


Liftcrane Boom Capacities With Luffing Jib Attached

MLC150-1 SERIES 2

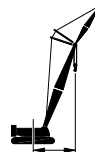
Boom No. B20:350
Luffing Jib No. 135A
50 120 kg Crane Counterweight
15 880 kg Carbody Counterweight
360 Degree Rating

 **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 1 300 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. 80117859**, Luffing Jib Rigging **No. 80117862**, Wire Rope Specifications chart **No. 9866-A**, Counterweight Arrangements chart **No. 9828-A**, Luffing Jib Raising Procedure chart **No. 9851-AM**, and Wind Conditions chart **No. 9853-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. 9852-A**.



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



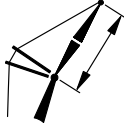

BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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

MACHINE EQUIPMENT: Machine equipped with 7 980 mm crawlers, 1 200 mm treads, 5 300 mm gantry, 10 part boom hoist reeving, boom straps, 8 part luffing jib hoist reeving, two 38 mm luffing jib pendants and backstays, 50 120 kg crane counterweight, and 15 880 kg carbody counterweight.

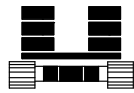
Consult chart **No. 9849-AM** for luffing jib capacities.

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



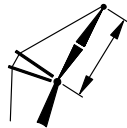
135A Luffing Jib No. 135A
+
B20 Boom No. B20:350



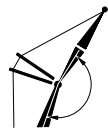
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Luffing Jib Length



Boom-to-Luffing Jib Angle



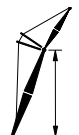
Boom Length



Operating Radius
(see page 1)



Boom Angle
(see page 1)



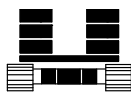
Boom Point Elevation
(see page 1)



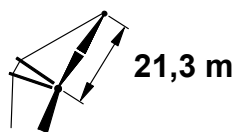
Lifting Capacities
(see page 1)

MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg



21,0 m			
m	°	m	kg
6,1	79,7	22,6	80 500
6,5	78,6	22,5	80 500
7,0	77,1	22,4	80 500
8,0	74,3	22,0	74 500
9,0	71,4	21,7	60 300
9,1	71,0	21,6	58 500

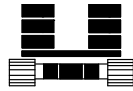
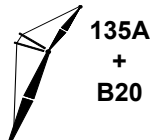
24,0 m			
m	°	m	kg
6,4	80,3	25,6	80 500
6,5	80,0	25,6	80 500
7,0	78,8	25,4	80 500
8,0	76,3	25,2	74 800
9,0	73,8	24,9	60 600
10,0	71,3	24,5	50 200
10,1	71,1	24,5	49 700

27,0 m			
m	°	m	kg
7,0	80,0	28,5	80 500
8,0	77,9	28,3	74 900
9,0	75,7	28,0	60 800
10,0	73,4	27,7	50 500
11,0	71,2	27,3	42 600
11,3	70,6	27,2	40 700

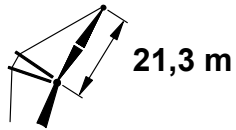
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MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg



30,0 m			
m	o	m	kg
7,3	80,4	31,5	80 500
8,0	79,1	31,4	74 900
9,0	77,1	31,1	61 000
10,0	75,2	30,8	50 600
11,0	73,1	30,5	42 700
12,0	71,1	30,1	36 600
12,2	70,7	30,1	35 500

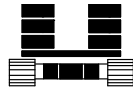
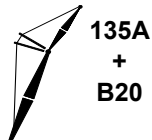
33,0 m			
m	o	m	kg
7,9	80,3	34,5	76 000
8,0	80,1	34,5	74 900
9,0	78,3	34,2	61 100
10,0	76,6	34,0	50 700
11,0	74,7	33,7	42 800
12,0	72,9	33,4	36 700
13,0	71,1	33,0	31 700
13,1	70,9	32,9	31 200

36,0 m			
m	o	m	kg
8,5	80,1	37,4	67 100
9,0	79,3	37,3	61 200
10,0	77,7	37,1	50 800
11,0	76,0	36,8	42 800
12,0	74,4	36,5	36 700
13,0	72,7	36,2	31 800
14,0	71,0	35,8	27 700

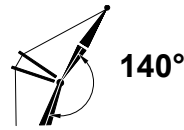
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ASME B30.5



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15 880 kg



<p>39,0 m</p>			
m	o	m	kg
8,8	80,4	40,4	63 100
9,0	80,2	40,4	61 200
10,0	78,7	40,2	50 800
11,0	77,2	39,9	42 900
12,0	75,6	39,6	36 800
13,0	74,1	39,3	31 800
14,0	72,6	39,0	27 700
15,0	71,0	38,6	24 300
15,2	70,6	38,6	23 600

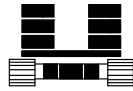
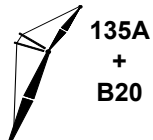
<p>42,0 m</p>			
m	o	m	kg
9,4	80,3	43,3	56 100
10,0	79,5	43,2	50 900
11,0	78,1	43,0	42 900
12,0	76,7	42,7	36 700
13,0	75,3	42,5	31 800
14,0	73,8	42,2	27 700
15,0	72,4	41,8	24 300
16,0	71,0	41,5	21 400
16,2	70,7	41,4	20 900

<p>45,0 m</p>			
m	o	m	kg
10,1	80,1	46,3	50 200
11,0	78,9	46,1	42 900
12,0	77,6	45,8	36 700
13,0	76,3	45,6	31 700
14,0	74,9	45,3	27 600
15,0	73,6	45,0	24 200
16,0	72,3	44,6	21 400
17,0	70,9	44,3	18 800
17,1	70,8	44,3	18 700

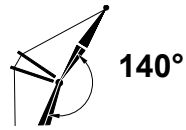
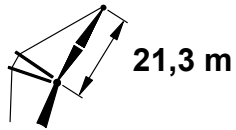
REFERENCIA

MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg

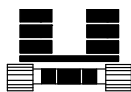


<p>48,0 m</p>			
m	°	m	kg
10,4	80,4	49,3	47 600
11,0	79,6	49,1	42 900
12,0	78,4	48,9	36 700
13,0	77,2	48,7	31 700
14,0	75,9	48,4	27 600
15,0	74,7	48,1	24 200
16,0	73,4	47,8	21 400
17,0	72,2	47,5	18 800
18,0	70,9	47,1	16 600
18,3	70,5	47,0	16 000

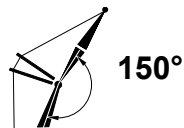
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+
15 880 kg

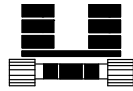
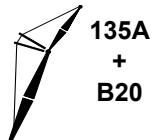


21,0 m			
m	°	m	kg
6,1	79,7	22,6	80 500
6,5	78,6	22,5	80 500
7,0	77,1	22,4	80 500
8,0	74,3	22,0	74 100
9,0	71,4	21,7	59 800
10,0	68,4	21,2	49 400
11,0	65,4	20,8	41 500
12,0	62,3	20,2	35 400
12,5	60,7	19,9	32 800

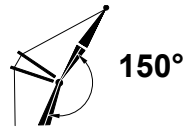
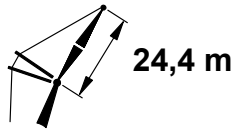
24,0 m			
m	°	m	kg
6,4	80,3	25,6	80 500
6,5	80,0	25,6	80 500
7,0	78,8	25,4	80 500
8,0	76,3	25,2	74 500
9,0	73,8	24,9	60 200
10,0	71,3	24,5	49 800
11,0	68,7	24,1	41 800
12,0	66,0	23,6	35 700
13,0	63,3	23,1	30 800
14,0	60,6	22,5	26 700

27,0 m			
m	°	m	kg
7,0	80,0	28,5	80 500
8,0	77,9	28,3	74 700
9,0	75,7	28,0	60 500
10,0	73,4	27,7	50 100
11,0	71,2	27,3	42 100
12,0	68,9	26,9	36 000
13,0	66,6	26,5	31 000
14,0	64,2	25,9	26 900
15,0	61,8	25,4	23 600
15,2	61,2	25,2	22 800

REFERENCIA



50 120 kg
+
15 880 kg



30,0 m			
m	o	m	kg
7,3	80,4	31,5	80 500
8,0	79,1	31,4	74 700
9,0	77,1	31,1	60 700
10,0	75,2	30,8	50 300
11,0	73,1	30,5	42 300
12,0	71,1	30,1	36 200
13,0	69,1	29,7	31 200
14,0	67,0	29,3	27 100
15,0	64,8	28,8	23 700
16,0	62,7	28,3	20 900
16,8	61,0	27,8	18 800

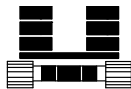
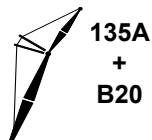
33,0 m			
m	o	m	kg
7,9	80,3	34,5	75 800
8,0	80,1	34,5	74 700
9,0	78,3	34,2	60 900
10,0	76,6	34,0	50 400
11,0	74,7	33,7	42 400
12,0	72,9	33,4	36 300
13,0	71,1	33,0	31 300
14,0	69,2	32,6	27 200
15,0	67,3	32,1	23 800
16,0	65,4	31,7	21 000
17,0	63,4	31,1	18 500
18,0	61,4	30,6	16 300
18,3	60,9	30,4	15 700

36,0 m			
m	o	m	kg
8,5	80,1	37,4	67 000
9,0	79,3	37,3	61 000
10,0	77,7	37,1	50 500
11,0	76,0	36,8	42 500
12,0	74,4	36,5	36 400
13,0	72,7	36,2	31 400
14,0	71,0	35,8	27 300
15,0	69,3	35,4	23 900
16,0	67,6	35,0	21 100
17,0	65,8	34,5	18 500
18,0	64,0	34,0	16 300
19,0	62,2	33,5	14 400
19,8	60,7	33,0	13 000

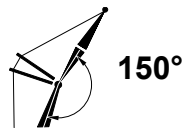
REFER TO

MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg



39,0 m

m	°	m	kg
8,8	80,4	40,4	63 000
9,0	80,2	40,4	61 000
10,0	78,7	40,2	50 600
11,0	77,2	39,9	42 600
12,0	75,6	39,6	36 400
13,0	74,1	39,3	31 400
14,0	72,6	39,0	27 300
15,0	71,0	38,6	23 900
16,0	69,4	38,3	21 100
17,0	67,8	37,8	18 500
18,0	66,2	37,4	16 400
19,0	64,6	36,9	14 500
20,0	62,9	36,3	12 700
21,3	60,6	35,6	10 800

42,0 m

m	°	m	kg
9,4	80,3	43,3	56 000
10,0	79,5	43,2	50 700
11,0	78,1	43,0	42 600
12,0	76,7	42,7	36 500
13,0	75,3	42,5	31 400
14,0	73,8	42,2	27 300
15,0	72,4	41,8	23 900
16,0	71,0	41,5	21 100
17,0	69,5	41,1	18 500
18,0	68,0	40,7	16 300
19,0	66,5	40,2	14 400
20,0	65,0	39,7	12 700
22,0	61,9	38,7	9 800
22,9	60,5	38,1	8 700

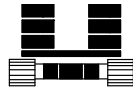
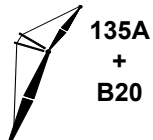
45,0 m

m	°	m	kg
10,1	80,1	46,3	50 000
11,0	78,9	46,1	42 600
12,0	77,6	45,8	36 500
13,0	76,3	45,6	31 400
14,0	74,9	45,3	27 300
15,0	73,6	45,0	23 900
16,0	72,3	44,6	21 100
17,0	70,9	44,3	18 500
18,0	69,6	43,9	16 300
19,0	68,2	43,5	14 400
20,0	66,8	43,0	12 700
22,0	63,9	42,1	9 800
24,0	61,0	40,9	7 100
24,1	60,9	40,9	7 000

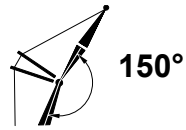
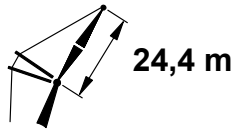
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MLC150-1 S-2

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50 120 kg
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15 880 kg

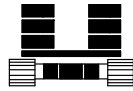
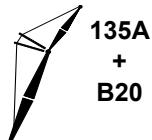


<p>48,0 m</p>			
<p>m</p>	<p>°</p>	<p>m</p>	<p>kg</p>
10,4	80,4	49,3	47 500
11,0	79,6	49,1	42 700
12,0	78,4	48,9	36 500
13,0	77,2	48,7	31 400
14,0	75,9	48,4	27 300
15,0	74,7	48,1	23 800
16,0	73,4	47,8	21 000
17,0	72,2	47,5	18 400
18,0	70,9	47,1	16 300
19,0	69,6	46,7	14 400
20,0	68,3	46,3	12 600
22,0	65,7	45,4	9 600
24,0	63,0	44,4	7 000
25,6	60,8	43,5	5 200

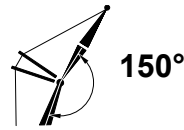
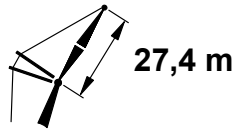
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MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg

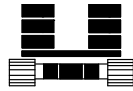
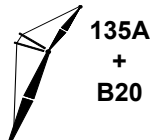


21,0 m			
m	o	m	kg
6,1	79,7	22,6	80 500
6,5	78,6	22,5	80 500
7,0	77,1	22,4	80 500
8,0	74,3	22,0	72 300
9,0	71,4	21,7	58 200
10,0	68,4	21,2	48 000
11,0	65,4	20,8	40 200
12,0	62,3	20,2	34 200
12,5	60,7	19,9	31 600

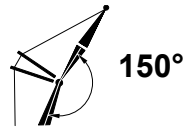
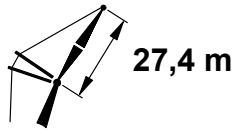
24,0 m			
m	o	m	kg
6,4	80,3	25,6	80 500
6,5	80,0	25,6	80 500
7,0	78,8	25,4	80 500
8,0	76,3	25,2	72 800
9,0	73,8	24,9	58 700
10,0	71,3	24,5	48 400
11,0	68,7	24,1	40 600
12,0	66,0	23,6	34 600
13,0	63,3	23,1	29 700
14,0	60,6	22,5	25 600

27,0 m			
m	o	m	kg
7,0	80,0	28,5	80 500
8,0	77,9	28,3	73 200
9,0	75,7	28,0	59 000
10,0	73,4	27,7	48 800
11,0	71,2	27,3	40 900
12,0	68,9	26,9	34 900
13,0	66,6	26,5	30 000
14,0	64,2	25,9	25 900
15,0	61,8	25,4	22 600
15,2	61,2	25,2	21 800

REFERENCIA



50 120 kg
+
15 880 kg



30,0 m			
m	o	m	kg
7,3	80,4	31,5	80 500
8,0	79,1	31,4	73 500
9,0	77,1	31,1	59 300
10,0	75,2	30,8	49 000
11,0	73,1	30,5	41 100
12,0	71,1	30,1	35 100
13,0	69,1	29,7	30 100
14,0	67,0	29,3	26 100
15,0	64,8	28,8	22 700
16,0	62,7	28,3	20 000
16,8	61,0	27,8	18 000

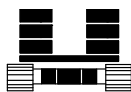
33,0 m			
m	o	m	kg
7,9	80,3	34,5	74 800
8,0	80,1	34,5	73 600
9,0	78,3	34,2	59 500
10,0	76,6	34,0	49 200
11,0	74,7	33,7	41 300
12,0	72,9	33,4	35 200
13,0	71,1	33,0	30 300
14,0	69,2	32,6	26 200
15,0	67,3	32,1	22 900
16,0	65,4	31,7	20 100
17,0	63,4	31,1	17 600
18,0	61,4	30,6	15 500
18,3	60,9	30,4	14 900

36,0 m			
m	o	m	kg
8,5	80,1	37,4	65 600
9,0	79,3	37,3	59 700
10,0	77,7	37,1	49 300
11,0	76,0	36,8	41 400
12,0	74,4	36,5	35 300
13,0	72,7	36,2	30 400
14,0	71,0	35,8	26 300
15,0	69,3	35,4	23 000
16,0	67,6	35,0	20 200
17,0	65,8	34,5	17 700
18,0	64,0	34,0	15 500
19,0	62,2	33,5	13 700
19,8	60,7	33,0	12 200

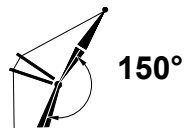
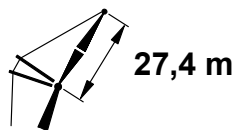
REFER TO

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ASME B30.5



50 120 kg
+
15 880 kg



39,0 m

m	o	m	kg
8,8	80,4	40,4	61 600
9,0	80,2	40,4	59 700
10,0	78,7	40,2	49 400
11,0	77,2	39,9	41 500
12,0	75,6	39,6	35 400
13,0	74,1	39,3	30 500
14,0	72,6	39,0	26 400
15,0	71,0	38,6	23 000
16,0	69,4	38,3	20 200
17,0	67,8	37,8	17 700
18,0	66,2	37,4	15 600
19,0	64,6	36,9	13 700
20,0	62,9	36,3	12 000
21,3	60,6	35,6	10 000

42,0 m

m	o	m	kg
9,4	80,3	43,3	54 700
10,0	79,5	43,2	49 500
11,0	78,1	43,0	41 500
12,0	76,7	42,7	35 400
13,0	75,3	42,5	30 500
14,0	73,8	42,2	26 400
15,0	72,4	41,8	23 000
16,0	71,0	41,5	20 200
17,0	69,5	41,1	17 700
18,0	68,0	40,7	15 600
19,0	66,5	40,2	13 700
20,0	65,0	39,7	12 000
22,0	61,9	38,7	9 000
22,9	60,5	38,1	7 800

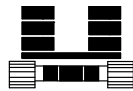
45,0 m

m	o	m	kg
10,1	80,1	46,3	48 900
11,0	78,9	46,1	41 600
12,0	77,6	45,8	35 500
13,0	76,3	45,6	30 500
14,0	74,9	45,3	26 400
15,0	73,6	45,0	23 000
16,0	72,3	44,6	20 200
17,0	70,9	44,3	17 700
18,0	69,6	43,9	15 600
19,0	68,2	43,5	13 700
20,0	66,8	43,0	12 000
22,0	63,9	42,1	8 900
24,0	61,0	40,9	6 300
24,1	60,9	40,9	6 200

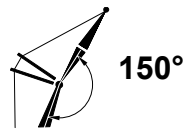
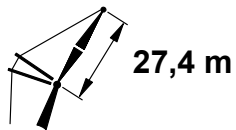
REFER TO SPECIFICATIONS

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ASME B30.5



50 120 kg
+
15 880 kg

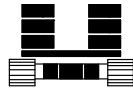
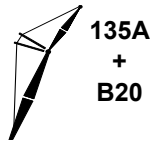


<p>48,0 m</p>			
10,4	80,4	49,3	46 300
11,0	79,6	49,1	41 600
12,0	78,4	48,9	35 500
13,0	77,2	48,7	30 500
14,0	75,9	48,4	26 400
15,0	74,7	48,1	23 000
16,0	73,4	47,8	20 200
17,0	72,2	47,5	17 700
18,0	70,9	47,1	15 500
19,0	69,6	46,7	13 600
20,0	68,3	46,3	11 900
22,0	65,7	45,4	8 800
24,0	63,0	44,4	6 200
25,6	60,8	43,5	4 400

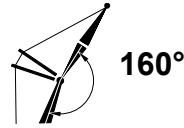
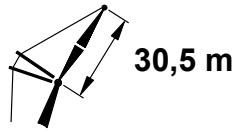
REFERENCE ONLY!

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ASME B30.5



50 120 kg
+
15 880 kg

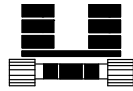
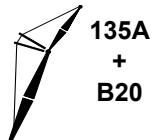


<p>21,0 m</p>			
m	o	m	kg
6,1	79,7	22,6	80 500
6,5	78,6	22,5	80 500
7,0	77,1	22,4	80 500
8,0	74,3	22,0	72 900
9,0	71,4	21,7	58 500
10,0	68,4	21,2	48 000
11,0	65,4	20,8	40 100
12,0	62,3	20,2	33 900
13,0	59,0	19,6	28 900
14,0	55,7	18,8	24 800
15,0	52,2	18,0	21 400
15,5	50,2	17,5	19 800

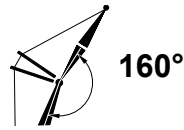
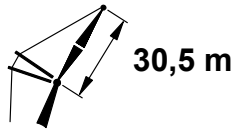
<p>24,0 m</p>			
m	o	m	kg
6,4	80,3	25,6	80 500
6,5	80,0	25,6	80 500
7,0	78,8	25,4	80 500
8,0	76,3	25,2	73 500
9,0	73,8	24,9	59 100
10,0	71,3	24,5	48 600
11,0	68,7	24,1	40 600
12,0	66,0	23,6	34 400
13,0	63,3	23,1	29 400
14,0	60,6	22,5	25 300
15,0	57,7	21,8	21 900
16,0	54,7	21,1	19 100
17,0	51,6	20,2	16 500
17,4	50,4	19,9	15 700

<p>27,0 m</p>			
m	o	m	kg
7,0	80,0	28,5	80 500
8,0	77,9	28,3	73 900
9,0	75,7	28,0	59 500
10,0	73,4	27,7	49 000
11,0	71,2	27,3	41 000
12,0	68,9	26,9	34 800
13,0	66,6	26,5	29 800
14,0	64,2	25,9	25 700
15,0	61,8	25,4	22 300
16,0	59,3	24,8	19 500
17,0	56,7	24,1	16 900
18,0	54,0	23,3	14 800
19,0	51,3	22,5	12 800
19,2	50,7	22,3	12 400

REFER TO THE CRANE MANUAL FOR MORE INFORMATION



50 120 kg
+
15 880 kg



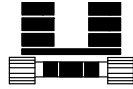
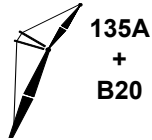
30,0 m			
m	o	m	kg
7,3	80,4	31,5	80 500
8,0	79,1	31,4	74 000
9,0	77,1	31,1	59 800
10,0	75,2	30,8	49 300
11,0	73,1	30,5	41 300
12,0	71,1	30,1	35 100
13,0	69,1	29,7	30 100
14,0	67,0	29,3	26 000
15,0	64,8	28,8	22 500
16,0	62,7	28,3	19 700
17,0	60,4	27,7	17 100
18,0	58,2	27,0	15 000
19,0	55,8	26,3	13 100
20,0	53,4	25,5	11 300
21,3	50,1	24,4	9 400

33,0 m			
m	o	m	kg
7,9	80,3	34,5	75 200
8,0	80,1	34,5	74 100
9,0	78,3	34,2	60 100
10,0	76,6	34,0	49 600
11,0	74,7	33,7	41 500
12,0	72,9	33,4	35 300
13,0	71,1	33,0	30 300
14,0	69,2	32,6	26 200
15,0	67,3	32,1	22 800
16,0	65,4	31,7	19 900
17,0	63,4	31,1	17 400
18,0	61,4	30,6	15 200
19,0	59,4	30,0	13 300
20,0	57,3	29,3	11 600
22,0	53,0	27,8	8 600
23,2	50,3	26,8	7 000

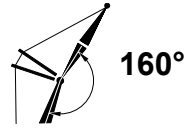
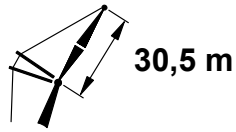
36,0 m			
m	o	m	kg
8,5	80,1	37,4	66 300
9,0	79,3	37,3	60 300
10,0	77,7	37,1	49 800
11,0	76,0	36,8	41 700
12,0	74,4	36,5	35 500
13,0	72,7	36,2	30 500
14,0	71,0	35,8	26 300
15,0	69,3	35,4	22 900
16,0	67,6	35,0	20 100
17,0	65,8	34,5	17 500
18,0	64,0	34,0	15 300
19,0	62,2	33,5	13 400
20,0	60,4	32,9	11 700
22,0	56,6	31,5	8 700
24,0	52,6	30,0	6 000
25,0	50,5	29,2	4 800

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ASME B30.5



50 120 kg
+
15 880 kg



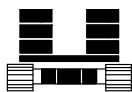
39,0 m			
m	o	m	kg
8,8	80,4	40,4	62 300
9,0	80,2	40,4	60 400
10,0	78,7	40,2	49 900
11,0	77,2	39,9	41 800
12,0	75,6	39,6	35 600
13,0	74,1	39,3	30 600
14,0	72,6	39,0	26 400
15,0	71,0	38,6	23 000
16,0	69,4	38,3	20 200
17,0	67,8	37,8	17 600
18,0	66,2	37,4	15 400
19,0	64,6	36,9	13 500
20,0	62,9	36,3	11 700
22,0	59,5	35,2	8 700
24,0	56,0	33,8	6 000
26,0	52,3	32,3	3 800
27,1	50,1	31,3	2 700

42,0 m			
m	o	m	kg
9,4	80,3	43,3	55 300
10,0	79,5	43,2	50 000
11,0	78,1	43,0	41 900
12,0	76,7	42,7	35 700
13,0	75,3	42,5	30 600
14,0	73,8	42,2	26 500
15,0	72,4	41,8	23 000
16,0	71,0	41,5	20 200
17,0	69,5	41,1	17 600
18,0	68,0	40,7	15 400
19,0	66,5	40,2	13 500
20,0	65,0	39,7	11 700
22,0	61,9	38,7	8 600
24,0	58,7	37,4	5 900
26,0	55,4	36,1	3 700
27,4	52,9	35,0	2 300

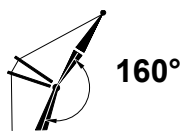
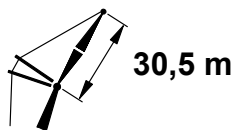
45,0 m			
m	o	m	kg
10,1	80,1	46,3	49 400
11,0	78,9	46,1	42 000
12,0	77,6	45,8	35 700
13,0	76,3	45,6	30 700
14,0	74,9	45,3	26 500
15,0	73,6	45,0	23 100
16,0	72,3	44,6	20 200
17,0	70,9	44,3	17 600
18,0	69,6	43,9	15 400
19,0	68,2	43,5	13 500
20,0	66,8	43,0	11 800
22,0	63,9	42,1	8 600
24,0	61,0	40,9	5 900
26,0	58,0	39,7	3 700
27,4	55,8	38,7	2 300

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ASME B30.5



50 120 kg
+
15 880 kg

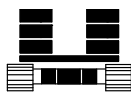


<p>48,0 m</p>			
<p>m</p>	<p>o</p>	<p>m</p>	<p>kg</p>
10,4	80,4	49,3	46 900
11,0	79,6	49,1	42 000
12,0	78,4	48,9	35 800
13,0	77,2	48,7	30 700
14,0	75,9	48,4	26 500
15,0	74,7	48,1	23 100
16,0	73,4	47,8	20 200
17,0	72,2	47,5	17 600
18,0	70,9	47,1	15 400
19,0	69,6	46,7	13 500
20,0	68,3	46,3	11 700
22,0	65,7	45,4	8 400
24,0	63,0	44,4	5 800
26,0	60,3	43,3	3 500
27,4	58,3	42,4	2 200

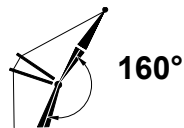
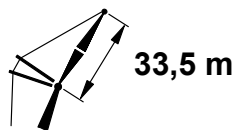
REFERENCE ONLY!

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ASME B30.5



50 120 kg
+
15 880 kg



21,0 m

m	°	m	kg	m	kg	m	kg
6,1	79,7	22,6	80 500				
6,5	78,6	22,5	80 500				
7,0	77,1	22,4	80 500				
8,0	74,3	22,0	71 600				
9,0	71,4	21,7	57 300				
10,0	68,4	21,2	47 000				
11,0	65,4	20,8	39 100				
12,0	62,3	20,2	33 000				
13,0	59,0	19,6	28 100				
14,0	55,7	18,8	24 000				
15,0	52,2	18,0	20 700				
15,5	50,2	17,5	19 000				

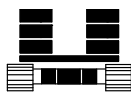
24,0 m

m	°	m	kg	m	kg	m	kg
6,4	80,3	25,6	80 500				
6,5	80,0	25,6	80 500				
7,0	78,8	25,4	80 500				
8,0	76,3	25,2	72 300				
9,0	73,8	24,9	58 000				
10,0	71,3	24,5	47 600				
11,0	68,7	24,1	39 700				
12,0	66,0	23,6	33 600				
13,0	63,3	23,1	28 600				
14,0	60,6	22,5	24 600				
15,0	57,7	21,8	21 200				
16,0	54,7	21,1	18 400				
17,0	51,6	20,2	15 800				
17,4	50,4	19,9	15 000				

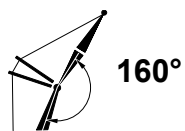
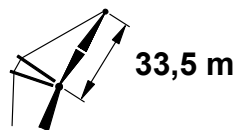
27,0 m

m	°	m	kg	m	kg	m	kg
7,0	80,0	28,5	80 500				
8,0	77,9	28,3	72 800				
9,0	75,7	28,0	58 500				
10,0	73,4	27,7	48 100				
11,0	71,2	27,3	40 100				
12,0	68,9	26,9	34 000				
13,0	66,6	26,5	29 100				
14,0	64,2	25,9	25 000				
15,0	61,8	25,4	21 600				
16,0	59,3	24,8	18 800				
17,0	56,7	24,1	16 300				
18,0	54,0	23,3	14 100				
19,0	51,3	22,5	12 200				
19,2	50,7	22,3	11 800				

REFER TO...



50 120 kg
+
15 880 kg



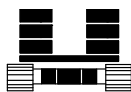
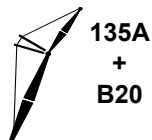
30,0 m			
m	o	m	kg
7,3	80,4	31,5	80 500
8,0	79,1	31,4	73 200
9,0	77,1	31,1	58 800
10,0	75,2	30,8	48 400
11,0	73,1	30,5	40 400
12,0	71,1	30,1	34 300
13,0	69,1	29,7	29 400
14,0	67,0	29,3	25 300
15,0	64,8	28,8	21 900
16,0	62,7	28,3	19 100
17,0	60,4	27,7	16 500
18,0	58,2	27,0	14 400
19,0	55,8	26,3	12 500
20,0	53,4	25,5	10 800
21,3	50,1	24,4	8 800

33,0 m			
m	o	m	kg
7,9	80,3	34,5	74 500
8,0	80,1	34,5	73 400
9,0	78,3	34,2	59 100
10,0	76,6	34,0	48 700
11,0	74,7	33,7	40 700
12,0	72,9	33,4	34 600
13,0	71,1	33,0	29 600
14,0	69,2	32,6	25 500
15,0	67,3	32,1	22 100
16,0	65,4	31,7	19 300
17,0	63,4	31,1	16 800
18,0	61,4	30,6	14 600
19,0	59,4	30,0	12 700
20,0	57,3	29,3	11 000
22,0	53,0	27,8	8 000
23,2	50,3	26,8	6 400

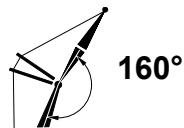
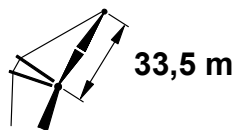
36,0 m			
m	o	m	kg
8,5	80,1	37,4	65 300
9,0	79,3	37,3	59 400
10,0	77,7	37,1	48 900
11,0	76,0	36,8	40 900
12,0	74,4	36,5	34 800
13,0	72,7	36,2	29 800
14,0	71,0	35,8	25 700
15,0	69,3	35,4	22 300
16,0	67,6	35,0	19 500
17,0	65,8	34,5	16 900
18,0	64,0	34,0	14 700
19,0	62,2	33,5	12 900
20,0	60,4	32,9	11 100
22,0	56,6	31,5	8 000
24,0	52,6	30,0	5 400
25,0	50,5	29,2	4 200

MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg



39,0 m

m	o	m	kg
8,8	80,4	40,4	61 400
9,0	80,2	40,4	59 400
10,0	78,7	40,2	49 100
11,0	77,2	39,9	41 100
12,0	75,6	39,6	34 900
13,0	74,1	39,3	29 900
14,0	72,6	39,0	25 800
15,0	71,0	38,6	22 400
16,0	69,4	38,3	19 600
17,0	67,8	37,8	17 000
18,0	66,2	37,4	14 900
19,0	64,6	36,9	13 000
20,0	62,9	36,3	11 200
22,0	59,5	35,2	8 100
24,0	56,0	33,8	5 400
26,0	52,3	32,3	3 200
27,1	50,1	31,3	2 100

42,0 m

m	o	m	kg
9,4	80,3	43,3	54 500
10,0	79,5	43,2	49 200
11,0	78,1	43,0	41 200
12,0	76,7	42,7	35 000
13,0	75,3	42,5	30 000
14,0	73,8	42,2	25 900
15,0	72,4	41,8	22 500
16,0	71,0	41,5	19 600
17,0	69,5	41,1	17 100
18,0	68,0	40,7	14 900
19,0	66,5	40,2	13 000
20,0	65,0	39,7	11 200
22,0	61,9	38,7	8 000
24,0	58,7	37,4	5 400
26,0	55,4	36,1	3 200
27,4	52,9	35,0	1 800

45,0 m

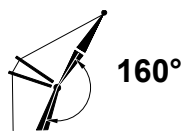
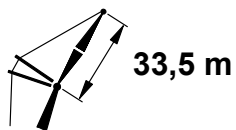
m	o	m	kg
10,1	80,1	46,3	48 600
11,0	78,9	46,1	41 200
12,0	77,6	45,8	35 100
13,0	76,3	45,6	30 100
14,0	74,9	45,3	25 900
15,0	73,6	45,0	22 500
16,0	72,3	44,6	19 700
17,0	70,9	44,3	17 100
18,0	69,6	43,9	15 000
19,0	68,2	43,5	13 000
20,0	66,8	43,0	11 200
22,0	63,9	42,1	8 000
24,0	61,0	40,9	5 400
26,0	58,0	39,7	3 100
27,4	55,8	38,7	1 800

MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg

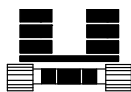


 48,0 m			
 m	 °	 m	 kg
10,4	80,4	49,3	46 100
11,0	79,6	49,1	41 300
12,0	78,4	48,9	35 100
13,0	77,2	48,7	30 100
14,0	75,9	48,4	26 000
15,0	74,7	48,1	22 500
16,0	73,4	47,8	19 700
17,0	72,2	47,5	17 100
18,0	70,9	47,1	15 000
19,0	69,6	46,7	12 900
20,0	68,3	46,3	11 100
22,0	65,7	45,4	7 900
24,0	63,0	44,4	5 200
26,0	60,3	43,3	3 000
27,4	58,3	42,4	1 700

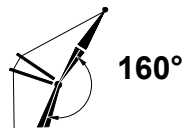
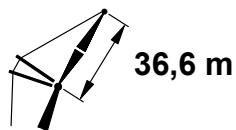
REFERENCE ONLY!

MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg



21,0 m			
m	o	m	kg
6,1	79,7	22,6	80 500
6,5	78,6	22,5	80 500
7,0	77,1	22,4	80 200
8,0	74,3	22,0	69 700
9,0	71,4	21,7	55 600
10,0	68,4	21,2	45 400
11,0	65,4	20,8	37 600
12,0	62,3	20,2	31 600
13,0	59,0	19,6	26 700
14,0	55,7	18,8	22 700
15,0	52,2	18,0	19 400
15,5	50,2	17,5	17 700

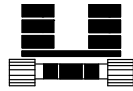
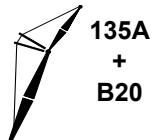
24,0 m			
m	o	m	kg
6,4	80,3	25,6	80 500
6,5	80,0	25,6	80 500
7,0	78,8	25,4	80 300
8,0	76,3	25,2	70 500
9,0	73,8	24,9	56 300
10,0	71,3	24,5	46 100
11,0	68,7	24,1	38 200
12,0	66,0	23,6	32 200
13,0	63,3	23,1	27 300
14,0	60,6	22,5	23 300
15,0	57,7	21,8	20 000
16,0	54,7	21,1	17 200
17,0	51,6	20,2	14 700
17,4	50,4	19,9	13 800

27,0 m			
m	o	m	kg
7,0	80,0	28,5	80 500
8,0	77,9	28,3	71 100
9,0	75,7	28,0	56 900
10,0	73,4	27,7	46 600
11,0	71,2	27,3	38 700
12,0	68,9	26,9	32 700
13,0	66,6	26,5	27 800
14,0	64,2	25,9	23 800
15,0	61,8	25,4	20 400
16,0	59,3	24,8	17 700
17,0	56,7	24,1	15 200
18,0	54,0	23,3	13 000
19,0	51,3	22,5	11 200
19,2	50,7	22,3	10 800

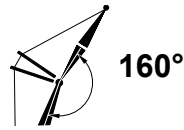
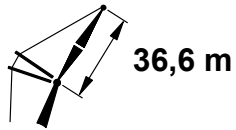
REFERENCED

MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg



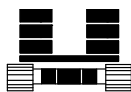
30,0 m			
m	o	m	kg
7,3	80,4	31,5	80 300
8,0	79,1	31,4	71 500
9,0	77,1	31,1	57 300
10,0	75,2	30,8	47 000
11,0	73,1	30,5	39 100
12,0	71,1	30,1	33 100
13,0	69,1	29,7	28 200
14,0	67,0	29,3	24 100
15,0	64,8	28,8	20 800
16,0	62,7	28,3	18 000
17,0	60,4	27,7	15 500
18,0	58,2	27,0	13 300
19,0	55,8	26,3	11 500
20,0	53,4	25,5	9 700
21,3	50,1	24,4	7 500

33,0 m			
m	o	m	kg
7,9	80,3	34,5	73 000
8,0	80,1	34,5	71 900
9,0	78,3	34,2	57 600
10,0	76,6	34,0	47 300
11,0	74,7	33,7	39 400
12,0	72,9	33,4	33 400
13,0	71,1	33,0	28 400
14,0	69,2	32,6	24 400
15,0	67,3	32,1	21 000
16,0	65,4	31,7	18 300
17,0	63,4	31,1	15 700
18,0	61,4	30,6	13 600
19,0	59,4	30,0	11 700
20,0	57,3	29,3	10 000
22,0	53,0	27,8	6 800
23,2	50,3	26,8	5 200

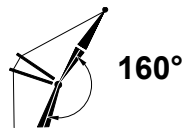
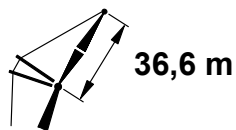
36,0 m			
m	o	m	kg
8,5	80,1	37,4	63 800
9,0	79,3	37,3	57 900
10,0	77,7	37,1	47 600
11,0	76,0	36,8	39 700
12,0	74,4	36,5	33 600
13,0	72,7	36,2	28 600
14,0	71,0	35,8	24 600
15,0	69,3	35,4	21 200
16,0	67,6	35,0	18 400
17,0	65,8	34,5	15 900
18,0	64,0	34,0	13 800
19,0	62,2	33,5	11 800
20,0	60,4	32,9	10 000
22,0	56,6	31,5	6 900
24,0	52,6	30,0	4 200
25,0	50,5	29,2	3 100

MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg



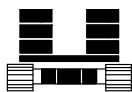
39,0 m			
m	o	m	kg
8,8	80,4	40,4	60 000
9,0	80,2	40,4	58 000
10,0	78,7	40,2	47 800
11,0	77,2	39,9	39 800
12,0	75,6	39,6	33 700
13,0	74,1	39,3	28 800
14,0	72,6	39,0	24 700
15,0	71,0	38,6	21 400
16,0	69,4	38,3	18 600
17,0	67,8	37,8	16 000
18,0	66,2	37,4	13 900
19,0	64,6	36,9	12 000
20,0	62,9	36,3	10 100
22,0	59,5	35,2	6 900
24,0	56,0	33,8	4 300
25,9	52,4	32,4	2 200

42,0 m			
m	o	m	kg
9,4	80,3	43,3	53 100
10,0	79,5	43,2	47 900
11,0	78,1	43,0	40 000
12,0	76,7	42,7	33 900
13,0	75,3	42,5	28 900
14,0	73,8	42,2	24 800
15,0	72,4	41,8	21 500
16,0	71,0	41,5	18 700
17,0	69,5	41,1	16 100
18,0	68,0	40,7	14 000
19,0	66,5	40,2	12 000
20,0	65,0	39,7	10 100
22,0	61,9	38,7	6 900
24,0	58,7	37,4	4 300
25,9	55,6	36,1	2 200

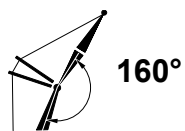
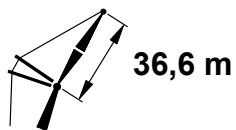
45,0 m			
m	o	m	kg
10,1	80,1	46,3	47 400
11,0	78,9	46,1	40 100
12,0	77,6	45,8	33 900
13,0	76,3	45,6	29 000
14,0	74,9	45,3	24 900
15,0	73,6	45,0	21 500
16,0	72,3	44,6	18 700
17,0	70,9	44,3	16 200
18,0	69,6	43,9	14 000
19,0	68,2	43,5	12 000
20,0	66,8	43,0	10 000
22,0	63,9	42,1	6 900
24,0	61,0	40,9	4 300
25,9	58,2	39,8	2 200

MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg

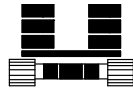
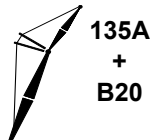


 48,0 m			
 m	 °	 m	 kg
10,4	80,4	49,3	44 900
11,0	79,6	49,1	40 100
12,0	78,4	48,9	34 000
13,0	77,2	48,7	29 100
14,0	75,9	48,4	24 900
15,0	74,7	48,1	21 600
16,0	73,4	47,8	18 800
17,0	72,2	47,5	16 200
18,0	70,9	47,1	13 900
19,0	69,6	46,7	11 800
20,0	68,3	46,3	9 900
22,0	65,7	45,4	6 800
24,0	63,0	44,4	4 200
25,9	60,4	43,3	2 100

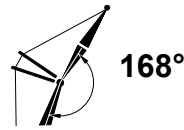
REFERENCE ONLY!

MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg



21,0 m			
m	o	m	kg
6,1	79,7	22,6	80 500
6,5	78,6	22,5	80 500
7,0	77,1	22,4	80 500
8,0	74,3	22,0	71 100
9,0	71,4	21,7	56 600
10,0	68,4	21,2	46 100
11,0	65,4	20,8	38 000
12,0	62,3	20,2	31 800
13,0	59,0	19,6	26 800
14,0	55,7	18,8	22 700
15,0	52,2	18,0	19 200
15,5	50,2	17,5	17 500

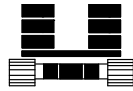
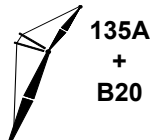
24,0 m			
m	o	m	kg
6,4	80,3	25,6	80 500
6,5	80,0	25,6	80 500
7,0	78,8	25,4	80 500
8,0	76,3	25,2	72 100
9,0	73,8	24,9	57 500
10,0	71,3	24,5	46 900
11,0	68,7	24,1	38 800
12,0	66,0	23,6	32 600
13,0	63,3	23,1	27 600
14,0	60,6	22,5	23 400
15,0	57,7	21,8	20 000
16,0	54,7	21,1	17 100
17,0	51,6	20,2	14 500
17,4	50,4	19,9	13 600

27,0 m			
m	o	m	kg
7,0	80,0	28,5	80 500
8,0	77,9	28,3	72 800
9,0	75,7	28,0	58 200
10,0	73,4	27,7	47 600
11,0	71,2	27,3	39 500
12,0	68,9	26,9	33 300
13,0	66,6	26,5	28 200
14,0	64,2	25,9	24 000
15,0	61,8	25,4	20 600
16,0	59,3	24,8	17 700
17,0	56,7	24,1	15 100
18,0	54,0	23,3	13 000
19,0	51,3	22,5	11 000
19,2	50,7	22,3	10 600

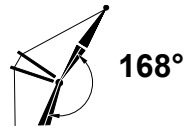
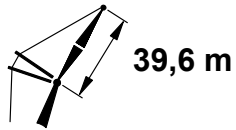
REFER

MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg



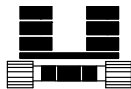
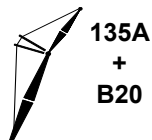
30,0 m			
m	o	m	kg
7,3	80,4	31,5	80 500
8,0	79,1	31,4	73 100
9,0	77,1	31,1	58 700
10,0	75,2	30,8	48 000
11,0	73,1	30,5	39 900
12,0	71,1	30,1	33 700
13,0	69,1	29,7	28 600
14,0	67,0	29,3	24 500
15,0	64,8	28,8	21 000
16,0	62,7	28,3	18 200
17,0	60,4	27,7	15 500
18,0	58,2	27,0	13 300
19,0	55,8	26,3	11 400
20,0	53,4	25,5	9 500
21,3	50,1	24,4	7 200

33,0 m			
m	o	m	kg
7,9	80,3	34,5	74 500
8,0	80,1	34,5	73 300
9,0	78,3	34,2	59 000
10,0	76,6	34,0	48 400
11,0	74,7	33,7	40 300
12,0	72,9	33,4	34 100
13,0	71,1	33,0	29 000
14,0	69,2	32,6	24 800
15,0	67,3	32,1	21 400
16,0	65,4	31,7	18 500
17,0	63,4	31,1	15 900
18,0	61,4	30,6	13 700
19,0	59,4	30,0	11 700
20,0	57,3	29,3	9 900
22,0	53,0	27,8	6 600
23,2	50,3	26,8	4 900

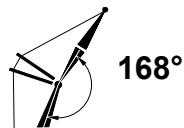
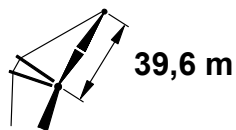
36,0 m			
m	o	m	kg
8,5	80,1	37,4	65 500
9,0	79,3	37,3	59 400
10,0	77,7	37,1	48 700
11,0	76,0	36,8	40 600
12,0	74,4	36,5	34 300
13,0	72,7	36,2	29 200
14,0	71,0	35,8	25 100
15,0	69,3	35,4	21 600
16,0	67,6	35,0	18 700
17,0	65,8	34,5	16 100
18,0	64,0	34,0	13 900
19,0	62,2	33,5	11 900
20,0	60,4	32,9	10 000
22,0	56,6	31,5	6 700
24,0	52,6	30,0	4 000
25,0	50,5	29,2	2 800

MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg



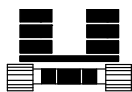
39,0 m			
m	o	m	kg
8,8	80,4	40,4	61 500
9,0	80,2	40,4	59 500
10,0	78,7	40,2	49 000
11,0	77,2	39,9	40 800
12,0	75,6	39,6	34 500
13,0	74,1	39,3	29 500
14,0	72,6	39,0	25 300
15,0	71,0	38,6	21 800
16,0	69,4	38,3	18 900
17,0	67,8	37,8	16 300
18,0	66,2	37,4	14 100
19,0	64,6	36,9	12 100
20,0	62,9	36,3	10 200
22,0	59,5	35,2	6 900
24,0	56,0	33,8	4 200
25,9	52,4	32,4	2 000

42,0 m			
m	o	m	kg
9,4	80,3	43,3	54 500
10,0	79,5	43,2	49 200
11,0	78,1	43,0	41 000
12,0	76,7	42,7	34 700
13,0	75,3	42,5	29 600
14,0	73,8	42,2	25 400
15,0	72,4	41,8	21 900
16,0	71,0	41,5	19 100
17,0	69,5	41,1	16 400
18,0	68,0	40,7	14 200
19,0	66,5	40,2	12 100
20,0	65,0	39,7	10 200
22,0	61,9	38,7	6 900
24,0	58,7	37,4	4 200
25,9	55,6	36,1	2 000

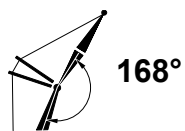
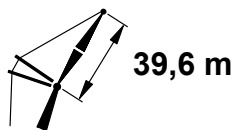
45,0 m			
m	o	m	kg
10,1	80,1	46,3	48 600
11,0	78,9	46,1	41 100
12,0	77,6	45,8	34 800
13,0	76,3	45,6	29 700
14,0	74,9	45,3	25 500
15,0	73,6	45,0	22 000
16,0	72,3	44,6	19 200
17,0	70,9	44,3	16 500
18,0	69,6	43,9	14 300
19,0	68,2	43,5	12 200
20,0	66,8	43,0	10 200
22,0	63,9	42,1	7 000
24,0	61,0	40,9	4 300
25,9	58,2	39,8	2 100

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ASME B30.5



50 120 kg
+
15 880 kg

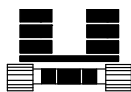


 m	 °	 m	 kg
10,4	80,4	49,3	46 100
11,0	79,6	49,1	41 200
12,0	78,4	48,9	34 900
13,0	77,2	48,7	29 800
14,0	75,9	48,4	25 600
15,0	74,7	48,1	22 100
16,0	73,4	47,8	19 200
17,0	72,2	47,5	16 600
18,0	70,9	47,1	14 200
19,0	69,6	46,7	12 100
20,0	68,3	46,3	10 100
22,0	65,7	45,4	6 900
24,0	63,0	44,4	4 200
25,9	60,4	43,3	2 000

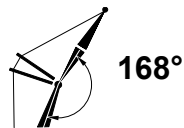
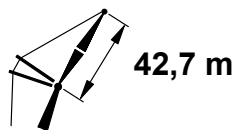
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MLC150-1 S-2

ASME B30.5



50 120 kg
+
15 880 kg

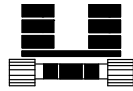
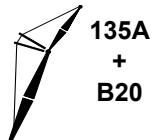


21,0 m			
m	o	m	kg
6,1	79,7	22,6	80 500
6,5	78,6	22,5	80 500
7,0	77,1	22,4	80 100
8,0	74,3	22,0	69 500
9,0	71,4	21,7	55 100
10,0	68,4	21,2	44 600
11,0	65,4	20,8	36 600
12,0	62,3	20,2	30 400
13,0	59,0	19,6	25 500
14,0	55,7	18,8	21 300
15,0	52,2	18,0	17 900
15,5	50,2	17,5	16 300

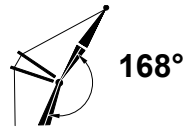
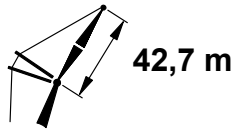
24,0 m			
m	o	m	kg
6,4	80,3	25,6	80 500
6,5	80,0	25,6	80 500
7,0	78,8	25,4	80 300
8,0	76,3	25,2	70 500
9,0	73,8	24,9	56 000
10,0	71,3	24,5	45 500
11,0	68,7	24,1	37 500
12,0	66,0	23,6	31 300
13,0	63,3	23,1	26 300
14,0	60,6	22,5	22 200
15,0	57,7	21,8	18 800
16,0	54,7	21,1	16 000
17,0	51,6	20,2	13 300
17,4	50,4	19,9	12 500

27,0 m			
m	o	m	kg
7,0	80,0	28,5	80 500
8,0	77,9	28,3	71 300
9,0	75,7	28,0	56 800
10,0	73,4	27,7	46 200
11,0	71,2	27,3	38 200
12,0	68,9	26,9	32 000
13,0	66,6	26,5	27 000
14,0	64,2	25,9	22 900
15,0	61,8	25,4	19 500
16,0	59,3	24,8	16 600
17,0	56,7	24,1	14 000
18,0	54,0	23,3	11 900
19,0	51,3	22,5	9 700
19,2	50,7	22,3	9 300

REFER



50 120 kg
+
15 880 kg



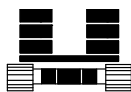
30,0 m			
m	o	m	kg
7,3	80,4	31,5	80 500
8,0	79,1	31,4	71 900
9,0	77,1	31,1	57 300
10,0	75,2	30,8	46 800
11,0	73,1	30,5	38 700
12,0	71,1	30,1	32 500
13,0	69,1	29,7	27 500
14,0	67,0	29,3	23 400
15,0	64,8	28,8	19 900
16,0	62,7	28,3	17 100
17,0	60,4	27,7	14 500
18,0	58,2	27,0	12 300
19,0	55,8	26,3	10 200
20,0	53,4	25,5	8 200
21,3	50,1	24,4	5 900

33,0 m			
m	o	m	kg
7,9	80,3	34,5	73 500
8,0	80,1	34,5	72 300
9,0	78,3	34,2	57 800
10,0	76,6	34,0	47 200
11,0	74,7	33,7	39 100
12,0	72,9	33,4	32 900
13,0	71,1	33,0	27 900
14,0	69,2	32,6	23 800
15,0	67,3	32,1	20 300
16,0	65,4	31,7	17 500
17,0	63,4	31,1	14 900
18,0	61,4	30,6	12 700
19,0	59,4	30,0	10 600
20,0	57,3	29,3	8 600
22,0	53,0	27,8	5 300
23,2	50,3	26,8	3 700

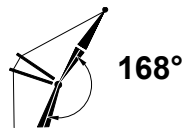
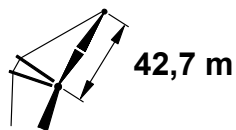
36,0 m			
m	o	m	kg
8,5	80,1	37,4	64 200
9,0	79,3	37,3	58 200
10,0	77,7	37,1	47 600
11,0	76,0	36,8	39 500
12,0	74,4	36,5	33 300
13,0	72,7	36,2	28 200
14,0	71,0	35,8	24 000
15,0	69,3	35,4	20 600
16,0	67,6	35,0	17 800
17,0	65,8	34,5	15 200
18,0	64,0	34,0	12 900
19,0	62,2	33,5	10 800
20,0	60,4	32,9	8 800
22,0	56,6	31,5	5 600
24,0	52,6	30,0	2 900
25,0	50,5	29,2	1 700

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ASME B30.5



50 120 kg
+
15 880 kg



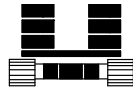
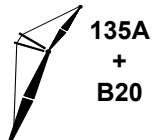
39,0 m			
m	°	m	kg
8,8	80,4	40,4	60 300
9,0	80,2	40,4	58 300
10,0	78,7	40,2	47 800
11,0	77,2	39,9	39 700
12,0	75,6	39,6	33 500
13,0	74,1	39,3	28 500
14,0	72,6	39,0	24 300
15,0	71,0	38,6	20 800
16,0	69,4	38,3	18 000
17,0	67,8	37,8	15 400
18,0	66,2	37,4	13 100
19,0	64,6	36,9	11 000
20,0	62,9	36,3	9 000
22,0	59,5	35,2	5 800
24,0	56,0	33,8	3 100
24,4	55,3	33,5	2 600

42,0 m			
m	°	m	kg
9,4	80,3	43,3	53 400
10,0	79,5	43,2	48 100
11,0	78,1	43,0	39 900
12,0	76,7	42,7	33 700
13,0	75,3	42,5	28 600
14,0	73,8	42,2	24 500
15,0	72,4	41,8	21 000
16,0	71,0	41,5	18 100
17,0	69,5	41,1	15 500
18,0	68,0	40,7	13 100
19,0	66,5	40,2	11 000
20,0	65,0	39,7	9 100
22,0	61,9	38,7	5 800
24,0	58,7	37,4	3 100
24,4	58,1	37,2	2 600

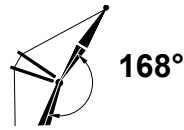
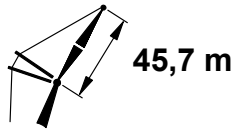
45,0 m			
m	°	m	kg
10,1	80,1	46,3	47 600
11,0	78,9	46,1	40 100
12,0	77,6	45,8	33 800
13,0	76,3	45,6	28 800
14,0	74,9	45,3	24 600
15,0	73,6	45,0	21 100
16,0	72,3	44,6	18 300
17,0	70,9	44,3	15 600
18,0	69,6	43,9	13 200
19,0	68,2	43,5	11 100
20,0	66,8	43,0	9 100
22,0	63,9	42,1	5 900
24,0	61,0	40,9	3 200
24,4	60,5	40,7	2 700

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ASME B30.5



50 120 kg
+
15 880 kg



m	o	m	kg
6,1	79,7	22,6	80 500
6,5	78,6	22,5	80 500
7,0	77,1	22,4	79 700
8,0	74,3	22,0	68 200
9,0	71,4	21,7	53 900
10,0	68,4	21,2	43 500
11,0	65,4	20,8	35 600
12,0	62,3	20,2	29 500
13,0	59,0	19,6	24 500
14,0	55,7	18,8	20 400
15,0	52,2	18,0	17 000
15,5	50,2	17,5	15 400

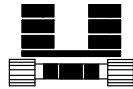
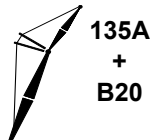
m	o	m	kg
6,4	80,3	25,6	80 500
6,5	80,0	25,6	80 500
7,0	78,8	25,4	79 900
8,0	76,3	25,2	69 300
9,0	73,8	24,9	54 900
10,0	71,3	24,5	44 500
11,0	68,7	24,1	36 500
12,0	66,0	23,6	30 400
13,0	63,3	23,1	25 500
14,0	60,6	22,5	21 300
15,0	57,7	21,8	18 000
16,0	54,7	21,1	15 200
17,0	51,6	20,2	12 600
17,4	50,4	19,9	11 700

m	o	m	kg
7,0	80,0	28,5	80 500
8,0	77,9	28,3	70 100
9,0	75,7	28,0	55 700
10,0	73,4	27,7	45 300
11,0	71,2	27,3	37 300
12,0	68,9	26,9	31 200
13,0	66,6	26,5	26 200
14,0	64,2	25,9	22 100
15,0	61,8	25,4	18 700
16,0	59,3	24,8	15 900
17,0	56,7	24,1	13 300
18,0	54,0	23,3	11 000
19,0	51,3	22,5	8 800
19,2	50,7	22,3	8 400

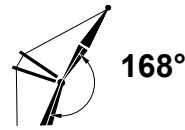
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ASME B30.5



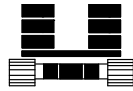
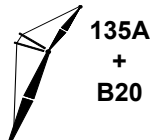
50 120 kg
+
15 880 kg



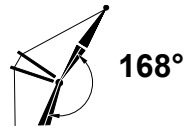
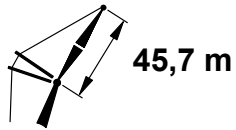
30,0 m			
m	o	m	kg
7,3	80,4	31,5	79 800
8,0	79,1	31,4	70 800
9,0	77,1	31,1	56 400
10,0	75,2	30,8	45 900
11,0	73,1	30,5	37 900
12,0	71,1	30,1	31 700
13,0	69,1	29,7	26 700
14,0	67,0	29,3	22 600
15,0	64,8	28,8	19 200
16,0	62,7	28,3	16 400
17,0	60,4	27,7	13 800
18,0	58,2	27,0	11 500
19,0	55,8	26,3	9 400
20,0	53,4	25,5	7 400
21,3	50,1	24,4	5 100

33,0 m			
m	o	m	kg
7,9	80,3	34,5	72 500
8,0	80,1	34,5	71 300
9,0	78,3	34,2	56 800
10,0	76,6	34,0	46 300
11,0	74,7	33,7	38 300
12,0	72,9	33,4	32 200
13,0	71,1	33,0	27 200
14,0	69,2	32,6	23 100
15,0	67,3	32,1	19 600
16,0	65,4	31,7	16 800
17,0	63,4	31,1	14 200
18,0	61,4	30,6	11 900
19,0	59,4	30,0	9 800
20,0	57,3	29,3	7 800
22,0	53,0	27,8	4 600
23,2	50,3	26,8	2 900

36,0 m			
m	o	m	kg
8,5	80,1	37,4	63 200
9,0	79,3	37,3	57 200
10,0	77,7	37,1	46 700
11,0	76,0	36,8	38 700
12,0	74,4	36,5	32 500
13,0	72,7	36,2	27 500
14,0	71,0	35,8	23 400
15,0	69,3	35,4	20 000
16,0	67,6	35,0	17 100
17,0	65,8	34,5	14 500
18,0	64,0	34,0	12 200
19,0	62,2	33,5	10 000
20,0	60,4	32,9	8 100
22,0	56,6	31,5	4 800
24,0	52,6	30,0	2 200
24,4	51,8	29,7	1 700



50 120 kg
+
15 880 kg



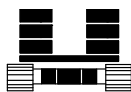
<p>39,0 m</p>			
m	o	m	kg
8,8	80,4	40,4	59 400
9,0	80,2	40,4	57 500
10,0	78,7	40,2	47 000
11,0	77,2	39,9	39 000
12,0	75,6	39,6	32 800
13,0	74,1	39,3	27 800
14,0	72,6	39,0	23 600
15,0	71,0	38,6	20 200
16,0	69,4	38,3	17 400
17,0	67,8	37,8	14 800
18,0	66,2	37,4	12 400
19,0	64,6	36,9	10 200
20,0	62,9	36,3	8 300
22,0	59,5	35,2	5 100
24,0	56,0	33,8	2 400
24,4	55,3	33,5	1 900

<p>42,0 m</p>			
m	o	m	kg
9,4	80,3	43,3	52 600
10,0	79,5	43,2	47 300
11,0	78,1	43,0	39 200
12,0	76,7	42,7	33 000
13,0	75,3	42,5	28 000
14,0	73,8	42,2	23 800
15,0	72,4	41,8	20 400
16,0	71,0	41,5	17 500
17,0	69,5	41,1	14 900
18,0	68,0	40,7	12 400
19,0	66,5	40,2	10 300
20,0	65,0	39,7	8 400
22,0	61,9	38,7	5 100
24,0	58,7	37,4	2 500
24,4	58,1	37,2	2 000

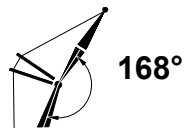
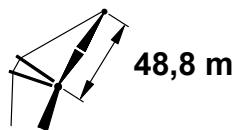
<p>45,0 m</p>			
m	o	m	kg
10,1	80,1	46,3	46 800
11,0	78,9	46,1	39 400
12,0	77,6	45,8	33 200
13,0	76,3	45,6	28 100
14,0	74,9	45,3	24 000
15,0	73,6	45,0	20 600
16,0	72,3	44,6	17 600
17,0	70,9	44,3	14 900
18,0	69,6	43,9	12 500
19,0	68,2	43,5	10 400
20,0	66,8	43,0	8 400
22,0	63,9	42,1	5 200
24,0	61,0	40,9	2 600
24,4	60,5	40,7	2 100

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50 120 kg
+
15 880 kg

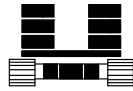
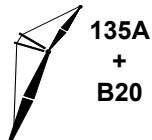


21,0 m			
m	°	m	kg
6,1	79,7	22,6	80 500
6,5	78,6	22,5	80 500
7,0	77,1	22,4	79 100
8,0	74,3	22,0	66 500
9,0	71,4	21,7	52 200
10,0	68,4	21,2	41 900
11,0	65,4	20,8	34 100
12,0	62,3	20,2	28 000
13,0	59,0	19,6	23 100
14,0	55,7	18,8	19 000
15,0	52,2	18,0	15 700
15,5	50,2	17,5	14 000

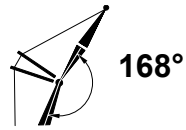
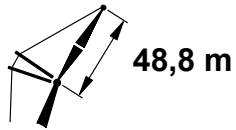
24,0 m			
m	°	m	kg
6,4	80,3	25,6	80 500
6,5	80,0	25,6	80 500
7,0	78,8	25,4	79 300
8,0	76,3	25,2	67 700
9,0	73,8	24,9	53 400
10,0	71,3	24,5	43 000
11,0	68,7	24,1	35 100
12,0	66,0	23,6	29 100
13,0	63,3	23,1	24 100
14,0	60,6	22,5	20 100
15,0	57,7	21,8	16 700
16,0	54,7	21,1	13 800
17,0	51,6	20,2	11 100
17,4	50,4	19,9	10 100

27,0 m			
m	°	m	kg
7,0	80,0	28,5	80 500
8,0	77,9	28,3	68 600
9,0	75,7	28,0	54 300
10,0	73,4	27,7	43 900
11,0	71,2	27,3	36 000
12,0	68,9	26,9	29 900
13,0	66,6	26,5	25 000
14,0	64,2	25,9	20 900
15,0	61,8	25,4	17 500
16,0	59,3	24,8	14 700
17,0	56,7	24,1	12 000
18,0	54,0	23,3	9 500
19,0	51,3	22,5	7 300
19,2	50,7	22,3	6 900

REFERENCED



50 120 kg
+
15 880 kg



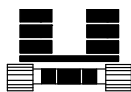
30,0 m			
m	°	m	kg
7,3	80,4	31,5	78 700
8,0	79,1	31,4	69 300
9,0	77,1	31,1	55 000
10,0	75,2	30,8	44 600
11,0	73,1	30,5	36 600
12,0	71,1	30,1	30 500
13,0	69,1	29,7	25 500
14,0	67,0	29,3	21 500
15,0	64,8	28,8	18 100
16,0	62,7	28,3	15 200
17,0	60,4	27,7	12 500
18,0	58,2	27,0	10 100
19,0	55,8	26,3	8 000
20,0	53,4	25,5	6 000
21,3	50,1	24,4	3 700

33,0 m			
m	°	m	kg
7,9	80,3	34,5	71 000
8,0	80,1	34,5	69 900
9,0	78,3	34,2	55 500
10,0	76,6	34,0	45 100
11,0	74,7	33,7	37 100
12,0	72,9	33,4	31 000
13,0	71,1	33,0	26 000
14,0	69,2	32,6	22 000
15,0	67,3	32,1	18 600
16,0	65,4	31,7	15 700
17,0	63,4	31,1	13 000
18,0	61,4	30,6	10 600
19,0	59,4	30,0	8 500
20,0	57,3	29,3	6 500
22,0	53,0	27,8	3 300
23,2	50,3	26,8	1 700

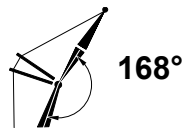
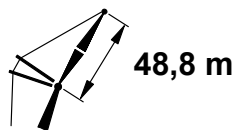
36,0 m			
m	°	m	kg
8,5	80,1	37,4	61 900
9,0	79,3	37,3	56 000
10,0	77,7	37,1	45 500
11,0	76,0	36,8	37 500
12,0	74,4	36,5	31 400
13,0	72,7	36,2	26 400
14,0	71,0	35,8	22 300
15,0	69,3	35,4	18 900
16,0	67,6	35,0	16 000
17,0	65,8	34,5	13 300
18,0	64,0	34,0	10 900
19,0	62,2	33,5	8 800
20,0	60,4	32,9	6 800
22,0	56,6	31,5	3 600
22,9	54,9	30,9	2 400

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ASME B30.5



50 120 kg
+
15 880 kg



39,0 m			
m	o	m	kg
8,8	80,4	40,4	58 200
9,0	80,2	40,4	56 200
10,0	78,7	40,2	45 800
11,0	77,2	39,9	37 900
12,0	75,6	39,6	31 700
13,0	74,1	39,3	26 700
14,0	72,6	39,0	22 600
15,0	71,0	38,6	19 200
16,0	69,4	38,3	16 300
17,0	67,8	37,8	13 500
18,0	66,2	37,4	11 100
19,0	64,6	36,9	9 000
20,0	62,9	36,3	7 100
22,0	59,5	35,2	3 900
22,9	58,0	34,6	2 600

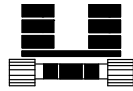
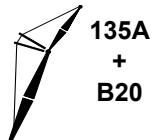
42,0 m			
m	o	m	kg
9,4	80,3	43,3	51 400
10,0	79,5	43,2	46 100
11,0	78,1	43,0	38 100
12,0	76,7	42,7	32 000
13,0	75,3	42,5	27 000
14,0	73,8	42,2	22 800
15,0	72,4	41,8	19 400
16,0	71,0	41,5	16 400
17,0	69,5	41,1	13 600
18,0	68,0	40,7	11 200
19,0	66,5	40,2	9 100
20,0	65,0	39,7	7 200
22,0	61,9	38,7	4 000
22,9	60,5	38,1	2 800

45,0 m			
m	o	m	kg
10,1	80,1	46,3	45 700
11,0	78,9	46,1	38 300
12,0	77,6	45,8	32 100
13,0	76,3	45,6	27 100
14,0	74,9	45,3	23 000
15,0	73,6	45,0	19 500
16,0	72,3	44,6	16 500
17,0	70,9	44,3	13 700
18,0	69,6	43,9	11 300
19,0	68,2	43,5	9 200
20,0	66,8	43,0	7 300
22,0	63,9	42,1	4 100
22,9	62,7	41,6	2 900

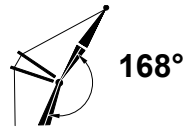
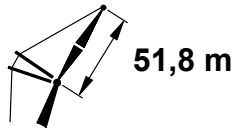
REFER TO SPECIFICATIONS

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ASME B30.5



50 120 kg
+
15 880 kg



<p>21,0 m</p>			
m	o	m	kg
6,1	79,7	22,6	80 500
6,5	78,6	22,5	80 500
7,0	77,1	22,4	78 600
8,0	74,3	22,0	64 800
9,0	71,4	21,7	50 700
10,0	68,4	21,2	40 500
11,0	65,4	20,8	32 700
12,0	62,3	20,2	26 700
13,0	59,0	19,6	21 800
14,0	55,7	18,8	17 800
15,0	52,2	18,0	14 400
15,5	50,2	17,5	12 600

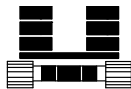
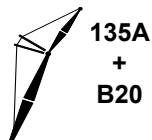
<p>24,0 m</p>			
m	o	m	kg
6,4	80,3	25,6	80 500
6,5	80,0	25,6	80 500
7,0	78,8	25,4	78 800
8,0	76,3	25,2	66 100
9,0	73,8	24,9	51 900
10,0	71,3	24,5	41 700
11,0	68,7	24,1	33 800
12,0	66,0	23,6	27 800
13,0	63,3	23,1	22 900
14,0	60,6	22,5	18 900
15,0	57,7	21,8	15 600
16,0	54,7	21,1	12 500
17,0	51,6	20,2	9 700
17,4	50,4	19,9	8 700

<p>27,0 m</p>			
m	o	m	kg
7,0	80,0	28,5	80 500
8,0	77,9	28,3	67 100
9,0	75,7	28,0	52 900
10,0	73,4	27,7	42 600
11,0	71,2	27,3	34 800
12,0	68,9	26,9	28 700
13,0	66,6	26,5	23 800
14,0	64,2	25,9	19 800
15,0	61,8	25,4	16 400
16,0	59,3	24,8	13 500
17,0	56,7	24,1	10 700
18,0	54,0	23,3	8 200
19,0	51,3	22,5	6 100
19,2	50,7	22,3	5 600

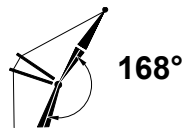
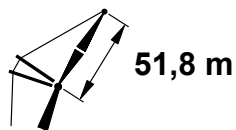
REFER TO

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ASME B30.5



50 120 kg
+
15 880 kg

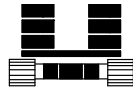
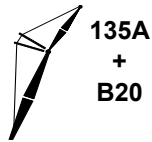


30,0 m			
m	°	m	kg
7,3	80,4	31,5	77 800
8,0	79,1	31,4	67 900
9,0	77,1	31,1	53 700
10,0	75,2	30,8	43 300
11,0	73,1	30,5	35 500
12,0	71,1	30,1	29 400
13,0	69,1	29,7	24 500
14,0	67,0	29,3	20 400
15,0	64,8	28,8	17 100
16,0	62,7	28,3	14 100
17,0	60,4	27,7	11 300
18,0	58,2	27,0	8 900
19,0	55,8	26,3	6 800
20,0	53,4	25,5	4 800
21,3	50,1	24,4	2 600

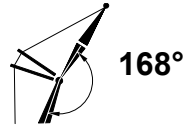
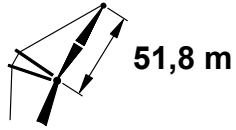
33,0 m			
m	°	m	kg
7,9	80,3	34,5	69 700
8,0	80,1	34,5	68 500
9,0	78,3	34,2	54 200
10,0	76,6	34,0	43 900
11,0	74,7	33,7	36 000
12,0	72,9	33,4	30 000
13,0	71,1	33,0	25 000
14,0	69,2	32,6	21 000
15,0	67,3	32,1	17 600
16,0	65,4	31,7	14 600
17,0	63,4	31,1	11 800
18,0	61,4	30,6	9 400
19,0	59,4	30,0	7 300
20,0	57,3	29,3	5 400
21,3	54,4	28,3	3 200

36,0 m			
m	°	m	kg
8,5	80,1	37,4	60 700
9,0	79,3	37,3	54 700
10,0	77,7	37,1	44 400
11,0	76,0	36,8	36 500
12,0	74,4	36,5	30 400
13,0	72,7	36,2	25 400
14,0	71,0	35,8	21 400
15,0	69,3	35,4	18 000
16,0	67,6	35,0	15 000
17,0	65,8	34,5	12 200
18,0	64,0	34,0	9 800
19,0	62,2	33,5	7 700
20,0	60,4	32,9	5 700
22,0	56,6	31,5	2 600
22,9	54,9	30,9	1 300

REFERENCE



50 120 kg
+
15 880 kg



<p>39,0 m</p>			
m	o	m	kg
8,8	80,4	40,4	57 000
9,0	80,2	40,4	55 000
10,0	78,7	40,2	44 800
11,0	77,2	39,9	36 800
12,0	75,6	39,6	30 700
13,0	74,1	39,3	25 800
14,0	72,6	39,0	21 700
15,0	71,0	38,6	18 300
16,0	69,4	38,3	15 200
17,0	67,8	37,8	12 400
18,0	66,2	37,4	10 000
19,0	64,6	36,9	8 000
20,0	62,9	36,3	6 000
22,0	59,5	35,2	2 900
22,9	58,0	34,6	1 600

<p>42,0 m</p>			
m	o	m	kg
9,4	80,3	43,3	50 300
10,0	79,5	43,2	45 100
11,0	78,1	43,0	37 100
12,0	76,7	42,7	31 000
13,0	75,3	42,5	26 100
14,0	73,8	42,2	22 000
15,0	72,4	41,8	18 400
16,0	71,0	41,5	15 400
17,0	69,5	41,1	12 600
18,0	68,0	40,7	10 200
19,0	66,5	40,2	8 100
20,0	65,0	39,7	6 200
22,0	61,9	38,7	3 000
22,9	60,5	38,1	1 800

<p>45,0 m</p>			
m	o	m	kg
10,1	80,1	46,3	44 700
11,0	78,9	46,1	37 300
12,0	77,6	45,8	31 200
13,0	76,3	45,6	26 300
14,0	74,9	45,3	22 100
15,0	73,6	45,0	18 500
16,0	72,3	44,6	15 500
17,0	70,9	44,3	12 700
18,0	69,6	43,9	10 300
19,0	68,2	43,5	8 200
20,0	66,8	43,0	6 300
22,0	63,9	42,1	3 200
22,9	62,7	41,6	2 000

REFER TO