

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. B10:76A


Luffing Jib No. 135

67 860 kg Crane Counterweight

27 400 kg Carbody Counterweight

360 Degree Rating

MLC200 SERIES 2

 **LIFTING CAPACITIES:** Lifting capacities for various boom lengths, luffing jib lengths, boom-to-luffing jib angles, and boom 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.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves is considered part of load. Weight of luffing jib and 1 360 kg suspended beneath luffing jib point sheaves have been included in capacity determination. 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. Supporting surface and bearing turntable are to be level within a tolerance of 13 mm in 3 m. During operation, luffing jib must be maintained at proper boom-to-luffing jib angle shown in table. Refer to Boom Rigging **No. 80149429**, Luffing Jib Rigging **No. 80149433**, Wire Rope Specifications chart **No. A037-A**, Counterweight Arrangements chart **No. A004-A**, Luffing Jib Raising Procedure chart **No. A032-AM**, and Wind Conditions chart **No. A031-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 and luffing jib must be within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specifications chart **No. A033-A**.



OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.



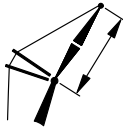
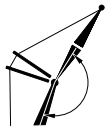
BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



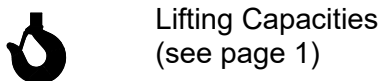
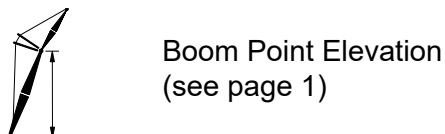
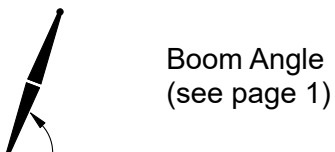
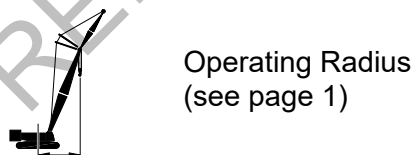
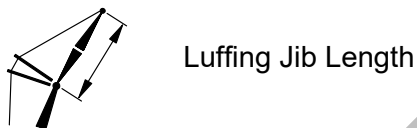
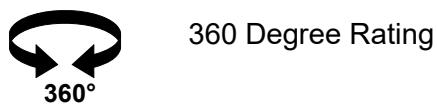
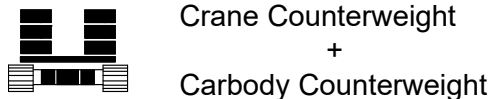
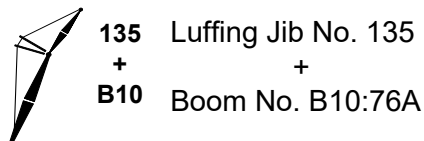
BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 8 280 mm crawlers, 1 200 mm treads, 3 124 mm retractable gantry, 8 250 mm live mast, 20 part boom hoist reeving, boom support straps, 8 part luffing jib hoist reeving, two 38 mm luffing jib pendants and backstays.

Consult chart **No. A028-AM** for luffing jib capacities.

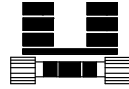
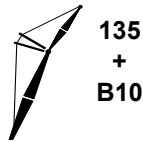
Luffing Jib Position During Operation	
	
Luffing Jib Length Meters	Boom-to-Luffing Jib Angle Degrees
21,3	140
24,4 - 27,4	150
30,5 - 36,6	160
39,6 - 51,8	168

Explanation of Symbols

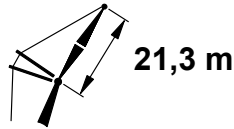


MLC200 S-2

ASME B30.5



67 860 kg
+
27 400 kg



20,0 m			
m	°	m	kg
4,6	83,2	22,3	163 500
5,0	82,0	22,2	150 000
5,5	80,5	22,1	136 100
6,0	79,0	22,0	124 700
7,0	76,1	21,7	107 300
8,0	73,1	21,4	92 100
8,8	70,5	21,1	81 900

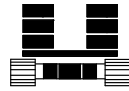
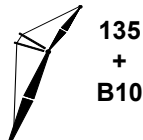
23,0 m			
m	°	m	kg
5,2	82,6	25,2	144 500
5,5	81,8	25,2	136 100
6,0	80,5	25,1	124 700
7,0	77,9	24,9	107 300
8,0	75,4	24,6	92 300
9,0	72,8	24,3	80 400
9,8	70,8	24,0	72 600

26,0 m			
m	°	m	kg
5,5	82,8	28,2	136 500
6,0	81,6	28,1	124 800
7,0	79,4	27,9	107 300
8,0	77,1	27,7	92 400
9,0	74,8	27,4	80 500
10,0	72,5	27,1	69 700
11,0	70,2	26,7	59 600

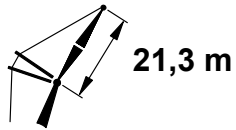
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MLC200 S-2

ASME B30.5



67 860 kg
+
27 400 kg



29,0 m			
m	o	m	kg
5,8	82,9	31,2	129 100
6,0	82,5	31,1	124 600
7,0	80,5	31,0	107 300
8,0	78,4	30,8	92 300
9,0	76,4	30,5	80 400
10,0	74,4	30,2	69 700
11,0	72,3	29,9	59 800
11,9	70,4	29,6	52 100

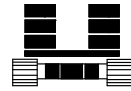
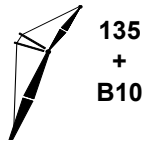
32,0 m			
m	o	m	kg
6,1	83,0	34,2	122 600
7,0	81,4	34,0	107 300
8,0	79,6	33,8	92 400
9,0	77,7	33,6	80 600
10,0	75,9	33,4	69 900
11,0	74,0	33,1	60 100
12,0	72,1	32,7	51 700
13,0	70,2	32,4	44 900
13,1	70,0	32,3	44 200

35,0 m			
m	o	m	kg
6,4	83,1	37,2	116 400
7,0	82,1	37,1	106 700
8,0	80,5	36,9	92 200
9,0	78,8	36,7	80 400
10,0	77,1	36,5	69 900
11,0	75,4	36,2	60 200
12,0	73,7	35,9	51 800
13,0	72,0	35,6	45 200
14,0	70,2	35,2	39 400

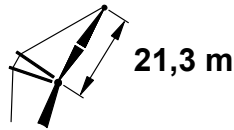
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ASME B30.5



67 860 kg
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38,0 m			
m	o	m	kg
6,7	83,2	40,1	107 300
7,0	82,8	40,1	103 900
8,0	81,2	40,0	92 200
9,0	79,7	39,8	80 300
10,0	78,1	39,6	69 900
11,0	76,6	39,3	60 300
12,0	75,0	39,0	51 800
13,0	73,5	38,7	45 300
14,0	71,9	38,4	39 600
14,9	70,4	38,1	35 200

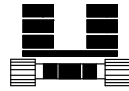
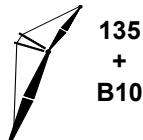
41,0 m			
m	o	m	kg
7,3	82,8	43,1	99 600
8,0	81,9	43,0	91 900
9,0	80,5	42,8	80 000
10,0	79,0	42,6	69 800
11,0	77,6	42,4	60 300
12,0	76,2	42,1	51 800
13,0	74,7	41,9	45 300
14,0	73,2	41,6	39 600
15,0	71,8	41,2	35 000
16,0	70,3	40,9	31 000
16,2	70,1	40,8	30 400

44,0 m			
m	o	m	kg
7,6	82,9	46,1	88 100
8,0	82,4	46,0	85 700
9,0	81,1	45,9	79 300
10,0	79,8	45,7	69 800
11,0	78,5	45,5	60 400
12,0	77,1	45,2	51 900
13,0	75,8	45,0	45 300
14,0	74,4	44,7	39 600
15,0	73,1	44,4	35 000
16,0	71,7	44,1	31 200
17,0	70,3	43,7	27 700
17,1	70,2	43,7	27 500

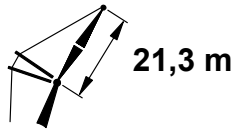
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67 860 kg
+
27 400 kg



47,0 m

m	o	m	kg
7,9	83,0	49,1	82 900
8,0	82,9	49,1	82 600
9,0	81,7	48,9	78 000
10,0	80,4	48,7	69 400
11,0	79,2	48,5	60 400
12,0	78,0	48,3	51 900
13,0	76,7	48,1	45 300
14,0	75,4	47,8	39 600
15,0	74,2	47,5	35 000
16,0	72,9	47,2	31 100
17,0	71,6	46,9	27 700
18,0	70,3	46,5	24 800

50,0 m

m	o	m	kg
8,2	83,1	52,0	78 000
9,0	82,2	51,9	74 900
10,0	81,0	51,8	68 100
11,0	79,9	51,6	60 400
12,0	78,7	51,4	51 800
13,0	77,5	51,2	45 200
14,0	76,3	50,9	39 500
15,0	75,1	50,6	34 900
16,0	74,0	50,3	31 100
17,0	72,8	50,0	27 600
18,0	71,5	49,7	24 700
19,0	70,3	49,3	22 100
19,2	70,1	49,3	21 600

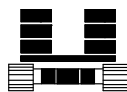
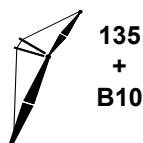
53,0 m

m	o	m	kg
8,5	83,1	55,0	74 100
9,0	82,6	55,0	72 300
10,0	81,5	54,8	66 900
11,0	80,4	54,7	60 300
12,0	79,3	54,5	51 800
13,0	78,2	54,2	45 200
14,0	77,1	54,0	39 400
15,0	76,0	53,8	34 800
16,0	74,9	53,5	31 000
17,0	73,8	53,2	27 500
18,0	72,6	52,9	24 600
19,0	71,5	52,5	22 100
20,0	70,3	52,2	19 700
20,1	70,2	52,1	19 500

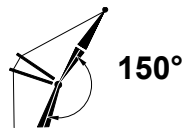
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ASME B30.5



67 860 kg
+
27 400 kg



20,0 m

m	o	m	kg
4,6	83,2	22,3	163 600
5,0	82,0	22,2	150 100
5,5	80,5	22,1	136 100
6,0	79,0	22,0	124 600
7,0	76,1	21,7	107 000
8,0	73,1	21,4	91 900
9,0	70,0	21,1	79 800
10,0	66,9	20,6	68 600
10,7	64,8	20,3	61 200

23,0 m

m	o	m	kg
5,2	82,6	25,2	144 500
5,5	81,8	25,2	136 100
6,0	80,5	25,1	124 600
7,0	77,9	24,9	107 100
8,0	75,4	24,6	92 000
9,0	72,8	24,3	80 000
10,0	70,1	23,9	68 900
11,0	67,4	23,5	58 900
12,0	64,6	23,0	50 400
12,2	64,1	22,9	48 800

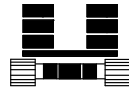
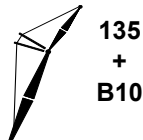
26,0 m

m	o	m	kg
5,5	82,8	28,2	136 500
6,0	81,6	28,1	124 800
7,0	79,4	27,9	107 200
8,0	77,1	27,7	92 200
9,0	74,8	27,4	80 200
10,0	72,5	27,1	69 300
11,0	70,1	26,7	59 300
12,0	67,8	26,3	50 800
13,0	65,3	25,8	44 100
13,4	64,3	25,6	41 600

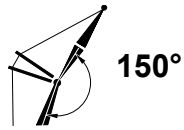
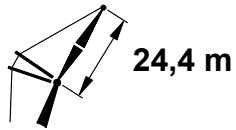
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ASME B30.5



67 860 kg
+
27 400 kg



<p>29,0 m</p>			
m	o	m	kg
5,8	82,9	31,2	129 100
6,0	82,5	31,1	124 600
7,0	80,5	31,0	107 200
8,0	78,4	30,8	92 100
9,0	76,4	30,5	80 100
10,0	74,4	30,2	69 400
11,0	72,3	29,9	59 600
12,0	70,2	29,5	51 100
13,0	68,0	29,1	44 500
14,0	65,9	28,7	38 800
14,6	64,5	28,4	35 700

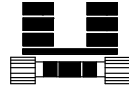
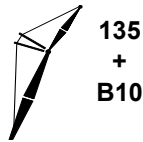
<p>32,0 m</p>			
m	o	m	kg
6,1	83,0	34,2	122 600
7,0	81,4	34,0	107 300
8,0	79,6	33,8	92 200
9,0	77,7	33,6	80 300
10,0	75,9	33,4	69 600
11,0	74,0	33,1	59 800
12,0	72,1	32,7	51 300
13,0	70,2	32,4	44 800
14,0	68,3	32,0	39 100
15,0	66,3	31,5	34 500
16,0	64,3	31,0	30 500
16,2	64,0	31,0	30 000

<p>35,0 m</p>			
m	o	m	kg
6,4	83,1	37,2	116 400
7,0	82,1	37,1	106 700
8,0	80,5	36,9	92 100
9,0	78,8	36,7	80 100
10,0	77,1	36,5	69 600
11,0	75,4	36,2	60 000
12,0	73,7	35,9	51 400
13,0	72,0	35,6	44 900
14,0	70,2	35,2	39 200
15,0	68,5	34,8	34 600
16,0	66,7	34,4	30 700
17,0	64,9	33,9	27 200
17,4	64,2	33,7	26 100

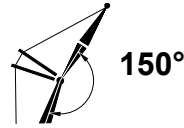
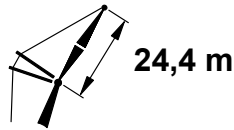
REFERENCED

MLC200 S-2

ASME B30.5



67 860 kg
+
27 400 kg



38,0 m

m	°	m	kg	m	kg	m	kg
6,7	83,2	40,1	107 400				
7,0	82,8	40,1	103 900				
8,0	81,2	40,0	92 100				
9,0	79,7	39,8	80 100				
10,0	78,1	39,6	69 700				
11,0	76,6	39,3	60 100				
12,0	75,0	39,0	51 500				
13,0	73,5	38,7	45 000				
14,0	71,9	38,4	39 200				
15,0	70,3	38,0	34 600				
16,0	68,6	37,6	30 800				
17,0	67,0	37,2	27 300				
18,0	65,3	36,8	24 400				
18,6	64,4	36,5	22 800				

41,0 m

m	°	m	kg	m	kg	m	kg
7,3	82,8	43,1	99 700				
8,0	81,9	43,0	91 900				
9,0	80,5	42,8	79 900				
10,0	79,0	42,6	69 600				
11,0	77,6	42,4	60 100				
12,0	76,2	42,1	51 600				
13,0	74,7	41,9	45 000				
14,0	73,2	41,6	39 300				
15,0	71,8	41,2	34 600				
16,0	70,3	40,9	30 800				
17,0	68,8	40,5	27 300				
18,0	67,3	40,0	24 400				
19,0	65,7	39,6	21 900				
19,8	64,5	39,2	20 000				

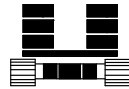
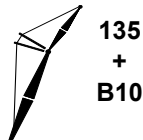
44,0 m

m	°	m	kg	m	kg	m	kg
7,6	82,9	46,1	88 200				
8,0	82,4	46,0	85 700				
9,0	81,1	45,9	79 100				
10,0	79,8	45,7	69 700				
11,0	78,5	45,5	60 200				
12,0	77,1	45,2	51 700				
13,0	75,8	45,0	45 100				
14,0	74,4	44,7	39 300				
15,0	73,1	44,4	34 700				
16,0	71,7	44,1	30 800				
17,0	70,3	43,7	27 400				
18,0	68,9	43,3	24 500				
19,0	67,5	42,9	22 000				
20,0	66,1	42,4	19 700				
21,3	64,1	41,8	17 000				

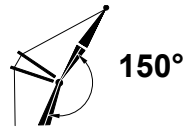
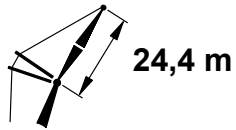
REFER TO

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ASME B30.5



67 860 kg
+
27 400 kg



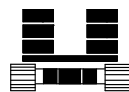
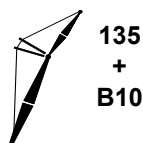
47,0 m			
m	o	m	kg
7,9	83,0	49,1	82 900
8,0	82,9	49,1	82 600
9,0	81,7	48,9	77 900
10,0	80,4	48,7	69 300
11,0	79,2	48,5	60 300
12,0	78,0	48,3	51 700
13,0	76,7	48,1	45 000
14,0	75,4	47,8	39 300
15,0	74,2	47,5	34 700
16,0	72,9	47,2	30 800
17,0	71,6	46,9	27 300
18,0	70,3	46,5	24 400
19,0	69,0	46,1	21 900
20,0	67,7	45,7	19 600
22,0	65,0	44,8	15 800
22,6	64,3	44,5	14 800

50,0 m			
m	o	m	kg
8,2	83,1	52,0	77 900
9,0	82,2	51,9	74 900
10,0	81,0	51,8	68 000
11,0	79,9	51,6	60 300
12,0	78,7	51,4	51 700
13,0	77,5	51,2	45 000
14,0	76,3	50,9	39 300
15,0	75,1	50,6	34 600
16,0	74,0	50,3	30 800
17,0	72,8	50,0	27 300
18,0	71,5	49,7	24 400
19,0	70,3	49,3	21 800
20,0	69,1	48,9	19 500
22,0	66,6	48,1	15 700
23,8	64,4	47,3	12 900

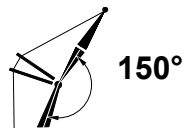
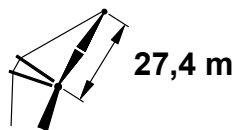
53,0 m			
m	o	m	kg
8,5	83,1	55,0	74 000
9,0	82,6	55,0	72 200
10,0	81,5	54,8	66 900
11,0	80,4	54,7	60 300
12,0	79,3	54,5	51 600
13,0	78,2	54,2	45 000
14,0	77,1	54,0	39 200
15,0	76,0	53,8	34 600
16,0	74,9	53,5	30 700
17,0	73,8	53,2	27 200
18,0	72,6	52,9	24 300
19,0	71,5	52,5	21 700
20,0	70,3	52,2	19 400
22,0	68,0	51,4	15 600
24,0	65,7	50,5	12 500
25,3	64,1	49,9	10 500

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ASME B30.5



67 860 kg
+
27 400 kg



20,0 m			
m	o	m	kg
4,6	83,2	22,3	162 100
5,0	82,0	22,2	148 600
5,5	80,5	22,1	134 700
6,0	79,0	22,0	123 300
7,0	76,1	21,7	105 800
8,0	73,1	21,4	90 600
9,0	70,0	21,1	78 400
10,0	66,9	20,6	67 100
10,7	64,8	20,3	59 800

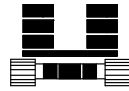
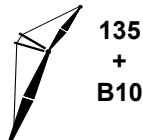
23,0 m			
m	o	m	kg
5,2	82,6	25,2	143 200
5,5	81,8	25,2	134 800
6,0	80,5	25,1	123 400
7,0	77,9	24,9	105 900
8,0	75,4	24,6	90 800
9,0	72,8	24,3	78 600
10,0	70,1	23,9	67 600
11,0	67,4	23,5	57 600
12,0	64,6	23,0	49 200
12,2	64,1	22,9	47 600

26,0 m			
m	o	m	kg
5,5	82,8	28,2	135 200
6,0	81,6	28,1	123 500
7,0	79,4	27,9	106 100
8,0	77,1	27,7	91 000
9,0	74,8	27,4	78 800
10,0	72,5	27,1	67 900
11,0	70,1	26,7	58 000
12,0	67,8	26,3	49 600
13,0	65,3	25,8	43 000
13,4	64,3	25,6	40 500

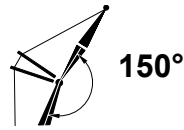
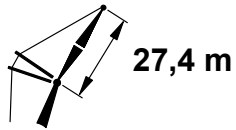
REFERENCIA

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67 860 kg
+
27 400 kg



<p>29,0 m</p>			
m	o	m	kg
5,8	82,9	31,2	127 900
6,0	82,5	31,1	123 400
7,0	80,5	31,0	106 000
8,0	78,4	30,8	91 000
9,0	76,4	30,5	78 800
10,0	74,4	30,2	68 100
11,0	72,3	29,9	58 300
12,0	70,2	29,5	49 900
13,0	68,0	29,1	43 400
14,0	65,9	28,7	37 700
14,6	64,5	28,4	34 700

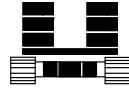
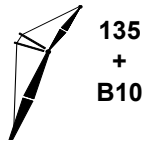
<p>32,0 m</p>			
m	o	m	kg
6,1	83,0	34,2	121 400
7,0	81,4	34,0	106 200
8,0	79,6	33,8	91 100
9,0	77,7	33,6	79 000
10,0	75,9	33,4	68 400
11,0	74,0	33,1	58 600
12,0	72,1	32,7	50 200
13,0	70,2	32,4	43 700
14,0	68,3	32,0	38 100
15,0	66,3	31,5	33 500
16,0	64,3	31,0	29 600
16,2	64,0	31,0	29 100

<p>35,0 m</p>			
m	o	m	kg
6,4	83,1	37,2	115 200
7,0	82,1	37,1	105 600
8,0	80,5	36,9	91 000
9,0	78,8	36,7	78 900
10,0	77,1	36,5	68 400
11,0	75,4	36,2	58 800
12,0	73,7	35,9	50 400
13,0	72,0	35,6	43 800
14,0	70,2	35,2	38 200
15,0	68,5	34,8	33 600
16,0	66,7	34,4	29 800
17,0	64,9	33,9	26 400
17,4	64,2	33,7	25 300

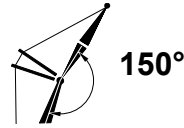
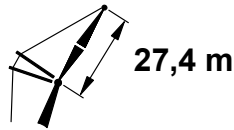
REFERENCED

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67 860 kg
+
27 400 kg



38,0 m

m	o	m	kg
6,7	83,2	40,1	106 300
7,0	82,8	40,1	102 800
8,0	81,2	40,0	91 000
9,0	79,7	39,8	78 800
10,0	78,1	39,6	68 500
11,0	76,6	39,3	58 900
12,0	75,0	39,0	50 500
13,0	73,5	38,7	43 900
14,0	71,9	38,4	38 300
15,0	70,3	38,0	33 700
16,0	68,6	37,6	29 900
17,0	67,0	37,2	26 500
18,0	65,3	36,8	23 600
18,6	64,4	36,5	22 100

41,0 m

m	o	m	kg
7,3	82,8	43,1	98 600
8,0	81,9	43,0	90 800
9,0	80,5	42,8	78 600
10,0	79,0	42,6	68 400
11,0	77,6	42,4	59 000
12,0	76,2	42,1	50 500
13,0	74,7	41,9	44 000
14,0	73,2	41,6	38 300
15,0	71,8	41,2	33 700
16,0	70,3	40,9	29 900
17,0	68,8	40,5	26 500
18,0	67,3	40,0	23 600
19,0	65,7	39,6	21 100
19,8	64,5	39,2	19 200

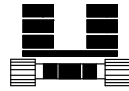
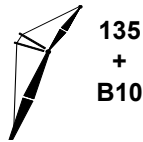
44,0 m

m	o	m	kg
7,6	82,9	46,1	87 200
8,0	82,4	46,0	84 600
9,0	81,1	45,9	77 900
10,0	79,8	45,7	68 500
11,0	78,5	45,5	59 100
12,0	77,1	45,2	50 600
13,0	75,8	45,0	44 100
14,0	74,4	44,7	38 400
15,0	73,1	44,4	33 800
16,0	71,7	44,1	30 000
17,0	70,3	43,7	26 600
18,0	68,9	43,3	23 700
19,0	67,5	42,9	21 200
20,0	66,1	42,4	18 900
21,3	64,1	41,8	16 300

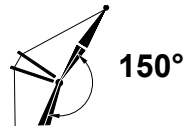
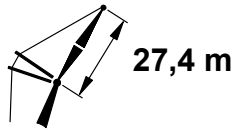
REFER TO THE

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ASME B30.5



67 860 kg
+
27 400 kg



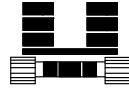
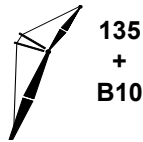
<p>47,0 m</p>			
m	°	m	kg
7,9	83,0	49,1	82 000
8,0	82,9	49,1	81 700
9,0	81,7	48,9	77 000
10,0	80,4	48,7	68 300
11,0	79,2	48,5	59 100
12,0	78,0	48,3	50 600
13,0	76,7	48,1	44 100
14,0	75,4	47,8	38 400
15,0	74,2	47,5	33 800
16,0	72,9	47,2	30 000
17,0	71,6	46,9	26 500
18,0	70,3	46,5	23 700
19,0	69,0	46,1	21 200
20,0	67,7	45,7	18 900
22,0	65,0	44,8	15 100
22,6	64,3	44,5	14 200

<p>50,0 m</p>			
m	°	m	kg
8,2	83,1	52,0	77 000
9,0	82,2	51,9	74 000
10,0	81,0	51,8	67 000
11,0	79,9	51,6	59 200
12,0	78,7	51,4	50 600
13,0	77,5	51,2	44 100
14,0	76,3	50,9	38 400
15,0	75,1	50,6	33 800
16,0	74,0	50,3	29 900
17,0	72,8	50,0	26 500
18,0	71,5	49,7	23 600
19,0	70,3	49,3	21 100
20,0	69,1	48,9	18 800
22,0	66,6	48,1	15 100
23,8	64,4	47,3	12 300

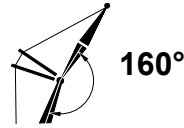
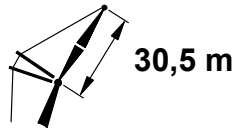
<p>53,0 m</p>			
m	°	m	kg
8,5	83,1	55,0	73 200
9,0	82,6	55,0	71 400
10,0	81,5	54,8	65 900
11,0	80,4	54,7	59 200
12,0	79,3	54,5	50 600
13,0	78,2	54,2	44 000
14,0	77,1	54,0	38 300
15,0	76,0	53,8	33 700
16,0	74,9	53,5	29 900
17,0	73,8	53,2	26 400
18,0	72,6	52,9	23 500
19,0	71,5	52,5	21 000
20,0	70,3	52,2	18 700
22,0	68,0	51,4	15 000
24,0	65,7	50,5	11 700
25,3	64,1	49,9	9 800

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67 860 kg
+
27 400 kg



20,0 m			
m	o	m	kg
4,6	83,2	22,3	163 300
5,0	82,0	22,2	149 700
5,5	80,5	22,1	135 500
6,0	79,0	22,0	124 000
7,0	76,1	21,7	106 200
8,0	73,1	21,4	90 900
9,0	70,0	21,1	78 400
10,0	66,9	20,6	67 100
11,0	63,7	20,1	56 900
12,0	60,4	19,5	48 400
12,8	57,7	19,0	42 700

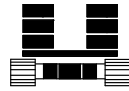
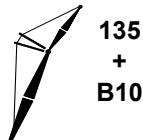
23,0 m			
m	o	m	kg
5,2	82,6	25,2	144 200
5,5	81,8	25,2	135 700
6,0	80,5	25,1	124 100
7,0	77,9	24,9	106 400
8,0	75,4	24,6	91 100
9,0	72,8	24,3	78 800
10,0	70,1	23,9	67 700
11,0	67,4	23,5	57 600
12,0	64,6	23,0	49 100
13,0	61,8	22,5	42 500
14,0	58,9	21,8	36 700
14,3	57,9	21,6	35 100

26,0 m			
m	o	m	kg
5,5	82,8	28,2	136 200
6,0	81,6	28,1	124 300
7,0	79,4	27,9	106 600
8,0	77,1	27,7	91 400
9,0	74,8	27,4	79 100
10,0	72,5	27,1	68 200
11,0	70,1	26,7	58 200
12,0	67,8	26,3	49 700
13,0	65,3	25,8	43 100
14,0	62,8	25,3	37 400
15,0	60,3	24,7	32 800
16,0	57,7	24,1	28 800
16,2	57,3	24,0	28 200

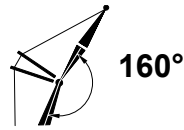
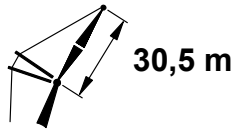
REFERENCIA

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ASME B30.5



67 860 kg
+
27 400 kg



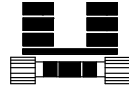
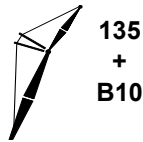
<p>29,0 m</p>			
m	o	m	kg
5,8	82,9	31,2	128 800
6,0	82,5	31,1	124 200
7,0	80,5	31,0	106 700
8,0	78,4	30,8	91 400
9,0	76,4	30,5	79 200
10,0	74,4	30,2	68 400
11,0	72,3	29,9	58 600
12,0	70,2	29,5	50 000
13,0	68,0	29,1	43 400
14,0	65,9	28,7	37 700
15,0	63,7	28,2	33 100
16,0	61,4	27,6	29 200
17,0	59,1	27,0	25 800
17,7	57,5	26,6	23 700

<p>32,0 m</p>			
m	o	m	kg
6,1	83,0	34,2	122 300
7,0	81,4	34,0	106 800
8,0	79,6	33,8	91 600
9,0	77,7	33,6	79 400
10,0	75,9	33,4	68 800
11,0	74,0	33,1	58 900
12,0	72,1	32,7	50 400
13,0	70,2	32,4	43 800
14,0	68,3	32,0	38 100
15,0	66,3	31,5	33 400
16,0	64,3	31,0	29 600
17,0	62,3	30,5	26 100
18,0	60,2	29,9	23 200
19,0	58,1	29,3	20 700
19,5	57,0	29,0	19 400

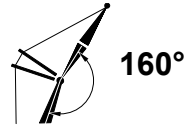
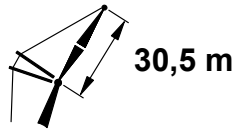
<p>35,0 m</p>			
m	o	m	kg
6,4	83,1	37,2	116 100
7,0	82,1	37,1	106 300
8,0	80,5	36,9	91 500
9,0	78,8	36,7	79 400
10,0	77,1	36,5	68 800
11,0	75,4	36,2	59 200
12,0	73,7	35,9	50 600
13,0	72,0	35,6	44 000
14,0	70,2	35,2	38 200
15,0	68,5	34,8	33 600
16,0	66,7	34,4	29 700
17,0	64,9	33,9	26 300
18,0	63,0	33,4	23 400
19,0	61,2	32,8	20 800
20,0	59,3	32,2	18 500
21,0	57,2	31,6	16 400

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ASME B30.5



67 860 kg
+
27 400 kg



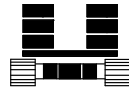
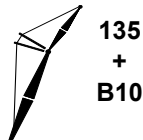
38,0 m			
m	o	m	kg
6,7	83,2	40,1	107 100
7,0	82,8	40,1	103 600
8,0	81,2	40,0	91 500
9,0	79,7	39,8	79 400
10,0	78,1	39,6	69 000
11,0	76,6	39,3	59 300
12,0	75,0	39,0	50 800
13,0	73,5	38,7	44 100
14,0	71,9	38,4	38 400
15,0	70,3	38,0	33 700
16,0	68,6	37,6	29 900
17,0	67,0	37,2	26 400
18,0	65,3	36,8	23 500
19,0	63,7	36,3	20 900
20,0	62,0	35,7	18 600
22,0	58,4	34,5	14 800
22,6	57,4	34,2	13 900

41,0 m			
m	o	m	kg
7,3	82,8	43,1	99 400
8,0	81,9	43,0	91 400
9,0	80,5	42,8	79 200
10,0	79,0	42,6	68 900
11,0	77,6	42,4	59 500
12,0	76,2	42,1	50 900
13,0	74,7	41,9	44 200
14,0	73,2	41,6	38 400
15,0	71,8	41,2	33 800
16,0	70,3	40,9	29 900
17,0	68,8	40,5	26 400
18,0	67,3	40,0	23 500
19,0	65,7	39,6	21 000
20,0	64,2	39,1	18 600
22,0	61,0	38,0	14 800
24,0	57,7	36,8	11 700
24,4	57,1	36,5	11 200

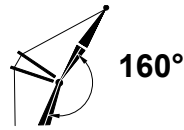
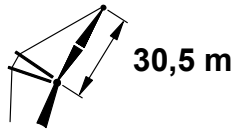
44,0 m			
m	o	m	kg
7,6	82,9	46,1	87 900
8,0	82,4	46,0	85 300
9,0	81,1	45,9	78 500
10,0	79,8	45,7	69 100
11,0	78,5	45,5	59 600
12,0	77,1	45,2	51 000
13,0	75,8	45,0	44 300
14,0	74,4	44,7	38 600
15,0	73,1	44,4	33 900
16,0	71,7	44,1	30 000
17,0	70,3	43,7	26 600
18,0	68,9	43,3	23 600
19,0	67,5	42,9	21 100
20,0	66,1	42,4	18 800
22,0	63,2	41,5	15 000
24,0	60,2	40,3	11 900
25,9	57,3	39,1	9 100

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67 860 kg
+
27 400 kg



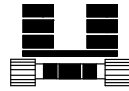
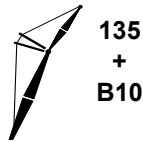
47,0 m			
m	o	m	kg
7,9	83,0	49,1	82 600
8,0	82,9	49,1	82 300
9,0	81,7	48,9	77 600
10,0	80,4	48,7	68 800
11,0	79,2	48,5	59 700
12,0	78,0	48,3	51 000
13,0	76,7	48,1	44 400
14,0	75,4	47,8	38 600
15,0	74,2	47,5	33 900
16,0	72,9	47,2	30 000
17,0	71,6	46,9	26 500
18,0	70,3	46,5	23 600
19,0	69,0	46,1	21 100
20,0	67,7	45,7	18 700
22,0	65,0	44,8	14 900
24,0	62,3	43,8	11 700
26,0	59,5	42,6	8 800
27,4	57,4	41,7	7 000

50,0 m			
m	o	m	kg
8,2	83,1	52,0	77 600
9,0	82,2	51,9	74 500
10,0	81,0	51,8	67 600
11,0	79,9	51,6	59 700
12,0	78,7	51,4	51 100
13,0	77,5	51,2	44 400
14,0	76,3	50,9	38 600
15,0	75,1	50,6	33 900
16,0	74,0	50,3	30 000
17,0	72,8	50,0	26 500
18,0	71,5	49,7	23 600
19,0	70,3	49,3	21 100
20,0	69,1	48,9	18 700
22,0	66,6	48,1	14 900
24,0	64,1	47,1	11 600
26,0	61,5	46,1	8 700
28,0	58,8	44,9	6 200
29,3	57,1	44,1	4 800

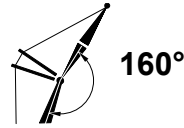
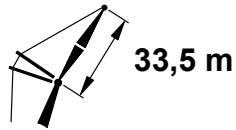
53,0 m			
m	o	m	kg
8,5	83,1	55,0	73 700
9,0	82,6	55,0	71 900
10,0	81,5	54,8	66 400
11,0	80,4	54,7	59 700
12,0	79,3	54,5	51 100
13,0	78,2	54,2	44 400
14,0	77,1	54,0	38 600
15,0	76,0	53,8	33 900
16,0	74,9	53,5	30 000
17,0	73,8	53,2	26 500
18,0	72,6	52,9	23 500
19,0	71,5	52,5	21 000
20,0	70,3	52,2	18 700
22,0	68,0	51,4	14 800
24,0	65,7	50,5	11 400
26,0	63,2	49,5	8 500
28,0	60,8	48,4	6 000
30,0	58,2	47,2	3 900
30,8	57,2	46,7	3 100

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67 860 kg
+
27 400 kg



20,0 m			
m	o	m	kg
4,6	83,2	22,3	162 300
5,0	82,0	22,2	148 700
5,5	80,5	22,1	134 600
6,0	79,0	22,0	123 000
7,0	76,1	21,7	105 200
8,0	73,1	21,4	89 800
9,0	70,0	21,1	77 400
10,0	66,9	20,6	66 100
11,0	63,7	20,1	55 800
12,0	60,4	19,5	47 400
12,8	57,7	19,0	41 800

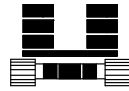
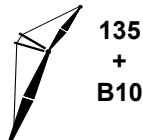
23,0 m			
m	o	m	kg
5,2	82,6	25,2	143 200
5,5	81,8	25,2	134 800
6,0	80,5	25,1	123 200
7,0	77,9	24,9	105 500
8,0	75,4	24,6	90 200
9,0	72,8	24,3	77 800
10,0	70,1	23,9	66 700
11,0	67,4	23,5	56 600
12,0	64,6	23,0	48 200
13,0	61,8	22,5	41 700
14,0	58,9	21,8	35 900
14,3	57,9	21,6	34 300

26,0 m			
m	o	m	kg
5,5	82,8	28,2	135 300
6,0	81,6	28,1	123 500
7,0	79,4	27,9	105 800
8,0	77,1	27,7	90 500
9,0	74,8	27,4	78 200
10,0	72,5	27,1	67 200
11,0	70,1	26,7	57 300
12,0	67,8	26,3	48 800
13,0	65,3	25,8	42 300
14,0	62,8	25,3	36 600
15,0	60,3	24,7	32 000
16,0	57,7	24,1	28 100
16,2	57,3	24,0	27 500

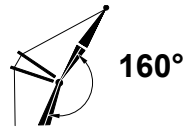
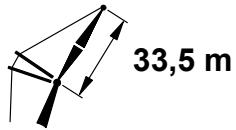
REFERENCED

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67 860 kg
+
27 400 kg



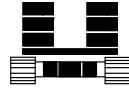
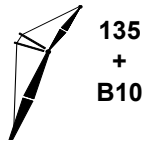
<p>29,0 m</p>			
5,8	82,9	31,2	128 000
6,0	82,5	31,1	123 400
7,0	80,5	31,0	105 900
8,0	78,4	30,8	90 600
9,0	76,4	30,5	78 300
10,0	74,4	30,2	67 500
11,0	72,3	29,9	57 700
12,0	70,2	29,5	49 200
13,0	68,0	29,1	42 600
14,0	65,9	28,7	37 000
15,0	63,7	28,2	32 400
16,0	61,4	27,6	28 600
17,0	59,1	27,0	25 100
17,7	57,5	26,6	23 100

<p>32,0 m</p>			
6,1	83,0	34,2	121 500
7,0	81,4	34,0	106 100
8,0	79,6	33,8	90 900
9,0	77,7	33,6	78 600
10,0	75,9	33,4	67 900
11,0	74,0	33,1	58 100
12,0	72,1	32,7	49 600
13,0	70,2	32,4	43 000
14,0	68,3	32,0	37 400
15,0	66,3	31,5	32 800
16,0	64,3	31,0	28 900
17,0	62,3	30,5	25 500
18,0	60,2	29,9	22 600
19,0	58,1	29,3	20 100
19,5	57,0	29,0	18 900

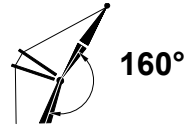
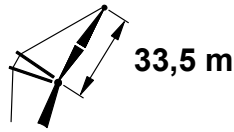
<p>35,0 m</p>			
6,4	83,1	37,2	115 300
7,0	82,1	37,1	105 600
8,0	80,5	36,9	90 800
9,0	78,8	36,7	78 500
10,0	77,1	36,5	68 000
11,0	75,4	36,2	58 300
12,0	73,7	35,9	49 800
13,0	72,0	35,6	43 200
14,0	70,2	35,2	37 600
15,0	68,5	34,8	32 900
16,0	66,7	34,4	29 100
17,0	64,9	33,9	25 700
18,0	63,0	33,4	22 800
19,0	61,2	32,8	20 300
20,0	59,3	32,2	18 000
21,0	57,2	31,6	15 900

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67 860 kg
+
27 400 kg



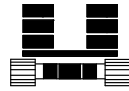
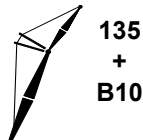
38,0 m			
m	o	m	kg
6,7	83,2	40,1	106 200
7,0	82,8	40,1	102 700
8,0	81,2	40,0	90 800
9,0	79,7	39,8	78 500
10,0	78,1	39,6	68 100
11,0	76,6	39,3	58 500
12,0	75,0	39,0	50 000
13,0	73,5	38,7	43 400
14,0	71,9	38,4	37 700
15,0	70,3	38,0	33 100
16,0	68,6	37,6	29 300
17,0	67,0	37,2	25 800
18,0	65,3	36,8	22 900
19,0	63,7	36,3	20 400
20,0	62,0	35,7	18 100
22,0	58,4	34,5	14 300
22,6	57,4	34,2	13 400

41,0 m			
m	o	m	kg
7,3	82,8	43,1	98 500
8,0	81,9	43,0	90 700
9,0	80,5	42,8	78 400
10,0	79,0	42,6	68 100
11,0	77,6	42,4	58 700
12,0	76,2	42,1	50 100
13,0	74,7	41,9	43 500
14,0	73,2	41,6	37 800
15,0	71,8	41,2	33 200
16,0	70,3	40,9	29 300
17,0	68,8	40,5	25 900
18,0	67,3	40,0	23 000
19,0	65,7	39,6	20 500
20,0	64,2	39,1	18 200
22,0	61,0	38,0	14 400
24,0	57,7	36,8	11 200
24,4	57,1	36,5	10 600

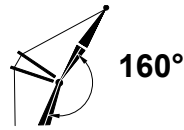
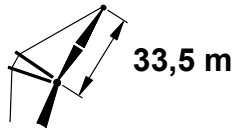
44,0 m			
m	o	m	kg
7,6	82,9	46,1	87 000
8,0	82,4	46,0	84 400
9,0	81,1	45,9	77 700
10,0	79,8	45,7	68 300
11,0	78,5	45,5	58 800
12,0	77,1	45,2	50 300
13,0	75,8	45,0	43 700
14,0	74,4	44,7	38 000
15,0	73,1	44,4	33 300
16,0	71,7	44,1	29 500
17,0	70,3	43,7	26 000
18,0	68,9	43,3	23 100
19,0	67,5	42,9	20 600
20,0	66,1	42,4	18 300
22,0	63,2	41,5	14 500
24,0	60,2	40,3	11 300
25,9	57,3	39,1	8 500

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67 860 kg
+
27 400 kg



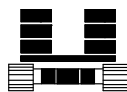
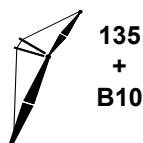
47,0 m			
m	o	m	kg
7,9	83,0	49,1	81 800
8,0	82,9	49,1	81 500
9,0	81,7	48,9	76 800
10,0	80,4	48,7	68 000
11,0	79,2	48,5	58 900
12,0	78,0	48,3	50 300
13,0	76,7	48,1	43 700
14,0	75,4	47,8	38 000
15,0	74,2	47,5	33 300
16,0	72,9	47,2	29 500
17,0	71,6	46,9	26 000
18,0	70,3	46,5	23 100
19,0	69,0	46,1	20 600
20,0	67,7	45,7	18 300
22,0	65,0	44,8	14 500
24,0	62,3	43,8	11 200
26,0	59,5	42,6	8 300
27,4	57,4	41,7	6 500

50,0 m			
m	o	m	kg
8,2	83,1	52,0	76 800
9,0	82,2	51,9	73 800
10,0	81,0	51,8	66 800
11,0	79,9	51,6	59 000
12,0	78,7	51,4	50 400
13,0	77,5	51,2	43 800
14,0	76,3	50,9	38 000
15,0	75,1	50,6	33 400
16,0	74,0	50,3	29 500
17,0	72,8	50,0	26 000
18,0	71,5	49,7	23 100
19,0	70,3	49,3	20 600
20,0	69,1	48,9	18 300
22,0	66,6	48,1	14 500
24,0	64,1	47,1	11 100
26,0	61,5	46,1	8 200
28,0	58,8	44,9	5 700
29,3	57,1	44,1	4 300

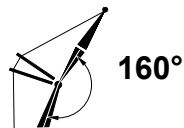
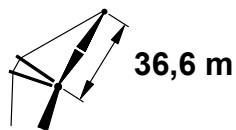
53,0 m			
m	o	m	kg
8,5	83,1	55,0	72 900
9,0	82,6	55,0	71 100
10,0	81,5	54,8	65 700
11,0	80,4	54,7	59 000
12,0	79,3	54,5	50 400
13,0	78,2	54,2	43 800
14,0	77,1	54,0	38 000
15,0	76,0	53,8	33 300
16,0	74,9	53,5	29 500
17,0	73,8	53,2	26 000
18,0	72,6	52,9	23 100
19,0	71,5	52,5	20 500
20,0	70,3	52,2	18 200
22,0	68,0	51,4	14 300
24,0	65,7	50,5	10 900
26,0	63,2	49,5	8 000
28,0	60,8	48,4	5 500
30,0	58,2	47,2	3 400
30,8	57,2	46,7	2 700

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ASME B30.5



67 860 kg
+
27 400 kg



20,0 m			
m	o	m	kg
4,6	83,2	22,3	160 800
5,0	82,0	22,2	147 200
5,5	80,5	22,1	133 200
6,0	79,0	22,0	121 700
7,0	76,1	21,7	103 600
8,0	73,1	21,4	88 100
9,0	70,0	21,1	75 700
10,0	66,9	20,6	64 400
11,0	63,7	20,1	54 300
12,0	60,4	19,5	45 900
12,8	57,7	19,0	40 300

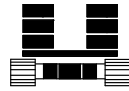
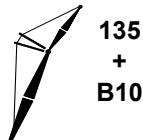
23,0 m			
m	o	m	kg
5,2	82,6	25,2	141 800
5,5	81,8	25,2	133 400
6,0	80,5	25,1	121 900
7,0	77,9	24,9	104 000
8,0	75,4	24,6	88 500
9,0	72,8	24,3	76 200
10,0	70,1	23,9	65 100
11,0	67,4	23,5	55 100
12,0	64,6	23,0	46 700
13,0	61,8	22,5	40 300
14,0	58,9	21,8	34 600
14,3	57,9	21,6	33 000

26,0 m			
m	o	m	kg
5,5	82,8	28,2	134 000
6,0	81,6	28,1	122 200
7,0	79,4	27,9	104 300
8,0	77,1	27,7	88 900
9,0	74,8	27,4	76 600
10,0	72,5	27,1	65 700
11,0	70,1	26,7	55 800
12,0	67,8	26,3	47 400
13,0	65,3	25,8	41 000
14,0	62,8	25,3	35 300
15,0	60,3	24,7	30 800
16,0	57,7	24,1	26 900
16,2	57,3	24,0	26 300

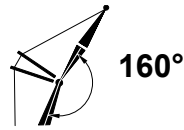
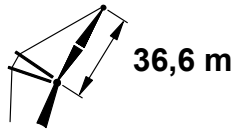
REFERENCED

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67 860 kg
+
27 400 kg



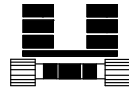
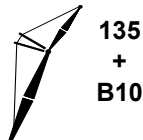
<p>29,0 m</p>			
m	°	m	kg
5,8	82,9	31,2	126 700
6,0	82,5	31,1	122 100
7,0	80,5	31,0	104 400
8,0	78,4	30,8	89 100
9,0	76,4	30,5	76 800
10,0	74,4	30,2	66 100
11,0	72,3	29,9	56 300
12,0	70,2	29,5	47 900
13,0	68,0	29,1	41 400
14,0	65,9	28,7	35 800
15,0	63,7	28,2	31 200
16,0	61,4	27,6	27 400
17,0	59,1	27,0	24 000
17,7	57,5	26,6	22 000

<p>32,0 m</p>			
m	°	m	kg
6,1	83,0	34,2	120 200
7,0	81,4	34,0	104 700
8,0	79,6	33,8	89 400
9,0	77,7	33,6	77 100
10,0	75,9	33,4	66 500
11,0	74,0	33,1	56 800
12,0	72,1	32,7	48 300
13,0	70,2	32,4	41 800
14,0	68,3	32,0	36 200
15,0	66,3	31,5	31 600
16,0	64,3	31,0	27 800
17,0	62,3	30,5	24 500
18,0	60,2	29,9	21 600
19,0	58,1	29,3	19 100
19,5	57,0	29,0	17 900

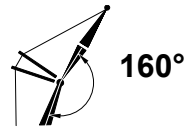
<p>35,0 m</p>			
m	°	m	kg
6,4	83,1	37,2	114 100
7,0	82,1	37,1	104 200
8,0	80,5	36,9	89 300
9,0	78,8	36,7	77 100
10,0	77,1	36,5	66 600
11,0	75,4	36,2	57 000
12,0	73,7	35,9	48 600
13,0	72,0	35,6	42 100
14,0	70,2	35,2	36 400
15,0	68,5	34,8	31 900
16,0	66,7	34,4	28 000
17,0	64,9	33,9	24 600
18,0	63,0	33,4	21 800
19,0	61,2	32,8	19 300
20,0	59,3	32,2	17 000
21,0	57,2	31,6	15 000

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67 860 kg
+
27 400 kg



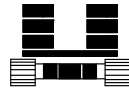
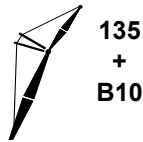
38,0 m			
m	o	m	kg
6,7	83,2	40,1	104 900
7,0	82,8	40,1	101 400
8,0	81,2	40,0	89 400
9,0	79,7	39,8	77 100
10,0	78,1	39,6	66 800
11,0	76,6	39,3	57 300
12,0	75,0	39,0	48 800
13,0	73,5	38,7	42 300
14,0	71,9	38,4	36 600
15,0	70,3	38,0	32 000
16,0	68,6	37,6	28 200
17,0	67,0	37,2	24 800
18,0	65,3	36,8	22 000
19,0	63,7	36,3	19 500
20,0	62,0	35,7	17 200
22,0	58,4	34,5	13 400
22,6	57,4	34,2	12 500

41,0 m			
m	o	m	kg
7,3	82,8	43,1	97 200
8,0	81,9	43,0	89 200
9,0	80,5	42,8	77 000
10,0	79,0	42,6	66 800
11,0	77,6	42,4	57 400
12,0	76,2	42,1	49 000
13,0	74,7	41,9	42 400
14,0	73,2	41,6	36 700
15,0	71,8	41,2	32 100
16,0	70,3	40,9	28 300
17,0	68,8	40,5	24 900
18,0	67,3	40,0	22 000
19,0	65,7	39,6	19 500
20,0	64,2	39,1	17 200
22,0	61,0	38,0	13 500
24,0	57,7	36,8	10 100
24,4	57,1	36,5	9 500

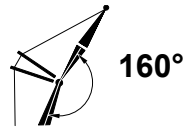
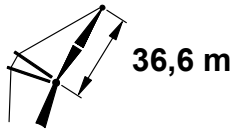
44,0 m			
m	o	m	kg
7,6	82,9	46,1	85 800
8,0	82,4	46,0	83 200
9,0	81,1	45,9	76 400
10,0	79,8	45,7	67 000
11,0	78,5	45,5	57 600
12,0	77,1	45,2	49 100
13,0	75,8	45,0	42 600
14,0	74,4	44,7	36 900
15,0	73,1	44,4	32 300
16,0	71,7	44,1	28 500
17,0	70,3	43,7	25 100
18,0	68,9	43,3	22 200
19,0	67,5	42,9	19 700
20,0	66,1	42,4	17 400
22,0	63,2	41,5	13 600
24,0	60,2	40,3	10 300
25,9	57,3	39,1	7 500

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67 860 kg
+
27 400 kg



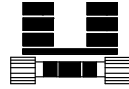
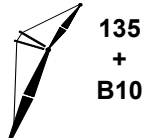
47,0 m			
m	o	m	kg
7,9	83,0	49,1	80 600
8,0	82,9	49,1	80 300
9,0	81,7	48,9	75 600
10,0	80,4	48,7	66 800
11,0	79,2	48,5	57 700
12,0	78,0	48,3	49 200
13,0	76,7	48,1	42 600
14,0	75,4	47,8	37 000
15,0	74,2	47,5	32 300
16,0	72,9	47,2	28 500
17,0	71,6	46,9	25 100
18,0	70,3	46,5	22 200
19,0	69,0	46,1	19 700
20,0	67,7	45,7	17 400
22,0	65,0	44,8	13 600
24,0	62,3	43,8	10 100
26,0	59,5	42,6	7 200
27,4	57,4	41,7	5 400

50,0 m			
m	o	m	kg
8,2	83,1	52,0	75 800
9,0	82,2	51,9	72 700
10,0	81,0	51,8	65 600
11,0	79,9	51,6	57 800
12,0	78,7	51,4	49 300
13,0	77,5	51,2	42 700
14,0	76,3	50,9	37 000
15,0	75,1	50,6	32 400
16,0	74,0	50,3	28 500
17,0	72,8	50,0	25 100
18,0	71,5	49,7	22 200
19,0	70,3	49,3	19 700
20,0	69,1	48,9	17 400
22,0	66,6	48,1	13 500
24,0	64,1	47,1	10 000
26,0	61,5	46,1	7 100
28,0	58,8	44,9	4 700
29,3	57,1	44,1	3 400

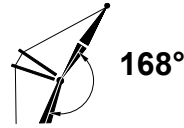
53,0 m			
m	o	m	kg
8,5	83,1	55,0	71 800
9,0	82,6	55,0	70 000
10,0	81,5	54,8	64 500
11,0	80,4	54,7	57 900
12,0	79,3	54,5	49 300
13,0	78,2	54,2	42 700
14,0	77,1	54,0	37 000
15,0	76,0	53,8	32 400
16,0	74,9	53,5	28 500
17,0	73,8	53,2	25 100
18,0	72,6	52,9	22 200
19,0	71,5	52,5	19 700
20,0	70,3	52,2	17 300
22,0	68,0	51,4	13 300
24,0	65,7	50,5	9 900
26,0	63,2	49,5	7 000
28,0	60,8	48,4	4 500
30,0	58,2	47,2	2 500
30,5	57,6	46,9	2 000

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67 860 kg
+
27 400 kg



20,0 m			
m	o	m	kg
4,6	83,2	22,3	163 000
5,0	82,0	22,2	149 100
5,5	80,5	22,1	134 800
6,0	79,0	22,0	123 100
7,0	76,1	21,7	104 900
8,0	73,1	21,4	89 200
9,0	70,0	21,1	76 500
10,0	66,9	20,6	65 100
11,0	63,7	20,1	54 700
12,0	60,4	19,5	46 200
13,0	57,0	18,9	39 600
14,0	53,4	18,1	33 800
14,6	51,0	17,6	30 700

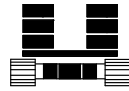
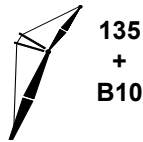
23,0 m			
m	o	m	kg
5,2	82,6	25,2	143 700
5,5	81,8	25,2	135 100
6,0	80,5	25,1	123 400
7,0	77,9	24,9	105 400
8,0	75,4	24,6	89 800
9,0	72,8	24,3	77 200
10,0	70,1	23,9	65 900
11,0	67,4	23,5	55 800
12,0	64,6	23,0	47 200
13,0	61,8	22,5	40 600
14,0	58,9	21,8	34 800
15,0	55,9	21,2	30 200
16,0	52,7	20,4	26 300
16,5	51,3	20,0	24 500

26,0 m			
m	o	m	kg
5,5	82,8	28,2	135 700
6,0	81,6	28,1	123 700
7,0	79,4	27,9	105 800
8,0	77,1	27,7	90 300
9,0	74,8	27,4	77 700
10,0	72,5	27,1	66 700
11,0	70,1	26,7	56 600
12,0	67,8	26,3	48 000
13,0	65,3	25,8	41 400
14,0	62,8	25,3	35 600
15,0	60,3	24,7	31 000
16,0	57,7	24,1	27 100
17,0	55,0	23,4	23 600
18,0	52,2	22,6	20 700
18,3	51,4	22,4	19 900

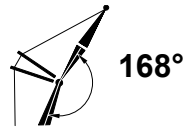
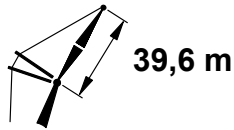
REFER TO

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67 860 kg
+
27 400 kg



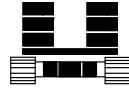
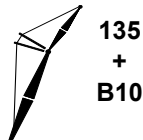
<p>29,0 m</p>			
m	o	m	kg
5,8	82,9	31,2	128 400
6,0	82,5	31,1	123 700
7,0	80,5	31,0	106 000
8,0	78,4	30,8	90 500
9,0	76,4	30,5	77 900
10,0	74,4	30,2	67 100
11,0	72,3	29,9	57 200
12,0	70,2	29,5	48 600
13,0	68,0	29,1	41 900
14,0	65,9	28,7	36 100
15,0	63,7	28,2	31 500
16,0	61,4	27,6	27 600
17,0	59,1	27,0	24 100
18,0	56,7	26,4	21 200
19,0	54,3	25,6	18 600
20,0	51,8	24,8	16 300
20,1	51,5	24,7	16 000

<p>32,0 m</p>			
m	o	m	kg
6,1	83,0	34,2	121 800
7,0	81,4	34,0	106 300
8,0	79,6	33,8	90 800
9,0	77,7	33,6	78 300
10,0	75,9	33,4	67 600
11,0	74,0	33,1	57 700
12,0	72,1	32,7	49 100
13,0	70,2	32,4	42 400
14,0	68,3	32,0	36 700
15,0	66,3	31,5	32 000
16,0	64,3	31,0	28 100
17,0	62,3	30,5	24 600
18,0	60,2	29,9	21 700
19,0	58,1	29,3	19 200
20,0	56,0	28,6	16 800
22,0	51,6	27,1	13 100

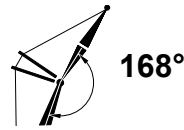
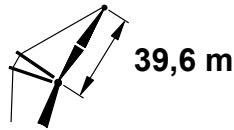
<p>35,0 m</p>			
m	o	m	kg
6,4	83,1	37,2	115 600
7,0	82,1	37,1	105 800
8,0	80,5	36,9	90 800
9,0	78,8	36,7	78 400
10,0	77,1	36,5	67 800
11,0	75,4	36,2	58 000
12,0	73,7	35,9	49 400
13,0	72,0	35,6	42 700
14,0	70,2	35,2	36 900
15,0	68,5	34,8	32 300
16,0	66,7	34,4	28 400
17,0	64,9	33,9	24 900
18,0	63,0	33,4	22 000
19,0	61,2	32,8	19 400
20,0	59,3	32,2	17 100
22,0	55,3	30,9	13 200
24,0	51,2	29,3	9 900
24,1	51,0	29,3	9 700

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67 860 kg
+
27 400 kg



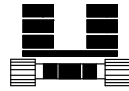
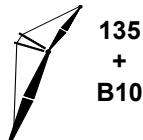
38,0 m			
m	o	m	kg
6,7	83,2	40,1	106 600
7,0	82,8	40,1	103 100
8,0	81,2	40,0	90 900
9,0	79,7	39,8	78 400
10,0	78,1	39,6	68 000
11,0	76,6	39,3	58 300
12,0	75,0	39,0	49 700
13,0	73,5	38,7	43 000
14,0	71,9	38,4	37 200
15,0	70,3	38,0	32 500
16,0	68,6	37,6	28 600
17,0	67,0	37,2	25 100
18,0	65,3	36,8	22 200
19,0	63,7	36,3	19 600
20,0	62,0	35,7	17 300
22,0	58,4	34,5	13 500
24,0	54,8	33,2	10 100
25,9	51,1	31,7	7 200

41,0 m			
m	o	m	kg
7,3	82,8	43,1	98 800
8,0	81,9	43,0	90 800
9,0	80,5	42,8	78 300
10,0	79,0	42,6	68 100
11,0	77,6	42,4	58 600
12,0	76,2	42,1	49 900
13,0	74,7	41,9	43 200
14,0	73,2	41,6	37 400
15,0	71,8	41,2	32 700
16,0	70,3	40,9	28 700
17,0	68,8	40,5	25 200
18,0	67,3	40,0	22 300
19,0	65,7	39,6	19 700
20,0	64,2	39,1	17 400
22,0	61,0	38,0	13 500
24,0	57,7	36,8	10 100
26,0	54,3	35,4	7 100
27,7	51,2	34,0	4 800

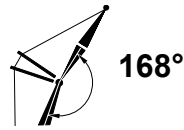
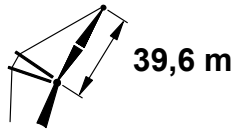
44,0 m			
m	o	m	kg
7,6	82,9	46,1	87 300
8,0	82,4	46,0	84 700
9,0	81,1	45,9	77 700
10,0	79,8	45,7	68 200
11,0	78,5	45,5	58 800
12,0	77,1	45,2	50 100
13,0	75,8	45,0	43 400
14,0	74,4	44,7	37 600
15,0	73,1	44,4	32 900
16,0	71,7	44,1	28 900
17,0	70,3	43,7	25 500
18,0	68,9	43,3	22 500
19,0	67,5	42,9	19 900
20,0	66,1	42,4	17 600
22,0	63,2	41,5	13 700
24,0	60,2	40,3	10 300
26,0	57,1	39,1	7 300
28,0	53,9	37,7	4 800
29,6	51,3	36,4	3 000

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67 860 kg
+
27 400 kg



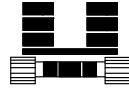
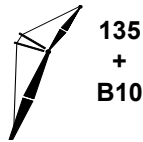
47,0 m			
m	o	m	kg
7,9	83,0	49,1	82 100
8,0	82,9	49,1	81 700
9,0	81,7	48,9	76 900
10,0	80,4	48,7	68 100
11,0	79,2	48,5	58 900
12,0	78,0	48,3	50 200
13,0	76,7	48,1	43 500
14,0	75,4	47,8	37 700
15,0	74,2	47,5	32 900
16,0	72,9	47,2	29 000
17,0	71,6	46,9	25 500
18,0	70,3	46,5	22 600
19,0	69,0	46,1	20 000
20,0	67,7	45,7	17 600
22,0	65,0	44,8	13 700
24,0	62,3	43,8	10 200
26,0	59,5	42,6	7 200
28,0	56,6	41,3	4 700
30,0	53,5	39,9	2 500
30,5	52,8	39,5	2 100

50,0 m			
m	o	m	kg
8,2	83,1	52,0	77 000
9,0	82,2	51,9	73 900
10,0	81,0	51,8	66 900
11,0	79,9	51,6	59 000
12,0	78,7	51,4	50 300
13,0	77,5	51,2	43 500
14,0	76,3	50,9	37 700
15,0	75,1	50,6	33 000
16,0	74,0	50,3	29 100
17,0	72,8	50,0	25 600
18,0	71,5	49,7	22 600
19,0	70,3	49,3	20 000
20,0	69,1	48,9	17 700
22,0	66,6	48,1	13 700
24,0	64,1	47,1	10 100
26,0	61,5	46,1	7 100
28,0	58,8	44,9	4 700
30,0	56,1	43,6	2 500
30,5	55,4	43,2	2 000

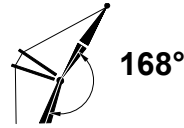
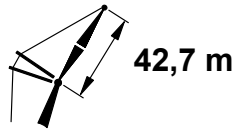
53,0 m			
m	o	m	kg
8,5	83,1	55,0	73 000
9,0	82,6	55,0	71 200
10,0	81,5	54,8	65 800
11,0	80,4	54,7	59 100
12,0	79,3	54,5	50 300
13,0	78,2	54,2	43 600
14,0	77,1	54,0	37 700
15,0	76,0	53,8	33 000
16,0	74,9	53,5	29 100
17,0	73,8	53,2	25 600
18,0	72,6	52,9	22 600
19,0	71,5	52,5	20 000
20,0	70,3	52,2	17 600
22,0	68,0	51,4	13 500
24,0	65,7	50,5	10 000
26,0	63,2	49,5	7 000
28,0	60,8	48,4	4 500
30,0	58,2	47,2	2 400
30,5	57,6	46,9	1 900

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67 860 kg
+
27 400 kg



20,0 m			
m	o	m	kg
4,6	83,2	22,3	161 700
5,0	82,0	22,2	147 900
5,5	80,5	22,1	133 600
6,0	79,0	22,0	121 900
7,0	76,1	21,7	103 500
8,0	73,1	21,4	87 600
9,0	70,0	21,1	75 000
10,0	66,9	20,6	63 500
11,0	63,7	20,1	53 200
12,0	60,4	19,5	44 700
13,0	57,0	18,9	38 200
14,0	53,4	18,1	32 400
14,6	51,0	17,6	29 400

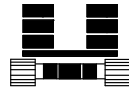
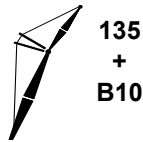
23,0 m			
m	o	m	kg
5,2	82,6	25,2	142 500
5,5	81,8	25,2	134 000
6,0	80,5	25,1	122 300
7,0	77,9	24,9	104 000
8,0	75,4	24,6	88 300
9,0	72,8	24,3	75 700
10,0	70,1	23,9	64 500
11,0	67,4	23,5	54 400
12,0	64,6	23,0	45 800
13,0	61,8	22,5	39 200
14,0	58,9	21,8	33 500
15,0	55,9	21,2	28 900
16,0	52,7	20,4	25 000
16,5	51,3	20,0	23 300

26,0 m			
m	o	m	kg
5,5	82,8	28,2	134 600
6,0	81,6	28,1	122 600
7,0	79,4	27,9	104 500
8,0	77,1	27,7	88 900
9,0	74,8	27,4	76 300
10,0	72,5	27,1	65 300
11,0	70,1	26,7	55 300
12,0	67,8	26,3	46 700
13,0	65,3	25,8	40 100
14,0	62,8	25,3	34 400
15,0	60,3	24,7	29 800
16,0	57,7	24,1	25 900
17,0	55,0	23,4	22 500
18,0	52,2	22,6	19 600
18,3	51,4	22,4	18 800

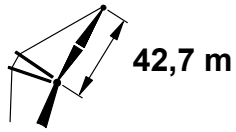
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67 860 kg
+
27 400 kg



29,0 m

m	o	m	kg
5,8	82,9	31,2	127 300
6,0	82,5	31,1	122 700
7,0	80,5	31,0	104 700
8,0	78,4	30,8	89 100
9,0	76,4	30,5	76 600
10,0	74,4	30,2	65 800
11,0	72,3	29,9	55 900
12,0	70,2	29,5	47 300
13,0	68,0	29,1	40 700
14,0	65,9	28,7	35 000
15,0	63,7	28,2	30 400
16,0	61,4	27,6	26 500
17,0	59,1	27,0	23 000
18,0	56,7	26,4	20 100
19,0	54,3	25,6	17 600
20,0	51,8	24,8	15 300
20,1	51,5	24,7	15 000

32,0 m

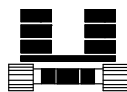
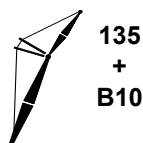
m	o	m	kg
6,1	83,0	34,2	120 800
7,0	81,4	34,0	105 100
8,0	79,6	33,8	89 500
9,0	77,7	33,6	77 100
10,0	75,9	33,4	66 300
11,0	74,0	33,1	56 500
12,0	72,1	32,7	47 900
13,0	70,2	32,4	41 300
14,0	68,3	32,0	35 600
15,0	66,3	31,5	30 900
16,0	64,3	31,0	27 100
17,0	62,3	30,5	23 600
18,0	60,2	29,9	20 700
19,0	58,1	29,3	18 200
20,0	56,0	28,6	15 800
22,0	51,6	27,1	12 100

35,0 m

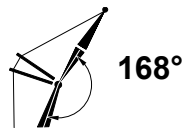
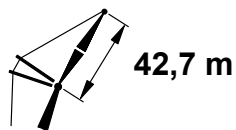
m	o	m	kg
6,4	83,1	37,2	114 600
7,0	82,1	37,1	104 700
8,0	80,5	36,9	89 600
9,0	78,8	36,7	77 100
10,0	77,1	36,5	66 600
11,0	75,4	36,2	56 900
12,0	73,7	35,9	48 300
13,0	72,0	35,6	41 600
14,0	70,2	35,2	35 900
15,0	68,5	34,8	31 200
16,0	66,7	34,4	27 400
17,0	64,9	33,9	23 900
18,0	63,0	33,4	21 000
19,0	61,2	32,8	18 400
20,0	59,3	32,2	16 100
22,0	55,3	30,9	12 200
24,0	51,2	29,3	8 700
24,1	51,0	29,3	8 500

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67 860 kg
+
27 400 kg



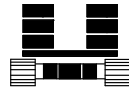
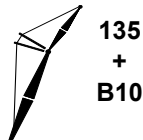
38,0 m			
m	o	m	kg
6,7	83,2	40,1	105 500
7,0	82,8	40,1	102 000
8,0	81,2	40,0	89 700
9,0	79,7	39,8	77 200
10,0	78,1	39,6	66 800
11,0	76,6	39,3	57 200
12,0	75,0	39,0	48 600
13,0	73,5	38,7	41 900
14,0	71,9	38,4	36 200
15,0	70,3	38,0	31 500
16,0	68,6	37,6	27 600
17,0	67,0	37,2	24 200
18,0	65,3	36,8	21 200
19,0	63,7	36,3	18 700
20,0	62,0	35,7	16 400
22,0	58,4	34,5	12 500
24,0	54,8	33,2	8 900
25,9	51,1	31,7	6 100

41,0 m			
m	o	m	kg
7,3	82,8	43,1	97 800
8,0	81,9	43,0	89 600
9,0	80,5	42,8	77 200
10,0	79,0	42,6	66 900
11,0	77,6	42,4	57 500
12,0	76,2	42,1	48 800
13,0	74,7	41,9	42 100
14,0	73,2	41,6	36 400
15,0	71,8	41,2	31 700
16,0	70,3	40,9	27 800
17,0	68,8	40,5	24 300
18,0	67,3	40,0	21 400
19,0	65,7	39,6	18 800
20,0	64,2	39,1	16 500
22,0	61,0	38,0	12 500
24,0	57,7	36,8	9 000
26,0	54,3	35,4	6 000
27,7	51,2	34,0	3 800

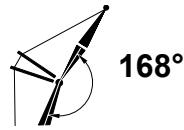
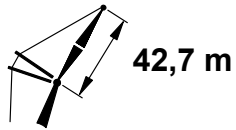
44,0 m			
m	o	m	kg
7,6	82,9	46,1	86 300
8,0	82,4	46,0	83 600
9,0	81,1	45,9	76 600
10,0	79,8	45,7	67 100
11,0	78,5	45,5	57 700
12,0	77,1	45,2	49 100
13,0	75,8	45,0	42 400
14,0	74,4	44,7	36 600
15,0	73,1	44,4	31 900
16,0	71,7	44,1	28 000
17,0	70,3	43,7	24 600
18,0	68,9	43,3	21 600
19,0	67,5	42,9	19 100
20,0	66,1	42,4	16 700
22,0	63,2	41,5	12 700
24,0	60,2	40,3	9 200
26,0	57,1	39,1	6 200
28,0	53,9	37,7	3 700
29,6	51,3	36,4	2 000

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67 860 kg
+
27 400 kg



47,0 m

m	o	m	kg
7,9	83,0	49,1	81 100
8,0	82,9	49,1	80 700
9,0	81,7	48,9	75 900
10,0	80,4	48,7	67 100
11,0	79,2	48,5	57 900
12,0	78,0	48,3	49 200
13,0	76,7	48,1	42 500
14,0	75,4	47,8	36 700
15,0	74,2	47,5	32 000
16,0	72,9	47,2	28 100
17,0	71,6	46,9	24 600
18,0	70,3	46,5	21 700
19,0	69,0	46,1	19 100
20,0	67,7	45,7	16 800
22,0	65,0	44,8	12 700
24,0	62,3	43,8	9 100
26,0	59,5	42,6	6 200
28,0	56,6	41,3	3 700
29,0	55,1	40,7	2 600

50,0 m

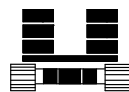
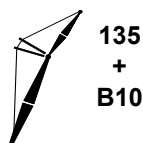
m	o	m	kg
8,2	83,1	52,0	76 100
9,0	82,2	51,9	72 900
10,0	81,0	51,8	65 900
11,0	79,9	51,6	58 000
12,0	78,7	51,4	49 300
13,0	77,5	51,2	42 600
14,0	76,3	50,9	36 800
15,0	75,1	50,6	32 100
16,0	74,0	50,3	28 200
17,0	72,8	50,0	24 700
18,0	71,5	49,7	21 800
19,0	70,3	49,3	19 200
20,0	69,1	48,9	16 800
22,0	66,6	48,1	12 600
24,0	64,1	47,1	9 100
26,0	61,5	46,1	6 100
28,0	58,8	44,9	3 700
29,0	57,5	44,3	2 600

53,0 m

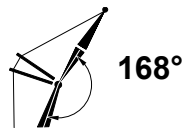
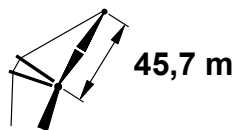
m	o	m	kg
8,5	83,1	55,0	72 100
9,0	82,6	55,0	70 300
10,0	81,5	54,8	64 800
11,0	80,4	54,7	58 100
12,0	79,3	54,5	49 400
13,0	78,2	54,2	42 700
14,0	77,1	54,0	36 900
15,0	76,0	53,8	32 100
16,0	74,9	53,5	28 200
17,0	73,8	53,2	24 700
18,0	72,6	52,9	21 800
19,0	71,5	52,5	19 200
20,0	70,3	52,2	16 700
22,0	68,0	51,4	12 500
24,0	65,7	50,5	9 000
26,0	63,2	49,5	6 000
28,0	60,8	48,4	3 500
29,0	59,6	47,9	2 500

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67 860 kg
+
27 400 kg



20,0 m			
m	o	m	kg
4,6	83,2	22,3	160 800
5,0	82,0	22,2	147 000
5,5	80,5	22,1	132 700
6,0	79,0	22,0	121 000
7,0	76,1	21,7	102 500
8,0	73,1	21,4	86 500
9,0	70,0	21,1	73 900
10,0	66,9	20,6	62 400
11,0	63,7	20,1	52 100
12,0	60,4	19,5	43 700
13,0	57,0	18,9	37 200
14,0	53,4	18,1	31 400
14,6	51,0	17,6	28 400

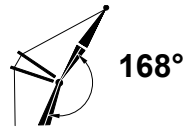
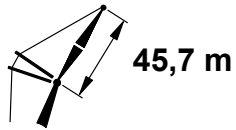
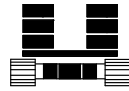
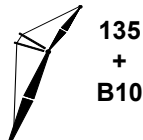
23,0 m			
m	o	m	kg
5,2	82,6	25,2	141 700
5,5	81,8	25,2	133 100
6,0	80,5	25,1	121 500
7,0	77,9	24,9	103 100
8,0	75,4	24,6	87 200
9,0	72,8	24,3	74 700
10,0	70,1	23,9	63 500
11,0	67,4	23,5	53 300
12,0	64,6	23,0	44 900
13,0	61,8	22,5	38 300
14,0	58,9	21,8	32 700
15,0	55,9	21,2	28 100
16,0	52,7	20,4	24 200
16,5	51,3	20,0	22 500

26,0 m			
m	o	m	kg
5,5	82,8	28,2	133 800
6,0	81,6	28,1	121 900
7,0	79,4	27,9	103 600
8,0	77,1	27,7	87 900
9,0	74,8	27,4	75 400
10,0	72,5	27,1	64 300
11,0	70,1	26,7	54 300
12,0	67,8	26,3	45 800
13,0	65,3	25,8	39 300
14,0	62,8	25,3	33 600
15,0	60,3	24,7	29 000
16,0	57,7	24,1	25 200
17,0	55,0	23,4	21 700
18,0	52,2	22,6	18 900
18,3	51,4	22,4	18 000

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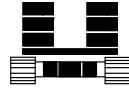
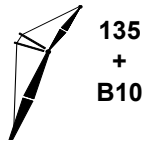
<p>29,0 m</p>			
m	o	m	kg
5,8	82,9	31,2	126 500
6,0	82,5	31,1	121 900
7,0	80,5	31,0	103 800
8,0	78,4	30,8	88 200
9,0	76,4	30,5	75 700
10,0	74,4	30,2	64 900
11,0	72,3	29,9	55 000
12,0	70,2	29,5	46 500
13,0	68,0	29,1	39 900
14,0	65,9	28,7	34 200
15,0	63,7	28,2	29 600
16,0	61,4	27,6	25 800
17,0	59,1	27,0	22 300
18,0	56,7	26,4	19 400
19,0	54,3	25,6	16 900
20,0	51,8	24,8	14 600
20,1	51,5	24,7	14 400

<p>32,0 m</p>			
m	o	m	kg
6,1	83,0	34,2	120 100
7,0	81,4	34,0	104 200
8,0	79,6	33,8	88 600
9,0	77,7	33,6	76 200
10,0	75,9	33,4	65 500
11,0	74,0	33,1	55 600
12,0	72,1	32,7	47 100
13,0	70,2	32,4	40 500
14,0	68,3	32,0	34 800
15,0	66,3	31,5	30 200
16,0	64,3	31,0	26 400
17,0	62,3	30,5	22 900
18,0	60,2	29,9	20 000
19,0	58,1	29,3	17 500
20,0	56,0	28,6	15 200
22,0	51,6	27,1	11 300

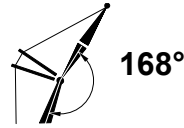
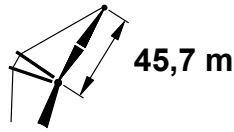
<p>35,0 m</p>			
m	o	m	kg
6,4	83,1	37,2	113 900
7,0	82,1	37,1	103 900
8,0	80,5	36,9	88 700
9,0	78,8	36,7	76 300
10,0	77,1	36,5	65 700
11,0	75,4	36,2	56 100
12,0	73,7	35,9	47 500
13,0	72,0	35,6	40 900
14,0	70,2	35,2	35 200
15,0	68,5	34,8	30 600
16,0	66,7	34,4	26 700
17,0	64,9	33,9	23 300
18,0	63,0	33,4	20 400
19,0	61,2	32,8	17 800
20,0	59,3	32,2	15 500
22,0	55,3	30,9	11 600
24,0	51,2	29,3	8 000
24,1	51,0	29,3	7 800

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67 860 kg
+
27 400 kg



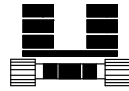
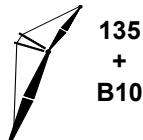
38,0 m			
m	o	m	kg
6,7	83,2	40,1	104 700
7,0	82,8	40,1	101 100
8,0	81,2	40,0	88 800
9,0	79,7	39,8	76 400
10,0	78,1	39,6	66 000
11,0	76,6	39,3	56 400
12,0	75,0	39,0	47 900
13,0	73,5	38,7	41 200
14,0	71,9	38,4	35 500
15,0	70,3	38,0	30 900
16,0	68,6	37,6	27 000
17,0	67,0	37,2	23 600
18,0	65,3	36,8	20 700
19,0	63,7	36,3	18 100
20,0	62,0	35,7	15 800
22,0	58,4	34,5	11 800
24,0	54,8	33,2	8 200
25,9	51,1	31,7	5 400

41,0 m			
m	o	m	kg
7,3	82,8	43,1	96 900
8,0	81,9	43,0	88 800
9,0	80,5	42,8	76 400
10,0	79,0	42,6	66 100
11,0	77,6	42,4	56 700
12,0	76,2	42,1	48 100
13,0	74,7	41,9	41 500
14,0	73,2	41,6	35 700
15,0	71,8	41,2	31 100
16,0	70,3	40,9	27 200
17,0	68,8	40,5	23 700
18,0	67,3	40,0	20 800
19,0	65,7	39,6	18 300
20,0	64,2	39,1	16 000
22,0	61,0	38,0	11 900
24,0	57,7	36,8	8 300
26,0	54,3	35,4	5 300
27,7	51,2	34,0	3 200

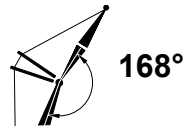
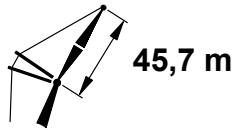
44,0 m			
m	o	m	kg
7,6	82,9	46,1	85 500
8,0	82,4	46,0	82 800
9,0	81,1	45,9	75 800
10,0	79,8	45,7	66 400
11,0	78,5	45,5	57 000
12,0	77,1	45,2	48 400
13,0	75,8	45,0	41 700
14,0	74,4	44,7	36 000
15,0	73,1	44,4	31 300
16,0	71,7	44,1	27 500
17,0	70,3	43,7	24 000
18,0	68,9	43,3	21 100
19,0	67,5	42,9	18 500
20,0	66,1	42,4	16 200
22,0	63,2	41,5	12 100
24,0	60,2	40,3	8 600
26,0	57,1	39,1	5 600
28,0	53,9	37,7	3 100
29,0	52,3	36,9	2 100

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ASME B30.5



67 860 kg
+
27 400 kg



47,0 m

m	o	m	kg
7,9	83,0	49,1	80 300
8,0	82,9	49,1	80 000
9,0	81,7	48,9	75 100
10,0	80,4	48,7	66 300
11,0	79,2	48,5	57 100
12,0	78,0	48,3	48 500
13,0	76,7	48,1	41 900
14,0	75,4	47,8	36 100
15,0	74,2	47,5	31 400
16,0	72,9	47,2	27 600
17,0	71,6	46,9	24 100
18,0	70,3	46,5	21 200
19,0	69,0	46,1	18 600
20,0	67,7	45,7	16 300
22,0	65,0	44,8	12 000
24,0	62,3	43,8	8 500
26,0	59,5	42,6	5 600
28,0	56,6	41,3	3 100
29,0	55,1	40,7	2 000

50,0 m

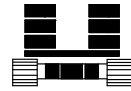
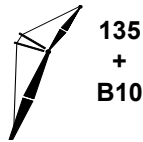
m	o	m	kg
8,2	83,1	52,0	75 400
9,0	82,2	51,9	72 200
10,0	81,0	51,8	65 200
11,0	79,9	51,6	57 300
12,0	78,7	51,4	48 700
13,0	77,5	51,2	42 000
14,0	76,3	50,9	36 200
15,0	75,1	50,6	31 500
16,0	74,0	50,3	27 700
17,0	72,8	50,0	24 200
18,0	71,5	49,7	21 300
19,0	70,3	49,3	18 700
20,0	69,1	48,9	16 300
22,0	66,6	48,1	12 000
24,0	64,1	47,1	8 500
26,0	61,5	46,1	5 600
28,0	58,8	44,9	3 100
29,0	57,5	44,3	2 000

53,0 m

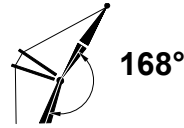
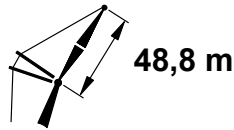
m	o	m	kg
8,5	83,1	55,0	71 400
9,0	82,6	55,0	69 600
10,0	81,5	54,8	64 100
11,0	80,4	54,7	57 400
12,0	79,3	54,5	48 700
13,0	78,2	54,2	42 100
14,0	77,1	54,0	36 300
15,0	76,0	53,8	31 600
16,0	74,9	53,5	27 700
17,0	73,8	53,2	24 200
18,0	72,6	52,9	21 300
19,0	71,5	52,5	18 600
20,0	70,3	52,2	16 100
22,0	68,0	51,4	11 900
24,0	65,7	50,5	8 400
26,0	63,2	49,5	5 500
28,0	60,8	48,4	3 000
29,0	59,6	47,9	1 900

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ASME B30.5



67 860 kg
+
27 400 kg



20,0 m			
m	o	m	kg
4,6	83,2	22,3	159 500
5,0	82,0	22,2	145 700
5,5	80,5	22,1	131 500
6,0	79,0	22,0	119 800
7,0	76,1	21,7	101 000
8,0	73,1	21,4	84 800
9,0	70,0	21,1	72 200
10,0	66,9	20,6	60 800
11,0	63,7	20,1	50 500
12,0	60,4	19,5	42 100
13,0	57,0	18,9	35 600
14,0	53,4	18,1	30 000
14,6	51,0	17,6	27 000

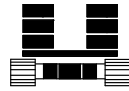
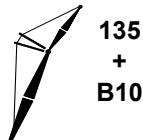
23,0 m			
m	o	m	kg
5,2	82,6	25,2	140 500
5,5	81,8	25,2	131 900
6,0	80,5	25,1	120 300
7,0	77,9	24,9	101 700
8,0	75,4	24,6	85 700
9,0	72,8	24,3	73 100
10,0	70,1	23,9	62 000
11,0	67,4	23,5	51 800
12,0	64,6	23,0	43 400
13,0	61,8	22,5	36 900
14,0	58,9	21,8	31 300
15,0	55,9	21,2	26 700
16,0	52,7	20,4	22 900
16,5	51,3	20,0	21 200

26,0 m			
m	o	m	kg
5,5	82,8	28,2	132 600
6,0	81,6	28,1	120 700
7,0	79,4	27,9	102 300
8,0	77,1	27,7	86 400
9,0	74,8	27,4	73 900
10,0	72,5	27,1	62 900
11,0	70,1	26,7	52 900
12,0	67,8	26,3	44 500
13,0	65,3	25,8	38 000
14,0	62,8	25,3	32 300
15,0	60,3	24,7	27 700
16,0	57,7	24,1	23 900
17,0	55,0	23,4	20 500
18,0	52,2	22,6	17 700
18,3	51,4	22,4	16 900

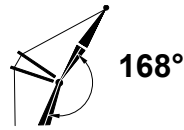
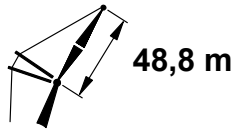
REFER

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67 860 kg
+
27 400 kg



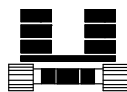
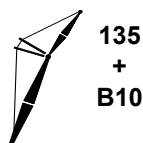
<p>29,0 m</p>			
m	o	m	kg
5,8	82,9	31,2	125 400
6,0	82,5	31,1	120 800
7,0	80,5	31,0	102 500
8,0	78,4	30,8	86 700
9,0	76,4	30,5	74 300
10,0	74,4	30,2	63 500
11,0	72,3	29,9	53 700
12,0	70,2	29,5	45 200
13,0	68,0	29,1	38 700
14,0	65,9	28,7	33 000
15,0	63,7	28,2	28 400
16,0	61,4	27,6	24 600
17,0	59,1	27,0	21 200
18,0	56,7	26,4	18 300
19,0	54,3	25,6	15 800
20,0	51,8	24,8	13 500
20,1	51,5	24,7	13 300

<p>32,0 m</p>			
m	o	m	kg
6,1	83,0	34,2	119 000
7,0	81,4	34,0	103 000
8,0	79,6	33,8	87 300
9,0	77,7	33,6	74 800
10,0	75,9	33,4	64 100
11,0	74,0	33,1	54 400
12,0	72,1	32,7	45 900
13,0	70,2	32,4	39 300
14,0	68,3	32,0	33 700
15,0	66,3	31,5	29 100
16,0	64,3	31,0	25 300
17,0	62,3	30,5	21 900
18,0	60,2	29,9	19 000
19,0	58,1	29,3	16 500
20,0	56,0	28,6	14 200
22,0	51,6	27,1	10 000

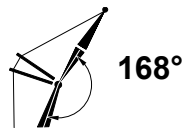
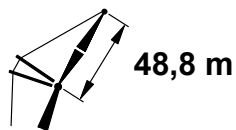
<p>35,0 m</p>			
m	o	m	kg
6,4	83,1	37,2	112 900
7,0	82,1	37,1	102 700
8,0	80,5	36,9	87 400
9,0	78,8	36,7	75 000
10,0	77,1	36,5	64 500
11,0	75,4	36,2	54 800
12,0	73,7	35,9	46 300
13,0	72,0	35,6	39 800
14,0	70,2	35,2	34 100
15,0	68,5	34,8	29 500
16,0	66,7	34,4	25 700
17,0	64,9	33,9	22 200
18,0	63,0	33,4	19 300
19,0	61,2	32,8	16 800
20,0	59,3	32,2	14 500
22,0	55,3	30,9	10 300
24,0	51,2	29,3	6 700
24,1	51,0	29,3	6 600

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67 860 kg
+
27 400 kg



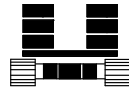
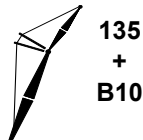
m	o	m	kg
6,7	83,2	40,1	103 500
7,0	82,8	40,1	99 900
8,0	81,2	40,0	87 500
9,0	79,7	39,8	75 100
10,0	78,1	39,6	64 800
11,0	76,6	39,3	55 200
12,0	75,0	39,0	46 700
13,0	73,5	38,7	40 100
14,0	71,9	38,4	34 400
15,0	70,3	38,0	29 800
16,0	68,6	37,6	26 000
17,0	67,0	37,2	22 600
18,0	65,3	36,8	19 700
19,0	63,7	36,3	17 200
20,0	62,0	35,7	14 800
22,0	58,4	34,5	10 600
24,0	54,8	33,2	7 000
25,9	51,1	31,7	4 200

m	o	m	kg
7,3	82,8	43,1	95 800
8,0	81,9	43,0	87 500
9,0	80,5	42,8	75 100
10,0	79,0	42,6	64 900
11,0	77,6	42,4	55 500
12,0	76,2	42,1	47 000
13,0	74,7	41,9	40 400
14,0	73,2	41,6	34 700
15,0	71,8	41,2	30 100
16,0	70,3	40,9	26 200
17,0	68,8	40,5	22 800
18,0	67,3	40,0	19 900
19,0	65,7	39,6	17 300
20,0	64,2	39,1	14 900
22,0	61,0	38,0	10 700
24,0	57,7	36,8	7 200
26,0	54,3	35,4	4 200
27,7	51,2	34,0	2 000

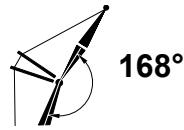
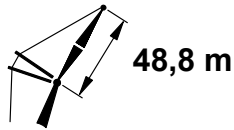
m	o	m	kg
7,6	82,9	46,1	84 400
8,0	82,4	46,0	81 700
9,0	81,1	45,9	74 600
10,0	79,8	45,7	65 200
11,0	78,5	45,5	55 800
12,0	77,1	45,2	47 300
13,0	75,8	45,0	40 700
14,0	74,4	44,7	35 000
15,0	73,1	44,4	30 400
16,0	71,7	44,1	26 500
17,0	70,3	43,7	23 100
18,0	68,9	43,3	20 200
19,0	67,5	42,9	17 600
20,0	66,1	42,4	15 200
22,0	63,2	41,5	10 900
24,0	60,2	40,3	7 400
26,0	57,1	39,1	4 500
27,4	54,8	38,1	2 700

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67 860 kg
+
27 400 kg



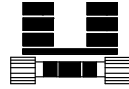
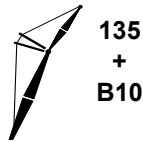
47,0 m			
m	o	m	kg
7,9	83,0	49,1	79 300
8,0	82,9	49,1	78 900
9,0	81,7	48,9	74 100
10,0	80,4	48,7	65 200
11,0	79,2	48,5	56 000
12,0	78,0	48,3	47 500
13,0	76,7	48,1	40 900
14,0	75,4	47,8	35 100
15,0	74,2	47,5	30 500
16,0	72,9	47,2	26 600
17,0	71,6	46,9	23 200
18,0	70,3	46,5	20 300
19,0	69,0	46,1	17 600
20,0	67,7	45,7	15 200
22,0	65,0	44,8	10 900
24,0	62,3	43,8	7 400
26,0	59,5	42,6	4 500
27,4	57,4	41,7	2 700

50,0 m			
m	o	m	kg
8,2	83,1	52,0	74 400
9,0	82,2	51,9	71 200
10,0	81,0	51,8	64 100
11,0	79,9	51,6	56 200
12,0	78,7	51,4	47 600
13,0	77,5	51,2	41 000
14,0	76,3	50,9	35 300
15,0	75,1	50,6	30 600
16,0	74,0	50,3	26 700
17,0	72,8	50,0	23 300
18,0	71,5	49,7	20 400
19,0	70,3	49,3	17 700
20,0	69,1	48,9	15 100
22,0	66,6	48,1	10 900
24,0	64,1	47,1	7 400
26,0	61,5	46,1	4 500
27,4	59,6	45,3	2 700

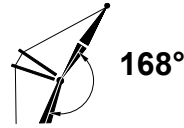
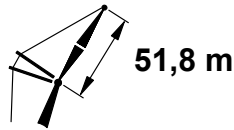
53,0 m			
m	o	m	kg
8,5	83,1	55,0	70 400
9,0	82,6	55,0	68 600
10,0	81,5	54,8	63 100
11,0	80,4	54,7	56 400
12,0	79,3	54,5	47 700
13,0	78,2	54,2	41 100
14,0	77,1	54,0	35 300
15,0	76,0	53,8	30 700
16,0	74,9	53,5	26 800
17,0	73,8	53,2	23 300
18,0	72,6	52,9	20 300
19,0	71,5	52,5	17 600
20,0	70,3	52,2	15 000
22,0	68,0	51,4	10 800
24,0	65,7	50,5	7 300
26,0	63,2	49,5	4 400
27,4	61,5	48,7	2 600

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ASME B30.5



67 860 kg
+
27 400 kg



20,0 m			
m	o	m	kg
4,6	83,2	22,3	158 300
5,0	82,0	22,2	144 500
5,5	80,5	22,1	130 300
6,0	79,0	22,0	118 300
7,0	76,1	21,7	99 500
8,0	73,1	21,4	83 300
9,0	70,0	21,1	70 800
10,0	66,9	20,6	59 300
11,0	63,7	20,1	49 000
12,0	60,4	19,5	40 700
13,0	57,0	18,9	34 300
14,0	53,4	18,1	28 700
14,6	51,0	17,6	25 700

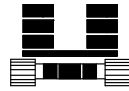
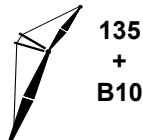
23,0 m			
m	o	m	kg
5,2	82,6	25,2	139 300
5,5	81,8	25,2	130 800
6,0	80,5	25,1	119 000
7,0	77,9	24,9	100 300
8,0	75,4	24,6	84 200
9,0	72,8	24,3	71 700
10,0	70,1	23,9	60 600
11,0	67,4	23,5	50 500
12,0	64,6	23,0	42 100
13,0	61,8	22,5	35 700
14,0	58,9	21,8	30 100
15,0	55,9	21,2	25 600
16,0	52,7	20,4	21 700
16,5	51,3	20,0	20 100

26,0 m			
m	o	m	kg
5,5	82,8	28,2	131 600
6,0	81,6	28,1	119 600
7,0	79,4	27,9	101 000
8,0	77,1	27,7	85 000
9,0	74,8	27,4	72 600
10,0	72,5	27,1	61 600
11,0	70,1	26,7	51 600
12,0	67,8	26,3	43 300
13,0	65,3	25,8	36 800
14,0	62,8	25,3	31 200
15,0	60,3	24,7	26 600
16,0	57,7	24,1	22 900
17,0	55,0	23,4	19 500
18,0	52,2	22,6	16 600
18,3	51,4	22,4	15 800

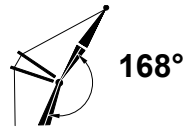
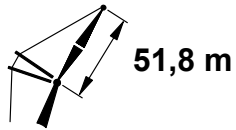
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ASME B30.5



67 860 kg
+
27 400 kg



29,0 m

m	o	m	kg
5,8	82,9	31,2	124 400
6,0	82,5	31,1	119 800
7,0	80,5	31,0	101 400
8,0	78,4	30,8	85 500
9,0	76,4	30,5	73 000
10,0	74,4	30,2	62 300
11,0	72,3	29,9	52 500
12,0	70,2	29,5	44 100
13,0	68,0	29,1	37 600
14,0	65,9	28,7	31 900
15,0	63,7	28,2	27 400
16,0	61,4	27,6	23 600
17,0	59,1	27,0	20 200
18,0	56,7	26,4	17 400
19,0	54,3	25,6	14 800
20,0	51,8	24,8	12 300
20,1	51,5	24,7	12 000

32,0 m

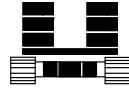
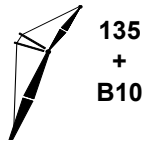
m	o	m	kg
6,1	83,0	34,2	118 000
7,0	81,4	34,0	101 800
8,0	79,6	33,8	86 000
9,0	77,7	33,6	73 600
10,0	75,9	33,4	62 900
11,0	74,0	33,1	53 200
12,0	72,1	32,7	44 800
13,0	70,2	32,4	38 300
14,0	68,3	32,0	32 700
15,0	66,3	31,5	28 100
16,0	64,3	31,0	24 300
17,0	62,3	30,5	20 900
18,0	60,2	29,9	18 100
19,0	58,1	29,3	15 500
20,0	56,0	28,6	13 100
22,0	51,6	27,1	8 900

35,0 m

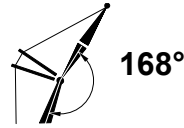
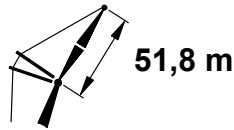
m	o	m	kg
6,4	83,1	37,2	111 900
7,0	82,1	37,1	101 600
8,0	80,5	36,9	86 200
9,0	78,8	36,7	73 800
10,0	77,1	36,5	63 300
11,0	75,4	36,2	53 700
12,0	73,7	35,9	45 300
13,0	72,0	35,6	38 800
14,0	70,2	35,2	33 100
15,0	68,5	34,8	28 500
16,0	66,7	34,4	24 700
17,0	64,9	33,9	21 300
18,0	63,0	33,4	18 500
19,0	61,2	32,8	15 900
20,0	59,3	32,2	13 500
22,0	55,3	30,9	9 200
24,0	51,2	29,3	5 700
24,1	51,0	29,3	5 500

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67 860 kg
+
27 400 kg



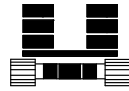
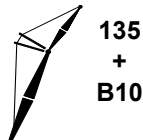
38,0 m			
m	o	m	kg
6,7	83,2	40,1	102 600
7,0	82,8	40,1	98 900
8,0	81,2	40,0	86 400
9,0	79,7	39,8	74 000
10,0	78,1	39,6	63 700
11,0	76,6	39,3	54 200
12,0	75,0	39,0	45 700
13,0	73,5	38,7	39 200
14,0	71,9	38,4	33 500
15,0	70,3	38,0	28 900
16,0	68,6	37,6	25 100
17,0	67,0	37,2	21 700
18,0	65,3	36,8	18 800
19,0	63,7	36,3	16 200
20,0	62,0	35,7	13 800
22,0	58,4	34,5	9 500
24,0	54,8	33,2	6 000
25,9	51,1	31,7	3 200

41,0 m			
m	o	m	kg
7,3	82,8	43,1	94 900
8,0	81,9	43,0	86 400
9,0	80,5	42,8	74 000
10,0	79,0	42,6	63 900
11,0	77,6	42,4	54 500
12,0	76,2	42,1	46 000
13,0	74,7	41,9	39 500
14,0	73,2	41,6	33 800
15,0	71,8	41,2	29 200
16,0	70,3	40,9	25 400
17,0	68,8	40,5	21 900
18,0	67,3	40,0	19 100
19,0	65,7	39,6	16 400
20,0	64,2	39,1	13 900
22,0	61,0	38,0	9 700
24,0	57,7	36,8	6 200
25,9	54,5	35,5	3 400

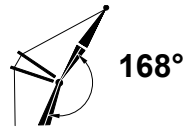
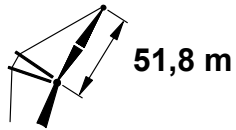
44,0 m			
m	o	m	kg
7,6	82,9	46,1	83 600
8,0	82,4	46,0	80 800
9,0	81,1	45,9	73 500
10,0	79,8	45,7	64 200
11,0	78,5	45,5	54 800
12,0	77,1	45,2	46 300
13,0	75,8	45,0	39 800
14,0	74,4	44,7	34 100
15,0	73,1	44,4	29 500
16,0	71,7	44,1	25 700
17,0	70,3	43,7	22 300
18,0	68,9	43,3	19 400
19,0	67,5	42,9	16 700
20,0	66,1	42,4	14 200
22,0	63,2	41,5	10 000
24,0	60,2	40,3	6 500
26,0	57,1	39,1	3 600
27,4	54,8	38,1	1 800

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67 860 kg
+
27 400 kg



47,0 m

m	o	m	kg
7,9	83,0	49,1	78 400
8,0	82,9	49,1	78 100
9,0	81,7	48,9	73 100
10,0	80,4	48,7	64 300
11,0	79,2	48,5	55 100
12,0	78,0	48,3	46 500
13,0	76,7	48,1	40 000
14,0	75,4	47,8	34 300
15,0	74,2	47,5	29 700
16,0	72,9	47,2	25 800
17,0	71,6	46,9	22 400
18,0	70,3	46,5	19 400
19,0	69,0	46,1	16 700
20,0	67,7	45,7	14 200
22,0	65,0	44,8	10 000
24,0	62,3	43,8	6 500
26,0	59,5	42,6	3 600
27,4	57,4	41,7	1 800

50,0 m

m	o	m	kg
8,2	83,1	52,0	73 600
9,0	82,2	51,9	70 400
10,0	81,0	51,8	63 200
11,0	79,9	51,6	55 200
12,0	78,7	51,4	46 700
13,0	77,5	51,2	40 100
14,0	76,3	50,9	34 400
15,0	75,1	50,6	29 800
16,0	74,0	50,3	26 000
17,0	72,8	50,0	22 500
18,0	71,5	49,7	19 500
19,0	70,3	49,3	16 700
20,0	69,1	48,9	14 200
22,0	66,6	48,1	10 000
24,0	64,1	47,1	6 600
26,0	61,5	46,1	3 700
27,4	59,6	45,3	1 900

53,0 m

m	o	m	kg
8,5	83,1	55,0	69 700
9,0	82,6	55,0	67 800
10,0	81,5	54,8	62 200
11,0	80,4	54,7	55 400
12,0	79,3	54,5	46 800
13,0	78,2	54,2	40 200
14,0	77,1	54,0	34 500
15,0	76,0	53,8	29 900
16,0	74,9	53,5	26 000
17,0	73,8	53,2	22 500
18,0	72,6	52,9	19 400
19,0	71,5	52,5	16 600
20,0	70,3	52,2	14 100
22,0	68,0	51,4	9 900
24,0	65,7	50,5	6 500
26,0	63,2	49,5	3 600
27,4	61,5	48,7	1 800