

Liftcrane Boom Capacities

Boom No. B60:680

with Mast No. M10:684 or Mast No. M11:684

200 000 kg VPC (Variable Position Counterweight)

360 Degree Rating

**MLC650
VPC-MAX
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 3 is 13 600 kg or 27 200 kg with two part whip line. When Drum 1 or Drum 2 is used, capacity with single part whip line is 22 100 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 3 720 kg minimum weight and (c) require 7 030 kg minimum weight. **Caution: Do not operate in areas indicated by (b) or (c) 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. Refer to Boom Rigging **No. 81022686**, Mast Rigging **No. 81025005** or **No. 84050187**, Wire Rope Specifications chart **No. 9387-A**, Counterweight Arrangements chart **No. 9349-A**, and Wind Conditions chart **No. 9388-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 Specification chart **No. 9389-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 VPC-MAX, 11 125 mm crawlers, 1 524 mm or 2 032 mm treads, 11 m live mast, 36 m mast, 16 part boom hoist reeving, boom support straps, and 200 000 kg VPC.

Consult chart **No. 9676-AM** when jib No. 148 is attached.

Luffing Jib Backstay Deduct	
Boom Length (m)	Deduct (kg)
44,0	2 800
50,0	3 500
56,0	3 900
62,0	4 600
68,0	4 600
74,0	4 600
80,0	5 000
86,0	5 700
92,0	6 100
98,0	6 700
104,0	7 300
110,0	7 900
Deduct the appropriate value from capacities when luffing jib backstays are stored on boom.	

Deduct From Capacities When Jib No. 148 Is Attached	
Boom Length (m)	Deduct (kg)
12,0	8 800
18,0	12 900
24,0	16 800
30,0	20 500
36,0	25 500
42,0	28 800
Weight of jib and 2 950 kg suspended beneath jib point have been included in determination of deduct.	

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Refer to Table 1 (with luffing jib backstays stored) and Table 2 (without luffing jib backstays stored) 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.

Select counterweight position from Tables 1 or 2 that will allow raising and lowering of boom length. Counterweight position selection may be changed with boom on ground or while boom is within operating range of capacity chart.

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

Table 1a: With Luffing Jib Backstays

Over End or Side of Crawlers		
Boom Length (m)	11,8 m Counterweight Position	18,3 m Counterweight Position
	Block Weight (kg)	
44,0 - 50,0	21 000	21 000
56,0	10 200	21 000
62,0	7 300	21 000
68,0 - 80,0	#	21 000
86,0	#	10 200
92,0	Raising Not Permitted	10 200
98,0 - 104,0		#
110,0		
116,0		

Table 1b: With Luffing Jib Backstays

Over End of Blocked Crawlers		
Boom Length (m)	11,8 m Counterweight Position	18,3 m Counterweight Position
	Block Weight (kg)	
44,0 - 50,0	21 000	21 000
56,0	10 200	21 000
62,0	7 300	21 000
68,0 - 80,0	#	21 000
86,0	#	10 200
92,0	#	10 200
98,0 - 104,0	Raising Not Permitted	#
110,0		#
116,0		
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>		

Table 2a: Without Luffing Jib Backstays

Over End or Side of Crawlers		
Boom Length (m)	11,8 m Counterweight Position	18,3 m Counterweight Position
	Block Weight (kg)	
44,0 - 50,0	21 000	21 000
56,0 - 62,0	10 200	21 000
68,0 - 74,0	7 300	21 000
80,0 - 86,0	#	21 000
92,0	#	10 200
98,0	Raising Not Permitted	10 200
104,0		7 300
110,0		#
116,0		

Table 2b: Without Luffing Jib Backstays

Over End of Blocked Crawlers		
Boom Length (m)	11,8 m Counterweight Position	18,3 m Counterweight Position
	Block Weight (kg)	
44,0 - 50,0	21 000	21 000
56,0 - 62,0	10 200	21 000
68,0 - 74,0	7 300	21 000
80,0 - 86,0	#	21 000
92,0	#	10 200
98,0	#	10 200
104,0	Raising Not Permitted	7 300
110,0		#
116,0		#

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. B60:680



VPC (Variable Position Counterweight)



360 Degree Rating



Boom Length



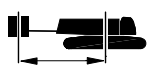
Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



Counterweight Position
from Axis of Rotation



Lifting Capacities
(see page 1)

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200 000 kg



360°

44,0 m				
m	°	m	kg	kg
8,5	82,7	46,6	467 500 c	662 300c
9,0	82,1	46,5	436 500 c	652 400c
9,5	81,4	46,4	406 700 c	629 100c
10,0	80,7	46,3	380 300 c	602 000c
10,5	80,1	46,2	356 700 c	576 800c
11,0	79,4	46,1	335 600 b	553 500b
11,5	78,7	46,0	316 800 b	532 100b
12,0	78,1	45,9	299 900 b	512 100b
12,5	77,4	45,8	285 100 b	494 100b
13,0	76,7	45,6	271 400	477 100
13,5	76,1	45,5	257 700	460 000
14,0	75,4	45,3	245 800	444 700
14,5	74,7	45,2	235 100	430 600
15,0	74,0	45,0	224 500	416 500
16,0	72,7	44,7	206 400	388 400
17,0	71,3	44,3	190 100	360 300
18,0	69,9	44,0	176 100	332 300
19,0	68,5	43,5	163 800	308 200
20,0	67,0	43,1	152 500	286 400
21,0	65,6	42,6	142 700	267 800
22,0	64,1	42,1	133 800	251 300
23,0	62,7	41,6	125 500	236 100
24,0	61,2	41,0	118 100	222 800
25,0	59,6	40,4	111 300	210 700
26,0	58,1	39,7	105 000	199 500
27,0	56,5	39,0	99 300	189 600
28,0	54,9	38,3	94 000	180 400
29,0	53,2	37,5	88 900	171 700
30,0	51,6	36,7	84 400	164 100
32,0	48,0	34,9	76 000	149 900
34,0	44,3	32,9	68 700	137 900
36,0	40,3	30,5	62 200	127 300
38,0	35,9	27,8	56 300	117 800
40,0	30,9	24,5	51 100	109 500
42,0	25,0	20,5	46 200	102 000
44,0	17,1	14,7	41 700	95 100

50,0 m				
m	°	m	kg	kg
9,1	82,9	52,6	427 200 b	613 600b
9,5	82,4	52,5	406 900 b	605 400b
10,0	81,9	52,4	380 300 b	587 400b
10,5	81,3	52,3	356 600 b	563 500b
11,0	80,7	52,2	335 300	541 200
11,5	80,1	52,1	316 500	520 600
12,0	79,5	52,0	299 400	501 500
12,5	78,9	51,9	284 600	484 100
13,0	78,4	51,8	270 800	467 700
13,5	77,8	51,7	257 100	451 200
14,0	77,2	51,5	245 000	436 300
14,5	76,6	51,4	234 300	422 700
15,0	76,0	51,3	223 600	409 000
16,0	74,8	51,0	205 500	384 200
17,0	73,6	50,7	189 100	359 300
18,0	72,4	50,3	175 100	331 300
19,0	71,2	50,0	162 700	307 200
20,0	69,9	49,6	151 400	285 400
21,0	68,7	49,2	141 500	266 800
22,0	67,5	48,7	132 500	250 200
23,0	66,2	48,3	124 200	234 900
24,0	64,9	47,8	116 800	221 700
25,0	63,6	47,3	110 000	209 600
26,0	62,3	46,7	103 700	198 400
27,0	61,0	46,1	98 000	188 500
28,0	59,7	45,5	92 600	179 200
29,0	58,3	44,9	87 600	170 600
30,0	56,9	44,2	83 000	162 900
32,0	54,1	42,8	74 600	148 800
34,0	51,1	41,1	67 400	136 800
36,0	48,0	39,3	60 900	126 200
38,0	44,8	37,3	55 000	116 700
40,0	41,3	35,1	49 800	108 400
42,0	37,6	32,5	45 100	100 900
44,0	33,5	29,5	40 800	94 200
46,0	28,8	26,0	36 800	88 100
48,0	23,3	21,6	33 100	82 500

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200 000 kg



360°

56,0 m				
m	°	m	kg	kg
9,8	83,0	58,5	391 800	572 800
10,0	82,7	58,5	379 600	566 100
10,5	82,2	58,4	355 800	550 300
11,0	81,7	58,3	334 400	528 900
11,5	81,2	58,2	315 500	509 200
12,0	80,7	58,1	298 400	490 800
12,5	80,1	58,0	283 500	474 000
13,0	79,6	57,9	269 700	458 100
13,5	79,1	57,8	255 800	442 300
14,0	78,6	57,7	243 800	427 900
14,5	78,1	57,6	233 000	414 600
15,0	77,5	57,5	222 300	401 300
16,0	76,5	57,2	204 100	377 900
17,0	75,4	56,9	187 600	354 700
18,0	74,3	56,6	173 500	329 300
19,0	73,3	56,3	161 100	305 800
20,0	72,2	56,0	149 700	284 000
21,0	71,1	55,6	139 800	265 400
22,0	70,0	55,2	130 800	248 800
23,0	68,9	54,8	122 400	233 500
24,0	67,8	54,4	115 100	220 300
25,0	66,7	54,0	108 200	208 200
26,0	65,5	53,5	101 800	196 900
27,0	64,4	53,0	96 100	187 000
28,0	63,2	52,5	90 800	177 800
29,0	62,1	51,9	85 700	169 100
30,0	60,9	51,3	81 200	161 400
32,0	58,5	50,1	72 800	147 300
34,0	56,0	48,7	65 500	135 300
36,0	53,5	47,3	59 000	124 700
38,0	50,8	45,6	53 200	115 200
40,0	48,1	43,8	48 000	106 900
42,0	45,2	41,8	43 300	99 500
44,0	42,1	39,6	39 000	92 700
46,0	38,9	37,2	35 100	86 700
48,0	35,4	34,4	31 500	81 200
50,0	31,5	31,2	28 200	76 100
52,0	27,1	27,4	25 000	71 300
54,0	21,9	22,7	22 100	67 000

62,0 m				
m	°	m	kg	kg
11,0	82,5	64,4	335 700	516 900
11,5	82,1	64,3	315 600	497 100
12,0	81,6	64,2	298 400	479 600
12,5	81,1	64,1	283 400	463 600
13,0	80,6	64,1	269 500	448 300
13,5	80,2	64,0	255 600	433 100
14,0	79,7	63,9	243 400	419 300
14,5	79,2	63,8	232 600	406 500
15,0	78,8	63,6	221 800	393 700
16,0	77,8	63,4	203 500	371 000
17,0	76,9	63,2	186 900	349 300
18,0	75,9	62,9	172 800	327 700
19,0	74,9	62,6	160 300	305 300
20,0	74,0	62,3	148 800	283 400
21,0	73,0	62,0	138 800	264 800
22,0	72,0	61,6	129 800	248 100
23,0	71,0	61,3	121 400	232 800
24,0	70,1	60,9	114 000	219 500
25,0	69,1	60,5	107 100	207 400
26,0	68,1	60,1	100 700	196 100
27,0	67,1	59,7	95 000	186 200
28,0	66,0	59,2	89 600	176 900
29,0	65,0	58,7	84 500	168 300
30,0	64,0	58,2	79 900	160 500
32,0	61,9	57,1	71 500	146 400
34,0	59,7	55,9	64 200	134 300
36,0	57,5	54,7	57 700	123 700
38,0	55,3	53,3	51 800	114 200
40,0	53,0	51,7	46 600	105 900
42,0	50,6	50,1	41 900	98 500
44,0	48,1	48,3	37 600	91 700
46,0	45,5	46,3	33 700	85 600
48,0	42,8	44,2	30 200	80 100
50,0	39,9	41,8	26 900	75 000
52,0	36,8	39,1	23 700	70 300
54,0	33,5	36,2	20 900	66 000
56,0	29,9	32,7	18 200	62 000
58,0	25,7	28,7	15 700	58 300
60,0	20,8	23,8	13 300	54 800

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200 000 kg



360°

68,0 m				
m	°	m	kg	kg
11,6	82,7	70,4	313 800	482 300
12,0	82,3	70,3	299 600	468 600
12,5	81,9	70,2	284 500	453 400
13,0	81,5	70,2	270 600	439 000
13,5	81,1	70,1	256 600	424 500
14,0	80,6	70,0	244 400	411 300
14,5	80,2	69,9	233 500	399 000
15,0	79,8	69,8	222 700	386 800
16,0	78,9	69,6	204 200	364 900
17,0	78,0	69,3	187 600	344 600
18,0	77,2	69,1	173 400	326 500
19,0	76,3	68,8	160 800	305 400
20,0	75,4	68,6	149 300	283 800
21,0	74,6	68,3	139 300	265 100
22,0	73,7	68,0	130 200	248 500
23,0	72,8	67,7	121 800	233 100
24,0	71,9	67,3	114 300	219 800
25,0	71,0	67,0	107 400	207 700
26,0	70,1	66,6	101 000	196 400
27,0	69,2	66,2	95 200	186 400
28,0	68,3	65,8	89 800	177 100
29,0	67,4	65,3	84 700	168 400
30,0	66,4	64,9	80 100	160 700
32,0	64,6	63,9	71 600	146 500
34,0	62,7	62,9	64 300	134 400
36,0	60,7	61,7	57 800	123 800
38,0	58,8	60,5	51 900	114 300
40,0	56,7	59,2	46 700	106 000
42,0	54,7	57,8	42 000	98 500
44,0	52,5	56,2	37 700	91 700
46,0	50,4	54,6	33 800	85 700
48,0	48,1	52,8	30 200	80 200
50,0	45,7	50,8	26 900	75 100
52,0	43,3	48,7	23 800	70 300
54,0	40,7	46,4	21 000	66 100
56,0	38,0	43,8	18 400	62 100
58,0	35,1	41,0	15 900	58 400
60,0	31,9	37,9	13 600	55 000
62,0	28,4	34,2	11 400	51 700
64,0	24,5	30,0	9 300	48 700
66,0	19,8	24,8		45 900

74,0 m				
m	°	m	kg	kg
12,2	82,8	76,4	292 500	433 800
12,5	82,6	76,3	283 900	428 600
13,0	82,2	76,2	269 800	420 100
13,5	81,8	76,2	255 800	411 600
14,0	81,4	76,1	243 500	401 300
14,5	81,0	76,0	232 600	389 600
15,0	80,6	75,9	221 700	377 900
16,0	79,8	75,7	203 200	357 000
17,0	79,0	75,5	186 500	337 500
18,0	78,2	75,3	172 200	320 000
19,0	77,4	75,0	159 600	301 700
20,0	76,6	74,8	148 100	283 000
21,0	75,8	74,5	138 000	264 300
22,0	75,0	74,2	128 900	247 600
23,0	74,2	73,9	120 400	232 200
24,0	73,4	73,6	112 900	218 900
25,0	72,6	73,3	106 000	206 700
26,0	71,8	73,0	99 500	195 300
27,0	71,0	72,6	93 700	185 400
28,0	70,1	72,2	88 300	176 100
29,0	69,3	71,8	83 200	167 400
30,0	68,5	71,4	78 600	159 600
32,0	66,8	70,6	70 100	145 400
34,0	65,1	69,6	62 700	133 300
36,0	63,3	68,6	56 100	122 600
38,0	61,6	67,5	50 300	113 100
40,0	59,8	66,3	45 000	104 800
42,0	57,9	65,1	40 300	97 300
44,0	56,1	63,7	36 000	90 500
46,0	54,2	62,3	32 100	84 400
48,0	52,2	60,7	28 500	78 900
50,0	50,2	59,1	25 200	73 800
52,0	48,1	57,3	22 100	69 100
54,0	45,9	55,3	19 300	64 800
56,0	43,7	53,2	16 700	60 900
58,0	41,4	51,0	14 200	57 100
60,0	38,9	48,5	12 000	53 700
62,0	36,3	45,8	9 800	50 500
64,0	33,5	42,8	7 700	47 500
66,0	30,5	39,5		44 700
68,0	27,2	35,7		42 000
70,0	23,4	31,2		39 500

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B60



200 000 kg



360°

80,0 m				
m	°	m	kg	kg
13,7	82,2	82,2	249 500	367 100
14,0	82,0	82,2	243 300	366 600
14,5	81,7	82,1	232 300	365 800
15,0	81,3	82,0	221 400	364 900
16,0	80,6	81,8	202 800	349 800
17,0	79,9	81,6	186 000	331 100
18,0	79,1	81,4	171 700	314 200
19,0	78,4	81,2	159 100	298 500
20,0	77,7	81,0	147 500	282 600
21,0	76,9	80,7	137 400	263 900
22,0	76,2	80,5	128 200	247 100
23,0	75,4	80,2	119 700	231 800
24,0	74,7	79,9	112 200	218 400
25,0	74,0	79,6	105 300	206 200
26,0	73,2	79,3	98 800	194 800
27,0	72,5	79,0	93 000	184 800
28,0	71,7	78,6	87 500	175 500
29,0	70,9	78,3	82 400	166 800
30,0	70,2	77,9	77 800	159 100
32,0	68,6	77,1	69 200	144 800
34,0	67,1	76,3	61 900	132 700
36,0	65,5	75,3	55 300	122 000
38,0	63,9	74,3	49 400	112 500
40,0	62,3	73,3	44 200	104 200
42,0	60,6	72,1	39 400	96 700
44,0	59,0	70,9	35 100	89 900
46,0	57,2	69,6	31 200	83 800
48,0	55,5	68,3	27 700	78 300
50,0	53,7	66,8	24 400	73 200
52,0	51,9	65,2	21 300	68 400
54,0	50,0	63,5	18 500	64 200
56,0	48,1	61,7	15 900	60 200
58,0	46,1	59,8	13 400	56 500
60,0	44,1	57,7	11 100	53 100
62,0	41,9	55,5	9 000	49 900
64,0	39,7	53,1	6 900	46 900
66,0	37,3	50,5		44 100
68,0	34,8	47,7		41 400
70,0	32,2	44,5		38 900
74,0	26,1	37,0		34 400

86,0 m				
m	°	m	kg	kg
13,7	82,8	88,3	269 800	311 500
14,0	82,6	88,2	263 100	311 500
14,5	82,3	88,2	251 400	311 500
15,0	81,9	88,1	239 600	311 500
16,0	81,3	87,9	219 600	311 500
17,0	80,6	87,7	201 600	310 100
18,0	79,9	87,5	186 100	304 300
19,0	79,2	87,3	172 500	292 300
20,0	78,5	87,1	160 100	277 700
21,0	77,9	86,9	149 200	261 800
22,0	77,2	86,7	139 300	246 000
23,0	76,5	86,4	130 200	230 600
24,0	75,8	86,2	122 100	217 200
25,0	75,1	85,9	114 700	205 000
26,0	74,4	85,6	107 700	193 600
27,0	73,7	85,3	101 400	183 600
28,0	73,0	85,0	95 600	174 300
29,0	72,3	84,6	90 100	165 500
30,0	71,6	84,3	85 100	157 800
32,0	70,2	83,6	75 900	143 500
34,0	68,8	82,8	68 000	131 300
36,0	67,3	81,9	60 900	120 600
38,0	65,9	81,0	54 600	111 100
40,0	64,4	80,1	49 000	102 800
42,0	62,9	79,0	43 900	95 200
44,0	61,4	77,9	39 200	88 400
46,0	59,8	76,8	35 100	82 300
48,0	58,2	75,5	31 200	76 800
50,0	56,6	74,2	27 700	71 700
52,0	55,0	72,8	24 400	67 000
54,0	53,4	71,3	21 400	62 700
56,0	51,7	69,7	18 600	58 800
58,0	49,9	68,0	15 900	55 000
60,0	48,1	66,2	13 500	51 600
62,0	46,3	64,3	11 200	48 400
64,0	44,4	62,3	9 100	45 400
66,0	42,4	60,1		42 600
68,0	40,3	57,7		40 000
70,0	38,2	55,2		37 500
74,0	33,5	49,5		32 900
78,0	28,2	42,5		28 900
82,0	21,6	33,5		25 100

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200 000 kg



360°

92,0 m				
m	°	m	kg	kg
15,2	82,3	94,1	233 400	267 500
16,0	81,8	94,0	219 000	267 500
17,0	81,2	93,8	200 900	267 500
18,0	80,6	93,6	185 500	267 500
19,0	79,9	93,4	171 800	267 500
20,0	79,3	93,2	159 300	266 000
21,0	78,7	93,0	148 400	258 500
22,0	78,0	92,8	138 500	245 500
23,0	77,4	92,6	129 400	230 000
24,0	76,7	92,3	121 300	216 600
25,0	76,1	92,1	113 800	204 400
26,0	75,5	91,8	106 800	193 000
27,0	74,8	91,5	100 500	183 000
28,0	74,2	91,2	94 700	173 600
29,0	73,5	90,9	89 100	164 900
30,0	72,9	90,6	84 100	157 100
32,0	71,5	89,9	74 900	142 800
34,0	70,2	89,2	67 000	130 600
36,0	68,9	88,4	59 900	119 900
38,0	67,5	87,6	53 600	110 400
40,0	66,2	86,7	47 900	102 000
42,0	64,8	85,7	42 900	94 500
44,0	63,4	84,7	38 200	87 700
46,0	62,0	83,6	34 000	81 600
48,0	60,5	82,5	30 200	76 100
50,0	59,1	81,3	26 700	71 000
52,0	57,6	80,0	23 300	66 200
54,0	56,1	78,7	20 400	62 000
56,0	54,6	77,3	17 600	58 000
58,0	53,0	75,7	14 900	54 200
60,0	51,4	74,1	12 500	50 800
62,0	49,8	72,4	10 200	47 600
64,0	48,1	70,6	8 000	44 600
66,0	46,4	68,7		41 900
68,0	44,6	66,7		39 200
70,0	42,8	64,6		36 700
74,0	38,9	59,8		32 200
78,0	34,7	54,3		28 100
82,0	29,9	47,7		24 400
86,0	24,2	39,6		21 100

98,0 m				
m	°	m	kg	kg
15,2	82,8	100,2	229 900	229 900
16,0	82,3	100,0	216 400	229 900
17,0	81,7	99,9	199 300	229 900
18,0	81,1	99,7	183 700	229 900
19,0	80,6	99,5	170 100	229 900
20,0	80,0	99,4	157 500	229 900
21,0	79,4	99,2	146 600	229 900
22,0	78,8	99,0	136 700	229 900
23,0	78,2	98,7	127 500	228 100
24,0	77,6	98,5	119 300	215 100
25,0	77,0	98,3	111 800	203 000
26,0	76,4	98,0	104 800	191 600
27,0	75,8	97,7	98 500	181 600
28,0	75,2	97,5	92 600	172 200
29,0	74,5	97,2	87 100	163 400
30,0	73,9	96,9	82 100	155 600
32,0	72,7	96,3	72 900	141 300
34,0	71,5	95,6	64 900	129 100
36,0	70,2	94,9	57 800	118 400
38,0	69,0	94,1	51 500	108 900
40,0	67,7	93,2	45 800	100 500
42,0	66,4	92,4	40 700	92 900
44,0	65,1	91,4	36 000	86 100
46,0	63,8	90,4	31 800	80 000
48,0	62,5	89,4	28 000	74 500
50,0	61,2	88,3	24 500	69 400
52,0	59,8	87,1	21 100	64 600
54,0	58,5	85,9	18 200	60 300
56,0	57,1	84,6	15 400	56 400
58,0	55,6	83,2	12 700	52 600
60,0	54,2	81,8	10 300	49 200
62,0	52,7	80,2		46 000
64,0	51,2	78,6		43 000
66,0	49,7	76,9		40 200
68,0	48,1	75,1		37 600
70,0	46,5	73,2		35 100
74,0	43,1	69,1		30 600
78,0	39,5	64,4		26 500
82,0	35,6	59,0		22 800
86,0	31,3	52,8		19 500
90,0	26,3	45,3		16 500
94,0	20,2	35,6		13 700

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200 000 kg



360°

104,0 m				
m	°	m	kg	kg
16,8	82,4	106,0	209 200	209 200
17,0	82,2	106,0	206 900	209 200
18,0	81,7	105,8	197 000	209 200
19,0	81,1	105,6	184 300	209 200
20,0	80,5	105,5	170 900	209 200
21,0	80,0	105,3	159 200	209 200
22,0	79,4	105,1	148 600	209 200
23,0	78,9	104,9	138 700	209 200
24,0	78,3	104,7	130 100	209 200
25,0	77,7	104,4	122 000	202 200
26,0	77,2	104,2	114 500	190 900
27,0	76,6	104,0	107 800	180 900
28,0	76,0	103,7	101 500	171 500
29,0	75,5	103,4	95 600	162 700
30,0	74,9	103,1	90 200	154 900
32,0	73,7	102,6	80 400	140 600
34,0	72,6	101,9	71 900	128 400
36,0	71,4	101,2	64 300	117 600
38,0	70,2	100,5	57 500	108 100
40,0	69,1	99,7	51 500	99 700
42,0	67,9	98,9	46 000	92 100
44,0	66,7	98,1	41 000	85 300
46,0	65,5	97,1	36 500	79 200
48,0	64,2	96,2	32 500	73 600
50,0	63,0	95,1	28 700	68 500
52,0	61,7	94,1	25 100	63 800
54,0	60,5	92,9	21 900	59 500
56,0	59,2	91,7	19 000	55 500
58,0	57,9	90,5	16 100	51 800
60,0	56,6	89,1	13 600	48 400
62,0	55,2	87,7	11 100	45 200
64,0	53,9	86,3	8 800	42 100
66,0	52,5	84,7		39 400
68,0	51,1	83,1		36 700
70,0	49,6	81,4		34 200
74,0	46,6	77,7		29 700
78,0	43,4	73,6		25 700
82,0	40,1	69,0		22 000
86,0	36,5	63,8		18 700
90,0	32,5	57,8		15 700
94,0	28,0	50,7		12 900
98,0	22,7	42,0		10 300

110,0 m				
m	°	m	kg	kg
18,3	82,0	111,8	182 300	182 300
19,0	81,6	111,7	177 100	182 300
20,0	81,1	111,6	168 900	182 300
21,0	80,5	111,4	157 100	182 300
22,0	80,0	111,2	146 500	182 300
23,0	79,5	111,0	136 600	182 300
24,0	78,9	110,8	127 900	182 300
25,0	78,4	110,6	119 800	182 300
26,0	77,9	110,4	112 300	181 900
27,0	77,3	110,1	105 600	177 100
28,0	76,8	109,9	99 300	170 000
29,0	76,3	109,6	93 300	161 200
30,0	75,7	109,4	88 000	153 400
32,0	74,7	108,8	78 100	139 000
34,0	73,6	108,2	69 500	126 800
36,0	72,5	107,6	61 900	116 000
38,0	71,4	106,9	55 100	106 400
40,0	70,3	106,2	49 100	98 000
42,0	69,1	105,4	43 600	90 400
44,0	68,0	104,6	38 600	83 600
46,0	66,9	103,7	34 100	77 500
48,0	65,7	102,8	30 000	71 900
50,0	64,6	101,9	26 300	66 800
52,0	63,4	100,9	22 700	62 000
54,0	62,2	99,8	19 500	57 800
56,0	61,1	98,7	16 500	53 800
58,0	59,8	97,5	13 700	50 000
60,0	58,6	96,3	11 100	46 600
62,0	57,4	95,0		43 400
64,0	56,1	93,7		40 400
66,0	54,9	92,3		37 600
68,0	53,6	90,8		35 000
70,0	52,2	89,2		32 500
74,0	49,5	85,9		28 000
78,0	46,7	82,2		23 900
82,0	43,7	78,1		20 300
86,0	40,6	73,6		17 000
90,0	37,2	68,5		14 000
94,0	33,5	62,7		11 200
98,0	29,5	56,0		8 700

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200 000 kg



360°

m	o	m	kg	kg
18,3	82,4	117,9	157 900	157 900
19,0	82,0	117,8	157 900	157 900
20,0	81,5	117,6	157 300	157 900
21,0	81,0	117,5	154 500	157 900
22,0	80,5	117,3	146 800	157 900
23,0	80,0	117,1	136 900	157 900
24,0	79,5	116,9	128 200	157 900
25,0	79,0	116,7	120 100	157 900
26,0	78,5	116,5	112 600	157 900
27,0	78,0	116,3	105 800	157 900
28,0	77,5	116,1	99 500	157 900
29,0	77,0	115,8	93 500	157 600
30,0	76,5	115,6	88 200	152 400
32,0	75,5	115,1	78 300	139 200
34,0	74,4	114,5	69 700	127 000
36,0	73,4	113,9	62 100	116 200
38,0	72,4	113,2	55 300	106 600
40,0	71,3	112,6	49 200	98 200
42,0	70,3	111,8	43 800	90 600
44,0	69,2	111,1	38 800	83 800
46,0	68,2	110,3	34 300	77 600
48,0	67,1	109,4	30 200	72 100
50,0	66,0	108,5	26 400	67 000
52,0	64,9	107,6	22 900	62 200
54,0	63,8	106,6	19 700	57 900
56,0	62,7	105,5	16 700	53 900
58,0	61,6	104,5	13 800	50 200
60,0	60,4	103,3	11 300	46 800
62,0	59,3	102,1		43 600
64,0	58,1	100,9		40 500
66,0	56,9	99,6		37 800
68,0	55,7	98,2		35 100
70,0	54,5	96,8		32 600
74,0	52,0	93,7		28 100
78,0	49,5	90,4		24 100
82,0	46,8	86,7		20 500
86,0	44,0	82,6		17 200
90,0	41,0	78,2		14 200
94,0	37,8	73,2		11 400
98,0	34,4	67,6		8 900