0
28,0	69,3	69,1	51 900	46 300	42 300	38 700	28,0
30,0	67,6	68,3	47 700	42 900	39 300	36 000	30,0
32,0	65,8	67,4	44 100	39 800	36 600	33 700	32,0
34,0	64,1	66,4	40 200	37 100	34 300	31 600	34,0
36,0	62,3	65,4	36 700	34 100	32 100	29 800	36,0
38,0	60,4	64,3	33 700	31 300	29 600	28 000	38,0
40,0	58,6	63,0	30 900	28 800	27 300	25 900	40,0
42,0	56,7	61,7	28 500	26 600	25 200	23 900	42,0
44,0	54,7	60,3	26 300	24 600	23 300	22 200	44,0
46,0	52,7	58,8	24 300	22 700	21 600	20 600	46,0
48,0	50,7	57,2	22 400	21 100	20 100	19 100	48,0
50,0	48,5	55,4	20 800	19 500	18 600	17 700	50,0
52,0	46,4	53,5	19 200	18 100	17 300	16 500	52,0
54,0	44,1	51,5	17 800	16 800	16 000	15 300	54,0
56,0	41,7	49,3	16 500	15 600	14 900	14 200	56,0
58,0	39,2	46,8	15 300	14 400	13 800	13 200	58,0
60,0	36,6	44,2	14 100	13 400	12 800	12 300	60,0
62,0	33,7	41,3	13 100	12 400	11 900	11 400	62,0
64,0	30,7	38,0	12 100	11 500	11 000	10 600	64,0
66,0	27,3	34,2	11 100	10 600	10 100	9 400	66,0
68,0	23,5	29,8	10 200	9 500	8 800	8 200	68,0
70,0	18,9	24,4	9 400	8 200	7 600	7 100	70,0

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 m	 °	 m	 kg	 kg	 kg	 kg	 m
9,8	84,7	79,7	116 300				9,8
10,0	84,6	79,7	116 100				10,0
12,0	83,1	79,5	114 600	82 900			12,0
14,0	81,6	79,2	113 100	82 100	63 100	50 300	14,0
16,0	80,1	78,8	107 200	81 400	62 700	50 000	16,0
18,0	78,6	78,4	90 300	76 500	62 200	49 700	18,0
20,0	77,1	78,0	79 000	67 600	60 100	49 400	20,0
22,0	75,6	77,4	70 200	60 700	54 200	48 300	22,0
24,0	74,0	76,9	63 000	55 000	49 400	44 400	24,0
26,0	72,5	76,2	57 200	50 200	45 400	40 900	26,0
28,0	71,0	75,6	52 200	46 200	41 900	38 000	28,0
30,0	69,4	74,8	48 100	42 800	38 900	35 400	30,0
32,0	67,8	74,0	43 900	39 800	36 300	33 200	32,0
34,0	66,2	73,1	39 900	36 600	34 000	31 200	34,0
36,0	64,6	72,2	36 400	33 500	31 500	29 300	36,0
38,0	62,9	71,1	33 300	30 800	28 900	27 200	38,0
40,0	61,2	70,0	30 600	28 300	26 700	25 100	40,0
42,0	59,5	68,9	28 100	26 100	24 600	23 200	42,0
44,0	57,8	67,6	25 900	24 100	22 700	21 500	44,0
46,0	56,0	66,3	23 900	22 200	21 000	19 900	46,0
48,0	54,2	64,8	22 100	20 600	19 500	18 400	48,0
50,0	52,4	63,3	20 400	19 000	18 000	17 100	50,0
52,0	50,5	61,7	18 900	17 600	16 700	15 800	52,0
54,0	48,5	59,9	17 500	16 300	15 500	14 700	54,0
56,0	46,5	58,0	16 200	15 100	14 300	13 600	56,0
58,0	44,4	56,0	14 900	14 000	13 300	12 600	58,0
60,0	42,2	53,8	13 800	12 900	12 300	11 700	60,0
62,0	40,0	51,4	12 700	11 900	11 400	10 800	62,0
64,0	37,6	48,9	11 800	11 000	10 500	10 000	64,0
66,0	35,0	46,1	10 800	10 200	9 700	9 200	66,0
68,0	32,3	43,0	9 900	9 300	8 900	8 500	68,0
70,0	29,4	39,5	9 100	8 600	8 200	7 800	70,0
72,0	26,2	35,6	8 300	7 800	7 500	7 100	72,0
74,0	22,5	31,0	7 600	7 200	6 800	6 500	74,0
76,0	18,1	25,4	6 900	6 500	6 200	5 900	76,0

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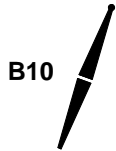
 m	 °	 m	 kg	 kg	 kg	 kg	 m
10,4	84,7	85,7	98 000				10,4
12,0	83,6	85,5	96 800	69 400			12,0
14,0	82,2	85,3	95 500	68 700	52 200		14,0
16,0	80,8	84,9	94 200	68 000	51 700	40 700	16,0
18,0	79,4	84,6	90 400	67 300	51 300	40 500	18,0
20,0	78,0	84,1	79 700	66 400	50 900	40 200	20,0
22,0	76,6	83,7	70 700	60 600	50 500	39 900	22,0
24,0	75,2	83,1	63 600	54 800	48 800	39 600	24,0
26,0	73,8	82,5	57 600	50 100	44 800	39 300	26,0
28,0	72,4	81,9	52 600	46 100	41 500	37 300	28,0
30,0	70,9	81,2	47 700	42 700	38 500	34 700	30,0
32,0	69,5	80,5	43 100	39 000	36 000	32 500	32,0
34,0	68,0	79,7	39 100	35 600	33 100	30 600	34,0
36,0	66,5	78,8	35 600	32 500	30 300	28 300	36,0
38,0	65,0	77,9	32 600	29 800	27 800	26 000	38,0
40,0	63,5	76,9	29 800	27 300	25 600	23 900	40,0
42,0	61,9	75,8	27 400	25 100	23 500	22 000	42,0
44,0	60,4	74,7	25 100	23 100	21 700	20 300	44,0
46,0	58,8	73,4	23 100	21 300	20 000	18 800	46,0
48,0	57,2	72,2	21 300	19 600	18 400	17 300	48,0
50,0	55,5	70,8	19 600	18 100	17 000	16 000	50,0
52,0	53,8	69,3	18 100	16 700	15 700	14 800	52,0
54,0	52,1	67,8	16 700	15 400	14 500	13 600	54,0
56,0	50,3	66,1	15 300	14 200	13 400	12 500	56,0
58,0	48,5	64,4	14 100	13 100	12 300	11 600	58,0
60,0	46,6	62,5	13 000	12 000	11 300	10 600	60,0
62,0	44,7	60,5	11 900	11 000	10 400	9 800	62,0
64,0	42,7	58,3	10 900	10 100	9 500	8 900	64,0
66,0	40,6	56,0	10 000	9 300	8 700	8 200	66,0
68,0	38,4	53,5	9 100	8 500	7 900	7 400	68,0
70,0	36,1	50,8	8 300	7 600	7 000	6 500	70,0
72,0	33,7	47,9	7 600	6 300	5 800	5 400	72,0
74,0	31,1	44,7	6 800	5 000			74,0
76,0	28,3	41,0	6 100				76,0
78,0	25,2	36,9	5 400				78,0

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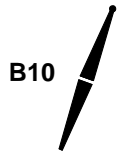
 m	 °	 m	 kg	 kg	 kg	 kg	 m
11,0	84,7	91,7	82 500				11,0
12,0	84,0	91,6	81 900				12,0
14,0	82,7	91,3	80 600	57 500	43 200		14,0
16,0	81,4	91,0	76 600	56 900	42 800	33 300	16,0
18,0	80,1	90,7	72 400	56 400	42 500	33 000	18,0
20,0	78,8	90,3	68 600	55 800	42 100	32 800	20,0
22,0	77,5	89,8	65 200	55 000	41 800	32 600	22,0
24,0	76,2	89,3	62 100	52 800	41 400	32 300	24,0
26,0	74,9	88,8	57 900	49 900	41 100	32 100	26,0
28,0	73,6	88,2	52 800	45 900	40 500	31 900	28,0
30,0	72,2	87,6	47 500	42 400	38 200	31 700	30,0
32,0	70,9	86,9	42 900	38 600	35 600	31 500	32,0
34,0	69,5	86,1	39 000	35 200	32 600	30 100	34,0
36,0	68,2	85,3	35 500	32 100	29 800	27 700	36,0
38,0	66,8	84,5	32 400	29 400	27 300	25 400	38,0
40,0	65,4	83,6	29 700	27 000	25 100	23 400	40,0
42,0	64,0	82,6	27 200	24 800	23 100	21 500	42,0
44,0	62,5	81,5	25 000	22 800	21 300	19 900	44,0
46,0	61,1	80,4	23 000	21 000	19 600	18 300	46,0
48,0	59,6	79,3	21 100	19 400	18 100	16 900	48,0
50,0	58,1	78,0	19 500	17 800	16 700	15 600	50,0
52,0	56,6	76,7	17 900	16 400	15 400	14 400	52,0
54,0	55,0	75,3	16 500	15 200	14 200	13 200	54,0
56,0	53,4	73,8	15 200	14 000	13 000	12 200	56,0
58,0	51,8	72,3	14 000	12 800	12 000	11 200	58,0
60,0	50,2	70,6	12 900	11 800	11 000	10 300	60,0
62,0	48,5	68,8	11 800	10 800	10 100	9 400	62,0
64,0	46,7	67,0	10 800	9 900	9 200	8 600	64,0
66,0	44,9	65,0	9 900	9 100	8 400	7 800	66,0
68,0	43,1	62,9	9 000	8 300	7 700	7 100	68,0
70,0	41,2	60,6	8 200	7 500	7 000	6 500	70,0
72,0	39,2	58,2	7 400	6 800	6 300	5 800	72,0
74,0	37,1	55,6	6 700	6 100	5 600	5 200	74,0
76,0	34,9	52,7	6 000	5 500	5 000	4 600	76,0
78,0	32,5	49,7	5 400				78,0
80,0	30,0	46,3	4 700				80,0

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 m	 °	 m	 kg	 kg	 kg	 kg	 m
			0°	1°	2°	3°	
11,0	85,0	97,7	71 000				11,0
12,0	84,4	97,6	70 500				12,0
14,0	83,2	97,4	69 400	47 800			14,0
16,0	82,0	97,1	68 400	47 400	35 600		16,0
18,0	80,8	96,8	67 500	46 900	35 300	26 900	18,0
20,0	79,6	96,4	66 500	46 500	34 900	26 600	20,0
22,0	78,3	96,0	65 500	46 000	34 600	26 400	22,0
24,0	77,1	95,5	63 700	45 600	34 300	26 200	24,0
26,0	75,9	95,0	58 400	45 200	34 000	26 000	26,0
28,0	74,6	94,5	52 100	44 600	33 700	25 800	28,0
30,0	73,4	93,9	46 700	41 700	33 400	25 600	30,0
32,0	72,1	93,2	42 200	37 600	33 100	25 400	32,0
34,0	70,9	92,5	38 200	34 100	31 500	25 200	34,0
36,0	69,6	91,8	34 700	31 100	28 700	25 000	36,0
38,0	68,3	91,0	31 600	28 400	26 200	24 200	38,0
40,0	67,0	90,1	28 900	26 000	24 000	22 200	40,0
42,0	65,7	89,2	26 400	23 800	22 000	20 400	42,0
44,0	64,4	88,3	24 200	21 900	20 200	18 700	44,0
46,0	63,1	87,3	22 200	20 100	18 600	17 200	46,0
48,0	61,7	86,2	20 300	18 400	17 100	15 800	48,0
50,0	60,3	85,1	18 700	16 900	15 700	14 500	50,0
52,0	58,9	83,9	17 100	15 500	14 400	13 300	52,0
54,0	57,5	82,6	15 700	14 200	13 200	12 200	54,0
56,0	56,1	81,2	14 400	13 000	12 100	11 100	56,0
58,0	54,6	79,8	13 200	11 900	11 000	10 100	58,0
60,0	53,1	78,3	12 000	10 900	10 000	9 200	60,0
62,0	51,6	76,8	11 000	9 900	9 100	8 400	62,0
64,0	50,1	75,1	10 000	9 000	8 300	7 600	64,0
66,0	48,5	73,3	9 100	8 100	7 500	6 800	66,0
68,0	46,8	71,5	8 200	7 300	6 700	6 100	68,0
70,0	45,2	69,5	7 400	6 600	6 000	5 400	70,0
72,0	43,4	67,4	6 600	5 900	5 300		72,0
74,0	41,6	65,2	5 900	5 200	4 700		74,0
76,0	39,8	62,8	5 200	4 600			76,0

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 m	 °	 m	 kg
11,6	84,9	103,7	59 800
12,0	84,7	103,6	59 600
14,0	83,6	103,4	58 700
16,0	82,4	103,1	57 700
18,0	81,3	102,8	56 800
20,0	80,2	102,5	54 400
22,0	79,0	102,1	51 700
24,0	77,9	101,7	49 200
26,0	76,7	101,2	46 800
28,0	75,6	100,7	44 700
30,0	74,4	100,1	42 800
32,0	73,2	99,5	40 900
34,0	72,0	98,9	38 100
36,0	70,9	98,2	34 500
38,0	69,7	97,4	31 400
40,0	68,4	96,6	28 700
42,0	67,2	95,8	26 200
44,0	66,0	94,9	24 000
46,0	64,8	94,0	22 000
48,0	63,5	93,0	20 100
50,0	62,2	91,9	18 400
52,0	60,9	90,8	16 900
54,0	59,6	89,6	15 500
56,0	58,3	88,4	14 200
58,0	57,0	87,1	13 000
60,0	55,6	85,7	11 800
62,0	54,2	84,3	10 800
64,0	52,8	82,8	9 800
66,0	51,4	81,2	8 900
68,0	49,9	79,5	8 000
70,0	48,4	77,8	7 200
72,0	46,9	75,9	6 400
74,0	45,3	73,9	5 700
76,0	43,7	71,9	5 000