

# Liftcrane Boom


## Extended Upper Point Capacities

Boom No. B85:505-500  
with Mast No. M11:503 and  
7,0 m Extended Upper Boom Point  
135 100 kg VPC (Variable Position Counterweight)  
360 Degree Rating

# MLC300

# 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 (upper sheave) capacity for liftcrane service with single part whip line from Drum 6 is 13 600 kg. When Drum 2 or Drum 3 is used, capacity with single part whip line is 16 600 kg. In all cases, upper boom point capacities cannot exceed those listed for extended upper boom point (lower sheave) capacity.


Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath sheaves is considered part of load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

**OPERATING CONDITIONS:** Machine to operate on a firm, level, and uniformly supporting surface. Refer to Boom Rigging **No. 80134736**, Mast Rigging **No. 84045340**, Wire Rope Specifications chart **No. 9884-A**, Counterweight Arrangements chart **No. 9345-A**, and Wind Conditions chart **No. 9885-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to the Operator Manual for operating guidelines.

**MACHINE TRAVEL:** Machine to travel on a firm, level, and uniformly supporting surface. Boom must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specifications chart **No. 9883-A**.

 **EXTENDED UPPER BOOM POINT OPERATING RADIUS:** Extended upper boom point operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.

 **BOOM ANGLE:** Boom angle in degrees ( $^{\circ}$ ) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

 **EXTENDED UPPER BOOM POINT ELEVATION:** Extended upper boom point elevation is vertical distance from ground level to centerline of extended upper boom point shaft.

**MACHINE EQUIPMENT:** Machine equipped with VPC-MAX, 9 700 mm crawlers, 1 219 mm or 1 524 mm treads, 9 144 mm live mast, 30,0 m mast, 10 part boom hoist reeving, boom support straps, and 135 100 kg VPC.

# MLC300 VPC-MAX S-1

ASME B30.5



Refer to Table 1 (without luffing jib backstays stored) for raising ability with the maximum weight of all load blocks, hooks, weight ball, slings, and hoist lines beneath extended upper boom point (lower or upper 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 Table 1 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 extended upper boom point (lower or upper sheaves) must not exceed block weight shown.

**Table 1a: Without Luffing Jib Backstays**




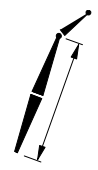


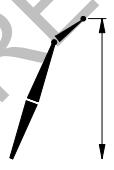
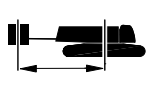

Over End or Side of Crawlers		
Boom Length (m)	10,6 m	14,6 m
	Counterweight Position	Counterweight Position
Block Weight (kg)		
83,0	4 700	4 700
86,0	4 700	4 700
89,0	4 700	4 700
92,0	3 100	4 700
95,0	2 700	4 700
98,0	#	4 700
101,0	#	4 700
104,0	Raising Not Permitted	4 200
107,0		4 100
110,0		2 500
113,0		1 400
116,0		#
119,0	Raising Not Permitted	
122,0		

**Table 1b: Without Luffing Jib Backstays**

Over End of Blocked Crawlers		
Boom Length (m)	10,6 m	14,6 m
	Counterweight Position	Counterweight Position
Block Weight (kg)		
83,0	4 700	4 700
86,0	4 700	4 700
89,0	4 700	4 700
92,0	4 700	4 700
95,0	4 700	4 700
98,0	3 500	4 700
101,0	2 400	4 700
104,0	#	4 700
107,0	#	4 700
110,0	Raising Not Permitted	4 700
113,0		3 600
116,0		2 000
119,0		1 500
122,0		#

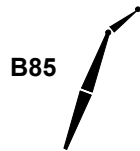
**Warning:** Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. Crane tipping or structural damage can occur.

## Explanation of Symbols

-  B85 Boom No. B85:505-500
-  VPC (Variable Position Counterweight)
-  360 Degree Rating
-  Boom Length
-  Extended Upper Boom Point Operating Radius  
(see page 1)
-  Boom Angle  
(see page 1)
-  Extended Upper Boom Point Elevation  
(see page 1)
-  Counterweight Position  
from Axis of Rotation
-  Lifting Capacities  
(see page 1)

# MLC300 VPC-MAX S-1

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135 100 kg

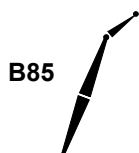


83,0 m					
m		m		10,6 m	14,6 m
kg		kg		kg	kg
16,8	82,9	90,2	83 300	83 300	
17,0	82,7	90,1	83 300	83 300	
18,0	82,1	90,0	83 300	83 300	
19,0	81,4	89,8	83 000	83 000	
20,0	80,8	89,6	82 400	82 400	
22,0	79,5	89,1	81 100	81 100	
24,0	78,1	88,6	79 800	79 800	
26,0	76,8	88,1	78 200	78 500	
28,0	75,5	87,5	71 100	77 200	
30,0	74,1	86,8	64 400	75 800	
32,0	72,8	86,1	58 600	74 400	
34,0	71,4	85,4	53 600	68 800	
36,0	70,0	84,6	49 200	63 500	
38,0	68,6	83,7	45 300	58 800	
40,0	67,2	82,8	41 900	54 600	
42,0	65,8	81,8	38 800	50 800	
44,0	64,3	80,8	36 000	47 400	
46,0	62,8	79,6	33 500	44 400	
48,0	61,4	78,5	31 100	41 600	
50,0	59,8	77,2	29 000	39 000	
52,0	58,3	75,9	27 100	36 600	
54,0	56,7	74,5	25 300	34 500	
56,0	55,1	73,0	23 500	32 500	
58,0	53,5	71,4	21 800	30 600	
60,0	51,8	69,7	20 200	28 800	
62,0	50,1	67,9	18 700	27 200	
64,0	48,3	66,0	17 300	25 700	
66,0	46,5	64,0	16 000	24 300	
68,0	44,6	61,8	14 700	22 900	
70,0	42,7	59,5	13 500	21 700	
72,0	40,6	57,1	12 400	20 500	
74,0	38,5	54,4	11 400	19 300	
76,0	36,2	51,5	10 400	18 300	
76,8	35,3	50,2	10 000	17 900	

86,0 m					
m		m		10,6 m	14,6 m
kg		kg		kg	kg
17,1	82,9	93,2	84 200	84 200	
18,0	82,3	93,0	83 700	83 700	
19,0	81,7	92,8	83 200	83 200	
20,0	81,1	92,6	82 600	82 600	
22,0	79,8	92,2	81 400	81 400	
24,0	78,5	91,7	80 300	80 300	
26,0	77,3	91,2	78 400	79 100	
28,0	76,0	90,6	70 600	77 900	
30,0	74,7	90,0	63 900	76 600	
32,0	73,4	89,3	58 100	74 300	
34,0	72,0	88,6	53 100	68 300	
36,0	70,7	87,8	48 700	63 000	
38,0	69,4	87,0	44 800	58 300	
40,0	68,0	86,1	41 400	54 100	
42,0	66,6	85,2	38 300	50 300	
44,0	65,2	84,2	35 500	46 900	
46,0	63,8	83,1	32 900	43 800	
48,0	62,4	82,0	30 600	41 000	
50,0	61,0	80,8	28 500	38 500	
52,0	59,5	79,5	26 500	36 100	
54,0	58,0	78,2	24 600	33 900	
56,0	56,5	76,7	22 700	31 900	
58,0	54,9	75,2	21 000	30 000	
60,0	53,3	73,6	19 400	28 300	
62,0	51,7	72,0	17 900	26 700	
64,0	50,0	70,2	16 500	25 200	
66,0	48,3	68,3	15 200	23 700	
68,0	46,6	66,3	14 000	22 400	
70,0	44,8	64,1	12 800	21 100	
72,0	42,9	61,8	11 700	19 900	
74,0	40,9	59,4	10 600	18 800	
76,0	38,9	56,8	9 600	17 700	
78,0	36,7	53,9	8 700	16 700	
79,3	35,3	52,0	8 100	16 100	

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89,0 m				
m	m	m	kg	kg
17,4	83,0	96,2	88 400	88 400
18,0	82,6	96,1	88 100	88 100
19,0	82,0	95,9	87 600	87 600
20,0	81,4	95,7	87 100	87 100
22,0	80,1	95,3	86 100	86 100
24,0	78,9	94,8	85 100	85 100
26,0	77,7	94,3	78 100	84 000
28,0	76,4	93,7	70 300	82 900
30,0	75,2	93,1	63 600	80 200
32,0	73,9	92,5	57 700	74 000
34,0	72,6	91,8	52 800	68 000
36,0	71,3	91,0	48 400	62 600
38,0	70,0	90,2	44 500	57 900
40,0	68,7	89,4	41 000	53 700
42,0	67,4	88,5	37 900	49 900
44,0	66,1	87,5	35 100	46 500
46,0	64,7	86,5	32 500	43 500
48,0	63,4	85,4	30 200	40 600
50,0	62,0	84,2	28 100	38 100
52,0	60,6	83,0	26 000	35 700
54,0	59,1	81,8	24 000	33 500
56,0	57,7	80,4	22 200	31 500
58,0	56,2	79,0	20 500	29 600
60,0	54,7	77,5	18 900	27 900
62,0	53,2	75,9	17 400	26 300
64,0	51,6	74,2	16 000	24 800
66,0	50,0	72,4	14 700	23 300
68,0	48,3	70,5	13 400	22 000
70,0	46,6	68,5	12 200	20 700
72,0	44,9	66,4	11 100	19 500
74,0	43,0	64,1	10 100	18 400
76,0	41,2	61,7	9 100	17 300
78,0	39,2	59,1	8 100	16 300
80,0	37,1	56,3	7 200	15 400
81,7	35,3	53,8	6 500	14 600

92,0 m				
m	m	m	kg	kg
18,0	82,8	99,1	92 000	92 000
19,0	82,2	98,9	91 600	91 600
20,0	81,6	98,7	91 200	91 200
22,0	80,4	98,3	90 400	90 400
24,0	79,2	97,9	86 900	89 900
26,0	78,0	97,4	77 500	89 900
28,0	76,8	96,8	69 700	87 900
30,0	75,6	96,3	62 900	80 400
32,0	74,4	95,6	57 100	73 400
34,0	73,2	95,0	52 100	67 300
36,0	71,9	94,2	47 700	62 000
38,0	70,7	93,5	43 800	57 200
40,0	69,4	92,6	40 300	53 000
42,0	68,1	91,8	37 200	49 200
44,0	66,9	90,8	34 400	45 800
46,0	65,6	89,8	31 800	42 700
48,0	64,2	88,8	29 400	39 900
50,0	62,9	87,7	27 100	37 300
52,0	61,6	86,5	24 900	35 000
54,0	60,2	85,3	23 000	32 800
56,0	58,8	84,0	21 100	30 800
58,0	57,4	82,6	19 400	28 900
60,0	56,0	81,2	17 800	27 200
62,0	54,5	79,7	16 300	25 500
64,0	53,0	78,1	14 900	24 000
66,0	51,5	76,4	13 600	22 600
68,0	49,9	74,6	12 400	21 300
70,0	48,3	72,7	11 200	20 000
72,0	46,7	70,7	10 100	18 800
74,0	45,0	68,6	9 100	17 700
76,0	43,2	66,3	8 100	16 600
78,0	41,4	63,9	7 100	15 600
80,0	39,5	61,4	6 200	14 600
83,8	35,2	55,9	4 600	12 900
84,0	35,4	55,7		12 800
84,1	35,3	55,5		12 800

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B85



135 100 kg



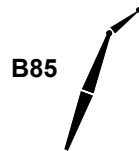
360°

95,0 m				
m			kg	kg
18,3	82,9	102,1	90 600	90 600
19,0	82,5	102,0	90 600	90 600
20,0	81,9	101,8	90 600	90 600
22,0	80,7	101,4	90 600	90 600
24,0	79,6	101,0	87 300	90 600
26,0	78,4	100,5	77 900	90 500
28,0	77,2	100,0	70 000	87 300
30,0	76,1	99,4	63 300	80 800
32,0	74,9	98,8	57 500	73 700
34,0	73,7	98,1	52 500	67 700
36,0	72,5	97,4	48 100	62 300
38,0	71,3	96,7	44 100	57 600
40,0	70,1	95,9	40 700	53 400
42,0	68,8	95,1	37 600	49 600
44,0	67,6	94,2	34 700	46 200
46,0	66,4	93,2	32 200	43 100
48,0	65,1	92,2	29 800	40 300
50,0	63,8	91,1	27 600	37 700
52,0	62,5	90,0	25 400	35 300
54,0	61,2	88,8	23 500	33 200
56,0	59,9	87,6	21 600	31 200
58,0	58,5	86,3	19 900	29 300
60,0	57,1	84,9	18 300	27 500
62,0	55,7	83,5	16 900	25 900
64,0	54,3	81,9	15 500	24 400
66,0	52,9	80,3	14 100	23 000
68,0	51,4	78,6	12 900	21 600
70,0	49,9	76,9	11 700	20 400
72,0	48,3	75,0	10 600	19 200
74,0	46,7	73,0	9 600	18 100
76,0	45,1	70,9	8 600	17 000
78,0	43,4	68,6	7 700	16 000
80,0	41,6	66,3	6 800	15 000
84,0	37,9	61,0	5 100	13 300
85,3	36,0	59,0	4 500	12 700
86,6	35,3	57,3		12 200

98,0 m				
m			kg	kg
18,6	82,9	105,1	83 300	83 300
19,0	82,7	105,0	83 300	83 300
20,0	82,1	104,8	83 300	83 300
22,0	81,0	104,5	83 300	83 300
24,0	79,9	104,0	83 300	83 300
26,0	78,7	103,6	77 400	83 300
28,0	77,6	103,1	69 500	81 700
30,0	76,5	102,5	62 800	79 100
32,0	75,3	101,9	56 900	73 200
34,0	74,2	101,3	51 900	67 100
36,0	73,0	100,6	47 500	61 800
38,0	71,9	99,9	43 600	57 000
40,0	70,7	99,1	40 100	52 800
42,0	69,5	98,3	37 000	49 100
44,0	68,3	97,4	34 200	45 600
46,0	67,1	96,5	31 600	42 500
48,0	65,9	95,6	29 100	39 700
50,0	64,6	94,5	26 800	37 100
52,0	63,4	93,5	24 600	34 800
54,0	62,1	92,3	22 700	32 600
56,0	60,8	91,1	20 800	30 600
58,0	59,5	89,9	19 100	28 700
60,0	58,2	88,5	17 500	27 000
62,0	56,9	87,2	16 100	25 300
64,0	55,5	85,7	14 700	23 800
66,0	54,1	84,2	13 300	22 400
68,0	52,7	82,6	12 100	21 100
70,0	51,3	80,9	10 900	19 800
72,0	49,8	79,1	9 800	18 600
74,0	48,3	77,2	8 800	17 500
76,0	46,8	75,2	7 800	16 400
78,0	45,2	73,1	6 900	15 400
80,0	43,5	70,9	6 000	14 500
82,3	41,3	68,1	5 000	13 400
84,0	40,1	66,0		12 700
88,0	36,3	60,5		11 100
89,3	35,0	58,5		10 600

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101,0 m				
m			kg	
10,6 m	14,6 m			
18,9	82,9	108,1	81 100	81 100
19,0	82,9	108,1	81 100	81 100
20,0	82,3	107,9	81 100	81 100
22,0	81,3	107,5	81 100	81 100
24,0	80,2	107,1	81 100	81 100
26,0	79,1	106,7	77 200	81 100
28,0	78,0	106,2	69 400	80 400
30,0	76,9	105,6	62 600	77 900
32,0	75,8	105,1	56 800	73 000
34,0	74,6	104,5	51 800	67 000
36,0	73,5	103,8	47 400	61 600
38,0	72,4	103,1	43 400	56 900
40,0	71,2	102,4	39 900	52 600
42,0	70,1	101,6	36 800	48 900
44,0	68,9	100,7	34 000	45 400
46,0	67,8	99,8	31 300	42 400
48,0	66,6	98,9	28 800	39 500
50,0	65,4	97,9	26 500	37 000
52,0	64,2	96,9	24 400	34 600
54,0	63,0	95,8	22 400	32 400
56,0	61,8	94,6	20 600	30 400
58,0	60,5	93,4	18 900	28 500
60,0	59,2	92,2	17 300	26 800
62,0	58,0	90,8	15 800	25 200
64,0	56,7	89,4	14 400	23 600
66,0	55,3	88,0	13 100	22 200
68,0	54,0	86,4	11 800	20 900
70,0	52,6	84,8	10 700	19 600
72,0	51,2	83,1	9 600	18 400
74,0	49,8	81,3	8 500	17 300
76,0	48,3	79,4	7 500	16 200
78,0	46,8	77,5	6 600	15 200
80,0	45,3	75,4	5 700	14 300
82,3	43,3	72,8	4 700	13 300
84,0	42,0	70,8		12 500
88,0	38,6	65,7		10 900
91,7	35,0	60,3		9 500

104,0 m				
m			kg	
10,6 m	14,6 m			
19,2	83,0	111,0	76 300	76 300
20,0	82,6	110,9	76 300	76 300
22,0	81,5	110,6	76 300	76 300
24,0	80,4	110,2	76 300	76 300
26,0	79,4	109,7	75 900	76 200
28,0	78,3	109,3	68 900	74 900
30,0	77,2	108,7	62 100	72 500
32,0	76,2	108,2	56 200	70 100
34,0	75,1	107,6	51 200	66 400
36,0	74,0	107,0	46 800	61 100
38,0	72,9	106,3	42 900	56 300
40,0	71,8	105,6	39 400	52 100
42,0	70,7	104,8	36 300	48 300
44,0	69,5	104,0	33 300	44 900
46,0	68,4	103,1	30 600	41 800
48,0	67,3	102,2	28 000	39 000
50,0	66,1	101,3	25 700	36 400
52,0	65,0	100,3	23 600	34 000
54,0	63,8	99,2	21 600	31 800
56,0	62,6	98,1	19 800	29 800
58,0	61,4	96,9	18 100	27 900
60,0	60,2	95,7	16 500	26 200
62,0	58,9	94,4	15 000	24 600
64,0	57,7	93,1	13 600	23 000
66,0	56,4	91,7	12 300	21 600
68,0	55,1	90,2	11 000	20 300
70,0	53,8	88,7	9 900	19 000
72,0	52,5	87,0	8 800	17 800
74,0	51,1	85,3	7 700	16 700
76,0	49,7	83,5	6 700	15 600
78,0	48,3	81,7	5 800	14 600
80,0	46,8	79,7	4 900	13 700
80,8	45,4	78,9	4 600	13 300
84,0	43,8	75,4		11 900
88,0	40,6	70,7		10 300
92,0	37,1	65,3		8 800
94,2	35,1	62,0		8 000

# MLC300 VPC-MAX S-1

ASME B30.5



B85



135 100 kg



360°

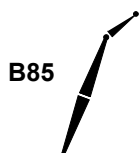
107,0 m				
m			kg	kg
19,8	82,9	114,0	70 900	70 900
20,0	82,8	113,9	70 800	70 800
22,0	81,7	113,6	69 100	69 100
24,0	80,7	113,2	67 500	67 500
26,0	79,7	112,8	65 900	65 900
28,0	78,6	112,3	64 400	64 400
30,0	77,6	111,8	61 900	62 900
32,0	76,5	111,3	56 800	61 400
34,0	75,5	110,7	51 800	60 000
36,0	74,4	110,1	47 400	58 700
38,0	73,4	109,4	43 400	56 700
40,0	72,3	108,7	40 000	52 700
42,0	71,2	108,0	36 800	48 900
44,0	70,1	107,2	34 000	45 400
46,0	69,0	106,4	31 300	42 300
48,0	67,9	105,5	28 800	39 500
50,0	66,8	104,6	26 500	37 000
52,0	65,7	103,6	24 300	34 600
54,0	64,5	102,6	22 400	32 400
56,0	63,4	101,5	20 500	30 400
58,0	62,2	100,4	18 800	28 500
60,0	61,1	99,2	17 200	26 800
62,0	59,9	98,0	15 700	25 200
64,0	58,7	96,7	14 300	23 600
66,0	57,4	95,3	13 000	22 200
68,0	56,2	93,9	11 800	20 900
70,0	54,9	92,4	10 600	19 600
72,0	53,7	90,9	9 600	18 400
74,0	52,4	89,2	8 500	17 300
76,0	51,0	87,5	7 500	16 300
78,0	49,7	85,8	6 600	15 200
80,0	48,3	83,9	5 700	14 300
82,3	46,3	81,6	4 700	13 300
84,0	45,4	79,8		12 500
88,0	42,4	75,4		10 900
92,0	39,1	70,4		9 400
96,0	35,6	64,7		8 100
96,6	35,1	63,7		7 900

110,0 m				
m			kg	kg
20,1	82,9	117,0	66 600	66 600
22,0	81,9	116,7	66 600	66 600
24,0	80,9	116,3	66 300	66 300
26,0	79,9	115,9	64 800	64 800
28,0	78,9	115,4	63 300	63 300
30,0	77,9	114,9	61 200	61 800
32,0	76,9	114,4	56 300	60 300
34,0	75,9	113,9	51 300	59 000
36,0	74,8	113,3	46 800	57 400
38,0	73,8	112,6	42 900	55 400
40,0	72,8	111,9	39 400	52 100
42,0	71,7	111,2	36 300	48 300
44,0	70,7	110,4	33 300	44 900
46,0	69,6	109,6	30 500	41 800
48,0	68,5	108,8	28 000	39 000
50,0	67,4	107,9	25 700	36 400
52,0	66,4	107,0	23 600	34 000
54,0	65,3	106,0	21 600	31 900
56,0	64,2	104,9	19 800	29 800
58,0	63,0	103,8	18 000	28 000
60,0	61,9	102,7	16 500	26 200
62,0	60,8	101,5	15 000	24 600
64,0	59,6	100,3	13 600	23 100
66,0	58,4	99,0	12 300	21 600
68,0	57,2	97,6	11 000	20 300
70,0	56,0	96,2	9 900	19 000
72,0	54,8	94,7	8 800	17 900
74,0	53,5	93,1	7 700	16 700
76,0	52,3	91,5	6 700	15 700
78,0	51,0	89,8	5 800	14 700
80,0	49,6	88,0	4 900	13 700
80,8	48,4	87,3	4 600	13 400
84,0	46,9	84,2		12 000
88,0	44,0	79,9		10 300
92,0	41,0	75,3		8 900
96,0	37,8	70,0		7 500
99,1	35,1	65,5		6 600



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113,0 m				
m	m	m	kg	kg
20,4	82,9	120,0	63 700	63 700
22,0	82,1	119,7	63 700	63 700
24,0	81,2	119,3	63 600	63 600
26,0	80,2	118,9	63 400	63 400
28,0	79,2	118,5	61 900	61 900
30,0	78,2	118,0	60 200	60 200
32,0	77,2	117,5	56 100	58 100
34,0	76,2	117,0	51 100	56 000
36,0	75,2	116,4	46 600	54 000
38,0	74,2	115,8	42 700	52 000
40,0	73,2	115,1	39 200	50 200
42,0	72,2	114,4	36 000	47 900
44,0	71,2	113,6	33 000	44 700
46,0	70,1	112,9	30 200	41 600
48,0	69,1	112,0	27 700	38 800
50,0	68,1	111,2	25 400	36 200
52,0	67,0	110,3	23 200	33 800
54,0	65,9	109,3	21 300	31 600
56,0	64,9	108,3	19 400	29 600
58,0	63,8	107,2	17 700	27 700
60,0	62,7	106,1	16 100	26 000
62,0	61,6	105,0	14 600	24 400
64,0	60,4	103,8	13 200	22 800
66,0	59,3	102,5	11 900	21 400
68,0	58,2	101,2	10 700	20 100
70,0	57,0	99,9	9 500	18 800
72,0	55,8	98,4	8 400	17 600
74,0	54,6	96,9	7 400	16 500
76,0	53,4	95,4	6 400	15 500
78,0	52,2	93,7	5 500	14 400
79,3	50,8	92,7	4 900	13 900
80,0	50,9	92,0		13 500
84,0	48,3	88,4		11 700
88,0	45,6	84,3		10 100
92,0	42,7	79,9		8 600
96,0	39,7	75,0		7 300
100,0	36,4	69,5		6 100
101,5	35,1	67,3		5 600

116,0 m				
m	m	m	kg	kg
20,7	82,9	122,9	59 800	59 800
22,0	82,3	122,8	59 800	59 800
24,0	81,4	122,4	59 800	59 800
26,0	80,4	122,0	59 700	59 700
28,0	79,5	121,6	59 600	59 600
30,0	78,5	121,1	59 600	59 600
32,0	77,6	120,6	55 600	59 600
34,0	76,6	120,1	50 600	57 800
36,0	75,6	119,5	46 200	55 700
38,0	74,6	118,9	42 200	53 800
40,0	73,6	118,3	38 600	51 400
42,0	72,7	117,6	35 300	47 600
44,0	71,7	116,9	32 300	44 200
46,0	70,7	116,1	29 500	41 100
48,0	69,6	115,3	27 000	38 200
50,0	68,6	114,5	24 600	35 600
52,0	67,6	113,6	22 500	33 300
54,0	66,6	112,7	20 500	31 100
56,0	65,5	111,7	18 700	29 100
58,0	64,5	110,7	17 000	27 200
60,0	63,4	109,6	15 400	25 400
62,0	62,3	108,5	13 900	23 800
64,0	61,3	107,3	12 500	22 300
66,0	60,2	106,1	11 200	20 900
68,0	59,1	104,8	10 000	19 500
70,0	57,9	103,5	8 800	18 300
72,0	56,8	102,1	7 700	17 100
74,0	55,6	100,7	6 600	16 000
76,0	54,5	99,2	5 700	14 900
77,7	53,1	97,8	4 800	14 000
78,0	53,3	97,6		13 900
80,0	52,1	96,0		12 900
84,0	49,6	92,5		11 200
88,0	47,0	88,7		9 600
92,0	44,3	84,5		8 100
96,0	41,4	79,8		6 700
100,0	38,4	74,7		5 500
102,1	36,7	71,8		4 900

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B85



135 100 kg



360°

119,0 m			10,6 m		14,6 m	
m	m	m	kg	kg		
21,0	83,0	125,9	56 000	56 000		
22,0	82,5	125,8	56 000	56 000		
24,0	81,6	125,4	55 900	55 900		
26,0	80,7	125,1	55 800	55 800		
28,0	79,7	124,6	55 400	55 400		
30,0	78,8	124,2	53 900	53 900		
32,0	77,9	123,7	52 400	52 400		
34,0	76,9	123,2	50 400	50 900		
36,0	76,0	122,6	46 300	49 600		
38,0	75,0	122,0	42 400	48 200		
40,0	74,0	121,4	38 800	46 900		
42,0	73,1	120,7	35 500	45 700		
44,0	72,1	120,0	32 500	44 200		
46,0	71,1	119,3	29 700	41 200		
48,0	70,2	118,5	27 200	38 400		
50,0	69,2	117,7	24 800	35 800		
52,0	68,2	116,8	22 700	33 400		
54,0	67,2	115,9	20 700	31 300		
56,0	66,2	115,0	18 900	29 200		
58,0	65,1	114,0	17 200	27 300		
60,0	64,1	113,0	15 600	25 600		
62,0	63,1	111,9	14 100	24 000		
64,0	62,0	110,8	12 700	22 500		
66,0	61,0	109,6	11 400	21 000		
68,0	59,9	108,4	10 200	19 700		
70,0	58,8	107,1	9 000	18 400		
72,0	57,7	105,8	7 900	17 300		
74,0	56,6	104,4	6 900	16 100		
76,0	55,5	102,9	5 900	15 100		
77,7	54,1	101,6	5 100	14 200		
78,0	54,3	101,4		14 100		
80,0	53,2	99,8		13 100		
84,0	50,8	96,5		11 300		
88,0	48,3	92,8		9 700		
92,0	45,7	88,8		8 300		
96,0	43,0	84,5		6 900		
100,0	40,1	79,6		5 700		
103,6	37,3	74,8		4 600		

122,0 m			10,6 m		14,6 m	
m	m	m	kg	kg		
21,6	82,9	128,9	52 300	52 300		
22,0	82,7	128,8	52 300	52 300		
24,0	81,8	128,5	52 200	52 200		
26,0	80,9	128,1	52 200	52 200		
28,0	80,0	127,7	52 100	52 100		
30,0	79,1	127,3	52 000	52 000		
32,0	78,1	126,8	51 000	51 000		
34,0	77,2	126,3	49 300	49 600		
36,0	76,3	125,8	45 800	48 200		
38,0	75,4	125,2	41 800	47 000		
40,0	74,4	124,6	38 100	45 700		
42,0	73,5	123,9	34 800	44 400		
44,0	72,6	123,2	31 700	43 000		
46,0	71,6	122,5	29 000	40 700		
48,0	70,6	121,8	26 400	37 900		
50,0	69,7	121,0	24 100	35 300		
52,0	68,7	120,1	22 000	32 900		
54,0	67,7	119,3	20 000	30 700		
56,0	66,8	118,3	18 100	28 700		
58,0	65,8	117,4	16 400	26 800		
60,0	64,8	116,4	14 800	25 100		
62,0	63,8	115,3	13 300	23 400		
64,0	62,7	114,2	11 900	21 900		
66,0	61,7	113,1	10 600	20 500		
68,0	60,7	111,9	9 400	19 100		
70,0	59,6	110,7	8 200	17 900		
72,0	58,6	109,4	7 100	16 700		
74,0	57,5	108,1	6 100	15 600		
76,0	56,4	106,7	5 100	14 500		
76,2	55,9	106,5	5 000	14 400		
78,0	55,3	105,2		13 500		
80,0	54,2	103,7		12 600		
84,0	51,9	100,5		10 800		
88,0	49,5	97,0		9 200		
92,0	47,0	93,2		7 700		
96,0	44,5	89,0		6 400		
100,0	41,8	84,4		5 100		
100,6	41,3	83,7		4 900		