

Liftcrane Boom

Extended Upper Point Capacities

Boom No. B87:505-500
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. 80134737**, Mast Rigging **No. 84045340**, Wire Rope Specifications chart **No. 9871-A**, Counterweight Arrangements chart **No. 9345-A**, and Wind Conditions chart **No. 9872-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. 9870-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.

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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

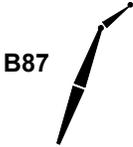
Over End or Side of Crawlers		
Boom Length (m)	10,6 m Counterweight Position	14,6 m Counterweight Position
	Block Weight (kg)	
83,0	4 700	4 700
86,0	4 700	4 700
89,0	4 700	4 700
92,0	4 700	4 700
95,0	4 700	4 700
98,0	4 700	4 700
101,0	3 500	4 700
104,0	1 900	4 700
107,0	#	4 700
110,0		4 700
113,0	Raising Not Permitted	4 700
116,0		3 400
119,0		3 100
122,0		1 400
125,0		#

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	3 400	4 700
107,0	2 500	4 700
110,0	#	4 700
113,0	Raising Not Permitted	4 700
116,0		3 700
119,0		3 400
122,0		1 800
125,0		#

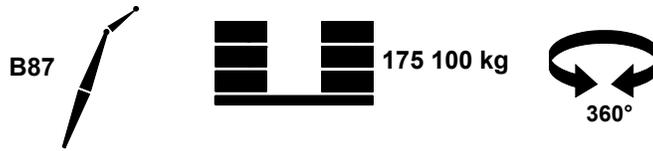
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. Crane tipping or structural damage can occur.

Explanation of Symbols

-  Boom No. B87:505-500
-  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)

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83,0 m				
m			10,6 m	14,6 m
kg			kg	kg
16,8	82,9	90,2	83 900	83 900
17,0	82,7	90,1	83 700	83 700
18,0	82,1	90,0	83 100	83 100
19,0	81,4	89,8	82 400	82 400
20,0	80,8	89,6	81 600	81 600
22,0	79,5	89,1	80 200	80 200
24,0	78,1	88,6	78 800	78 800
26,0	76,8	88,1	77 400	77 400
28,0	75,5	87,5	76 000	76 000
30,0	74,1	86,8	74 600	74 600
32,0	72,8	86,1	72 700	73 200
34,0	71,4	85,4	66 800	71 800
36,0	70,0	84,6	61 600	70 400
38,0	68,6	83,7	56 900	69 000
40,0	67,2	82,8	52 800	67 500
42,0	65,8	81,8	49 100	64 300
44,0	64,3	80,8	45 800	60 200
46,0	62,8	79,6	42 700	56 500
48,0	61,4	78,5	40 000	53 100
50,0	59,8	77,2	37 400	50 000
52,0	58,3	75,9	35 100	47 200
54,0	56,7	74,5	33 000	44 500
56,0	55,1	73,0	31 000	42 100
58,0	53,5	71,4	29 100	39 900
60,0	51,8	69,7	27 300	37 800
62,0	50,1	67,9	25 500	35 800
64,0	48,3	66,0	23 900	34 000
66,0	46,5	64,0	22 300	32 300
68,0	44,6	61,8	20 800	30 700
70,0	42,7	59,5	19 500	29 100
72,0	40,6	57,1	18 100	27 700
74,0	38,5	54,4	16 900	26 400
76,0	36,2	51,5	15 700	25 100
76,8	35,3	50,2	15 300	24 600

86,0 m				
m			10,6 m	14,6 m
kg			kg	kg
17,1	82,9	93,2	85 200	85 200
18,0	82,3	93,0	84 600	84 600
19,0	81,7	92,8	83 900	83 900
20,0	81,1	92,6	83 300	83 300
22,0	79,8	92,2	81 900	81 900
24,0	78,5	91,7	80 600	80 600
26,0	77,3	91,2	79 300	79 300
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	72 300	75 200
34,0	72,0	88,6	66 400	73 800
36,0	70,7	87,8	61 100	72 400
38,0	69,4	87,0	56 400	71 100
40,0	68,0	86,1	52 300	68 300
42,0	66,6	85,2	48 600	63 800
44,0	65,2	84,2	45 300	59 700
46,0	63,8	83,1	42 200	56 000
48,0	62,4	82,0	39 500	52 600
50,0	61,0	80,8	36 900	49 500
52,0	59,5	79,5	34 600	46 600
54,0	58,0	78,2	32 500	44 000
56,0	56,5	76,7	30 400	41 600
58,0	54,9	75,2	28 400	39 300
60,0	53,3	73,6	26 600	37 300
62,0	51,7	72,0	24 800	35 300
64,0	50,0	70,2	23 200	33 500
66,0	48,3	68,3	21 600	31 800
68,0	46,6	66,3	20 100	30 100
70,0	44,8	64,1	18 800	28 600
72,0	42,9	61,8	17 400	27 200
74,0	40,9	59,4	16 200	25 800
76,0	38,9	56,8	15 000	24 600
78,0	36,7	53,9	13 900	23 300
79,3	35,3	52,0	13 200	22 600

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175 100 kg

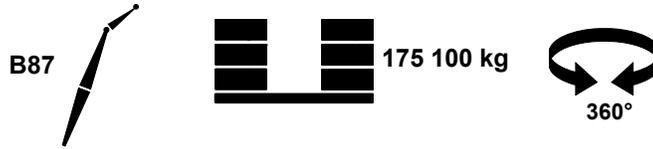


89,0 m				
m	m	m	kg	kg
17,4	83,0	96,2	90 000	90 000
18,0	82,6	96,1	89 700	89 700
19,0	82,0	95,9	89 100	89 100
20,0	81,4	95,7	88 500	88 500
22,0	80,1	95,3	87 300	87 300
24,0	78,9	94,8	86 600	86 600
26,0	77,7	94,3	86 600	86 600
28,0	76,4	93,7	85 100	86 600
30,0	75,2	93,1	78 500	86 600
32,0	73,9	92,5	71 600	86 600
34,0	72,6	91,8	65 600	84 800
36,0	71,3	91,0	60 400	78 400
38,0	70,0	90,2	55 700	72 600
40,0	68,7	89,4	51 600	67 600
42,0	67,4	88,5	47 800	63 000
44,0	66,1	87,5	44 500	58 900
46,0	64,7	86,5	41 400	55 200
48,0	63,4	85,4	38 700	51 800
50,0	62,0	84,2	36 100	48 700
52,0	60,6	83,0	33 800	45 800
54,0	59,1	81,8	31 500	43 200
56,0	57,7	80,4	29 300	40 800
58,0	56,2	79,0	27 300	38 500
60,0	54,7	77,5	25 400	36 400
62,0	53,2	75,9	23 700	34 500
64,0	51,6	74,2	22 000	32 600
66,0	50,0	72,4	20 500	30 900
68,0	48,3	70,5	19 000	29 300
70,0	46,6	68,5	17 600	27 800
72,0	44,9	66,4	16 300	26 400
74,0	43,0	64,1	15 100	25 000
76,0	41,2	61,7	13 900	23 700
78,0	39,2	59,1	12 800	22 500
80,0	37,1	56,3	11 700	21 400
81,7	35,3	53,8	10 800	20 400

92,0 m				
m	m	m	kg	kg
18,0	82,8	99,1	94 800	94 800
19,0	82,2	98,9	94 800	94 800
20,0	81,6	98,7	94 800	94 800
22,0	80,4	98,3	94 800	94 800
24,0	79,2	97,9	94 800	94 800
26,0	78,0	97,4	94 400	94 800
28,0	76,8	96,8	86 100	93 300
30,0	75,6	96,3	78 100	91 200
32,0	74,4	95,6	71 100	88 800
34,0	73,2	95,0	65 200	84 300
36,0	71,9	94,2	59 900	77 900
38,0	70,7	93,5	55 200	72 100
40,0	69,4	92,6	51 100	67 100
42,0	68,1	91,8	47 300	62 500
44,0	66,9	90,8	44 000	58 400
46,0	65,6	89,8	40 900	54 700
48,0	64,2	88,8	38 200	51 300
50,0	62,9	87,7	35 600	48 200
52,0	61,6	86,5	33 100	45 300
54,0	60,2	85,3	30 800	42 700
56,0	58,8	84,0	28 600	40 300
58,0	57,4	82,6	26 600	38 000
60,0	56,0	81,2	24 700	35 900
62,0	54,5	79,7	23 000	34 000
64,0	53,0	78,1	21 300	32 100
66,0	51,5	76,4	19 800	30 400
68,0	49,9	74,6	18 300	28 800
70,0	48,3	72,7	16 900	27 300
72,0	46,7	70,7	15 600	25 900
74,0	45,0	68,6	14 400	24 500
76,0	43,2	66,3	13 200	23 200
78,0	41,4	63,9	12 100	22 000
80,0	39,5	61,4	11 000	20 800
84,0	35,4	55,7	9 000	18 700
84,1	35,3	55,5	9 000	18 600

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95,0 m			10,6 m	14,6 m
m	m	m	kg	kg
18,3	82,9	102,1	100 000	100 000
19,0	82,5	102,0	100 000	100 000
20,0	81,9	101,8	100 000	100 000
22,0	80,7	101,4	99 600	99 600
24,0	79,6	101,0	97 600	97 600
26,0	78,4	100,5	95 400	95 700
28,0	77,2	100,0	86 000	93 100
30,0	76,1	99,4	78 000	90 000
32,0	74,9	98,8	71 000	87 000
34,0	73,7	98,1	65 000	83 600
36,0	72,5	97,4	59 800	77 700
38,0	71,3	96,7	55 100	72 000
40,0	70,1	95,9	50 900	66 900
42,0	68,8	95,1	47 200	62 400
44,0	67,6	94,2	43 800	58 200
46,0	66,4	93,2	40 800	54 500
48,0	65,1	92,2	38 000	51 100
50,0	63,8	91,1	35 400	48 000
52,0	62,5	90,0	32 900	45 200
54,0	61,2	88,8	30 600	42 500
56,0	59,9	87,6	28 400	40 100
58,0	58,5	86,3	26 400	37 900
60,0	57,1	84,9	24 500	35 800
62,0	55,7	83,5	22 700	33 800
64,0	54,3	81,9	21 100	32 000
66,0	52,9	80,3	19 500	30 300
68,0	51,4	78,6	18 100	28 700
70,0	49,9	76,9	16 700	27 100
72,0	48,3	75,0	15 400	25 700
74,0	46,7	73,0	14 200	24 400
76,0	45,1	70,9	13 000	23 100
78,0	43,4	68,6	11 900	21 900
80,0	41,6	66,3	10 800	20 700
84,0	37,9	61,0	8 800	18 600
86,6	35,3	57,3	7 600	17 300

98,0 m			10,6 m	14,6 m
m	m	m	kg	kg
18,6	82,9	105,1	97 900	97 900
19,0	82,7	105,0	97 900	97 900
20,0	82,1	104,8	97 900	97 900
22,0	81,0	104,5	96 300	96 300
24,0	79,9	104,0	92 900	92 900
26,0	78,7	103,6	89 600	89 600
28,0	77,6	103,1	85 100	86 400
30,0	76,5	102,5	77 500	83 400
32,0	75,3	101,9	70 500	80 400
34,0	74,2	101,3	64 500	77 700
36,0	73,0	100,6	59 300	75 100
38,0	71,9	99,9	54 600	71 400
40,0	70,7	99,1	50 400	66 400
42,0	69,5	98,3	46 700	61 900
44,0	68,3	97,4	43 300	57 700
46,0	67,1	96,5	40 300	54 000
48,0	65,9	95,6	37 400	50 600
50,0	64,6	94,5	34 700	47 500
52,0	63,4	93,5	32 100	44 600
54,0	62,1	92,3	29 800	42 000
56,0	60,8	91,1	27 700	39 600
58,0	59,5	89,9	25 600	37 300
60,0	58,2	88,5	23 800	35 200
62,0	56,9	87,2	22 000	33 300
64,0	55,5	85,7	20 300	31 400
66,0	54,1	84,2	18 800	29 700
68,0	52,7	82,6	17 300	28 100
70,0	51,3	80,9	16 000	26 600
72,0	49,8	79,1	14 700	25 200
74,0	48,3	77,2	13 400	23 800
76,0	46,8	75,2	12 300	22 500
78,0	45,2	73,1	11 100	21 300
80,0	43,5	70,9	10 100	20 200
84,0	40,1	66,0	8 100	18 000
88,0	36,3	60,5	6 300	16 100
89,3	35,0	58,5	5 700	15 500

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175 100 kg



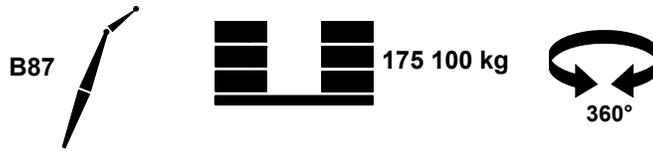
360°

101,0 m				
m	m	m	kg	kg
18,9	82,9	108,1	94 900	94 900
19,0	82,9	108,1	94 900	94 900
20,0	82,3	107,9	94 900	94 900
22,0	81,3	107,5	94 800	94 800
24,0	80,2	107,1	92 000	92 000
26,0	79,1	106,7	88 700	88 700
28,0	78,0	106,2	84 500	85 600
30,0	76,9	105,6	77 400	82 500
32,0	75,8	105,1	70 400	79 500
34,0	74,6	104,5	64 400	76 800
36,0	73,5	103,8	59 100	74 100
38,0	72,4	103,1	54 400	71 200
40,0	71,2	102,4	50 300	66 300
42,0	70,1	101,6	46 500	61 700
44,0	68,9	100,7	43 200	57 600
46,0	67,8	99,8	40 100	53 800
48,0	66,6	98,9	37 200	50 500
50,0	65,4	97,9	34 500	47 300
52,0	64,2	96,9	31 900	44 500
54,0	63,0	95,8	29 600	41 900
56,0	61,8	94,6	27 400	39 400
58,0	60,5	93,4	25 400	37 200
60,0	59,2	92,2	23 500	35 100
62,0	58,0	90,8	21 800	33 100
64,0	56,7	89,4	20 100	31 300
66,0	55,3	88,0	18 600	29 600
68,0	54,0	86,4	17 100	28 000
70,0	52,6	84,8	15 700	26 400
72,0	51,2	83,1	14 400	25 000
74,0	49,8	81,3	13 200	23 700
76,0	48,3	79,4	12 000	22 400
78,0	46,8	77,5	10 900	21 200
80,0	45,3	75,4	9 900	20 000
84,0	42,0	70,8	7 900	17 900
88,0	38,6	65,7	6 100	15 900
91,7	35,0	60,3	4 500	14 300

104,0 m				
m	m	m	kg	kg
19,2	83,0	111,0	92 000	92 000
20,0	82,6	110,9	92 000	92 000
22,0	81,5	110,6	89 700	89 700
24,0	80,4	110,2	86 400	86 400
26,0	79,4	109,7	83 200	83 200
28,0	78,3	109,3	80 100	80 100
30,0	77,2	108,7	76 200	77 100
32,0	76,2	108,2	69 900	74 200
34,0	75,1	107,6	63 900	71 400
36,0	74,0	107,0	58 600	68 900
38,0	72,9	106,3	53 900	66 400
40,0	71,8	105,6	49 700	64 200
42,0	70,7	104,8	46 000	61 100
44,0	69,5	104,0	42 600	57 100
46,0	68,4	103,1	39 400	53 300
48,0	67,3	102,2	36 500	49 900
50,0	66,1	101,3	33 700	46 800
52,0	65,0	100,3	31 200	43 900
54,0	63,8	99,2	28 800	41 300
56,0	62,6	98,1	26 700	38 900
58,0	61,4	96,9	24 600	36 600
60,0	60,2	95,7	22 800	34 500
62,0	58,9	94,4	21 000	32 600
64,0	57,7	93,1	19 400	30 700
66,0	56,4	91,7	17 800	29 000
68,0	55,1	90,2	16 400	27 400
70,0	53,8	88,7	15 000	25 900
72,0	52,5	87,0	13 700	24 500
74,0	51,1	85,3	12 400	23 100
76,0	49,7	83,5	11 300	21 800
78,0	48,3	81,7	10 200	20 600
80,0	46,8	79,7	9 100	19 500
84,0	43,8	75,4	7 200	17 300
88,0	40,6	70,7	5 400	15 400
89,9	38,6	68,1	4 500	14 500
92,0	37,1	65,3		13 600
94,2	35,1	62,0		12 700

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107,0 m				
m			kg	kg
19,8	82,9	114,0	88 300	88 300
20,0	82,8	113,9	88 300	88 300
22,0	81,7	113,6	88 300	88 300
24,0	80,7	113,2	86 000	86 000
26,0	79,7	112,8	82 900	82 900
28,0	78,6	112,3	79 800	79 800
30,0	77,6	111,8	76 100	76 800
32,0	76,5	111,3	69 900	73 900
34,0	75,5	110,7	63 900	71 200
36,0	74,4	110,1	58 600	68 600
38,0	73,4	109,4	53 900	66 100
40,0	72,3	108,7	49 700	63 800
42,0	71,2	108,0	46 000	61 000
44,0	70,1	107,2	42 600	57 000
46,0	69,0	106,4	39 400	53 300
48,0	67,9	105,5	36 400	49 900
50,0	66,8	104,6	33 700	46 800
52,0	65,7	103,6	31 100	43 900
54,0	64,5	102,6	28 800	41 300
56,0	63,4	101,5	26 600	38 900
58,0	62,2	100,4	24 600	36 600
60,0	61,1	99,2	22 700	34 500
62,0	59,9	98,0	21 000	32 500
64,0	58,7	96,7	19 300	30 700
66,0	57,4	95,3	17 800	29 000
68,0	56,2	93,9	16 300	27 400
70,0	54,9	92,4	14 900	25 900
72,0	53,7	90,9	13 600	24 400
74,0	52,4	89,2	12 400	23 100
76,0	51,0	87,5	11 200	21 800
78,0	49,7	85,8	10 100	20 600
80,0	48,3	83,9	9 100	19 500
84,0	45,4	79,8	7 100	17 300
88,0	42,4	75,4	5 300	15 400
89,9	40,6	73,0	4 500	14 500
92,0	39,1	70,4		13 600
96,0	35,6	64,7		12 000
96,6	35,1	63,7		11 700

110,0 m				
m			kg	kg
20,1	82,9	117,0	83 700	83 700
22,0	81,9	116,7	83 700	83 700
24,0	80,9	116,3	81 200	81 200
26,0	79,9	115,9	78 100	78 100
28,0	78,9	115,4	75 100	75 100
30,0	77,9	114,9	72 200	72 200
32,0	76,9	114,4	69 400	69 400
34,0	75,9	113,9	63 400	66 700
36,0	74,8	113,3	58 100	64 200
38,0	73,8	112,6	53 400	61 800
40,0	72,8	111,9	49 200	59 600
42,0	71,7	111,2	45 400	57 500
44,0	70,7	110,4	41 900	55 500
46,0	69,6	109,6	38 600	52 800
48,0	68,5	108,8	35 600	49 400
50,0	67,4	107,9	32 900	46 200
52,0	66,4	107,0	30 400	43 400
54,0	65,3	106,0	28 000	40 700
56,0	64,2	104,9	25 900	38 300
58,0	63,0	103,8	23 800	36 000
60,0	61,9	102,7	22 000	33 900
62,0	60,8	101,5	20 200	32 000
64,0	59,6	100,3	18 500	30 100
66,0	58,4	99,0	17 000	28 400
68,0	57,2	97,6	15 500	26 800
70,0	56,0	96,2	14 200	25 300
72,0	54,8	94,7	12 900	23 900
74,0	53,5	93,1	11 600	22 500
76,0	52,3	91,5	10 500	21 200
78,0	51,0	89,8	9 400	20 000
80,0	49,6	88,0	8 300	18 900
84,0	46,9	84,2	6 300	16 800
86,9	44,6	81,1	5 000	15 400
88,0	44,0	79,9		14 800
92,0	41,0	75,3		13 100
96,0	37,8	70,0		11 400
99,1	35,1	65,5		10 300

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175 100 kg

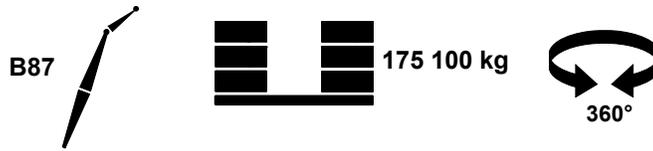


113,0 m				
m	m	m	kg	kg
20,4	82,9	120,0	79 500	79 500
22,0	82,1	119,7	79 500	79 500
24,0	81,2	119,3	77 200	77 200
26,0	80,2	118,9	74 100	74 100
28,0	79,2	118,5	71 200	71 200
30,0	78,2	118,0	68 400	68 400
32,0	77,2	117,5	65 700	65 700
34,0	76,2	117,0	62 600	63 100
36,0	75,2	116,4	57 900	60 600
38,0	74,2	115,8	53 200	58 200
40,0	73,2	115,1	49 000	56 100
42,0	72,2	114,4	45 200	54 000
44,0	71,2	113,6	41 600	52 100
46,0	70,1	112,9	38 400	50 300
48,0	69,1	112,0	35 400	48 500
50,0	68,1	111,2	32 600	46 000
52,0	67,0	110,3	30 100	43 200
54,0	65,9	109,3	27 800	40 600
56,0	64,9	108,3	25 600	38 100
58,0	63,8	107,2	23 600	35 900
60,0	62,7	106,1	21 700	33 800
62,0	61,6	105,0	19 900	31 800
64,0	60,4	103,8	18 300	30 000
66,0	59,3	102,5	16 700	28 300
68,0	58,2	101,2	15 300	26 600
70,0	57,0	99,9	13 900	25 100
72,0	55,8	98,4	12 600	23 700
74,0	54,6	96,9	11 400	22 300
76,0	53,4	95,4	10 200	21 100
78,0	52,2	93,7	9 100	19 900
80,0	50,9	92,0	8 100	18 700
84,0	48,3	88,4	6 100	16 600
86,9	45,8	85,5	4 800	15 200
88,0	45,6	84,3		14 600
92,0	42,7	79,9		12 900
96,0	39,7	75,0		11 300
100,0	36,4	69,5		9 800
101,5	35,1	67,3		9 200

116,0 m				
m	m	m	kg	kg
20,7	82,9	122,9	75 100	75 100
22,0	82,3	122,8	75 100	75 100
24,0	81,4	122,4	75 100	75 100
26,0	80,4	122,0	75 100	75 100
28,0	79,5	121,6	73 800	73 800
30,0	78,5	121,1	71 000	71 000
32,0	77,6	120,6	68 300	68 300
34,0	76,6	120,1	62 800	65 700
36,0	75,6	119,5	57 400	63 200
38,0	74,6	118,9	52 700	60 800
40,0	73,6	118,3	48 500	58 500
42,0	72,7	117,6	44 500	56 400
44,0	71,7	116,9	40 900	54 300
46,0	70,7	116,1	37 600	52 100
48,0	69,6	115,3	34 700	48 700
50,0	68,6	114,5	31 900	45 500
52,0	67,6	113,6	29 400	42 700
54,0	66,6	112,7	27 000	40 000
56,0	65,5	111,7	24 800	37 600
58,0	64,5	110,7	22 800	35 300
60,0	63,4	109,6	20 900	33 200
62,0	62,3	108,5	19 200	31 300
64,0	61,3	107,3	17 500	29 400
66,0	60,2	106,1	16 000	27 700
68,0	59,1	104,8	14 500	26 100
70,0	57,9	103,5	13 100	24 600
72,0	56,8	102,1	11 800	23 100
74,0	55,6	100,7	10 600	21 800
76,0	54,5	99,2	9 400	20 500
78,0	53,3	97,6	8 300	19 300
80,0	52,1	96,0	7 300	18 200
84,0	49,6	92,5	5 300	16 000
85,3	48,0	91,2	4 700	15 400
88,0	47,0	88,7		14 100
92,0	44,3	84,5		12 300
96,0	41,4	79,8		10 700
100,0	38,4	74,7		9 200
103,9	35,1	69,0		7 800

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119,0 m			10,6 m	14,6 m
m	m	m	kg	kg
21,0	83,0	125,9	71 200	71 200
22,0	82,5	125,8	71 200	71 200
24,0	81,6	125,4	71 100	71 100
26,0	80,7	125,1	71 100	71 100
28,0	79,7	124,6	70 300	70 300
30,0	78,8	124,2	67 600	67 600
32,0	77,9	123,7	65 000	65 000
34,0	76,9	123,2	62 200	62 500
36,0	76,0	122,6	57 800	60 000
38,0	75,0	122,0	53 100	57 800
40,0	74,0	121,4	48 900	55 500
42,0	73,1	120,7	45 000	53 500
44,0	72,1	120,0	41 400	51 600
46,0	71,1	119,3	38 100	49 700
48,0	70,2	118,5	35 100	48 000
50,0	69,2	117,7	32 400	45 800
52,0	68,2	116,8	29 900	43 000
54,0	67,2	115,9	27 500	40 400
56,0	66,2	115,0	25 300	38 000
58,0	65,1	114,0	23 300	35 700
60,0	64,1	113,0	21 400	33 600
62,0	63,1	111,9	19 700	31 600
64,0	62,0	110,8	18 000	29 800
66,0	61,0	109,6	16 500	28 100
68,0	59,9	108,4	15 000	26 500
70,0	58,8	107,1	13 700	25 000
72,0	57,7	105,8	12 400	23 500
74,0	56,6	104,4	11 100	22 200
76,0	55,5	102,9	10 000	20 900
78,0	54,3	101,4	8 900	19 700
80,0	53,2	99,8	7 800	18 600
84,0	50,8	96,5	5 900	16 400
86,9	48,6	93,9	4 600	15 000
88,0	48,3	92,8		14 500
92,0	45,7	88,8		12 700
96,0	43,0	84,5		11 100
100,0	40,1	79,6		9 600
104,0	37,1	74,3		8 300
106,4	35,1	70,8		7 500

122,0 m			10,6 m	14,6 m
m	m	m	kg	kg
21,6	82,9	128,9	66 600	66 600
22,0	82,7	128,8	66 600	66 600
24,0	81,8	128,5	66 600	66 600
26,0	80,9	128,1	66 600	66 600
28,0	80,0	127,7	66 200	66 200
30,0	79,1	127,3	64 200	64 200
32,0	78,1	126,8	61 600	61 600
34,0	77,2	126,3	59 200	59 200
36,0	76,3	125,8	56 600	56 800
38,0	75,4	125,2	52 500	54 600
40,0	74,4	124,6	48 200	52 500
42,0	73,5	123,9	44 200	50 400
44,0	72,6	123,2	40 600	48 500
46,0	71,6	122,5	37 400	46 700
48,0	70,6	121,8	34 400	45 000
50,0	69,7	121,0	31 600	43 400
52,0	68,7	120,1	29 100	41 800
54,0	67,7	119,3	26 700	39 800
56,0	66,8	118,3	24 500	37 400
58,0	65,8	117,4	22 500	35 100
60,0	64,8	116,4	20 600	33 000
62,0	63,8	115,3	18 900	31 100
64,0	62,7	114,2	17 200	29 200
66,0	61,7	113,1	15 700	27 500
68,0	60,7	111,9	14 200	25 900
70,0	59,6	110,7	12 800	24 400
72,0	58,6	109,4	11 600	22 900
74,0	57,5	108,1	10 300	21 600
76,0	56,4	106,7	9 200	20 300
78,0	55,3	105,2	8 100	19 100
80,0	54,2	103,7	7 000	18 000
83,8	51,1	100,6	5 100	15 900
84,0	51,9	100,5		15 800
88,0	49,5	97,0		13 900
92,0	47,0	93,2		12 100
96,0	44,5	89,0		10 500
100,0	41,8	84,4		9 000
104,0	38,9	79,4		7 700
108,0	35,8	73,8		6 400
108,8	35,1	72,5		6 100

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175 100 kg



 125,0 m				
 m			 10,6 m	
 m			 14,6 m	
			kg	
21,9	82,9	131,9	63 700	63 700
22,0	82,9	131,9	63 700	63 700
24,0	82,0	131,5	63 700	63 700
26,0	81,1	131,2	63 600	63 600
28,0	80,2	130,8	63 300	63 300
30,0	79,3	130,3	61 700	61 700
32,0	78,4	129,9	60 200	60 200
34,0	77,5	129,4	58 900	58 900
36,0	76,6	128,9	56 600	57 500
38,0	75,7	128,3	52 300	56 200
40,0	74,8	127,7	48 000	54 100
42,0	73,9	127,1	44 000	52 100
44,0	73,0	126,4	40 400	50 100
46,0	72,0	125,7	37 100	48 300
48,0	71,1	125,0	34 100	46 500
50,0	70,2	124,2	31 300	44 900
52,0	69,2	123,4	28 800	42 300
54,0	68,3	122,5	26 500	39 700
56,0	67,3	121,6	24 300	37 200
58,0	66,4	120,7	22 300	34 900
60,0	65,4	119,7	20 400	32 800
62,0	64,4	118,7	18 600	30 900
64,0	63,4	117,7	17 000	29 000
66,0	62,4	116,5	15 400	27 300
68,0	61,4	115,4	14 000	25 700
70,0	60,4	114,2	12 600	24 200
72,0	59,4	112,9	11 300	22 800
74,0	58,3	111,7	10 100	21 400
76,0	57,3	110,3	8 900	20 100
78,0	56,2	108,9	7 800	18 900
80,0	55,1	107,4	6 700	17 800
83,8	52,1	104,5	4 900	15 700
84,0	52,9	104,3		15 600
88,0	50,6	101,0		13 700
92,0	48,3	97,3		11 900
96,0	45,8	93,3		10 300
100,0	43,2	89,0		8 800
104,0	40,5	84,2		7 500
108,0	37,7	79,0		6 200
111,3	35,1	74,3		5 200