

Liftcrane Boom Capacities

Boom No. B60:680

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

300 000 kg VPC (Variable Position Counterweight)

360 Degree Rating

**MLC650
VPC-MAX
SERIES 2**



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 300 000 kg VPC.

Consult chart **No. 9675-AM** when jib No. 148 is attached.

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ASME B30.5



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
116,0	7 900
122,0	7 900
128,0	7 900
134,0	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 - 62,0	21 000	21 000
68,0 - 74,0	10 200	21 000
80,0	7 300	21 000
86,0 - 98,0	#	21 000
104,0	#	10 200
110,0	Raising Not Permitted	10 200
116,0		7 300
122,0		#
128,0		#
134,0		
140,0		

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 - 62,0	21 000	21 000
68,0 - 74,0	10 200	21 000
80,0	7 300	21 000
86,0 - 98,0	#	21 000
104,0	#	10 200
110,0	#	10 200
116,0	Raising Not Permitted	7 300
122,0		#
128,0		#
134,0		#
140,0		
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>		

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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 - 68,0	21 000	21 000
74,0 - 80,0	10 200	21 000
86,0 - 104,0	7 300	21 000
110,0	#	10 200
116,0	Raising Not Permitted	10 200
122,0		10 200
128,0		7 300
134,0		#
140,0		

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 - 68,0	21 000	21 000
74,0 - 80,0	10 200	21 000
86,0 - 104,0	7 300	21 000
110,0	#	10 200
116,0	#	10 200
122,0	Raising Not Permitted	10 200
128,0		7 300
134,0		#
140,0		#
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



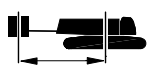
Operating Radius
(see page 1)



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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B60



300 000 kg



360°

44,0 m				
m	°	m	kg	kg
8,5	82,7	46,6	643 300 c	662 300c
9,0	82,1	46,5	601 500 c	662 300c
9,5	81,4	46,4	561 400 c	652 700c
10,0	80,7	46,3	525 800 c	639 200c
10,5	80,1	46,2	494 000 c	629 200c
11,0	79,4	46,1	465 500 b	629 200b
11,5	78,7	46,0	440 200 b	629 200b
12,0	78,1	45,9	417 400 b	626 400b
12,5	77,4	45,8	397 500 b	612 400b
13,0	76,7	45,6	379 000	591 700
13,5	76,1	45,5	360 600	571 000
14,0	75,4	45,3	344 500	552 000
14,5	74,7	45,2	330 200	534 400
15,0	74,0	45,0	315 800	516 800
16,0	72,7	44,7	291 500	484 800
17,0	71,3	44,3	269 500	454 900
18,0	69,9	44,0	250 700	428 900
19,0	68,5	43,5	234 200	405 600
20,0	67,0	43,1	218 900	384 100
21,0	65,6	42,6	205 700	365 000
22,0	64,1	42,1	193 700	345 100
23,0	62,7	41,6	182 500	325 100
24,0	61,2	41,0	172 600	307 500
25,0	59,6	40,4	163 500	291 300
26,0	58,1	39,7	155 000	276 300
27,0	56,5	39,0	147 300	263 100
28,0	54,9	38,3	140 200	250 800
29,0	53,2	37,5	133 400	239 300
30,0	51,6	36,7	127 300	229 100
32,0	48,0	34,9	116 000	210 200
34,0	44,3	32,9	106 300	194 200
36,0	40,3	30,5	97 500	180 000
38,0	35,9	27,8	89 700	167 500
40,0	30,9	24,5	82 600	156 400
42,0	25,0	20,5	76 200	146 400
44,0	17,1	14,7	70 100	137 300

50,0 m				
m	°	m	kg	kg
9,1	82,9	52,6	589 600 b	613 600b
9,5	82,4	52,5	562 300 b	613 100b
10,0	81,9	52,4	526 400 b	606 600b
10,5	81,3	52,3	494 500 b	594 300b
11,0	80,7	52,2	465 800	583 000
11,5	80,1	52,1	440 400	581 600
12,0	79,5	52,0	417 500	581 400
12,5	78,9	51,9	397 500	575 300
13,0	78,4	51,8	378 900	565 400
13,5	77,8	51,7	360 400	555 500
14,0	77,2	51,5	344 200	541 800
14,5	76,6	51,4	329 800	525 200
15,0	76,0	51,3	315 400	508 600
16,0	74,8	51,0	290 900	479 400
17,0	73,6	50,7	268 900	452 000
18,0	72,4	50,3	250 000	426 800
19,0	71,2	50,0	233 300	403 800
20,0	69,9	49,6	218 100	382 200
21,0	68,7	49,2	204 700	363 100
22,0	67,5	48,7	192 700	343 600
23,0	66,2	48,3	181 500	324 000
24,0	64,9	47,8	171 600	306 400
25,0	63,6	47,3	162 400	290 200
26,0	62,3	46,7	153 800	275 200
27,0	61,0	46,1	146 200	262 000
28,0	59,7	45,5	139 000	249 700
29,0	58,3	44,9	132 200	238 200
30,0	56,9	44,2	126 100	227 900
32,0	54,1	42,8	114 800	209 100
34,0	51,1	41,1	105 100	193 100
36,0	48,0	39,3	96 400	178 900
38,0	44,8	37,3	88 500	166 300
40,0	41,3	35,1	81 600	155 300
42,0	37,6	32,5	75 200	145 300
44,0	33,5	29,5	69 400	136 300
46,0	28,8	26,0	64 100	128 200
48,0	23,3	21,6	59 200	120 900

MLC650 VPC-MAX S-2

ASME B30.5



B60



300 000 kg



360°

56,0 m				
m	°	m	kg	kg
9,8	83,0	58,5	542 800	572 800
10,0	82,7	58,5	526 400	571 400
10,5	82,2	58,4	494 300	566 200
11,0	81,7	58,3	465 500	555 300
11,5	81,2	58,2	440 000	544 900
12,0	80,7	58,1	416 900	539 900
12,5	80,1	58,0	396 800	538 400
13,0	79,6	57,9	378 200	538 400
13,5	79,1	57,8	359 600	538 400
14,0	78,6	57,7	343 300	529 700
14,5	78,1	57,6	328 800	514 300
15,0	77,5	57,5	314 400	498 800
16,0	76,5	57,2	289 800	470 800
17,0	75,4	56,9	267 600	444 500
18,0	74,3	56,6	248 700	421 100
19,0	73,3	56,3	232 000	400 000
20,0	72,2	56,0	216 600	380 000
21,0	71,1	55,6	203 300	361 000
22,0	70,0	55,2	191 200	341 700
23,0	68,9	54,8	179 900	322 600
24,0	67,8	54,4	170 000	304 900
25,0	66,7	54,0	160 800	288 800
26,0	65,5	53,5	152 200	273 800
27,0	64,4	53,0	144 500	260 600
28,0	63,2	52,5	137 300	248 300
29,0	62,1	51,9	130 500	236 700
30,0	60,9	51,3	124 400	226 400
32,0	58,5	50,1	113 100	207 600
34,0	56,0	48,7	103 300	191 600
36,0	53,5	47,3	94 600	177 400
38,0	50,8	45,6	86 800	164 900
40,0	48,1	43,8	79 800	153 800
42,0	45,2	41,8	73 500	143 900
44,0	42,1	39,6	67 800	134 900
46,0	38,9	37,2	62 600	126 800
48,0	35,4	34,4	57 800	119 500
50,0	31,5	31,2	53 300	112 800
52,0	27,1	27,4	49 100	106 400
54,0	21,9	22,7	45 300	100 700

62,0 m				
m	°	m	kg	kg
11,0	82,5	64,4	467 500	527 700
11,5	82,1	64,3	440 500	517 700
12,0	81,6	64,2	417 300	508 600
12,5	81,1	64,1	397 100	505 100
13,0	80,6	64,1	378 400	505 100
13,5	80,2	64,0	359 700	505 100
14,0	79,7	63,9	343 300	500 700
14,5	79,2	63,8	328 700	493 100
15,0	78,8	63,6	314 200	485 500
16,0	77,8	63,4	289 500	461 900
17,0	76,9	63,2	267 200	436 500
18,0	75,9	62,9	248 200	413 900
19,0	74,9	62,6	231 400	393 400
20,0	74,0	62,3	216 000	374 100
21,0	73,0	62,0	202 500	356 800
22,0	72,0	61,6	190 400	339 400
23,0	71,0	61,3	179 100	321 900
24,0	70,1	60,9	169 100	304 200
25,0	69,1	60,5	159 800	288 000
26,0	68,1	60,1	151 200	273 000
27,0	67,1	59,7	143 500	259 700
28,0	66,0	59,2	136 300	247 400
29,0	65,0	58,7	129 400	235 800
30,0	64,0	58,2	123 300	225 500
32,0	61,9	57,1	111 900	206 700
34,0	59,7	55,9	102 100	190 600
36,0	57,5	54,7	93 400	176 400
38,0	55,3	53,3	85 500	163 900
40,0	53,0	51,7	78 600	152 800
42,0	50,6	50,1	72 300	142 900
44,0	48,1	48,3	66 500	133 800
46,0	45,5	46,3	61 300	125 800
48,0	42,8	44,2	56 500	118 500
50,0	39,9	41,8	52 100	111 700
52,0	36,8	39,1	48 000	105 400
54,0	33,5	36,2	44 200	99 800
56,0	29,9	32,7	40 700	94 500
58,0	25,7	28,7	37 300	89 500
60,0	20,8	23,8	34 100	84 900

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ASME B30.5



B60



300 000 kg



360°

68,0 m				
m	°	m	kg	kg
11,6	82,7	70,4	437 900	490 300
12,0	82,3	70,3	418 900	483 500
12,5	81,9	70,2	398 500	476 000
13,0	81,5	70,2	379 800	469 000
13,5	81,1	70,1	361 000	462 000
14,0	80,6	70,0	344 500	458 900
14,5	80,2	69,9	329 900	458 900
15,0	79,8	69,8	315 300	458 900
16,0	78,9	69,6	290 500	446 700
17,0	78,0	69,3	268 100	429 200
18,0	77,2	69,1	249 000	407 400
19,0	76,3	68,8	232 100	387 600
20,0	75,4	68,6	216 600	369 000
21,0	74,6	68,3	203 100	352 200
22,0	73,7	68,0	190 900	336 700
23,0	72,8	67,7	179 600	321 400
24,0	71,9	67,3	169 600	304 300
25,0	71,0	67,0	160 300	288 300
26,0	70,1	66,6	151 600	273 200
27,0	69,2	66,2	143 900	259 900
28,0	68,3	65,8	136 600	247 600
29,0	67,4	65,3	129 800	236 000
30,0	66,4	64,9	123 600	225 700
32,0	64,6	63,9	112 200	206 800
34,0	62,7	62,9	102 400	190 700
36,0	60,7	61,7	93 600	176 600
38,0	58,8	60,5	85 700	163 900
40,0	56,7	59,2	78 700	152 900
42,0	54,7	57,8	72 400	142 900
44,0	52,5	56,2	66 600	133 900
46,0	50,4	54,6	61 400	125 800
48,0	48,1	52,8	56 700	118 500
50,0	45,7	50,8	52 300	111 800
52,0	43,3	48,7	48 100	105 500
54,0	40,7	46,4	44 400	99 800
56,0	38,0	43,8	40 900	94 500
58,0	35,1	41,0	37 600	89 600
60,0	31,9	37,9	34 500	85 100
62,0	28,4	34,2	31 600	80 800
64,0	24,5	30,0	28 800	76 700
66,0	19,8	24,8	26 200	73 000

74,0 m				
m	°	m	kg	kg
12,2	82,8	76,4	409 800	433 800
12,5	82,6	76,3	398 200	433 800
13,0	82,2	76,2	379 300	433 800
13,5	81,8	76,2	360 400	433 800
14,0	81,4	76,1	343 900	433 600
14,5	81,0	76,0	329 300	433 300
15,0	80,6	75,9	314 600	433 000
16,0	79,8	75,7	289 700	428 800
17,0	79,0	75,5	267 200	419 800
18,0	78,2	75,3	248 000	398 900
19,0	77,4	75,0	231 100	379 900
20,0	76,6	74,8	215 500	361 900
21,0	75,8	74,5	202 000	345 600
22,0	75,0	74,2	189 700	330 600
23,0	74,2	73,9	178 300	316 200
24,0	73,4	73,6	168 300	302 100
25,0	72,6	73,3	159 000	287 300
26,0	71,8	73,0	150 300	272 200
27,0	71,0	72,6	142 500	258 900
28,0	70,1	72,2	135 200	246 500
29,0	69,3	71,8	128 300	234 900
30,0	68,5	71,4	122 100	224 600
32,0	66,8	70,6	110 700	205 700
34,0	65,1	69,6	100 800	189 600
36,0	63,3	68,6	92 000	175 400
38,0	61,6	67,5	84 200	162 800
40,0	59,8	66,3	77 100	151 700
42,0	57,9	65,1	70 800	141 700
44,0	56,1	63,7	65 000	132 700
46,0	54,2	62,3	59 800	124 600
48,0	52,2	60,7	55 100	117 300
50,0	50,2	59,1	50 700	110 500
52,0	48,1	57,3	46 500	104 200
54,0	45,9	55,3	42 800	98 600
56,0	43,7	53,2	39 300	93 300
58,0	41,4	51,0	36 000	88 300
60,0	38,9	48,5	32 900	83 800
62,0	36,3	45,8	30 100	79 600
64,0	33,5	42,8	27 300	75 500
66,0	30,5	39,5	24 800	71 900
68,0	27,2	35,7	22 400	68 400
70,0	23,4	31,2	20 000	65 000

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ASME B30.5



B60



300 000 kg



360°

80,0 m				
m	°	m	kg	kg
13,7	82,2	82,2	352 200	367 100
14,0	82,0	82,2	343 900	367 100
14,5	81,7	82,1	329 200	367 100
15,0	81,3	82,0	314 400	367 100
16,0	80,6	81,8	289 500	367 100
17,0	79,9	81,6	266 900	367 100
18,0	79,1	81,4	247 700	367 100
19,0	78,4	81,2	230 700	363 100
20,0	77,7	81,0	215 100	355 600
21,0	76,9	80,7	201 500	339 900
22,0	76,2	80,5	189 200	325 300
23,0	75,4	80,2	177 800	311 400
24,0	74,7	79,9	167 700	298 800
25,0	74,0	79,6	158 400	285 500
26,0	73,2	79,3	149 600	271 700
27,0	72,5	79,0	141 800	258 400
28,0	71,7	78,6	134 500	246 000
29,0	70,9	78,3	127 600	234 400
30,0	70,2	77,9	121 400	224 100
32,0	68,6	77,1	110 000	205 100
34,0	67,1	76,3	100 100	189 000
36,0	65,5	75,3	91 300	174 800
38,0	63,9	74,3	83 400	162 100
40,0	62,3	73,3	76 400	151 000
42,0	60,6	72,1	70 000	141 100
44,0	59,0	70,9	64 200	132 000
46,0	57,2	69,6	59 000	123 900
48,0	55,5	68,3	54 200	116 600
50,0	53,7	66,8	49 800	109 900
52,0	51,9	65,2	45 700	103 600
54,0	50,0	63,5	42 000	97 900
56,0	48,1	61,7	38 500	92 700
58,0	46,1	59,8	35 200	87 700
60,0	44,1	57,7	32 200	83 200
62,0	41,9	55,5	29 300	79 000
64,0	39,7	53,1	26 600	74 900
66,0	37,3	50,5	24 100	71 300
68,0	34,8	47,7	21 700	67 800
70,0	32,2	44,5	19 400	64 500
74,0	26,1	37,0	15 200	58 400

86,0 m				
m	°	m	kg	kg
13,7	82,8	88,3	311 500	311 500
14,0	82,6	88,2	311 500	311 500
14,5	82,3	88,2	311 500	311 500
15,0	81,9	88,1	311 500	311 500
16,0	81,3	87,9	299 500	311 500
17,0	80,6	87,7	282 600	311 500
18,0	79,9	87,5	262 200	311 500
19,0	79,2	87,3	244 300	311 500
20,0	78,5	87,1	227 800	311 500
21,0	77,9	86,9	213 400	311 500
22,0	77,2	86,7	200 400	309 600
23,0	76,5	86,4	188 400	305 400
24,0	75,8	86,2	177 700	293 100
25,0	75,1	85,9	167 900	281 600
26,0	74,4	85,6	158 600	270 300
27,0	73,7	85,3	150 400	257 100
28,0	73,0	85,0	142 700	244 700
29,0	72,3	84,6	135 400	233 100
30,0	71,6	84,3	128 800	222 800
32,0	70,2	83,6	116 700	203 800
34,0	68,8	82,8	106 300	187 600
36,0	67,3	81,9	97 000	173 400
38,0	65,9	81,0	88 600	160 800
40,0	64,4	80,1	81 200	149 600
42,0	62,9	79,0	74 500	139 600
44,0	61,4	77,9	68 400	130 600
46,0	59,8	76,8	62 900	122 500
48,0	58,2	75,5	57 900	115 200
50,0	56,6	74,2	53 200	108 400
52,0	55,0	72,8	48 900	102 100
54,0	53,4	71,3	44 900	96 500
56,0	51,7	69,7	41 300	91 200
58,0	49,9	68,0	37 800	86 200
60,0	48,1	66,2	34 600	81 700
62,0	46,3	64,3	31 600	77 500
64,0	44,4	62,3	28 800	73 500
66,0	42,4	60,1	26 100	69 800
68,0	40,3	57,7	23 600	66 300
70,0	38,2	55,2	21 300	63 000
74,0	33,5	49,5	16 900	57 000
78,0	28,2	42,5	12 900	51 600
82,0	21,6	33,5	9 300	46 700

MLC650 VPC-MAX S-2

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B60



300 000 kg



360°

92,0 m				
m	°	m	kg	kg
15,2	82,3	94,1	267 500	267 500
16,0	81,8	94,0	267 500	267 500
17,0	81,2	93,8	265 700	267 500
18,0	80,6	93,6	258 000	267 500
19,0	79,9	93,4	243 700	267 500
20,0	79,3	93,2	227 200	267 500
21,0	78,7	93,0	212 800	267 500
22,0	78,0	92,8	199 700	267 500
23,0	77,4	92,6	187 600	267 500
24,0	76,7	92,3	176 900	267 500
25,0	76,1	92,1	167 100	267 300
26,0	75,5	91,8	157 800	266 100
27,0	74,8	91,5	149 600	255 400
28,0	74,2	91,2	141 800	244 100
29,0	73,5	90,9	134 500	232 400
30,0	72,9	90,6	128 000	222 100
32,0	71,5	89,9	115 800	203 100
34,0	70,2	89,2	105 400	186 900
36,0	68,9	88,4	96 000	172 700
38,0	67,5	87,6	87 700	160 000
40,0	66,2	86,7	80 200	148 900
42,0	64,8	85,7	73 500	138 900
44,0	63,4	84,7	67 400	129 900
46,0	62,0	83,6	61 900	121 700
48,0	60,5	82,5	56 900	114 400
50,0	59,1	81,3	52 200	107 700
52,0	57,6	80,0	47 900	101 300
54,0	56,1	78,7	43 900	95 700
56,0	54,6	77,3	40 300	90 400
58,0	53,0	75,7	36 800	85 400
60,0	51,4	74,1	33 600	81 000
62,0	49,8	72,4	30 600	76 700
64,0	48,1	70,6	27 800	72 700
66,0	46,4	68,7	25 200	69 000
68,0	44,6	66,7	22 700	65 600
70,0	42,8	64,6	20 300	62 200
74,0	38,9	59,8	16 000	56 300
78,0	34,7	54,3	12 100	50 900
82,0	29,9	47,7	8 500	46 000
86,0	24,2	39,6		41 600

98,0 m				
m	°	m	kg	kg
15,2	82,8	100,2	229 900	229 900
16,0	82,3	100,0	229 900	229 900
17,0	81,7	99,9	229 900	229 900
18,0	81,1	99,7	229 900	229 900
19,0	80,6	99,5	229 100	229 900
20,0	80,0	99,4	225 500	229 900
21,0	79,4	99,2	211 000	229 900
22,0	78,8	99,0	198 000	229 900
23,0	78,2	98,7	185 800	229 900
24,0	77,6	98,5	175 100	229 900
25,0	77,0	98,3	165 200	229 900
26,0	76,4	98,0	155 900	229 900
27,0	75,8	97,7	147 600	229 900
28,0	75,2	97,5	139 900	229 900
29,0	74,5	97,2	132 600	229 500
30,0	73,9	96,9	126 000	220 100
32,0	72,7	96,3	113 800	201 600
34,0	71,5	95,6	103 300	185 400
36,0	70,2	94,9	94 000	171 200
38,0	69,0	94,1	85 600	158 500
40,0	67,7	93,2	78 200	147 300
42,0	66,4	92,4	71 400	137 300
44,0	65,1	91,4	65 300	128 300
46,0	63,8	90,4	59 800	120 200
48,0	62,5	89,4	54 700	112 800
50,0	61,2	88,3	50 100	106 100
52,0	59,8	87,1	45 700	99 700
54,0	58,5	85,9	41 800	94 100
56,0	57,1	84,6	38 100	88 800
58,0	55,6	83,2	34 600	83 800
60,0	54,2	81,8	31 400	79 300
62,0	52,7	80,2	28 400	75 100
64,0	51,2	78,6	25 600	71 100
66,0	49,7	76,9	23 000	67 400
68,0	48,1	75,1	20 500	63 900
70,0	46,5	73,2	18 100	60 600
74,0	43,1	69,1	13 800	54 600
78,0	39,5	64,4	9 900	49 300
82,0	35,6	59,0		44 400
86,0	31,3	52,8		40 100
90,0	26,3	45,3		36 100
94,0	20,2	35,6		32 400

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B60



300 000 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	209 200	209 200
18,0	81,7	105,8	209 200	209 200
19,0	81,1	105,6	209 200	209 200
20,0	80,5	105,5	209 200	209 200
21,0	80,0	105,3	209 200	209 200
22,0	79,4	105,1	204 700	209 200
23,0	78,9	104,9	197 200	209 200
24,0	78,3	104,7	185 900	209 200
25,0	77,7	104,4	175 500	209 200
26,0	77,2	104,2	165 700	209 200
27,0	76,6	104,0	157 000	209 200
28,0	76,0	103,7	148 800	209 200
29,0	75,5	103,4	141 100	209 200
30,0	74,9	103,1	134 200	209 200
32,0	73,7	102,6	121 400	200 800
34,0	72,6	101,9	110 300	184 700
36,0	71,4	101,2	100 500	170 400
38,0	70,2	100,5	91 700	157 700
40,0	69,1	99,7	83 800	146 500
42,0	67,9	98,9	76 800	136 500
44,0	66,7	98,1	70 300	127 500
46,0	65,5	97,1	64 500	119 300
48,0	64,2	96,2	59 200	112 000
50,0	63,0	95,1	54 300	105 200
52,0	61,7	94,1	49 700	98 900
54,0	60,5	92,9	45 600	93 200
56,0	59,2	91,7	41 700	87 900
58,0	57,9	90,5	38 100	83 000
60,0	56,6	89,1	34 700	78 500
62,0	55,2	87,7	31 600	74 200
64,0	53,9	86,3	28 600	70 200
66,0	52,5	84,7	25 900	66 600
68,0	51,1	83,1	23 300	63 100
70,0	49,6	81,4	20 800	59 800
74,0	46,6	77,7	16 300	53 800
78,0	43,4	73,6	12 200	48 400
82,0	40,1	69,0	8 500	43 600
86,0	36,5	63,8		39 200
90,0	32,5	57,8		35 300
94,0	28,0	50,7		31 600
98,0	22,7	42,0		28 200

110,0 m				
m	°	m	kg	kg
18,3	82,0	111,8	182 300	182 300
19,0	81,6	111,7	182 300	182 300
20,0	81,1	111,6	182 300	182 300
21,0	80,5	111,4	182 300	182 300
22,0	80,0	111,2	182 300	182 300
23,0	79,5	111,0	182 000	182 300
24,0	78,9	110,8	180 100	182 300
25,0	78,4	110,6	173 300	182 300
26,0	77,9	110,4	163 500	182 300
27,0	77,3	110,1	154 800	182 300
28,0	76,8	109,9	146 600	182 300
29,0	76,3	109,6	138 900	182 300
30,0	75,7	109,4	131 900	182 300
32,0	74,7	108,8	119 100	182 300
34,0	73,6	108,2	108 000	180 100
36,0	72,5	107,6	98 100	168 700
38,0	71,4	106,9	89 300	156 000
40,0	70,3	106,2	81 500	144 900
42,0	69,1	105,4	74 400	134 800
44,0	68,0	104,6	67 900	125 800
46,0	66,9	103,7	62 100	117 600
48,0	65,7	102,8	56 800	110 300
50,0	64,6	101,9	51 900	103 500
52,0	63,4	100,9	47 300	97 100
54,0	62,2	99,8	43 200	91 500
56,0	61,1	98,7	39 300	86 200
58,0	59,8	97,5	35 600	81 200
60,0	58,6	96,3	32 300	76 700
62,0	57,4	95,0	29 200	72 500
64,0	56,1	93,7	26 200	68 500
66,0	54,9	92,3	23 500	64 800
68,0	53,6	90,8	20 900	61 300
70,0	52,2	89,2	18 400	58 000
74,0	49,5	85,9	13 900	52 100
78,0	46,7	82,2	9 800	46 700
82,0	43,7	78,1		41 900
86,0	40,6	73,6		37 500
90,0	37,2	68,5		33 600
94,0	33,5	62,7		29 900
98,0	29,5	56,0		26 600
102,0	24,8	47,9		23 500
106,0	19,0	37,6		20 600

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300 000 kg



360°

116,0 m				
m	°	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	157 900	157 900
21,0	81,0	117,5	157 900	157 900
22,0	80,5	117,3	157 900	157 900
23,0	80,0	117,1	157 900	157 900
24,0	79,5	116,9	157 900	157 900
25,0	79,0	116,7	157 900	157 900
26,0	78,5	116,5	157 500	157 900
27,0	78,0	116,3	153 200	157 900
28,0	77,5	116,1	146 900	157 900
29,0	77,0	115,8	139 100	157 900
30,0	76,5	115,6	132 200	157 900
32,0	75,5	115,1	119 300	157 900
34,0	74,4	114,5	108 200	157 900
36,0	73,4	113,9	98 400	157 900
38,0	72,4	113,2	89 500	155 800
40,0	71,3	112,6	81 700	145 000
42,0	70,3	111,8	74 600	135 000
44,0	69,2	111,1	68 100	125 900
46,0	68,2	110,3	62 300	117 800
48,0	67,1	109,4	57 000	110 400
50,0	66,0	108,5	52 100	103 700
52,0	64,9	107,6	47 500	97 300
54,0	63,8	106,6	43 400	91 600
56,0	62,7	105,5	39 500	86 400
58,0	61,6	104,5	35 800	81 400
60,0	60,4	103,3	32 500	76 900
62,0	59,3	102,1	29 400	72 600
64,0	58,1	100,9	26 400	68 600
66,0	56,9	99,6	23 700	65 000
68,0	55,7	98,2	21 000	61 500
70,0	54,5	96,8	18 600	58 200
74,0	52,0	93,7	14 100	52 200
78,0	49,5	90,4	10 100	46 900
82,0	46,8	86,7		42 000
86,0	44,0	82,6		37 700
90,0	41,0	78,2		33 800
94,0	37,8	73,2		30 100
98,0	34,4	67,6		26 800
102,0	30,7	61,1		23 800
106,0	26,5	53,6		20 900
110,0	21,5	44,3		18 300

122,0 m				
m	°	m	kg	kg
18,3	82,8	124,0	138 600	138 600
19,0	82,4	123,9	138 600	138 600
20,0	82,0	123,7	138 600	138 600
21,0	81,5	123,6	138 600	138 600
22,0	81,0	123,4	138 600	138 600
23,0	80,5	123,2	138 600	138 600
24,0	80,1	123,0	138 600	138 600
25,0	79,6	122,9	138 600	138 600
26,0	79,1	122,7	138 600	138 600
27,0	78,6	122,4	138 600	138 600
28,0	78,1	122,2	138 100	138 600
29,0	77,7	122,0	137 000	138 600
30,0	77,2	121,8	130 000	138 600
32,0	76,2	121,3	117 100	138 600
34,0	75,2	120,7	106 000	138 600
36,0	74,3	120,2	96 100	138 600
38,0	73,3	119,6	87 300	138 500
40,0	72,3	118,9	79 400	138 200
42,0	71,3	118,2	72 300	133 300
44,0	70,3	117,5	65 800	124 200
46,0	69,3	116,7	60 000	116 100
48,0	68,3	115,9	54 700	108 700
50,0	67,3	115,1	49 800	101 900
52,0	66,2	114,2	45 100	95 600
54,0	65,2	113,3	41 000	89 900
56,0	64,1	112,3	37 100	84 600
58,0	63,1	111,3	33 500	79 600
60,0	62,0	110,2	30 100	75 100
62,0	61,0	109,1	27 000	70 900
64,0	59,9	107,9	24 000	66 900
66,0	58,8	106,7	21 300	63 200
68,0	57,7	105,4	18 700	59 700
70,0	56,5	104,1	16 200	56 400
74,0	54,2	101,3	11 700	50 400
78,0	51,9	98,2		45 100
82,0	49,4	94,8		40 300
86,0	46,9	91,2		35 900
90,0	44,2	87,1		32 000
94,0	41,4	82,7		28 400
98,0	38,4	77,8		25 100
102,0	35,2	72,4		22 000
106,0	31,8	66,2		19 200
110,0	27,9	59,0		16 600
114,0	23,5	50,4		14 100
118,0	18,0	39,5		11 800

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B60



300 000 kg



360°

128,0 m				
m	°	m	kg	kg
19,8	82,4	129,8	119 800	119 800
20,0	82,3	129,8	119 800	119 800
21,0	81,9	129,6	119 800	119 800
22,0	81,4	129,5	119 800	119 800
23,0	81,0	129,3	119 800	119 800
24,0	80,5	129,1	119 800	119 800
25,0	80,1	128,9	119 800	119 800
26,0	79,6	128,7	119 800	119 800
27,0	79,2	128,5	119 800	119 800
28,0	78,7	128,3	119 800	119 800
29,0	78,2	128,1	119 800	119 800
30,0	77,8	127,9	119 800	119 800
32,0	76,9	127,4	117 100	119 700
34,0	75,9	126,9	106 000	119 600
36,0	75,0	126,4	96 100	119 400
38,0	74,1	125,8	87 200	119 300
40,0	73,1	125,2	79 300	119 200
42,0	72,2	124,5	72 200	119 100
44,0	71,3	123,9	65 800	118 900
46,0	70,3	123,1	59 900	116 000
48,0	69,3	122,4	54 600	108 700
50,0	68,4	121,6	49 700	101 900
52,0	67,4	120,7	45 100	95 500
54,0	66,4	119,9	40 900	89 800
56,0	65,4	118,9	37 000	84 500
58,0	64,5	118,0	33 400	79 500
60,0	63,4	117,0	30 100	75 100
62,0	62,4	115,9	26 900	70 800
64,0	61,4	114,8	23 900	66 800
66,0	60,4	113,7	21 200	63 100
68,0	59,3	112,5	18 600	59 600
70,0	58,3	111,3	16 100	56 300
74,0	56,1	108,6	11 600	50 400
78,0	53,9	105,7		45 000
82,0	51,7	102,6		40 200
86,0	49,3	99,3		35 900
90,0	46,9	95,6		31 900
94,0	44,4	91,6		28 300
98,0	41,7	87,2		25 000
102,0	38,9	82,4		22 000
106,0	35,9	77,1		19 100
110,0	32,7	71,1		16 500
114,0	29,1	64,2		14 100
118,0	25,1	56,2		11 800
122,0	20,4	46,3		9 700

134,0 m				
m	°	m	kg	kg
19,8	82,8	135,9	112 000	112 000
20,0	82,7	135,8	112 000	112 000
21,0	82,2	135,7	112 000	112 000
22,0	81,8	135,5	112 000	112 000
23,0	81,4	135,4	112 000	112 000
24,0	80,9	135,2	112 000	112 000
25,0	80,5	135,0	112 000	112 000
26,0	80,1	134,9	112 000	112 000
27,0	79,6	134,7	112 000	112 000
28,0	79,2	134,5	111 900	111 900
29,0	78,8	134,3	111 900	111 900
30,0	78,3	134,1	111 800	111 800
32,0	77,5	133,6	111 700	111 700
34,0	76,6	133,1	103 700	111 600
36,0	75,7	132,6	93 800	111 500
38,0	74,8	132,1	84 900	111 300
40,0	73,9	131,5	77 000	111 200
42,0	73,0	130,9	69 900	111 000
44,0	72,1	130,2	63 400	110 700
46,0	71,2	129,5	57 600	110 100
48,0	70,3	128,8	52 300	105 800
50,0	69,4	128,0	47 300	100 100
52,0	68,5	127,2	42 700	93 800
54,0	67,6	126,4	38 600	88 100
56,0	66,6	125,5	34 700	82 800
58,0	65,7	124,6	31 000	77 800
60,0	64,7	123,7	27 700	73 300
62,0	63,8	122,7	24 500	69 000
64,0	62,8	121,7	21 500	65 000
66,0	61,8	120,6	18 800	61 400
68,0	60,9	119,5	16 200	57 900
70,0	59,9	118,3	13 700	54 600
74,0	57,9	115,8	9 200	48 600
78,0	55,8	113,1		43 200
82,0	53,7	110,3		38 400
86,0	51,5	107,1		34 100
90,0	49,3	103,8		30 100
94,0	47,0	100,1		26 500
98,0	44,6	96,1		23 200
102,0	42,0	91,8		20 200
106,0	39,4	87,0		17 400
110,0	36,6	81,8		14 800
114,0	33,5	75,9		12 300
118,0	30,2	69,4		10 100

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B60



300 000 kg



360°

m	o	m	kg	kg
21,3	82,4	141,7	97 600	97 600
22,0	82,2	141,6	97 500	97 500
23,0	81,8	141,5	97 500	97 500
24,0	81,3	141,3	97 500	97 500
25,0	80,9	141,1	97 500	97 500
26,0	80,5	141,0	97 400	97 400
27,0	80,1	140,8	97 400	97 400
28,0	79,7	140,6	97 300	97 300
29,0	79,3	140,4	97 300	97 300
30,0	78,8	140,2	97 200	97 200
32,0	78,0	139,8	97 100	97 100
34,0	77,2	139,3	97 000	97 000
36,0	76,3	138,8	93 200	96 900
38,0	75,5	138,3	84 800	96 700
40,0	74,6	137,7	76 900	96 500
42,0	73,8	137,1	69 800	96 400
44,0	72,9	136,5	63 300	96 100
46,0	72,1	135,9	57 400	96 000
48,0	71,2	135,2	52 100	95 800
50,0	70,3	134,5	47 100	95 100
52,0	69,4	133,7	42 500	93 600
54,0	68,6	132,9	38 400	88 000
56,0	67,7	132,1	34 500	82 700
58,0	66,8	131,2	30 800	77 600
60,0	65,9	130,3	27 500	73 100
62,0	65,0	129,4	24 300	68 900
64,0	64,1	128,4	21 300	64 800
66,0	63,2	127,4	18 600	61 200
68,0	62,2	126,3	16 000	57 700
70,0	61,3	125,2	13 500	54 400
74,0	59,4	122,9		48 400
78,0	57,5	120,4		43 100
82,0	55,5	117,7		38 200
86,0	53,5	114,8		33 900
90,0	51,4	111,6		30 000
94,0	49,2	108,2		26 400
98,0	47,0	104,6		23 100
102,0	44,7	100,6		20 000
106,0	42,3	96,3		17 200
110,0	39,8	91,6		14 600
114,0	37,1	86,5		12 200
118,0	34,3	80,8		10 000