

# Liftcrane Boom


## Extended Upper Point Capacities

Boom No. B85:505-500  
with Mast No. M11:503 and  
7,0 m Extended Upper Boom Point  
215 000 kg VPC (Variable Position Counterweight)  
360 Degree Rating

# MLC300

# VPC-MAX

# SERIES 3

 **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.


**BOOM BACKWARD STABILITY:** Capacities indicated by (b) requires 2 400 kg minimum weight suspended beneath boom point. **Caution: Do not operate in areas indicated by (b) without required minimum weight.** *Boom may not lower and boom hoist wire rope may go slack causing wire rope damage or failure.*

**OPERATING CONDITIONS:** Machine to operate on a firm, 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 215 000 kg VPC.

# MLC300 VPC-MAX S-3

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.

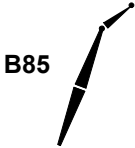








Select counterweight position from Table 1 that will allow raising and lowering of boom length. Counterweight position selection may be changed with boom on ground or while boom is within operating range of capacity chart.

Combined weight beneath extended upper boom point (lower or upper sheaves) must not exceed block weight shown.

**Table 1: 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	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	4 700	4 700
113,0	3 700	4 700
116,0	2 200	4 700
119,0	1 700	4 700
122,0	#	4 700
125,0		4 700
128,0	<b>Raising Not Permitted</b>	3 000
131,0		2 800

## 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-3

ASME B30.5



B85



215 000 kg



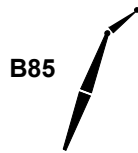
360°

83,0 m					
m		m		10,6 m	14,6 m
				kg	kg
16,8	82,9	90,2	83 300b	83 300b	
17,0	82,7	90,1	83 300b	83 300b	
18,0	82,1	90,0	83 300b	83 300b	
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	74 400	74 400	
34,0	71,4	85,4	73 100	73 100	
36,0	70,0	84,6	71 700	71 700	
38,0	68,6	83,7	69 600	70 400	
40,0	67,2	82,8	65 000	69 100	
42,0	65,8	81,8	60 700	67 800	
44,0	64,3	80,8	56 800	66 600	
46,0	62,8	79,6	53 300	65 400	
48,0	61,4	78,5	50 100	64 200	
50,0	59,8	77,2	47 100	62 200	
52,0	58,3	75,9	44 400	59 000	
54,0	56,7	74,5	42 000	55 900	
56,0	55,1	73,0	39 700	53 100	
58,0	53,5	71,4	37 500	50 500	
60,0	51,8	69,7	35 500	48 000	
62,0	50,1	67,9	33 700	45 700	
64,0	48,3	66,0	32 000	43 600	
66,0	46,5	64,0	30 300	41 600	
68,0	44,6	61,8	28 800	39 700	
70,0	42,7	59,5	27 200	38 000	
72,0	40,6	57,1	25 700	36 300	
74,0	38,5	54,4	24 300	34 700	
76,0	36,2	51,5	22 900	33 200	
76,8	35,3	50,2	22 400	32 600	

86,0 m					
m		m		10,6 m	14,6 m
				kg	kg
17,1	82,9	93,2	84 200b	84 200b	
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	75 300	75 300	
34,0	72,0	88,6	74 000	74 000	
36,0	70,7	87,8	72 700	72 700	
38,0	69,4	87,0	69 200	71 400	
40,0	68,0	86,1	64 500	70 100	
42,0	66,6	85,2	60 200	68 900	
44,0	65,2	84,2	56 300	67 600	
46,0	63,8	83,1	52 700	66 500	
48,0	62,4	82,0	49 500	64 800	
50,0	61,0	80,8	46 600	61 800	
52,0	59,5	79,5	43 900	58 400	
54,0	58,0	78,2	41 400	55 400	
56,0	56,5	76,7	39 100	52 600	
58,0	54,9	75,2	37 000	49 900	
60,0	53,3	73,6	35 000	47 500	
62,0	51,7	72,0	33 200	45 200	
64,0	50,0	70,2	31 400	43 100	
66,0	48,3	68,3	29 800	41 100	
68,0	46,6	66,3	28 100	39 200	
70,0	44,8	64,1	26 500	37 400	
72,0	42,9	61,8	25 000	35 800	
74,0	40,9	59,4	23 600	34 200	
76,0	38,9	56,8	22 200	32 700	
78,0	36,7	53,9	20 900	31 300	
79,3	35,3	52,0	20 100	30 400	

# MLC300 VPC-MAX S-3

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89,0 m				
m	m	m	kg	kg
17,4	83,0	96,2	88 400b	88 400b
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	81 700	81 700
32,0	73,9	92,5	80 500	80 500
34,0	72,6	91,8	78 700	79 200
36,0	71,3	91,0	74 300	77 900
38,0	70,0	90,2	68 900	76 600
40,0	68,7	89,4	64 100	75 300
42,0	67,4	88,5	59 800	74 000
44,0	66,1	87,5	55 900	72 700
46,0	64,7	86,5	52 400	68 900
48,0	63,4	85,4	49 200	65 000
50,0	62,0	84,2	46 200	61 400
52,0	60,6	83,0	43 500	58 000
54,0	59,1	81,8	41 000	55 000
56,0	57,7	80,4	38 700	52 200
58,0	56,2	79,0	36 600	49 500
60,0	54,7	77,5	34 600	47 100
62,0	53,2	75,9	32 800	44 800
64,0	51,6	74,2	31 000	42 700
66,0	50,0	72,4	29 200	40 700
68,0	48,3	70,5	27 500	38 800
70,0	46,6	68,5	25 900	37 000
72,0	44,9	66,4	24 400	35 400
74,0	43,0	64,1	23 000	33 800
76,0	41,2	61,7	21 700	32 300
78,0	39,2	59,1	20 400	30 900
80,0	37,1	56,3	19 200	29 500
81,7	35,3	53,8	18 200	28 400

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	89 900	89 900
26,0	78,0	97,4	89 900	89 900
28,0	76,8	96,8	89 500	89 500
30,0	75,6	96,3	87 600	87 600
32,0	74,4	95,6	85 200	85 200
34,0	73,2	95,0	79 700	82 800
36,0	71,9	94,2	73 600	80 600
38,0	70,7	93,5	68 200	78 400
40,0	69,4	92,6	63 400	76 400
42,0	68,1	91,8	59 100	74 500
44,0	66,9	90,8	55 200	72 300
46,0	65,6	89,8	51 600	68 200
48,0	64,2	88,8	48 400	64 300
50,0	62,9	87,7	45 500	60 600
52,0	61,6	86,5	42 800	57 300
54,0	60,2	85,3	40 300	54 200
56,0	58,8	84,0	38 000	51 400
58,0	57,4	82,6	35 800	48 800
60,0	56,0	81,2	33 800	46 300
62,0	54,5	79,7	31 800	44 100
64,0	53,0	78,1	29 900	41 900
66,0	51,5	76,4	28 200	39 900
68,0	49,9	74,6	26 500	38 000
70,0	48,3	72,7	24 900	36 300
72,0	46,7	70,7	23 400	34 600
74,0	45,0	68,6	22 000	33 000
76,0	43,2	66,3	20 600	31 500
78,0	41,4	63,9	19 400	30 100
80,0	39,5	61,4	18 100	28 800
84,0	35,4	55,7	15 900	26 300
84,1	35,3	55,5	15 800	26 200

# MLC300 VPC-MAX S-3

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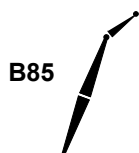


95,0 m				
m			10,6 m	14,6 m
kg			kg	kg
18,3	82,9	102,1	90 600	90 600
19,0	82,5	102,0	90 600	90 600
20,0	81,9	101,8	90 600	90 600
22,0	80,7	101,4	90 600	90 600
24,0	79,6	101,0	90 600	90 600
26,0	78,4	100,5	90 500	90 500
28,0	77,2	100,0	88 100	88 100
30,0	76,1	99,4	85 500	85 500
32,0	74,9	98,8	83 100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

98,0 m				
m			10,6 m	14,6 m
kg			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	83 300	83 300
28,0	77,6	103,1	81 700	81 700
30,0	76,5	102,5	79 200	79 200
32,0	75,3	101,9	76 700	76 700
34,0	74,2	101,3	74 300	74 300
36,0	73,0	100,6	72 000	72 000
38,0	71,9	99,9	68 000	69 900
40,0	70,7	99,1	63 200	67 900
42,0	69,5	98,3	58 900	65 900
44,0	68,3	97,4	55 000	64 000
46,0	67,1	96,5	51 400	62 300
48,0	65,9	95,6	48 200	60 700
50,0	64,6	94,5	45 300	59 100
52,0	63,4	93,5	42 600	57 100
54,0	62,1	92,3	40 100	54 100
56,0	60,8	91,1	37 800	51 200
58,0	59,5	89,9	35 600	48 600
60,0	58,2	88,5	33 600	46 100
62,0	56,9	87,2	31 600	43 900
64,0	55,5	85,7	29 700	41 700
66,0	54,1	84,2	27 900	39 700
68,0	52,7	82,6	26 200	37 900
70,0	51,3	80,9	24 600	36 100
72,0	49,8	79,1	23 100	34 400
74,0	48,3	77,2	21 700	32 900
76,0	46,8	75,2	20 400	31 400
78,0	45,2	73,1	19 100	30 000
80,0	43,5	70,9	17 900	28 600
84,0	40,1	66,0	15 600	26 100
88,0	36,3	60,5	13 600	23 900
89,3	35,0	58,5	12 900	23 200

# MLC300 VPC-MAX S-3

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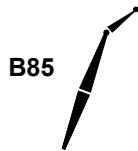


101,0 m				
m	m	m	kg	kg
18,9	82,9	108,1	81 100	81 100
19,0	82,9	108,1	81 100	81 100
20,0	82,3	107,9	81 100	81 100
22,0	81,3	107,5	81 100	81 100
24,0	80,2	107,1	81 100	81 100
26,0	79,1	106,7	81 100	81 100
28,0	78,0	106,2	80 400	80 400
30,0	76,9	105,6	77 900	77 900
32,0	75,8	105,1	75 400	75 400
34,0	74,6	104,5	73 000	73 000
36,0	73,5	103,8	70 800	70 800
38,0	72,4	103,1	67 700	68 600
40,0	71,2	102,4	63 000	66 600
42,0	70,1	101,6	58 700	64 600
44,0	68,9	100,7	54 800	62 800
46,0	67,8	99,8	51 300	61 000
48,0	66,6	98,9	48 000	59 300
50,0	65,4	97,9	45 100	57 800
52,0	64,2	96,9	42 400	56 200
54,0	63,0	95,8	39 900	53 900
56,0	61,8	94,6	37 600	51 000
58,0	60,5	93,4	35 400	48 400
60,0	59,2	92,2	33 300	46 000
62,0	58,0	90,8	31 300	43 700
64,0	56,7	89,4	29 400	41 500
66,0	55,3	88,0	27 600	39 500
68,0	54,0	86,4	25 900	37 700
70,0	52,6	84,8	24 400	35 900
72,0	51,2	83,1	22 900	34 200
74,0	49,8	81,3	21 500	32 700
76,0	48,3	79,4	20 100	31 200
78,0	46,8	77,5	18 800	29 800
80,0	45,3	75,4	17 600	28 400
84,0	42,0	70,8	15 400	26 000
88,0	38,6	65,7	13 300	23 700
91,7	35,0	60,3	11 500	21 800

104,0 m				
m	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	67 700	67 700
36,0	74,0	107,0	65 500	65 500
38,0	72,9	106,3	63 400	63 400
40,0	71,8	105,6	61 300	61 400
42,0	70,7	104,8	58 100	59 500
44,0	69,5	104,0	54 200	57 700
46,0	68,4	103,1	50 700	56 000
48,0	67,3	102,2	47 500	54 400
50,0	66,1	101,3	44 500	52 800
52,0	65,0	100,3	41 800	51 400
54,0	63,8	99,2	39 300	50 000
56,0	62,6	98,1	37 000	48 700
58,0	61,4	96,9	34 700	47 500
60,0	60,2	95,7	32 500	45 400
62,0	58,9	94,4	30 500	43 100
64,0	57,7	93,1	28 600	40 900
66,0	56,4	91,7	26 800	39 000
68,0	55,1	90,2	25 100	37 100
70,0	53,8	88,7	23 600	35 300
72,0	52,5	87,0	22 100	33 700
74,0	51,1	85,3	20 700	32 100
76,0	49,7	83,5	19 300	30 600
78,0	48,3	81,7	18 000	29 200
80,0	46,8	79,7	16 800	27 800
84,0	43,8	75,4	14 600	25 400
88,0	40,6	70,7	12 500	23 100
92,0	37,1	65,3	10 600	21 100
94,2	35,1	62,0	9 700	20 000

# MLC300 VPC-MAX S-3

ASME B30.5



215 000 kg



360°

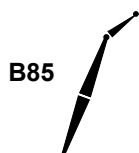
107,0 m			10,6 m		14,6 m	
m	m	m	kg	kg	kg	kg
19,8	82,9	114,0	70 900	70 900		
20,0	82,8	113,9	70 800	70 800		
22,0	81,7	113,6	69 100	69 100		
24,0	80,7	113,2	67 500	67 500		
26,0	79,7	112,8	65 900	65 900		
28,0	78,6	112,3	64 400	64 400		
30,0	77,6	111,8	62 900	62 900		
32,0	76,5	111,3	61 400	61 400		
34,0	75,5	110,7	60 000	60 000		
36,0	74,4	110,1	58 700	58 700		
38,0	73,4	109,4	57 400	57 400		
40,0	72,3	108,7	56 200	56 200		
42,0	71,2	108,0	55 000	55 000		
44,0	70,1	107,2	53 700	53 700		
46,0	69,0	106,4	51 300	52 100		
48,0	67,9	105,5	48 000	50 500		
50,0	66,8	104,6	45 100	49 000		
52,0	65,7	103,6	42 400	47 600		
54,0	64,5	102,6	39 900	46 300		
56,0	63,4	101,5	37 600	45 100		
58,0	62,2	100,4	35 400	43 900		
60,0	61,1	99,2	33 300	42 800		
62,0	59,9	98,0	31 300	41 800		
64,0	58,7	96,7	29 400	40 800		
66,0	57,4	95,3	27 600	39 500		
68,0	56,2	93,9	25 900	37 700		
70,0	54,9	92,4	24 300	35 900		
72,0	53,7	90,9	22 900	34 200		
74,0	52,4	89,2	21 400	32 700		
76,0	51,0	87,5	20 100	31 200		
78,0	49,7	85,8	18 800	29 800		
80,0	48,3	83,9	17 600	28 500		
84,0	45,4	79,8	15 400	26 000		
88,0	42,4	75,4	13 400	23 700		
92,0	39,1	70,4	11 500	21 700		
96,0	35,6	64,7	9 700	19 800		
96,6	35,1	63,7	9 500	19 500		

110,0 m			10,6 m		14,6 m	
m	m	m	kg	kg	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	55 400	55 400		
40,0	72,8	111,9	53 500	53 500		
42,0	71,7	111,2	51 800	51 800		
44,0	70,7	110,4	50 100	50 100		
46,0	69,6	109,6	48 500	48 500		
48,0	68,5	108,8	46 900	46 900		
50,0	67,4	107,9	44 500	45 500		
52,0	66,4	107,0	41 800	44 100		
54,0	65,3	106,0	39 300	42 800		
56,0	64,2	104,9	37 000	41 600		
58,0	63,0	103,8	34 600	40 400		
60,0	61,9	102,7	32 500	39 400		
62,0	60,8	101,5	30 500	38 300		
64,0	59,6	100,3	28 600	37 400		
66,0	58,4	99,0	26 800	36 400		
68,0	57,2	97,6	25 100	35 600		
70,0	56,0	96,2	23 600	34 800		
72,0	54,8	94,7	22 100	33 700		
74,0	53,5	93,1	20 700	32 100		
76,0	52,3	91,5	19 300	30 600		
78,0	51,0	89,8	18 100	29 200		
80,0	49,6	88,0	16 900	27 900		
84,0	46,9	84,2	14 600	25 400		
88,0	44,0	79,9	12 600	23 200		
92,0	41,0	75,3	10 700	21 100		
96,0	37,8	70,0	9 000	19 200		
99,1	35,1	65,5	7 800	17 900		



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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	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	50 200	50 200
42,0	72,2	114,4	48 500	48 500
44,0	71,2	113,6	46 800	46 800
46,0	70,1	112,9	45 300	45 300
48,0	69,1	112,0	43 800	43 800
50,0	68,1	111,2	42 400	42 400
52,0	67,0	110,3	41 000	41 000
54,0	65,9	109,3	39 100	39 800
56,0	64,9	108,3	36 600	38 600
58,0	63,8	107,2	34 300	37 500
60,0	62,7	106,1	32 200	36 400
62,0	61,6	105,0	30 100	35 400
64,0	60,4	103,8	28 300	34 400
66,0	59,3	102,5	26 500	33 500
68,0	58,2	101,2	24 800	32 700
70,0	57,0	99,9	23 200	31 900
72,0	55,8	98,4	21 700	31 200
74,0	54,6	96,9	20 300	30 500
76,0	53,4	95,4	19 000	29 800
78,0	52,2	93,7	17 700	29 000
80,0	50,9	92,0	16 500	27 700
84,0	48,3	88,4	14 300	25 200
88,0	45,6	84,3	12 300	22 900
92,0	42,7	79,9	10 400	20 900
96,0	39,7	75,0	8 700	19 000
100,0	36,4	69,5	7 100	17 300
101,5	35,1	67,3	6 500	16 700

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	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	52 000	52 000
42,0	72,7	117,6	50 200	50 200
44,0	71,7	116,9	48 600	48 600
46,0	70,7	116,1	46 900	46 900
48,0	69,6	115,3	45 400	45 400
50,0	68,6	114,5	43 600	44 000
52,0	67,6	113,6	41 100	42 600
54,0	66,6	112,7	38 400	41 300
56,0	65,5	111,7	35 900	40 000
58,0	64,5	110,7	33 600	38 900
60,0	63,4	109,6	31 400	37 700
62,0	62,3	108,5	29 400	36 700
64,0	61,3	107,3	27 500	35 700
66,0	60,2	106,1	25 700	34 700
68,0	59,1	104,8	24 100	33 900
70,0	57,9	103,5	22 500	33 000
72,0	56,8	102,1	21 000	32 200
74,0	55,6	100,7	19 600	31 300
76,0	54,5	99,2	18 200	29 800
78,0	53,3	97,6	17 000	28 400
80,0	52,1	96,0	15 800	27 100
84,0	49,6	92,5	13 500	24 600
88,0	47,0	88,7	11 500	22 400
92,0	44,3	84,5	9 600	20 300
96,0	41,4	79,8	7 900	18 400
100,0	38,4	74,7	6 300	16 700
103,9	35,1	69,0	4 900	15 100

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215 000 kg

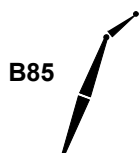


119,0 m			10,6 m	14,6 m
m	m	m	kg	kg
21,0	83,0	125,9	56 000	56 000
22,0	82,5	125,8	56 000	56 000
24,0	81,6	125,4	55 900	55 900
26,0	80,7	125,1	55 800	55 800
28,0	79,7	124,6	55 400	55 400
30,0	78,8	124,2	53 900	53 900
32,0	77,9	123,7	52 400	52 400
34,0	76,9	123,2	50 900	50 900
36,0	76,0	122,6	49 600	49 600
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	44 500	44 500
46,0	71,1	119,3	43 400	43 400
48,0	70,2	118,5	42 400	42 400
50,0	69,2	117,7	41 300	41 300
52,0	68,2	116,8	40 000	40 000
54,0	67,2	115,9	38 400	38 800
56,0	66,2	115,0	36 100	37 600
58,0	65,1	114,0	33 800	36 400
60,0	64,1	113,0	31 600	35 400
62,0	63,1	111,9	29 600	34 400
64,0	62,0	110,8	27 700	33 400
66,0	61,0	109,6	25 900	32 500
68,0	59,9	108,4	24 300	31 700
70,0	58,8	107,1	22 700	30 800
72,0	57,7	105,8	21 200	30 100
74,0	56,6	104,4	19 800	29 300
76,0	55,5	102,9	18 500	28 700
78,0	54,3	101,4	17 200	28 000
80,0	53,2	99,8	16 000	27 200
84,0	50,8	96,5	13 800	24 800
88,0	48,3	92,8	11 700	22 600
92,0	45,7	88,8	9 900	20 500
96,0	43,0	84,5	8 200	18 600
100,0	40,1	79,6	6 600	16 900
104,0	37,1	74,3	5 100	15 300
105,2	36,0	72,6	4 700	14 900
106,4	35,1	70,8		14 400

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	49 600	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	43 000	43 000
46,0	71,6	122,5	41 500	41 500
48,0	70,6	121,8	40 100	40 100
50,0	69,7	121,0	38 700	38 700
52,0	68,7	120,1	37 500	37 500
54,0	67,7	119,3	36 200	36 200
56,0	66,8	118,3	35 100	35 100
58,0	65,8	117,4	33 000	33 900
60,0	64,8	116,4	30 900	32 900
62,0	63,8	115,3	28 900	32 000
64,0	62,7	114,2	27 000	31 000
66,0	61,7	113,1	25 200	30 100
68,0	60,7	111,9	23 500	29 300
70,0	59,6	110,7	21 900	28 500
72,0	58,6	109,4	20 500	27 700
74,0	57,5	108,1	19 000	27 000
76,0	56,4	106,7	17 700	26 300
78,0	55,3	105,2	16 400	25 700
80,0	54,2	103,7	15 200	25 100
84,0	51,9	100,5	13 000	24 000
88,0	49,5	97,0	11 000	22 000
92,0	47,0	93,2	9 100	20 000
96,0	44,5	89,0	7 400	18 100
100,0	41,8	84,4	5 800	16 400
103,6	38,3	79,8	4 500	14 900
104,0	38,9	79,4		14 800
108,0	35,8	73,8		13 100
108,8	35,1	72,5		12 600

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125,0 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	45 500	45 500
44,0	73,0	126,4	44 100	44 100
46,0	72,0	125,7	42 600	42 600
48,0	71,1	125,0	41 200	41 200
50,0	70,2	124,2	39 800	39 800
52,0	69,2	123,4	38 500	38 500
54,0	68,3	122,5	37 200	37 300
56,0	67,3	121,6	35 100	36 100
58,0	66,4	120,7	32 800	35 000
60,0	65,4	119,7	30 600	33 900
62,0	64,4	118,7	28 600	32 900
64,0	63,4	117,7	26 700	31 900
66,0	62,4	116,5	24 900	31 000
68,0	61,4	115,4	23 300	30 200
70,0	60,4	114,2	21 700	29 400
72,0	59,4	112,9	20 200	28 600
74,0	58,3	111,7	18 800	27 900
76,0	57,3	110,3	17 400	27 200
78,0	56,2	108,9	16 200	26 500
80,0	55,1	107,4	15 000	25 900
84,0	52,9	104,3	12 700	24 100
88,0	50,6	101,0	10 700	21 800
92,0	48,3	97,3	8 900	19 800
96,0	45,8	93,3	7 100	17 900
100,0	43,2	89,0	5 600	16 200
102,1	41,4	86,5	4 800	15 300
104,0	40,5	84,2		14 600
108,0	37,7	79,0		13 100
111,3	35,1	74,3		12 000

128,0 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	43 100	43 100
46,0	72,5	128,9	42 100	42 100
48,0	71,6	128,2	41 000	41 000
50,0	70,6	127,4	39 700	39 700
52,0	69,7	126,6	38 400	38 400
54,0	68,8	125,8	36 800	37 200
56,0	67,9	124,9	34 400	36 100
58,0	66,9	124,0	32 000	34 900
60,0	66,0	123,1	29 900	33 900
62,0	65,0	122,1	27 900	32 900
64,0	64,1	121,0	26 000	31 900
66,0	63,1	120,0	24 200	31 000
68,0	62,1	118,8	22 500	30 100
70,0	61,1	117,7	20 900	29 200
72,0	60,1	116,5	19 400	28 500
74,0	59,1	115,2	18 000	27 700
76,0	58,1	113,9	16 700	27 000
78,0	57,1	112,5	15 400	26 300
80,0	56,0	111,1	14 200	25 700
84,0	53,9	108,1	12 000	23 500
88,0	51,7	104,9	10 000	21 300
92,0	49,4	101,4	8 100	19 200
96,0	47,1	97,6	6 400	17 300
100,0	44,6	93,5	4 800	15 600
100,6	43,7	92,8	4 600	15 400
104,0	42,1	88,9		14 000
108,0	39,3	84,0		12 500
112,0	36,4	78,5		11 200
113,7	35,2	76,0		10 600

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215 000 kg



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	33 400	33 400
52,0	70,2	129,9	32 500	32 500
54,0	69,3	129,0	31 600	31 600
56,0	68,4	128,2	30 700	30 700
58,0	67,5	127,3	30 000	30 000
60,0	66,6	126,4	29 200	29 200
62,0	65,6	125,4	28 200	28 500
64,0	64,7	124,4	26 500	27 800
66,0	63,8	123,4	24 800	27 100
68,0	62,8	122,3	23 100	26 500
70,0	61,8	121,2	21 500	25 900
72,0	60,9	120,0	20 000	25 300
74,0	59,9	118,8	18 600	24 800
76,0	58,9	117,5	17 300	24 200
78,0	57,9	116,2	16 000	23 700
80,0	56,9	114,8	14 800	23 300
84,0	54,8	111,9	12 600	22 400
88,0	52,7	108,8	10 500	21 600
92,0	50,5	105,4	8 700	19 700
96,0	48,3	101,8	7 000	17 800
100,0	45,9	97,8	5 400	16 100
102,1	43,9	95,6	4 600	15 200
104,0	43,5	93,5		14 500
108,0	40,9	88,8		13 000
112,0	38,2	83,7		11 600
116,0	35,3	78,0		10 400
116,1	35,2	77,8		10 300

REFERENCE ONLY!