

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 74A
Luffing Jib No. 135
46 000 kg Crane Counterweight
0 kg Carbody Counterweight
360 Degree Rating

MLC165-1 SERIES 1



LIFTING CAPACITIES: Lifting capacities for various boom lengths, boom-to-luffing jib angles, luffing jib lengths, and operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves is considered part of main boom load. Weight of luffing jib and 1 280 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 uniformly supporting surface and bearing turntable level within a tolerance of 13 mm in 3 m and properly supported. During operation, boom must be maintained at one of the selected angles shown in chart. Refer to Luffing Jib Assembly **No. 81042733**, Wire Rope Specification chart **No. 9412-A**, Luffing Jib Raising Procedure chart **No. 9418-A**, and Wind Conditions chart **No. 9419-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 Operator's Manual for operating guidelines.

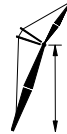
MACHINE TRAVEL: Machine to travel on a firm, level, and uniformly supporting surface. Boom and luffing jib must be within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 9417-A**.



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 ($^{\circ}$) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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

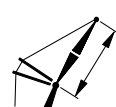
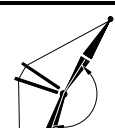
MACHINE EQUIPMENT: Machine equipped with 7 986 mm crawlers, 1 100 mm treads, 7 200 mm live mast, 18 part boom hoist reeving, boom support straps, 8 part luffing jib hoist reeving, two 38 mm luffing jib pendants and backstays, 46 000 kg crane counterweight, and 0 kg carbody counterweight.

Consult chart **No. 9416-AM** for main luffing jib capacities.

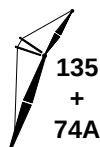


46 000 kg Crane Counterweight
6 Side Boxes

WARNING: Free fall operation is limited to 5 900 kg per part of line when lowering load with free fall clutch/brake pedal. Hydraulic power must be used for full line pull.

Luffing Jib Position During Operation	
	
Luffing Jib Length Meters	Boom-to-Luffing Jib Angle Degrees
21,3 - 24,4	150
27,4 - 30,5	160
33,5 - 51,8	168

Explanation of Symbols



Luffing Jib No. 135
+
Boom No. 74A



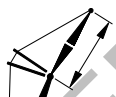
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



Luffing Jib Length

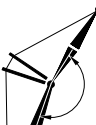


Boom Angle
(see page 1)

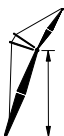
Explanation of Symbols (continued)



Operating Radius
(see page 1)



Boom-to-Luffing Jib Angle

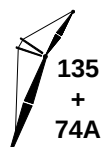


Luffing Jib Point Elevation
(see page 1)

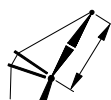


Lifting Capacities
(see page 1)

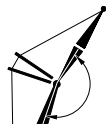
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45 100 kg
+
0 kg



21,3 m

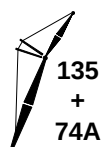


150°

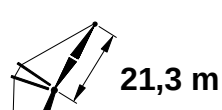
21,0 m			
m	o	m	kg
5,2	81,6	22,7	125 000
5,5	80,7	22,7	117 500
6,0	79,3	22,5	107 200
6,5	77,9	22,4	94 800
7,0	76,5	22,3	81 000
7,5	75,0	22,2	70 600
8,0	73,6	22,0	62 300
9,0	70,7	21,6	49 800
10,0	67,8	21,2	40 800

24,0 m			
m	o	m	kg
5,8	81,2	25,6	111 400
6,0	80,6	25,6	107 400
6,5	79,4	25,5	95 200
7,0	78,2	25,4	81 700
7,5	77,0	25,3	71 100
8,0	75,7	25,1	62 900
9,0	73,2	24,8	50 300
10,0	70,7	24,5	41 200
12,0	65,5	23,6	29 000

27,0 m			
m	o	m	kg
6,1	81,5	28,6	105 600
6,5	80,6	28,6	94 800
7,0	79,5	28,5	82 200
7,5	78,4	28,4	71 600
8,0	77,4	28,2	63 300
9,0	75,2	28,0	50 600
10,0	72,9	27,7	41 600
12,0	68,4	26,9	29 300



45 100 kg
+
0 kg



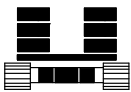
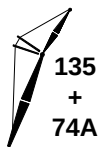
30,0 m			
m	°	m	kg
6,7	81,2	31,6	89 600
7,0	80,6	31,5	82 800
7,5	79,6	31,4	71 900
8,0	78,6	31,3	63 600
9,0	76,7	31,1	50 900
10,0	74,7	30,8	41 800
12,0	70,7	30,1	29 500

33,0 m			
m	°	m	kg
7,3	80,9	34,5	75 800
7,5	80,6	34,5	72 500
8,0	79,7	34,4	63 800
9,0	77,9	34,2	51 200
10,0	76,1	33,9	42 000
12,0	72,5	33,3	29 700
14,0	68,8	32,6	21 800

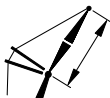
36,0 m			
m	°	m	kg
7,3	81,7	37,6	76 000
7,5	81,4	37,5	72 700
8,0	80,6	37,4	64 000
9,0	78,9	37,2	51 300
10,0	77,3	37,0	42 100
12,0	74,0	36,5	29 800
14,0	70,6	35,8	21 900
16,0	67,2	35,0	16 300

MLC165-1 S-1

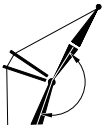
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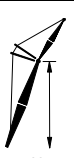
45 100 kg
+
0 kg



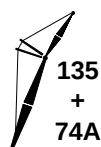
21,3 m



150°

 39,0 m			
 m	 °	 m	 kg
7,9	81,4	40,5	65 300
8,0	81,3	40,5	64 300
9,0	79,8	40,3	51 400
10,0	78,3	40,1	42 200
12,0	75,3	39,6	29 900
14,0	72,2	39,0	21 900
16,0	69,1	38,2	16 400
18,0	65,9	37,4	12 300

REFERENCE ONLY!



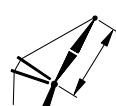
135
+
74A



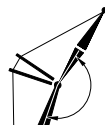
45 100 kg
+
0 kg



360°



24,4 m

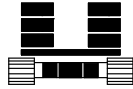
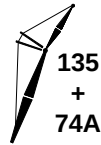


150°

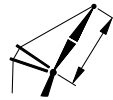
21,0 m			
m	o	m	kg
5,2	81,6	22,7	123 300
5,5	80,7	22,7	115 900
6,0	79,3	22,5	105 600
6,5	77,9	22,4	92 800
7,0	76,5	22,3	78 600
7,5	75,0	22,2	68 500
8,0	73,6	22,0	60 400
9,0	70,7	21,6	48 000
10,0	67,8	21,2	39 100

24,0 m			
m	o	m	kg
5,8	81,2	25,6	109 800
6,0	80,6	25,6	105 800
6,5	79,4	25,5	93 200
7,0	78,2	25,4	79 300
7,5	77,0	25,3	69 100
8,0	75,7	25,1	61 000
9,0	73,2	24,8	48 600
10,0	70,7	24,5	39 600
12,0	65,5	23,6	27 600

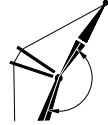
27,0 m			
m	o	m	kg
6,1	81,5	28,6	104 100
6,5	80,6	28,6	92 800
7,0	79,5	28,5	79 900
7,5	78,4	28,4	69 600
8,0	77,4	28,2	61 400
9,0	75,2	28,0	49 000
10,0	72,9	27,7	40 000
12,0	68,4	26,9	28 000



45 100 kg
+
0 kg



24,4 m



150°

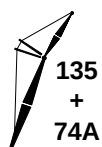
30,0 m			
m	o	m	kg
6,7	81,2	31,6	87 400
7,0	80,6	31,5	80 700
7,5	79,6	31,4	70 000
8,0	78,6	31,3	61 800
9,0	76,7	31,1	49 300
10,0	74,7	30,8	40 300
12,0	70,7	30,1	28 200

33,0 m			
m	o	m	kg
7,3	80,9	34,5	73 800
7,5	80,6	34,5	70 600
8,0	79,7	34,4	62 100
9,0	77,9	34,2	49 600
10,0	76,1	33,9	40 600
12,0	72,5	33,3	28 500
14,0	68,8	32,6	20 600

36,0 m			
m	o	m	kg
7,3	81,7	37,6	74 100
7,5	81,4	37,5	70 900
8,0	80,6	37,4	62 300
9,0	78,9	37,2	49 800
10,0	77,3	37,0	40 700
12,0	74,0	36,5	28 600
14,0	70,6	35,8	20 700
16,0	67,2	35,0	15 300

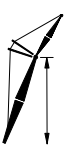
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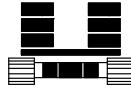
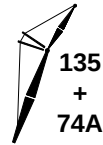


45 100 kg
+
0 kg

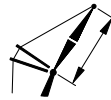


 39,0 m			
 m	 °	 m	 kg
7,9	81,4	40,5	63 600
8,0	81,3	40,5	62 600
9,0	79,8	40,3	49 900
10,0	78,3	40,1	40 900
12,0	75,3	39,6	28 700
14,0	72,2	39,0	20 800
16,0	69,1	38,2	15 400
18,0	65,9	37,4	11 300

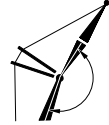
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45 100 kg
+
0 kg



27,4 m

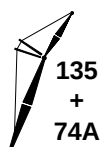


160°

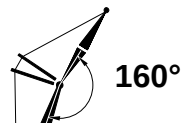
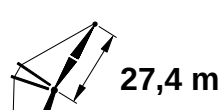
21,0 m			
m	o	m	kg
5,2	81,6	22,7	124 300
5,5	80,7	22,7	116 700
6,0	79,3	22,5	106 400
6,5	77,9	22,4	93 700
7,0	76,5	22,3	79 700
7,5	75,0	22,2	69 200
8,0	73,6	22,0	61 000
9,0	70,7	21,6	48 400
10,0	67,8	21,2	39 300
12,0	61,6	20,2	27 000

24,0 m			
m	o	m	kg
5,8	81,2	25,6	110 700
6,0	80,6	25,6	106 600
6,5	79,4	25,5	94 200
7,0	78,2	25,4	80 500
7,5	77,0	25,3	70 000
8,0	75,7	25,1	61 700
9,0	73,2	24,8	49 000
10,0	70,7	24,5	39 900
12,0	65,5	23,6	27 600

27,0 m			
m	o	m	kg
6,1	81,5	28,6	104 900
6,5	80,6	28,6	93 900
7,0	79,5	28,5	81 200
7,5	78,4	28,4	70 500
8,0	77,4	28,2	62 200
9,0	75,2	28,0	49 500
10,0	72,9	27,7	40 400
12,0	68,4	26,9	28 100
14,0	63,7	25,9	20 100



45 100 kg
+
0 kg



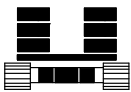
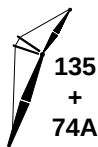
30,0 m			
m	o	m	kg
6,7	81,2	31,6	88 800
7,0	80,6	31,5	82 000
7,5	79,6	31,4	71 000
8,0	78,6	31,3	62 600
9,0	76,7	31,1	49 900
10,0	74,7	30,8	40 700
12,0	70,7	30,1	28 400
14,0	66,5	29,3	20 400
16,0	62,2	28,3	14 900
18,0	57,8	27,0	10 800

33,0 m			
m	o	m	kg
7,3	80,9	34,5	75 000
7,5	80,6	34,5	71 700
8,0	79,7	34,4	63 000
9,0	77,9	34,2	50 200
10,0	76,1	33,9	41 100
12,0	72,5	33,3	28 700
14,0	68,8	32,6	20 700
16,0	65,0	31,7	15 200
18,0	61,0	30,6	11 100

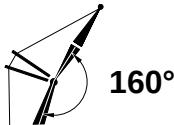
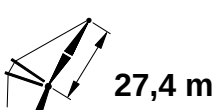
36,0 m			
m	o	m	kg
7,3	81,7	37,6	75 300
7,5	81,4	37,5	72 000
8,0	80,6	37,4	63 300
9,0	78,9	37,2	50 500
10,0	77,3	37,0	41 300
12,0	74,0	36,5	28 800
14,0	70,6	35,8	20 900
16,0	67,2	35,0	15 300
18,0	63,7	34,0	11 200
20,0	60,0	32,9	7 700

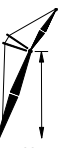
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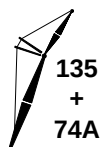


45 100 kg
+
0 kg

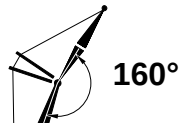


 39,0 m			
 m	 o	 m	 kg
7,9	81,4	40,5	64 600
8,0	81,3	40,5	63 600
9,0	79,8	40,3	50 700
10,0	78,3	40,1	41 400
12,0	75,3	39,6	29 000
14,0	72,2	39,0	21 000
16,0	69,1	38,2	15 400
18,0	65,9	37,4	11 200
20,0	62,6	36,4	7 700
22,0	59,2	35,2	4 900

REFERENCE ONLY!



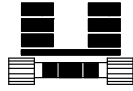
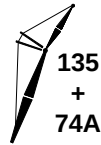
45 100 kg
+
0 kg



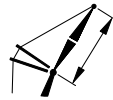
21,0 m			
m	o	m	kg
5,2	81,6	22,7	122 800
5,5	80,7	22,7	115 300
6,0	79,3	22,5	104 900
6,5	77,9	22,4	91 900
7,0	76,5	22,3	77 500
7,5	75,0	22,2	67 300
8,0	73,6	22,0	59 200
9,0	70,7	21,6	46 700
10,0	67,8	21,2	37 700
12,0	61,6	20,2	25 600

24,0 m			
m	o	m	kg
5,8	81,2	25,6	109 300
6,0	80,6	25,6	105 200
6,5	79,4	25,5	92 500
7,0	78,2	25,4	78 500
7,5	77,0	25,3	68 100
8,0	75,7	25,1	59 900
9,0	73,2	24,8	47 400
10,0	70,7	24,5	38 400
12,0	65,5	23,6	26 300

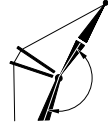
27,0 m			
m	o	m	kg
6,1	81,5	28,6	103 600
6,5	80,6	28,6	92 200
7,0	79,5	28,5	79 200
7,5	78,4	28,4	68 800
8,0	77,4	28,2	60 500
9,0	75,2	28,0	48 000
10,0	72,9	27,7	39 000
12,0	68,4	26,9	26 800
14,0	63,7	25,9	19 000



45 100 kg
+
0 kg



30,5 m



160°

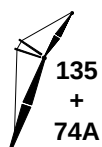
30,0 m			
m	o	m	kg
6,7	81,2	31,6	86 900
7,0	80,6	31,5	80 100
7,5	79,6	31,4	69 300
8,0	78,6	31,3	61 000
9,0	76,7	31,1	48 400
10,0	74,7	30,8	39 400
12,0	70,7	30,1	27 200
14,0	66,5	29,3	19 300
16,0	62,2	28,3	13 800
18,0	57,8	27,0	9 600

33,0 m			
m	o	m	kg
7,3	80,9	34,5	73 300
7,5	80,6	34,5	70 000
8,0	79,7	34,4	61 400
9,0	77,9	34,2	48 800
10,0	76,1	33,9	39 700
12,0	72,5	33,3	27 500
14,0	68,8	32,6	19 600
16,0	65,0	31,7	14 100
18,0	61,0	30,6	9 900

36,0 m			
m	o	m	kg
7,3	81,7	37,6	73 600
7,5	81,4	37,5	70 400
8,0	80,6	37,4	61 700
9,0	78,9	37,2	49 100
10,0	77,3	37,0	40 000
12,0	74,0	36,5	27 700
14,0	70,6	35,8	19 800
16,0	67,2	35,0	14 300
18,0	63,7	34,0	10 000
20,0	60,0	32,9	6 500

MLC165-1 S-1

ASME B30.5



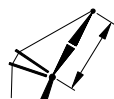
135
+
74A



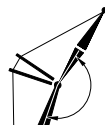
45 100 kg
+
0 kg



360°



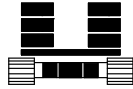
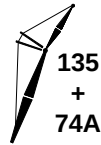
30,5 m



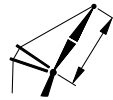
160°

m	°	m	kg
7,9	81,4	40,5	63 100
8,0	81,3	40,5	62 100
9,0	79,8	40,3	49 300
10,0	78,3	40,1	40 200
12,0	75,3	39,6	27 900
14,0	72,2	39,0	19 900
16,0	69,1	38,2	14 400
18,0	65,9	37,4	10 100
20,0	62,6	36,4	6 600
22,0	59,2	35,2	3 700

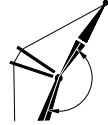
REFERENCE ONLY!



45 100 kg
+
0 kg



33,5 m

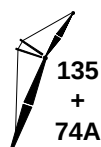


168°

21,0 m			
m	o	m	kg
5,2	81,6	22,7	124 500
5,5	80,7	22,7	116 800
6,0	79,3	22,5	106 300
6,5	77,9	22,4	93 600
7,0	76,5	22,3	79 500
7,5	75,0	22,2	68 900
8,0	73,6	22,0	60 500
9,0	70,7	21,6	47 700
10,0	67,8	21,2	38 500
12,0	61,6	20,2	26 000

24,0 m			
m	o	m	kg
5,8	81,2	25,6	110 800
6,0	80,6	25,6	106 600
6,5	79,4	25,5	94 300
7,0	78,2	25,4	80 600
7,5	77,0	25,3	69 800
8,0	75,7	25,1	61 400
9,0	73,2	24,8	48 500
10,0	70,7	24,5	39 300
12,0	65,5	23,6	26 800
14,0	60,0	22,5	18 700
16,0	54,2	21,1	13 100

27,0 m			
m	o	m	kg
6,1	81,5	28,6	105 000
6,5	80,6	28,6	94 100
7,0	79,5	28,5	81 400
7,5	78,4	28,4	70 500
8,0	77,4	28,2	62 100
9,0	75,2	28,0	49 200
10,0	72,9	27,7	39 900
12,0	68,4	26,9	27 400
14,0	63,7	25,9	19 300
16,0	58,8	24,8	13 700
18,0	53,6	23,4	9 400



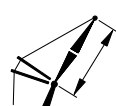
135
+
74A



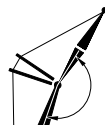
45 100 kg
+
0 kg



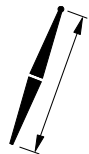
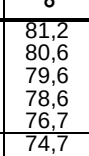
360°

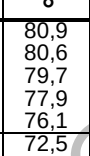


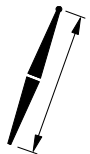
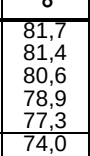
33,5 m



168°

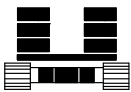
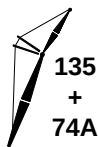
30,0 m			
			
m	o	m	kg
6,7	81,2	31,6	89 200
7,0	80,6	31,5	82 200
7,5	79,6	31,4	71 100
8,0	78,6	31,3	62 600
9,0	76,7	31,1	49 700
10,0	74,7	30,8	40 400
12,0	70,7	30,1	27 800
14,0	66,5	29,3	19 700
16,0	62,2	28,3	14 100
18,0	57,8	27,0	9 800

33,0 m			
			
m	o	m	kg
7,3	80,9	34,5	75 200
7,5	80,6	34,5	71 900
8,0	79,7	34,4	63 100
9,0	77,9	34,2	50 100
10,0	76,1	33,9	40 800
12,0	72,5	33,3	28 200
14,0	68,8	32,6	20 100
16,0	65,0	31,7	14 500
18,0	61,0	30,6	10 200
20,0	56,9	29,3	6 500

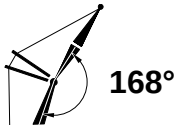
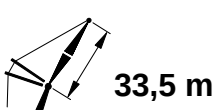
36,0 m			
			
m	o	m	kg
7,3	81,7	37,6	75 600
7,5	81,4	37,5	72 300
8,0	80,6	37,4	63 400
9,0	78,9	37,2	50 400
10,0	77,3	37,0	41 100
12,0	74,0	36,5	28 500
14,0	70,6	35,8	20 300
16,0	67,2	35,0	14 700
18,0	63,7	34,0	10 300
20,0	60,0	32,9	6 700
22,0	56,2	31,6	3 800

MLC165-1 S-1

ASME B30.5



45 100 kg
+
0 kg

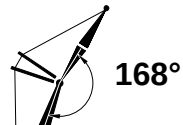
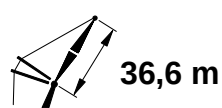
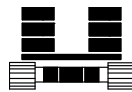
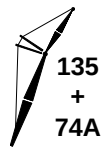


7,9	81,4	40,5	64 900
8,0	81,3	40,5	63 800
9,0	79,8	40,3	50 700
10,0	78,3	40,1	41 300
12,0	75,3	39,6	28 700
14,0	72,2	39,0	20 500
16,0	69,1	38,2	14 900
18,0	65,9	37,4	10 500
20,0	62,6	36,4	6 800
22,0	59,2	35,2	3 900

REFERENCE ONLY!

MLC165-1 S-1

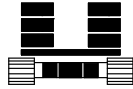
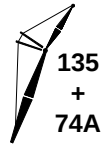
ASME B30.5



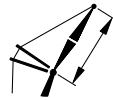
21,0 m			
m	o	m	kg
5,2	81,6	22,7	123 300
5,5	80,7	22,7	115 600
6,0	79,3	22,5	105 100
6,5	77,9	22,4	92 100
7,0	76,5	22,3	77 700
7,5	75,0	22,2	67 200
8,0	73,6	22,0	58 900
9,0	70,7	21,6	46 200
10,0	67,8	21,2	37 000
12,0	61,6	20,2	24 700

24,0 m			
m	o	m	kg
5,8	81,2	25,6	109 600
6,0	80,6	25,6	105 500
6,5	79,4	25,5	92 800
7,0	78,2	25,4	78 800
7,5	77,0	25,3	68 200
8,0	75,7	25,1	59 900
9,0	73,2	24,8	47 100
10,0	70,7	24,5	37 900
12,0	65,5	23,6	25 500
14,0	60,0	22,5	17 500
16,0	54,2	21,1	11 900

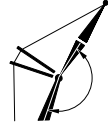
27,0 m			
m	o	m	kg
6,1	81,5	28,6	103 900
6,5	80,6	28,6	92 700
7,0	79,5	28,5	79 700
7,5	78,4	28,4	69 000
8,0	77,4	28,2	60 600
9,0	75,2	28,0	47 900
10,0	72,9	27,7	38 600
12,0	68,4	26,9	26 200
14,0	63,7	25,9	18 200
16,0	58,8	24,8	12 600
18,0	53,6	23,4	8 100



45 100 kg
+
0 kg



36,6 m



168°

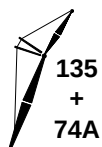
30,0 m			
m	°	m	kg
6,7	81,2	31,6	87 600
7,0	80,6	31,5	80 700
7,5	79,6	31,4	69 700
8,0	78,6	31,3	61 200
9,0	76,7	31,1	48 400
10,0	74,7	30,8	39 200
12,0	70,7	30,1	26 700
14,0	66,5	29,3	18 700
16,0	62,2	28,3	13 100
18,0	57,8	27,0	8 600

33,0 m			
m	°	m	kg
7,3	80,9	34,5	73 800
7,5	80,6	34,5	70 500
8,0	79,7	34,4	61 700
9,0	77,9	34,2	48 900
10,0	76,1	33,9	39 600
12,0	72,5	33,3	27 100
14,0	68,8	32,6	19 100
16,0	65,0	31,7	13 500
18,0	61,0	30,6	9 000
20,0	56,9	29,3	5 300

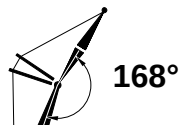
36,0 m			
m	°	m	kg
7,3	81,7	37,6	74 300
7,5	81,4	37,5	70 900
8,0	80,6	37,4	62 100
9,0	78,9	37,2	49 200
10,0	77,3	37,0	39 900
12,0	74,0	36,5	27 400
14,0	70,6	35,8	19 400
16,0	67,2	35,0	13 700
18,0	63,7	34,0	9 200
20,0	60,0	32,9	5 500

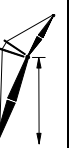
MLC165-1 S-1

ASME B30.5

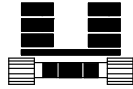
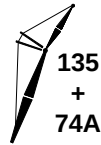


45 100 kg
+
0 kg

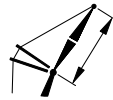


			
 m	 °	 m	 kg
7,9	81,4	40,5	63 600
8,0	81,3	40,5	62 600
9,0	79,8	40,3	49 500
10,0	78,3	40,1	40 200
12,0	75,3	39,6	27 700
14,0	72,2	39,0	19 600
16,0	69,1	38,2	13 900
18,0	65,9	37,4	9 300
20,0	62,6	36,4	5 700

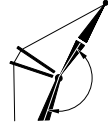
REFERENCE ONLY!



45 100 kg
+
0 kg



39,6 m

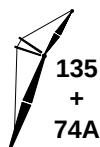


168°

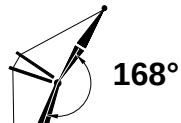
21,0 m			
m	o	m	kg
5,2	81,6	22,7	122 100
5,5	80,7	22,7	114 500
6,0	79,3	22,5	104 000
6,5	77,9	22,4	90 700
7,0	76,5	22,3	75 900
7,5	75,0	22,2	65 700
8,0	73,6	22,0	57 400
9,0	70,7	21,6	44 800
10,0	67,8	21,2	35 700
12,0	61,6	20,2	23 500

24,0 m			
m	o	m	kg
5,8	81,2	25,6	108 500
6,0	80,6	25,6	104 400
6,5	79,4	25,5	91 500
7,0	78,2	25,4	77 200
7,5	77,0	25,3	66 800
8,0	75,7	25,1	58 500
9,0	73,2	24,8	45 800
10,0	70,7	24,5	36 700
12,0	65,5	23,6	24 400
14,0	60,0	22,5	16 500
16,0	54,2	21,1	10 800

27,0 m			
m	o	m	kg
6,1	81,5	28,6	102 900
6,5	80,6	28,6	91 300
7,0	79,5	28,5	78 200
7,5	78,4	28,4	67 600
8,0	77,4	28,2	59 300
9,0	75,2	28,0	46 600
10,0	72,9	27,7	37 500
12,0	68,4	26,9	25 200
14,0	63,7	25,9	17 200
16,0	58,8	24,8	11 600
18,0	53,6	23,4	6 900



45 100 kg
+
0 kg



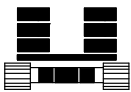
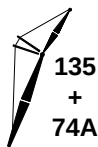
30,0 m			
m	°	m	kg
6,7	81,2	31,6	86 200
7,0	80,6	31,5	79 300
7,5	79,6	31,4	68 300
8,0	78,6	31,3	60 000
9,0	76,7	31,1	47 200
10,0	74,7	30,8	38 100
12,0	70,7	30,1	25 700
14,0	66,5	29,3	17 800
16,0	62,2	28,3	12 100
18,0	57,8	27,0	7 400

33,0 m			
m	°	m	kg
7,3	80,9	34,5	72 500
7,5	80,6	34,5	69 200
8,0	79,7	34,4	60 500
9,0	77,9	34,2	47 800
10,0	76,1	33,9	38 600
12,0	72,5	33,3	26 200
14,0	68,8	32,6	18 200
16,0	65,0	31,7	12 500
18,0	61,0	30,6	7 900
20,0	56,9	29,3	4 300

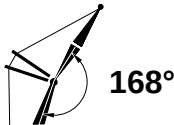
36,0 m			
m	°	m	kg
7,3	81,7	37,6	73 000
7,5	81,4	37,5	69 700
8,0	80,6	37,4	60 900
9,0	78,9	37,2	48 100
10,0	77,3	37,0	38 900
12,0	74,0	36,5	26 500
14,0	70,6	35,8	18 500
16,0	67,2	35,0	12 800
18,0	63,7	34,0	8 100
20,0	60,0	32,9	4 600

MLC165-1 S-1

ASME B30.5



45 100 kg
+
0 kg



m	o	m	kg
7,9	81,4	40,5	62 500
8,0	81,3	40,5	61 400
9,0	79,8	40,3	48 500
10,0	78,3	40,1	39 200
12,0	75,3	39,6	26 800
14,0	72,2	39,0	18 800
16,0	69,1	38,2	12 900
18,0	65,9	37,4	8 300
20,0	62,6	36,4	4 800

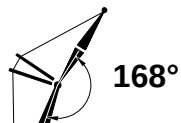
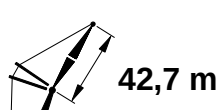
REFERENCE ONLY!

MLC165-1 S-1

ASME B30.5



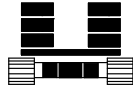
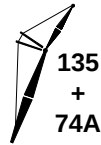
45 100 kg
+
0 kg



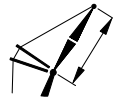
21,0 m			
m	o	m	kg
5,2	81,6	22,7	120 800
5,5	80,7	22,7	113 200
6,0	79,3	22,5	102 400
6,5	77,9	22,4	88 700
7,0	76,5	22,3	74 000
7,5	75,0	22,2	63 800
8,0	73,6	22,0	55 700
9,0	70,7	21,6	43 200
10,0	67,8	21,2	34 200
12,0	61,6	20,2	22 100

24,0 m			
m	o	m	kg
5,8	81,2	25,6	107 300
6,0	80,6	25,6	103 200
6,5	79,4	25,5	89 900
7,0	78,2	25,4	75 300
7,5	77,0	25,3	65 100
8,0	75,7	25,1	56 800
9,0	73,2	24,8	44 300
10,0	70,7	24,5	35 300
12,0	65,5	23,6	23 100
14,0	60,0	22,5	15 200
16,0	54,2	21,1	9 300

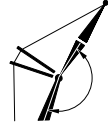
27,0 m			
m	o	m	kg
6,1	81,5	28,6	101 500
6,5	80,6	28,6	89 700
7,0	79,5	28,5	76 400
7,5	78,4	28,4	66 000
8,0	77,4	28,2	57 800
9,0	75,2	28,0	45 200
10,0	72,9	27,7	36 100
12,0	68,4	26,9	23 900
14,0	63,7	25,9	16 000
16,0	58,8	24,8	10 100
18,0	53,6	23,4	5 500



45 100 kg
+
0 kg



42,7 m

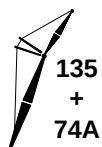


168°

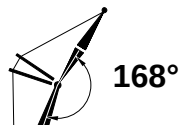
30,0 m			
m	°	m	kg
6,7	81,2	31,6	84 300
7,0	80,6	31,5	77 600
7,5	79,6	31,4	66 800
8,0	78,6	31,3	58 500
9,0	76,7	31,1	45 900
10,0	74,7	30,8	36 800
12,0	70,7	30,1	24 500
14,0	66,5	29,3	16 600
16,0	62,2	28,3	10 700
18,0	57,8	27,0	6 100

33,0 m			
m	°	m	kg
7,3	80,9	34,5	71 000
7,5	80,6	34,5	67 700
8,0	79,7	34,4	59 100
9,0	77,9	34,2	46 400
10,0	76,1	33,9	37 300
12,0	72,5	33,3	25 100
14,0	68,8	32,6	17 100
16,0	65,0	31,7	11 200
18,0	61,0	30,6	6 600

36,0 m			
m	°	m	kg
7,3	81,7	37,6	71 100
7,5	81,4	37,5	68 000
8,0	80,6	37,4	59 600
9,0	78,9	37,2	46 900
10,0	77,3	37,0	37 700
12,0	74,0	36,5	25 400
14,0	70,6	35,8	17 400
16,0	67,2	35,0	11 400
18,0	63,7	34,0	6 900

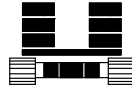
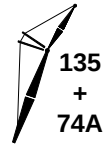


45 100 kg
+
0 kg

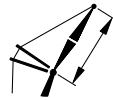


 39,0 m			
 m	 °	 m	 kg
7,9	81,4	40,5	61 000
8,0	81,3	40,5	60 000
9,0	79,8	40,3	47 200
10,0	78,3	40,1	38 100
12,0	75,3	39,6	25 700
14,0	72,2	39,0	17 700
16,0	69,1	38,2	11 600
18,0	65,9	37,4	7 100

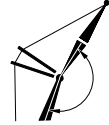
REFERENCE ONLY!



45 100 kg
+
0 kg



45,7 m



168°

21,0 m			
m	o	m	kg
5,2	81,6	22,7	119 800
5,5	80,7	22,7	112 200
6,0	79,3	22,5	101 000
6,5	77,9	22,4	86 800
7,0	76,5	22,3	72 500
7,5	75,0	22,2	62 400
8,0	73,6	22,0	54 300
9,0	70,7	21,6	42 000
10,0	67,8	21,2	33 100
12,0	61,6	20,2	21 000

24,0 m			
m	o	m	kg
5,8	81,2	25,6	106 400
6,0	80,6	25,6	101 800
6,5	79,4	25,5	88 200
7,0	78,2	25,4	73 900
7,5	77,0	25,3	63 700
8,0	75,7	25,1	55 600
9,0	73,2	24,8	43 200
10,0	70,7	24,5	34 200
12,0	65,5	23,6	22 200
14,0	60,0	22,5	14 300
16,0	54,2	21,1	8 200

27,0 m			
m	o	m	kg
6,1	81,5	28,6	99 700
6,5	80,6	28,6	88 100
7,0	79,5	28,5	75 100
7,5	78,4	28,4	64 800
8,0	77,4	28,2	56 600
9,0	75,2	28,0	44 100
10,0	72,9	27,7	35 100
12,0	68,4	26,9	23 000
14,0	63,7	25,9	15 200
16,0	58,8	24,8	9 100
18,0	53,6	23,4	4 500



135
+
74A



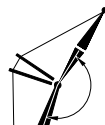
45 100 kg
+
0 kg



360°



45,7 m



168°

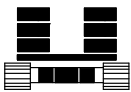
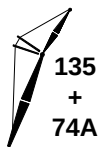
30,0 m			
m	o	m	kg
6,7	81,2	31,6	82 700
7,0	80,6	31,5	76 200
7,5	79,6	31,4	65 600
8,0	78,6	31,3	57 400
9,0	76,7	31,1	44 900
10,0	74,7	30,8	35 800
12,0	70,7	30,1	23 700
14,0	66,5	29,3	15 800
16,0	62,2	28,3	9 700
18,0	57,8	27,0	5 200

33,0 m			
m	o	m	kg
7,3	80,9	34,5	69 800
7,5	80,6	34,5	66 600
8,0	79,7	34,4	58 000
9,0	77,9	34,2	45 500
10,0	76,1	33,9	36 400
12,0	72,5	33,3	24 300
14,0	68,8	32,6	16 400
16,0	65,0	31,7	10 300
18,0	61,0	30,6	5 800

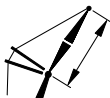
36,0 m			
m	o	m	kg
7,3	81,7	37,6	69 700
7,5	81,4	37,5	66 700
8,0	80,6	37,4	58 500
9,0	78,9	37,2	45 900
10,0	77,3	37,0	36 900
12,0	74,0	36,5	24 700
14,0	70,6	35,8	16 600
16,0	67,2	35,0	10 600
18,0	63,7	34,0	6 100

MLC165-1 S-1

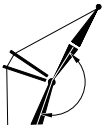
ASME B30.5



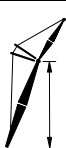
45 100 kg
+
0 kg



45,7 m



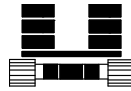
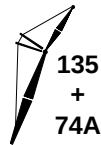
168°

 39,0 m			
			
m	o	m	kg
7,9	81,4	40,5	59 700
8,0	81,3	40,5	58 700
9,0	79,8	40,3	46 300
10,0	78,3	40,1	37 200
12,0	75,3	39,6	25 000
14,0	72,2	39,0	16 800
16,0	69,1	38,2	10 800
18,0	65,9	37,4	6 300

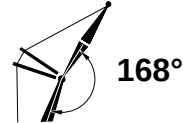
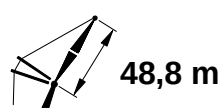
REFERENCE ONLY!

MLC165-1 S-1

ASME B30.5



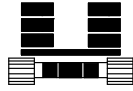
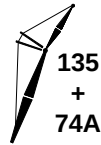
45 100 kg
+
0 kg



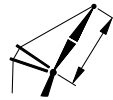
21,0 m			
m	o	m	kg
5,2	81,6	22,7	118 400
5,5	80,7	22,7	110 800
6,0	79,3	22,5	99 200
6,5	77,9	22,4	84 400
7,0	76,5	22,3	70 500
7,5	75,0	22,2	60 500
8,0	73,6	22,0	52 500
9,0	70,7	21,6	40 200
10,0	67,8	21,2	31 400
12,0	61,6	20,2	19 500

24,0 m			
m	o	m	kg
5,8	81,2	25,6	105 100
6,0	80,6	25,6	99 600
6,5	79,4	25,5	85 600
7,0	78,2	25,4	72 000
7,5	77,0	25,3	61 900
8,0	75,7	25,1	53 900
9,0	73,2	24,8	41 600
10,0	70,7	24,5	32 700
12,0	65,5	23,6	20 700
14,0	60,0	22,5	12 600
16,0	54,2	21,1	6 500

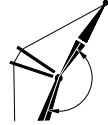
27,0 m			
m	o	m	kg
6,1	81,5	28,6	97 200
6,5	80,6	28,6	86 000
7,0	79,5	28,5	73 300
7,5	78,4	28,4	63 100
8,0	77,4	28,2	55 000
9,0	75,2	28,0	42 600
10,0	72,9	27,7	33 700
12,0	68,4	26,9	21 700
14,0	63,7	25,9	13 600
16,0	58,8	24,8	7 500
18,0	53,6	23,4	3 000



45 100 kg
+
0 kg



48,8 m



168°

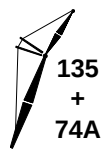
30,0 m			
m	°	m	kg
6,7	81,2	31,6	80 500
7,0	80,6	31,5	74 200
7,5	79,6	31,4	64 000
8,0	78,6	31,3	55 800
9,0	76,7	31,1	43 400
10,0	74,7	30,8	34 500
12,0	70,7	30,1	22 400
14,0	66,5	29,3	14 300
16,0	62,2	28,3	8 200
18,0	57,8	27,0	3 700

33,0 m			
m	°	m	kg
7,3	80,9	34,5	67 900
7,5	80,6	34,5	64 800
8,0	79,7	34,4	56 500
9,0	77,9	34,2	44 100
10,0	76,1	33,9	35 100
12,0	72,5	33,3	23 100
14,0	68,8	32,6	14 800
16,0	65,0	31,7	8 900
18,0	61,0	30,6	4 400

36,0 m			
m	°	m	kg
7,3	81,7	37,6	67 800
7,5	81,4	37,5	64 800
8,0	80,6	37,4	57 000
9,0	78,9	37,2	44 600
10,0	77,3	37,0	35 600
12,0	74,0	36,5	23 500
14,0	70,6	35,8	15 200
16,0	67,2	35,0	9 200
18,0	63,7	34,0	4 700

MLC165-1 S-1

ASME B30.5



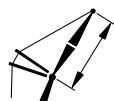
135
+
74A



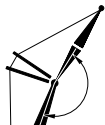
45 100 kg
+
0 kg



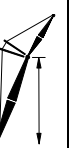
360°



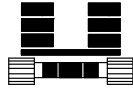
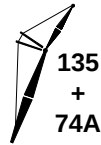
48,8 m



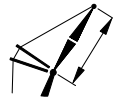
168°

 39,0 m			
 m	 °	 m	 kg
7,9	81,4	40,5	57 900
8,0	81,3	40,5	57 000
9,0	79,8	40,3	45 000
10,0	78,3	40,1	36 000
12,0	75,3	39,6	23 700
14,0	72,2	39,0	15 400
16,0	69,1	38,2	9 500
18,0	65,9	37,4	5 100

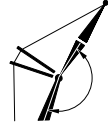
REFERENCE ONLY!



45 100 kg
+
0 kg



51,8 m

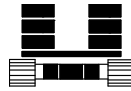
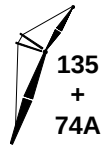


168°

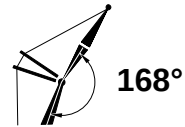
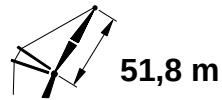
21,0 m			
m	o	m	kg
5,2	81,6	22,7	117 100
5,5	80,7	22,7	109 500
6,0	79,3	22,5	97 200
6,5	77,9	22,4	81 900
7,0	76,5	22,3	68 600
7,5	75,0	22,2	58 700
8,0	73,6	22,0	50 800
9,0	70,7	21,6	38 600
10,0	67,8	21,2	29 900
12,0	61,6	20,2	18 000

24,0 m			
m	o	m	kg
5,8	81,2	25,6	103 900
6,0	80,6	25,6	97 500
6,5	79,4	25,5	83 000
7,0	78,2	25,4	70 300
7,5	77,0	25,3	60 200
8,0	75,7	25,1	52 200
9,0	73,2	24,8	40 100
10,0	70,7	24,5	31 300
12,0	65,5	23,6	19 400
14,0	60,0	22,5	11 000
16,0	54,2	21,1	5 000

27,0 m			
m	o	m	kg
6,1	81,5	28,6	94 800
6,5	80,6	28,6	83 800
7,0	79,5	28,5	71 400
7,5	78,4	28,4	61 500
8,0	77,4	28,2	53 400
9,0	75,2	28,0	41 200
10,0	72,9	27,7	32 400
12,0	68,4	26,9	20 500
14,0	63,7	25,9	12 100
16,0	58,8	24,8	6 100



45 100 kg
+
0 kg



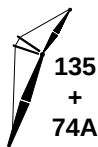
30,0 m			
m	o	m	kg
6,7	81,2	31,6	78 400
7,0	80,6	31,5	72 300
7,5	79,6	31,4	62 500
8,0	78,6	31,3	54 300
9,0	76,7	31,1	42 000
10,0	74,7	30,8	33 200
12,0	70,7	30,1	21 200
14,0	66,5	29,3	12 900
16,0	62,2	28,3	6 900
18,0	57,8	27,0	2 500

33,0 m			
m	o	m	kg
7,3	80,9	34,5	66 000
7,5	80,6	34,5	63 000
8,0	79,7	34,4	55 100
9,0	77,9	34,2	42 800
10,0	76,1	33,9	33 900
12,0	72,5	33,3	21 800
14,0	68,8	32,6	13 500
16,0	65,0	31,7	7 600
18,0	61,0	30,6	3 200

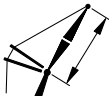
36,0 m			
m	o	m	kg
7,3	81,7	37,6	66 000
7,5	81,4	37,5	63 000
8,0	80,6	37,4	55 300
9,0	78,9	37,2	43 300
10,0	77,3	37,0	34 400
12,0	74,0	36,5	22 200
14,0	70,6	35,8	13 900
16,0	67,2	35,0	8 000
18,0	63,7	34,0	3 600

MLC165-1 S-1

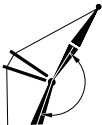
ASME B30.5



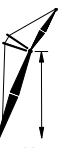
45 100 kg
+
0 kg



51,8 m



168°

 39,0 m			
 m	 °	 m	 kg
7,9	81,4	40,5	56 300
8,0	81,3	40,5	55 300
9,0	79,8	40,3	43 500
10,0	78,3	40,1	34 700
12,0	75,3	39,6	22 400
14,0	72,2	39,0	14 200
16,0	69,1	38,2	8 300
18,0	65,9	37,4	4 000

REFERENCE ONLY!