

# Liftcrane Boom


## Extended Upper Point Capacities

Boom No. B85:505-500  
with Mast No. M11:503 and  
7,0 m Extended Upper Boom Point  
175 100 kg VPC (Variable Position Counterweight)  
360 Degree Rating

# MLC300

# 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 (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 175 100 kg VPC.

# MLC300 VPC-MAX S-2

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 Counterweight Position	14,6 m 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	4 700	4 700
101,0	4 700	4 700
104,0	3 600	4 500
107,0	3 500	4 700
110,0	2 000	4 700
113,0	#	4 700
116,0	<b>Raising Not Permitted</b>	4 700
119,0		4 700
122,0		3 700
125,0		2 600
128,0		#
131,0	#	#

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

Over End of Blocked Crawlers		
Boom Length (m)	10,6 m Counterweight Position	14,6 m 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	4 700	4 700
101,0	4 700	4 700
104,0	4 700	4 700
107,0	4 700	4 700
110,0	3 500	4 700
113,0	2 400	4 700
116,0	#	4 700
119,0	#	4 700
122,0	<b>Raising Not Permitted</b>	4 000
125,0		3 000
128,0		1 600
131,0		1 500

**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



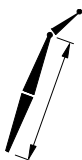
Boom No. B85:505-500



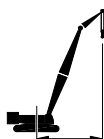
VPC (Variable Position Counterweight)



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)



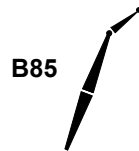
Counterweight Position  
from Axis of Rotation



Lifting Capacities  
(see page 1)

# MLC300 VPC-MAX S-2

ASME B30.5



83,0 m				
m	m	m	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	78 500	78 500
28,0	75,5	87,5	77 200	77 200
30,0	74,1	86,8	75 800	75 800
32,0	72,8	86,1	73 300	74 400
34,0	71,4	85,4	67 400	73 100
36,0	70,0	84,6	62 200	71 700
38,0	68,6	83,7	57 500	70 400
40,0	67,2	82,8	53 400	68 700
42,0	65,8	81,8	49 700	64 900
44,0	64,3	80,8	46 400	60 800
46,0	62,8	79,6	43 400	57 100
48,0	61,4	78,5	40 600	53 700
50,0	59,8	77,2	38 100	50 600
52,0	58,3	75,9	35 800	47 800
54,0	56,7	74,5	33 600	45 200
56,0	55,1	73,0	31 600	42 800
58,0	53,5	71,4	29 800	40 500
60,0	51,8	69,7	28 100	38 400
62,0	50,1	67,9	26 400	36 500
64,0	48,3	66,0	24 800	34 700
66,0	46,5	64,0	23 200	32 900
68,0	44,6	61,8	21 800	31 300
70,0	42,7	59,5	20 400	29 800
72,0	40,6	57,1	19 100	28 400
74,0	38,5	54,4	17 800	27 000
76,0	36,2	51,5	16 600	25 700
76,8	35,3	50,2	16 200	25 200

86,0 m				
m	m	m	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	79 100	79 100
28,0	76,0	90,6	77 900	77 900
30,0	74,7	90,0	76 600	76 600
32,0	73,4	89,3	72 900	75 300
34,0	72,0	88,6	66 900	74 000
36,0	70,7	87,8	61 700	72 700
38,0	69,4	87,0	57 000	71 400
40,0	68,0	86,1	52 900	68 900
42,0	66,6	85,2	49 200	64 400
44,0	65,2	84,2	45 900	60 300
46,0	63,8	83,1	42 800	56 600
48,0	62,4	82,0	40 100	53 200
50,0	61,0	80,8	37 500	50 100
52,0	59,5	79,5	35 200	47 300
54,0	58,0	78,2	33 100	44 700
56,0	56,5	76,7	31 100	42 200
58,0	54,9	75,2	29 300	40 000
60,0	53,3	73,6	27 400	37 900
62,0	51,7	72,0	25 700	35 900
64,0	50,0	70,2	24 000	34 100
66,0	48,3	68,3	22 500	32 400
68,0	46,6	66,3	21 000	30 800
70,0	44,8	64,1	19 600	29 300
72,0	42,9	61,8	18 300	27 900
74,0	40,9	59,4	17 100	26 500
76,0	38,9	56,8	15 900	25 200
78,0	36,7	53,9	14 800	24 000
79,3	35,3	52,0	14 100	23 300

# MLC300 VPC-MAX S-2

ASME B30.5



B85



175 100 kg

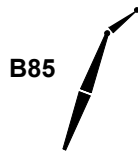


89,0 m			10,6 m		14,6 m	
m	m	m	kg	kg	kg	kg
17,4	83,0	96,2	88 400	88 400		
18,0	82,6	96,1	88 100	88 100		
19,0	82,0	95,9	87 600	87 600		
20,0	81,4	95,7	87 100	87 100		
22,0	80,1	95,3	86 100	86 100		
24,0	78,9	94,8	85 100	85 100		
26,0	77,7	94,3	84 000	84 000		
28,0	76,4	93,7	82 900	82 900		
30,0	75,2	93,1	79 100	81 700		
32,0	73,9	92,5	72 500	80 500		
34,0	72,6	91,8	66 600	79 200		
36,0	71,3	91,0	61 300	77 900		
38,0	70,0	90,2	56 700	73 600		
40,0	68,7	89,4	52 500	68 600		
42,0	67,4	88,5	48 800	64 000		
44,0	66,1	87,5	45 500	59 900		
46,0	64,7	86,5	42 500	56 200		
48,0	63,4	85,4	39 700	52 800		
50,0	62,0	84,2	37 200	49 700		
52,0	60,6	83,0	34 800	46 900		
54,0	59,1	81,8	32 700	44 300		
56,0	57,7	80,4	30 700	41 800		
58,0	56,2	79,0	28 800	39 600		
60,0	54,7	77,5	26 900	37 500		
62,0	53,2	75,9	25 100	35 500		
64,0	51,6	74,2	23 500	33 700		
66,0	50,0	72,4	21 900	32 000		
68,0	48,3	70,5	20 500	30 400		
70,0	46,6	68,5	19 100	28 900		
72,0	44,9	66,4	17 800	27 500		
74,0	43,0	64,1	16 500	26 100		
76,0	41,2	61,7	15 400	24 800		
78,0	39,2	59,1	14 300	23 600		
80,0	37,1	56,3	13 200	22 400		
81,7	35,3	53,8	12 300	21 500		

92,0 m			10,6 m		14,6 m	
m	m	m	kg	kg	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	89 900	89 900		
26,0	78,0	97,4	89 800	89 900		
28,0	76,8	96,8	86 800	89 500		
30,0	75,6	96,3	78 800	87 600		
32,0	74,4	95,6	71 900	85 200		
34,0	73,2	95,0	65 900	82 800		
36,0	71,9	94,2	60 700	78 600		
38,0	70,7	93,5	56 000	72 900		
40,0	69,4	92,6	51 800	67 800		
42,0	68,1	91,8	48 100	63 300		
44,0	66,9	90,8	44 800	59 200		
46,0	65,6	89,8	41 700	55 500		
48,0	64,2	88,8	39 000	52 100		
50,0	62,9	87,7	36 400	49 000		
52,0	61,6	86,5	34 100	46 100		
54,0	60,2	85,3	31 900	43 500		
56,0	58,8	84,0	29 700	41 100		
58,0	57,4	82,6	27 700	38 800		
60,0	56,0	81,2	25 900	36 800		
62,0	54,5	79,7	24 100	34 800		
64,0	53,0	78,1	22 400	33 000		
66,0	51,5	76,4	20 900	31 300		
68,0	49,9	74,6	19 400	29 700		
70,0	48,3	72,7	18 100	28 100		
72,0	46,7	70,7	16 800	26 700		
74,0	45,0	68,6	15 500	25 400		
76,0	43,2	66,3	14 400	24 100		
78,0	41,4	63,9	13 200	22 900		
80,0	39,5	61,4	12 200	21 700		
84,0	35,4	55,7	10 200	19 600		
84,1	35,3	55,5	10 100	19 500		

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95,0 m				
m			kg	kg
10,6 m	14,6 m			
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	90 600	90 600
26,0	78,4	100,5	90 500	90 500
28,0	77,2	100,0	86 700	88 100
30,0	76,1	99,4	79 200	85 500
32,0	74,9	98,8	72 200	83 100
34,0	73,7	98,1	66 300	80 700
36,0	72,5	97,4	61 000	78 100
38,0	71,3	96,7	56 300	73 300
40,0	70,1	95,9	52 200	68 200
42,0	68,8	95,1	48 500	63 700
44,0	67,6	94,2	45 100	59 600
46,0	66,4	93,2	42 100	55 800
48,0	65,1	92,2	39 300	52 500
50,0	63,8	91,1	36 800	49 400
52,0	62,5	90,0	34 500	46 500
54,0	61,2	88,8	32 300	43 900
56,0	59,9	87,6	30 200	41 500
58,0	58,5	86,3	28 200	39 200
60,0	57,1	84,9	26 400	37 100
62,0	55,7	83,5	24 600	35 200
64,0	54,3	81,9	23 000	33 400
66,0	52,9	80,3	21 400	31 700
68,0	51,4	78,6	20 000	30 000
70,0	49,9	76,9	18 600	28 500
72,0	48,3	75,0	17 300	27 100
74,0	46,7	73,0	16 100	25 800
76,0	45,1	70,9	14 900	24 500
78,0	43,4	68,6	13 800	23 300
80,0	41,6	66,3	12 700	22 100
84,0	37,9	61,0	10 700	20 000
86,6	35,3	57,3	9 600	18 700

98,0 m				
m			kg	kg
10,6 m	14,6 m			
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	83 300	83 300
28,0	77,6	103,1	81 700	81 700
30,0	76,5	102,5	78 000	79 200
32,0	75,3	101,9	71 700	76 700
34,0	74,2	101,3	65 700	74 300
36,0	73,0	100,6	60 500	72 000
38,0	71,9	99,9	55 800	69 900
40,0	70,7	99,1	51 700	67 400
42,0	69,5	98,3	47 900	63 100
44,0	68,3	97,4	44 600	59 000
46,0	67,1	96,5	41 500	55 300
48,0	65,9	95,6	38 800	51 900
50,0	64,6	94,5	36 200	48 800
52,0	63,4	93,5	33 900	45 900
54,0	62,1	92,3	31 600	43 300
56,0	60,8	91,1	29 400	40 900
58,0	59,5	89,9	27 400	38 600
60,0	58,2	88,5	25 600	36 600
62,0	56,9	87,2	23 800	34 600
64,0	55,5	85,7	22 200	32 800
66,0	54,1	84,2	20 600	31 100
68,0	52,7	82,6	19 200	29 500
70,0	51,3	80,9	17 800	27 900
72,0	49,8	79,1	16 500	26 500
74,0	48,3	77,2	15 300	25 200
76,0	46,8	75,2	14 100	23 900
78,0	45,2	73,1	13 000	22 700
80,0	43,5	70,9	11 900	21 500
84,0	40,1	66,0	10 000	19 400
88,0	36,3	60,5	8 200	17 500
89,3	35,0	58,5	7 600	16 900

# MLC300 VPC-MAX S-2

ASME B30.5



B85



175 100 kg



360°

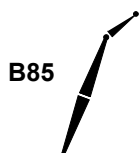
101,0 m				
m			kg	kg
18,9	82,9	108,1	81 100	81 100
19,0	82,9	108,1	81 100	81 100
20,0	82,3	107,9	81 100	81 100
22,0	81,3	107,5	81 100	81 100
24,0	80,2	107,1	81 100	81 100
26,0	79,1	106,7	81 100	81 100
28,0	78,0	106,2	80 400	80 400
30,0	76,9	105,6	77 500	79 900
32,0	75,8	105,1	71 500	75 400
34,0	74,6	104,5	65 600	73 000
36,0	73,5	103,8	60 300	70 800
38,0	72,4	103,1	55 600	68 600
40,0	71,2	102,4	51 500	66 400
42,0	70,1	101,6	47 800	62 900
44,0	68,9	100,7	44 400	58 800
46,0	67,8	99,8	41 300	55 100
48,0	66,6	98,9	38 600	51 700
50,0	65,4	97,9	36 000	48 600
52,0	64,2	96,9	33 700	45 800
54,0	63,0	95,8	31 300	43 100
56,0	61,8	94,6	29 200	40 700
58,0	60,5	93,4	27 200	38 400
60,0	59,2	92,2	25 300	36 400
62,0	58,0	90,8	23 500	34 400
64,0	56,7	89,4	21 900	32 600
66,0	55,3	88,0	20 300	30 900
68,0	54,0	86,4	18 900	29 300
70,0	52,6	84,8	17 500	27 800
72,0	51,2	83,1	16 200	26 300
74,0	49,8	81,3	15 000	25 000
76,0	48,3	79,4	13 800	23 700
78,0	46,8	77,5	12 700	22 500
80,0	45,3	75,4	11 700	21 400
84,0	42,0	70,8	9 700	19 200
88,0	38,6	65,7	7 900	17 300
91,7	35,0	60,3	6 400	15 600

104,0 m				
m			kg	kg
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	76 200	76 200
28,0	78,3	109,3	74 900	74 900
30,0	77,2	108,7	72 500	72 500
32,0	76,2	108,2	70 100	70 100
34,0	75,1	107,6	65 000	67 700
36,0	74,0	107,0	59 800	65 500
38,0	72,9	106,3	55 100	63 400
40,0	71,8	105,6	50 900	61 400
42,0	70,7	104,8	47 200	59 500
44,0	69,5	104,0	43 800	57 700
46,0	68,4	103,1	40 800	54 500
48,0	67,3	102,2	38 000	51 100
50,0	66,1	101,3	35 400	48 000
52,0	65,0	100,3	32 900	45 200
54,0	63,8	99,2	30 500	42 600
56,0	62,6	98,1	28 400	40 100
58,0	61,4	96,9	26 400	37 900
60,0	60,2	95,7	24 500	35 800
62,0	58,9	94,4	22 700	33 800
64,0	57,7	93,1	21 100	32 000
66,0	56,4	91,7	19 500	30 300
68,0	55,1	90,2	18 100	28 700
70,0	53,8	88,7	16 700	27 200
72,0	52,5	87,0	15 400	25 700
74,0	51,1	85,3	14 200	24 400
76,0	49,7	83,5	13 000	23 100
78,0	48,3	81,7	11 900	21 900
80,0	46,8	79,7	10 900	20 800
84,0	43,8	75,4	8 900	18 600
88,0	40,6	70,7	7 100	16 700
92,0	37,1	65,3	5 500	14 900
94,2	35,1	62,0	4 600	14 000



# MLC300 VPC-MAX S-2

ASME B30.5



107,0 m				
m	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	62 900	62 900
32,0	76,5	111,3	61 400	61 400
34,0	75,5	110,7	60 000	60 000
36,0	74,4	110,1	58 700	58 700
38,0	73,4	109,4	55 600	57 400
40,0	72,3	108,7	51 500	56 200
42,0	71,2	108,0	47 800	55 000
44,0	70,1	107,2	44 400	53 700
46,0	69,0	106,4	41 300	52 100
48,0	67,9	105,5	38 600	50 500
50,0	66,8	104,6	36 000	48 500
52,0	65,7	103,6	33 600	45 700
54,0	64,5	102,6	31 300	43 100
56,0	63,4	101,5	29 100	40 700
58,0	62,2	100,4	27 100	38 400
60,0	61,1	99,2	25 300	36 400
62,0	59,9	98,0	23 500	34 400
64,0	58,7	96,7	21 900	32 600
66,0	57,4	95,3	20 300	30 900
68,0	56,2	93,9	18 900	29 300
70,0	54,9	92,4	17 500	27 800
72,0	53,7	90,9	16 200	26 300
74,0	52,4	89,2	15 000	25 000
76,0	51,0	87,5	13 800	23 700
78,0	49,7	85,8	12 700	22 500
80,0	48,3	83,9	11 700	21 400
84,0	45,4	79,8	9 700	19 300
88,0	42,4	75,4	7 900	17 300
92,0	39,1	70,4	6 300	15 600
96,0	35,6	64,7	4 800	13 900
96,6	35,1	63,7	4 600	13 700

110,0 m				
m	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	61 800	61 800
32,0	76,9	114,4	60 300	60 300
34,0	75,9	113,9	59 000	59 000
36,0	74,8	113,3	57 400	57 400
38,0	73,8	112,6	55 000	55 400
40,0	72,8	111,9	51 000	53 500
42,0	71,7	111,2	47 200	51 800
44,0	70,7	110,4	43 900	50 100
46,0	69,6	109,6	40 800	48 500
48,0	68,5	108,8	38 000	46 900
50,0	67,4	107,9	35 400	45 500
52,0	66,4	107,0	32 800	44 100
54,0	65,3	106,0	30 500	42 500
56,0	64,2	104,9	28 400	40 100
58,0	63,0	103,8	26 300	37 900
60,0	61,9	102,7	24 500	35 800
62,0	60,8	101,5	22 700	33 800
64,0	59,6	100,3	21 100	32 000
66,0	58,4	99,0	19 500	30 300
68,0	57,2	97,6	18 100	28 700
70,0	56,0	96,2	16 700	27 200
72,0	54,8	94,7	15 400	25 800
74,0	53,5	93,1	14 200	24 400
76,0	52,3	91,5	13 000	23 200
78,0	51,0	89,8	11 900	22 000
80,0	49,6	88,0	10 900	20 800
84,0	46,9	84,2	8 900	18 700
88,0	44,0	79,9	7 200	16 800
92,0	41,0	75,3	5 500	15 000
94,5	38,5	72,0	4 600	14 000
96,0	37,8	70,0		13 400
99,1	35,1	65,5		12 200

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B85



175 100 kg



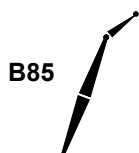
360°

113,0 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	58 100	58 100
34,0	76,2	117,0	56 000	56 000
36,0	75,2	116,4	54 000	54 000
38,0	74,2	115,8	52 000	52 000
40,0	73,2	115,1	50 000	50 200
42,0	72,2	114,4	47 000	48 500
44,0	71,2	113,6	43 600	46 800
46,0	70,1	112,9	40 600	45 300
48,0	69,1	112,0	37 800	43 800
50,0	68,1	111,2	35 000	42 400
52,0	67,0	110,3	32 500	41 000
54,0	65,9	109,3	30 200	39 800
56,0	64,9	108,3	28 000	38 600
58,0	63,8	107,2	26 000	37 400
60,0	62,7	106,1	24 100	35 600
62,0	61,6	105,0	22 400	33 600
64,0	60,4	103,8	20 700	31 800
66,0	59,3	102,5	19 200	30 100
68,0	58,2	101,2	17 800	28 500
70,0	57,0	99,9	16 400	27 000
72,0	55,8	98,4	15 100	25 500
74,0	54,6	96,9	13 900	24 200
76,0	53,4	95,4	12 700	22 900
78,0	52,2	93,7	11 600	21 700
80,0	50,9	92,0	10 600	20 600
84,0	48,3	88,4	8 600	18 500
88,0	45,6	84,3	6 900	16 500
92,0	42,7	79,9	5 200	14 800
93,0	41,3	78,7	4 900	14 400
96,0	39,7	75,0		13 200
100,0	36,4	69,5		11 700
101,5	35,1	67,3		11 100

116,0 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	59 600	59 600
34,0	76,6	120,1	57 800	57 800
36,0	75,6	119,5	55 700	55 700
38,0	74,6	118,9	53 800	53 800
40,0	73,6	118,3	50 200	52 000
42,0	72,7	117,6	46 500	50 200
44,0	71,7	116,9	43 100	48 600
46,0	70,7	116,1	40 000	46 900
48,0	69,6	115,3	37 100	45 400
50,0	68,6	114,5	34 300	44 000
52,0	67,6	113,6	31 800	42 600
54,0	66,6	112,7	29 500	41 300
56,0	65,5	111,7	27 300	39 400
58,0	64,5	110,7	25 300	37 100
60,0	63,4	109,6	23 400	35 000
62,0	62,3	108,5	21 600	33 100
64,0	61,3	107,3	20 000	31 200
66,0	60,2	106,1	18 500	29 500
68,0	59,1	104,8	17 000	27 900
70,0	57,9	103,5	15 600	26 400
72,0	56,8	102,1	14 300	25 000
74,0	55,6	100,7	13 100	23 600
76,0	54,5	99,2	12 000	22 400
78,0	53,3	97,6	10 900	21 200
80,0	52,1	96,0	9 800	20 000
84,0	49,6	92,5	7 900	17 900
88,0	47,0	88,7	6 100	16 000
91,4	44,3	85,1	4 700	14 500
92,0	44,3	84,5		14 200
96,0	41,4	79,8		12 600
100,0	38,4	74,7		11 100
103,9	35,1	69,0		9 700

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119,0 m				
			10,6 m	14,6 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	50 900	50 900
36,0	76,0	122,6	49 600	49 600
38,0	75,0	122,0	48 200	48 200
40,0	74,0	121,4	46 900	46 900
42,0	73,1	120,7	45 700	45 700
44,0	72,1	120,0	43 300	44 500
46,0	71,1	119,3	40 200	43 400
48,0	70,2	118,5	37 300	42 400
50,0	69,2	117,7	34 500	41 300
52,0	68,2	116,8	32 000	40 000
54,0	67,2	115,9	29 700	38 800
56,0	66,2	115,0	27 500	37 600
58,0	65,1	114,0	25 500	36 400
60,0	64,1	113,0	23 600	35 100
62,0	63,1	111,9	21 900	33 200
64,0	62,0	110,8	20 200	31 400
66,0	61,0	109,6	18 700	29 700
68,0	59,9	108,4	17 200	28 100
70,0	58,8	107,1	15 900	26 600
72,0	57,7	105,8	14 600	25 200
74,0	56,6	104,4	13 300	23 800
76,0	55,5	102,9	12 200	22 500
78,0	54,3	101,4	11 100	21 300
80,0	53,2	99,8	10 000	20 200
84,0	50,8	96,5	8 100	18 100
88,0	48,3	92,8	6 300	16 200
91,4	45,4	89,4	4 900	14 600
92,0	45,7	88,8		14 400
96,0	43,0	84,5		12 800
100,0	40,1	79,6		11 300
104,0	37,1	74,3		9 900
106,4	35,1	70,8		9 200

122,0 m				
			10,6 m	14,6 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	49 600	49 600
36,0	76,3	125,8	48 200	48 200
38,0	75,4	125,2	47 000	47 000
40,0	74,4	124,6	45 700	45 700
42,0	73,5	123,9	44 400	44 400
44,0	72,6	123,2	42 600	43 000
46,0	71,6	122,5	39 500	41 500
48,0	70,6	121,8	36 500	40 100
50,0	69,7	121,0	33 800	38 700
52,0	68,7	120,1	31 200	37 500
54,0	67,7	119,3	28 900	36 200
56,0	66,8	118,3	26 800	35 100
58,0	65,8	117,4	24 700	33 900
60,0	64,8	116,4	22 900	32 900
62,0	63,8	115,3	21 100	32 000
64,0	62,7	114,2	19 500	30 900
66,0	61,7	113,1	17 900	29 100
68,0	60,7	111,9	16 500	27 500
70,0	59,6	110,7	15 100	26 000
72,0	58,6	109,4	13 800	24 600
74,0	57,5	108,1	12 600	23 300
76,0	56,4	106,7	11 400	22 000
78,0	55,3	105,2	10 300	20 800
80,0	54,2	103,7	9 300	19 600
84,0	51,9	100,5	7 300	17 500
88,0	49,5	97,0	5 600	15 600
89,9	48,0	95,1	4 800	14 700
92,0	47,0	93,2		13 800
96,0	44,5	89,0		12 200
100,0	41,8	84,4		10 700
104,0	38,9	79,4		9 400
108,0	35,8	73,8		8 100
108,8	35,1	72,5		7 800

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B85



175 100 kg



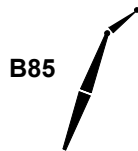
360°

125,0 m			10,6 m	14,6 m
m	m	m	kg	kg
21,9	82,9	131,9	49 100	49 100
22,0	82,9	131,9	49 100	49 100
24,0	82,0	131,5	49 000	49 000
26,0	81,1	131,2	48 900	48 900
28,0	80,2	130,8	48 800	48 800
30,0	79,3	130,3	48 700	48 700
32,0	78,4	129,9	48 400	48 400
34,0	77,5	129,4	47 800	47 800
36,0	76,6	128,9	47 300	47 300
38,0	75,7	128,3	46 800	46 800
40,0	74,8	127,7	46 200	46 200
42,0	73,9	127,1	45 300	45 500
44,0	73,0	126,4	42 500	44 100
46,0	72,0	125,7	39 300	42 600
48,0	71,1	125,0	36 300	41 200
50,0	70,2	124,2	33 500	39 800
52,0	69,2	123,4	31 000	38 500
54,0	68,3	122,5	28 700	37 300
56,0	67,3	121,6	26 500	36 100
58,0	66,4	120,7	24 500	35 000
60,0	65,4	119,7	22 600	33 900
62,0	64,4	118,7	20 800	32 500
64,0	63,4	117,7	19 200	30 700
66,0	62,4	116,5	17 700	29 000
68,0	61,4	115,4	16 200	27 400
70,0	60,4	114,2	14 800	25 800
72,0	59,4	112,9	13 500	24 400
74,0	58,3	111,7	12 300	23 100
76,0	57,3	110,3	11 200	21 800
78,0	56,2	108,9	10 100	20 600
80,0	55,1	107,4	9 000	19 400
84,0	52,9	104,3	7 100	17 300
88,0	50,6	101,0	5 300	15 400
89,9	49,0	99,2	4 500	14 600
92,0	48,3	97,3		13 600
96,0	45,8	93,3		12 000
100,0	43,2	89,0		10 600
104,0	40,5	84,2		9 200
108,0	37,7	79,0		7 900
111,3	35,1	74,3		6 900

128,0 m			10,6 m	14,6 m
m	m	m	kg	kg
22,3	82,9	134,8	45 700	45 700
24,0	82,2	134,6	45 600	45 600
26,0	81,3	134,2	45 500	45 500
28,0	80,4	133,8	45 400	45 400
30,0	79,6	133,4	45 300	45 300
32,0	78,7	132,9	45 200	45 200
34,0	77,8	132,5	45 100	45 100
36,0	76,9	132,0	45 000	45 000
38,0	76,0	131,4	44 700	44 700
40,0	75,2	130,8	44 200	44 200
42,0	74,3	130,2	43 700	43 700
44,0	73,4	129,6	41 700	43 100
46,0	72,5	128,9	38 500	42 100
48,0	71,6	128,2	35 600	41 000
50,0	70,6	127,4	32 800	39 700
52,0	69,7	126,6	30 300	38 400
54,0	68,8	125,8	27 900	37 200
56,0	67,9	124,9	25 800	36 100
58,0	66,9	124,0	23 700	34 900
60,0	66,0	123,1	21 900	33 700
62,0	65,0	122,1	20 100	32 000
64,0	64,1	121,0	18 400	30 100
66,0	63,1	120,0	16 900	28 400
68,0	62,1	118,8	15 500	26 800
70,0	61,1	117,7	14 100	25 300
72,0	60,1	116,5	12 800	23 900
74,0	59,1	115,2	11 600	22 500
76,0	58,1	113,9	10 400	21 200
78,0	57,1	112,5	9 300	20 000
80,0	56,0	111,1	8 300	18 900
84,0	53,9	108,1	6 300	16 800
86,9	51,6	105,8	5 000	15 400
88,0	51,7	104,9		14 800
92,0	49,4	101,4		13 100
96,0	47,1	97,6		11 500
100,0	44,6	93,5		10 000
104,0	42,1	88,9		8 600
108,0	39,3	84,0		7 400
112,0	36,4	78,5		6 200
113,7	35,2	76,0		5 700

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m	m	m	kg	kg
22,6	83,0	137,8	42 400	42 400
24,0	82,3	137,6	42 300	42 300
26,0	81,5	137,3	42 200	42 200
28,0	80,6	136,9	42 100	42 100
30,0	79,8	136,5	42 000	42 000
32,0	78,9	136,0	41 900	41 900
34,0	78,1	135,6	41 700	41 700
36,0	77,2	135,1	41 000	41 000
38,0	76,4	134,5	39 800	39 800
40,0	75,5	134,0	38 600	38 600
42,0	74,6	133,4	37 500	37 500
44,0	73,7	132,7	36 400	36 400
46,0	72,9	132,1	35 300	35 300
48,0	72,0	131,4	34 300	34 300
50,0	71,1	130,6	33 200	33 400
52,0	70,2	129,9	30 800	32 500
54,0	69,3	129,0	28 500	31 600
56,0	68,4	128,2	26 300	30 700
58,0	67,5	127,3	24 300	30 000
60,0	66,6	126,4	22 400	29 200
62,0	65,6	125,4	20 700	28 500
64,0	64,7	124,4	19 000	27 800
66,0	63,8	123,4	17 500	27 100
68,0	62,8	122,3	16 000	26 500
70,0	61,8	121,2	14 700	25 700
72,0	60,9	120,0	13 400	24 300
74,0	59,9	118,8	12 100	23 000
76,0	58,9	117,5	11 000	21 700
78,0	57,9	116,2	9 900	20 500
80,0	56,9	114,8	8 800	19 300
84,0	54,8	111,9	6 900	17 200
88,0	52,7	108,8	5 100	15 300
88,4	51,8	108,5	5 000	15 100
92,0	50,5	105,4		13 500
96,0	48,3	101,8		11 900
100,0	45,9	97,8		10 500
104,0	43,5	93,5		9 100
108,0	40,9	88,8		7 800
112,0	38,2	83,7		6 600
116,0	35,3	78,0		5 500
116,1	35,2	77,8		5 500