

Liftcrane Jib Capacities

**Jib No. 134 with 3 810 mm Strut on
Boom No. 74A
46 000 kg Crane Counterweight
0 kg Carbody Counterweight
360 Degree Rating**

MLC165-1 SERIES 1



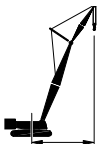
LIFTING CAPACITIES: Chart supplements Boom Capacity chart **No. 9428-AM**. Lifting capacities for various boom lengths, jib lengths, and jib operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components.

63,0 m boom length requires only the middle three sheaves in lower boom point. All other sheaves must be removed from lower boom point.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of jib load. Boom and jib are 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 in a level position on a firm uniformly supporting surface. Refer to Boom Rigging **No. 81023602**, Jib Assembly **No. 81042734**, Wire Rope Specification chart **No. 9408-A**, and Wind Conditions chart **No. 9446-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 must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 9404-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.



JIB POINT ELEVATION: Jib point elevation is vertical distance from ground level to centerline of jib 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, 46 000 kg crane counterweight, and 0 kg carbody counterweight.

Maximum capacity on 26 mm wire rope is 12 500 kg per line (9 070 kg per line when auxiliary drum is used).



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.

Auxiliary Drum Deduct

Deduct 500 kg from capacities when boom butt is equipped with auxiliary drum, and 6,0 m insert is equipped with wire rope guide sheaves.

Lower Boom Point Sheave Deduct

Deduct 300 kg from capacities for boom lengths 45,0 m thru 60,0 m when lower boom point is equipped with outer sheave clusters.

Refer to **Tables 1 and 2** for raising ability with the maximum weight of all load blocks, hooks, weight balls, slings, and hoist lines beneath lower and/or upper boom point and jib point sheaves. For block weights shown with #, a, or b, load blocks, hooks, weight balls, and slings must remain on ground until combined weights are within rated capacity of chart. For block weights shown with (a), auxiliary drum mounted in boom butt, wire rope guide sheaves in 6,0 m insert, and boom lights must be removed. For block weights shown with (b), upper boom point must be removed. Raising is not permitted in shaded areas of table.

Caution: Combined weight beneath lower and/or upper boom point and jib point sheaves must not exceed block weight shown. Total weight beneath jib point must not exceed 1 815 kg.

Table 1

Raising Ability Over End or Side of Crawlers						
Boom Length (m)	Fixed Jib No. 134					
	9,1 m	12,2 m	15,2 m	18,3 m	21,3 m	24,4 m
	Block Weight (kg)					
27,0 - 33,0	3 500	3 500	3 500	3 500	3 500	3 500
36,0	3 500	3 500	3 500	3 500	2 650	2 650
39,0	3 500	3 500	2 650	2 650	750	750
42,0	2 650	2 650	750	750	750	750
45,0	2 650	750	750	750	750	750
48,0	750	750	750	750	750	#
51,0	750	750	750	#	#	#
54,0	750	#	#	a	a	
57,0	#	a	a			
60,0 - 63,0	RAISING NOT PERMITTED					

Table 2

Raising Ability Over Front of Blocked Crawlers						
Boom Length (m)	Fixed Jib No. 134					
	9,1 m	12,2 m	15,2 m	18,3 m	21,3 m	24,4 m
	Block Weight (kg)					
27,0 - 33,0	3 500	3 500	3 500	3 500	3 500	3 500
36,0	3 500	3 500	3 500	3 500	2 650	2 650
39,0	3 500	3 500	2 650	2 650	750	750
42,0	2 650	2 650	750	750	750	750
45,0	2 650	750	750	750	750	750
48,0	750	750	750	750	750	#
51,0	750	750	750	#	#	#
54,0	750	#	#	#	#	#
57,0	#	#	#	#	#	#
60,0	#	#	#	a	a	
63,0	#	a	RAISING NOT PERMITTED			
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius and crane configuration is within 360 degree chart.						

Explanation of Symbols



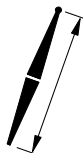
Jib No. 134
+
Boom No. 74A



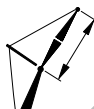
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



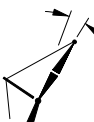
Jib Length



Boom Angle
(see page 1)



Operating Radius
(see page 1)



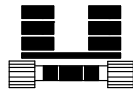
Jib Offset Angle



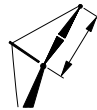
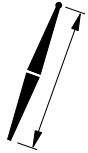
Jib Point Elevation
(see page 1)



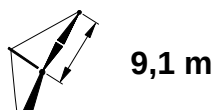
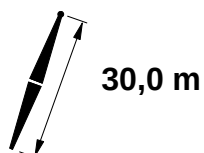
Lifting Capacities
(see page 1)

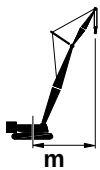
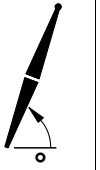
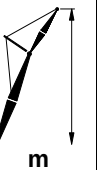
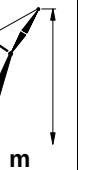
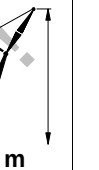


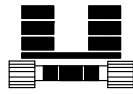
46 000 kg
+
0 kg



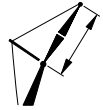
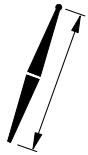
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m	o	m	kg	o	m	kg	o	m	kg	m
9,1	79,1	37,3	25 000							9,1
10,0	77,7	37,1	25 000							10,0
12,0	74,4	36,6	25 000	76,9	36,3	25 000				12,0
14,0	71,0	35,9	25 000	73,6	35,7	25 000				14,0
16,0	67,6	35,1	25 000	70,1	34,8	24 900	76,1	35,1	19 700	16,0
							72,6	34,3	18 400	
18,0	64,1	34,1	23 200	66,6	33,9	23 600	69,0	33,3	17 300	18,0
20,0	60,5	33,0	20 100	62,9	32,8	20 400	65,2	32,1	16 400	20,0
22,0	56,7	31,7	17 600	59,1	31,4	17 800	61,3	30,8	15 600	22,0
24,0	52,7	30,3	15 500	55,1	29,9	15 700	57,3	29,3	14 900	24,0
26,0	48,6	28,5	13 800	50,9	28,2	14 000	52,9	27,5	14 100	26,0
28,0	44,1	26,5	12 300	46,3	26,2	12 500	48,2	25,4	12 600	28,0
30,0	39,1	24,2	11 100	41,3	23,8	11 200				30,0
32,0	33,6	21,3	10 000	35,6	20,8	10 100				32,0
34,0	27,0	17,7	9 000							34,0



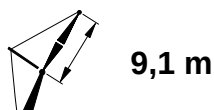
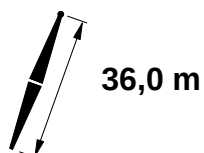
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
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12,0	75,6	39,7	25 000							12,0
14,0	72,5	39,1	25 000	74,9	38,8	25 000	77,2	38,3	20 100	14,0
16,0	69,4	38,3	25 000	71,7	38,1	25 000	74,0	37,5	18 900	16,0
18,0	66,2	37,5	23 100	68,5	37,2	23 400	70,8	36,6	17 800	18,0
20,0	63,0	36,5	19 900	65,2	36,2	20 300	67,4	35,6	16 900	20,0
22,0	59,6	35,3	17 400	61,8	35,0	17 700	63,9	34,4	16 100	22,0
24,0	56,1	34,0	15 300	58,3	33,7	15 500	60,3	33,0	15 400	24,0
26,0	52,4	32,5	13 600	54,5	32,2	13 800	56,5	31,5	14 000	26,0
28,0	48,5	30,7	12 100	50,6	30,4	12 300	52,5	29,7	12 500	28,0
30,0	44,4	28,8	10 900	46,4	28,4	11 000	48,2	27,6	11 200	30,0
32,0	39,9	26,4	9 800	41,9	26,0	9 900	43,5	25,2	10 000	32,0
34,0	34,9	23,7	8 900	36,8	23,2	9 000				34,0
36,0	29,2	20,3	8 000							36,0
38,0	22,1	15,9	7 300							38,0

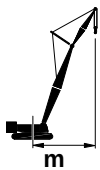
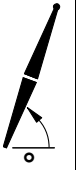
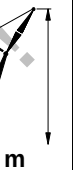


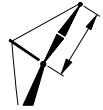
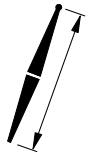
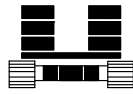
46 000 kg
+
0 kg

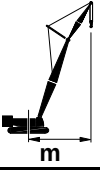
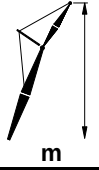
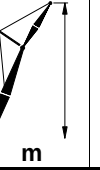


	5°			15°			25°			
m	o	m	kg	o	m	kg	o	m	kg	m
10,7	78,5	43,1	25 000							10,7
12,0	76,7	42,8	25 000							12,0
14,0	73,8	42,3	25 000	76,0	42,0	25 000	78,2	41,4	20 600	14,0
16,0	71,0	41,6	25 000	73,1	41,3	25 000	75,3	40,7	19 300	16,0
18,0	68,0	40,8	23 000	70,2	40,5	23 300	72,3	39,9	18 300	18,0
20,0	65,0	39,9	19 800	67,2	39,6	20 200	69,2	39,0	17 400	20,0
22,0	62,0	38,8	17 300	64,1	38,5	17 600	66,1	37,9	16 600	22,0
24,0	58,8	37,6	15 200	60,9	37,3	15 500	62,8	36,7	15 600	24,0
26,0	55,5	36,3	13 500	57,6	36,0	13 700	59,4	35,3	13 900	26,0
28,0	52,1	34,7	12 100	54,1	34,4	12 200	55,9	33,7	12 400	28,0
30,0	48,5	33,0	10 800	50,5	32,7	11 000	52,2	31,9	11 100	30,0
32,0	44,7	31,0	9 700	46,6	30,7	9 900	48,2	29,9	10 000	32,0
34,0	40,6	28,8	8 800	42,4	28,4	8 900				34,0
36,0	36,1	26,1	8 000	37,8	25,7	8 100				36,0
38,0	31,0	23,0	7 200	32,6	22,4	7 300				38,0



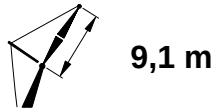
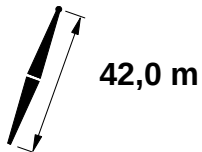
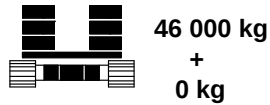
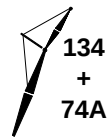
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
10,7	79,3	46,2	25 000							10,7
12,0	77,6	45,9	25 000							12,0
14,0	74,9	45,4	25 000	77,0	45,1	25 000	79,0	44,5	20 900	14,0
16,0	72,3	44,7	25 000	74,3	44,5	25 000	76,3	43,9	19 800	16,0
18,0	69,6	44,0	22 900	71,6	43,7	23 200	73,5	43,1	18 700	18,0
20,0	66,8	43,2	19 700	68,8	42,9	20 000	70,7	42,3	17 800	20,0
22,0	64,0	42,2	17 100	66,0	41,9	17 400	67,8	41,3	17 000	22,0
24,0	61,1	41,1	15 000	63,0	40,8	15 300	64,9	40,2	15 700	24,0
26,0	58,1	39,9	13 300	60,0	39,6	13 600	61,8	38,9	13 800	26,0
28,0	55,0	38,5	11 900	56,9	38,2	12 100	58,7	37,5	12 300	28,0
30,0	51,8	37,0	10 600	53,7	36,6	10 800	55,4	35,9	11 000	30,0
32,0	48,5	35,2	9 600	50,3	34,9	9 700	51,9	34,1	9 900	32,0
34,0	44,9	33,3	8 600	46,7	32,9	8 800	48,2	32,1	8 900	34,0
36,0	41,1	31,0	7 800	42,8	30,6	7 900	44,2	29,7	8 000	36,0
38,0	37,0	28,5	7 100	38,6	28,0	7 200				38,0
40,0	32,4	25,4	6 400							40,0
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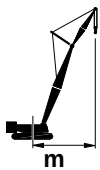
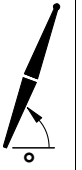
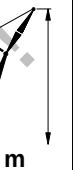


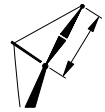
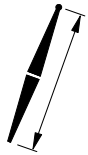
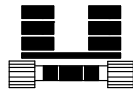
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
12,2	78,1	48,9	25 000							12,2
14,0	75,9	48,5	25 000	77,8	48,2	25 000				14,0
16,0	73,4	47,9	25 000	75,3	47,6	25 000	77,2	47,1	20 100	16,0
18,0	70,9	47,2	22 800	72,8	47,0	23 100	74,7	46,4	19 100	18,0
20,0	68,4	46,5	19 500	70,2	46,2	19 900	72,0	45,6	18 200	20,0
22,0	65,8	45,6	17 000	67,6	45,3	17 300	69,4	44,6	17 300	22,0
24,0	63,1	44,6	14 900	64,9	44,3	15 200	66,7	43,6	15 500	24,0
26,0	60,4	43,4	13 200	62,2	43,1	13 400	63,9	42,5	13 700	26,0
28,0	57,5	42,2	11 700	59,3	41,9	11 900	61,0	41,2	12 200	28,0
30,0	54,6	40,8	10 500	56,4	40,5	10 700	58,0	39,7	10 900	30,0
32,0	51,6	39,2	9 400	53,4	38,9	9 600	54,9	38,1	9 700	32,0
34,0	48,5	37,5	8 500	50,2	37,1	8 600	51,7	36,3	8 800	34,0
36,0	45,1	35,5	7 700	46,8	35,2	7 800	48,2	34,3	7 900	36,0
38,0	41,6	33,3	6 900	43,2	32,9	7 000	44,5	32,0	7 100	38,0
40,0	37,8	30,8	6 300	39,4	30,4	6 400				40,0
42,0	33,6	27,9	5 700	35,1	27,5	5 700				42,0
44,0	28,9	24,5	5 100							44,0

MLC165-1 S-1

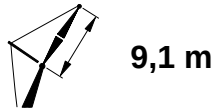
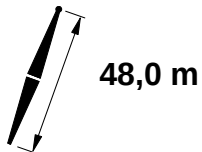
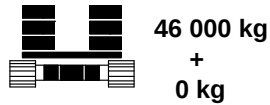
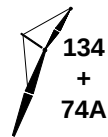
ASME B30.5

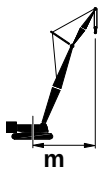
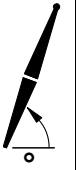
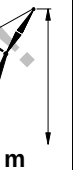


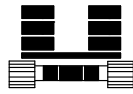
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
12,2	78,8	52,0	25 000							12,2
14,0	76,8	51,6	25 000	78,6	51,3	25 000				14,0
16,0	74,4	51,0	25 000	76,2	50,8	25 000	78,0	50,2	20 500	16,0
18,0	72,1	50,4	22 600	73,9	50,1	23 000	75,6	49,5	19 500	18,0
20,0	69,7	49,7	19 400	71,4	49,4	19 700	73,2	48,8	18 600	20,0
22,0	67,3	48,8	16 800	69,0	48,6	17 100	70,7	47,9	17 500	22,0
24,0	64,8	47,9	14 700	66,5	47,6	15 000	68,2	47,0	15 300	24,0
26,0	62,3	46,9	13 000	64,0	46,6	13 300	65,6	45,9	13 500	26,0
28,0	59,7	45,7	11 500	61,4	45,4	11 800	63,0	44,7	12 000	28,0
30,0	57,0	44,4	10 300	58,7	44,1	10 500	60,2	43,4	10 700	30,0
32,0	54,3	43,0	9 200	55,9	42,7	9 400	57,4	42,0	9 600	32,0
34,0	51,4	41,4	8 300	53,0	41,1	8 500	54,5	40,3	8 600	34,0
36,0	48,4	39,7	7 500	50,0	39,3	7 600	51,4	38,6	7 700	36,0
38,0	45,3	37,8	6 700	46,9	37,4	6 900	48,2	36,5	7 000	38,0
40,0	42,0	35,6	6 100	43,5	35,2	6 200				40,0
42,0	38,5	33,1	5 500	40,0	32,7	5 600				42,0
44,0	34,6	30,3	5 000	36,0	29,9	5 000				44,0
46,0	30,3	27,1	4 500							46,0
48,0	25,3	23,1	4 000							48,0



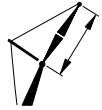
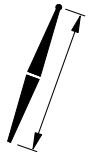
	5°			15°			25°			
m	°	m	kg	°	m	kg	°	m	kg	m
12,2	79,5	55,1	25 000							12,2
14,0	77,5	54,7	25 000	79,2	54,4	25 000				14,0
16,0	75,3	54,2	25 000	77,0	53,9	25 000	78,7	53,3	20 800	16,0
18,0	73,1	53,6	22 700	74,8	53,3	23 000	76,5	52,7	19 800	18,0
20,0	70,9	52,9	19 400	72,5	52,6	19 800	74,2	52,0	18 900	20,0
22,0	68,6	52,1	16 900	70,2	51,8	17 200	71,9	51,2	17 700	22,0
24,0	66,3	51,2	14 800	67,9	50,9	15 100	69,5	50,3	15 400	24,0
26,0	63,9	50,3	13 100	65,6	50,0	13 300	67,1	49,3	13 600	26,0
28,0	61,5	49,2	11 600	63,1	48,9	11 900	64,7	48,2	12 100	28,0
30,0	59,1	48,0	10 400	60,7	47,7	10 600	62,1	47,0	10 800	30,0
32,0	56,5	46,7	9 300	58,1	46,4	9 500	59,6	45,7	9 700	32,0
34,0	53,9	45,2	8 400	55,5	44,9	8 600	56,9	44,2	8 700	34,0
36,0	51,2	43,7	7 600	52,8	43,3	7 700	54,1	42,6	7 800	36,0
38,0	48,4	41,9	6 800	49,9	41,6	7 000	51,2	40,8	7 100	38,0
40,0	45,5	40,0	6 200	47,0	39,6	6 300	48,2	38,8	6 400	40,0
42,0	42,4	37,8	5 600	43,8	37,4	5 700	45,0	36,5	5 800	42,0
44,0	39,0	35,4	5 100	40,5	35,0	5 100				44,0
46,0	35,5	32,7	4 600	36,8	32,2	4 600				46,0
48,0	31,5	29,6	4 100							48,0
50,0	27,1	25,9	3 700							50,0

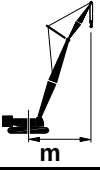
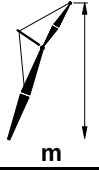
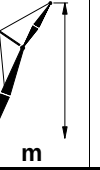


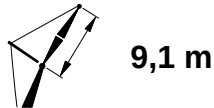
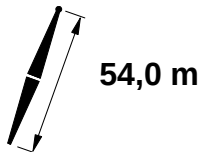
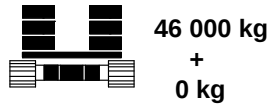
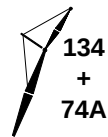
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	78,5	57,8	25 000							13,7
14,0	78,2	57,8	25 000							14,0
16,0	76,1	57,3	25 000	77,7	57,0	25 000				16,0
18,0	74,0	56,7	22 600	75,6	56,4	22 900	77,2	55,8	20 100	18,0
20,0	71,9	56,1	19 300	73,5	55,8	19 700	75,1	55,2	19 200	20,0
22,0	69,8	55,3	16 700	71,4	55,0	17 100	72,9	54,4	17 500	22,0
24,0	67,6	54,5	14 600	69,2	54,2	14 900	70,7	53,6	15 300	24,0
26,0	65,4	53,6	12 900	67,0	53,3	13 200	68,4	52,7	13 500	26,0
28,0	63,2	52,6	11 500	64,7	52,3	11 700	66,2	51,6	11 900	28,0
30,0	60,9	51,5	10 200	62,4	51,2	10 400	63,8	50,5	10 700	30,0
32,0	58,5	50,3	9 100	60,0	50,0	9 300	61,4	49,3	9 500	32,0
34,0	56,1	49,0	8 200	57,6	48,6	8 400	59,0	47,9	8 600	34,0
36,0	53,6	47,5	7 400	55,1	47,2	7 500	56,4	46,4	7 700	36,0
38,0	51,1	45,9	6 700	52,5	45,6	6 800	53,8	44,8	6 900	38,0
40,0	48,4	44,2	6 000	49,8	43,8	6 100	51,1	43,0	6 200	40,0
42,0	45,6	42,3	5 400	47,0	41,9	5 500	48,2	41,0	5 600	42,0
44,0	42,7	40,1	4 900	44,1	39,7	5 000	45,2	38,8	5 100	44,0
46,0	39,6	37,8	4 400	40,9	37,3	4 500				46,0
48,0	36,3	35,1	3 900	37,6	34,7	4 000				48,0
50,0	32,6	32,1	3 500	33,9	31,6	3 600				50,0
52,0	28,6	28,6	3 200							52,0
54,0	23,9	24,4	2 800							54,0

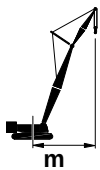
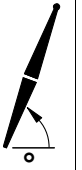


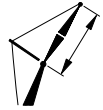
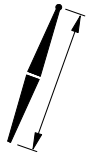
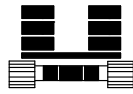
46 000 kg
+
0 kg

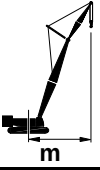
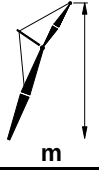
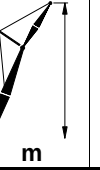


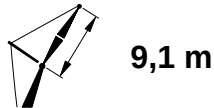
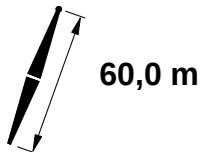
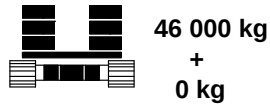
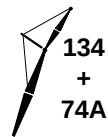
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	79,1	60,9	25 000							13,7
14,0	78,8	60,8	25 000							14,0
16,0	76,8	60,4	24 900	78,3	60,1	25 000				16,0
18,0	74,8	59,8	22 600	76,4	59,5	22 800	77,9	58,9	20 400	18,0
20,0	72,8	59,2	19 100	74,4	58,9	19 600	75,9	58,3	19 500	20,0
22,0	70,8	58,5	16 600	72,3	58,2	16 900	73,8	57,6	17 400	22,0
24,0	68,8	57,8	14 500	70,3	57,5	14 800	71,7	56,8	15 100	24,0
26,0	66,7	56,9	12 800	68,2	56,6	13 100	69,6	56,0	13 300	26,0
28,0	64,6	56,0	11 300	66,1	55,7	11 600	67,5	55,0	11 800	28,0
30,0	62,5	54,9	10 100	63,9	54,6	10 300	65,3	53,9	10 500	30,0
32,0	60,3	53,8	9 000	61,7	53,5	9 200	63,1	52,8	9 400	32,0
34,0	58,0	52,6	8 100	59,5	52,2	8 300	60,8	51,5	8 400	34,0
36,0	55,7	51,2	7 200	57,1	50,9	7 400	58,4	50,2	7 600	36,0
38,0	53,4	49,7	6 500	54,8	49,4	6 700	56,0	48,7	6 800	38,0
40,0	50,9	48,1	5 900	52,3	47,8	6 000	53,5	47,0	6 100	40,0
42,0	48,4	46,4	5 300	49,7	46,0	5 400	50,9	45,2	5 500	42,0
44,0	45,8	44,5	4 700	47,1	44,1	4 800	48,2	43,2	4 900	44,0
46,0	43,0	42,4	4 200	44,3	42,0	4 300	45,3	41,1	4 400	46,0
48,0	40,1	40,0	3 800	41,3	39,6	3 900				48,0
50,0	36,9	37,5	3 400	38,2	37,0	3 500				50,0
52,0	33,6	34,5	3 000	34,8	34,0	3 100				52,0
54,0	29,8	31,2	2 700							54,0
56,0	25,6	27,2	2 300							56,0

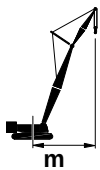
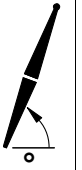


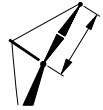
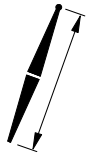
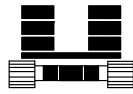
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	79,6	64,0	25 000							13,7
14,0	79,3	63,9	25 000							14,0
16,0	77,5	63,5	24 800	78,9	63,2	25 000				16,0
18,0	75,6	63,0	22 500	77,0	62,7	22 700	78,5	62,1	20 700	18,0
20,0	73,7	62,4	19 000	75,1	62,1	19 400	76,6	61,5	19 800	20,0
22,0	71,8	61,7	16 400	73,2	61,4	16 800	74,6	60,8	17 200	22,0
24,0	69,9	61,0	14 300	71,3	60,7	14 700	72,7	60,1	15 000	24,0
26,0	67,9	60,2	12 600	69,3	59,9	12 900	70,7	59,2	13 200	26,0
28,0	65,9	59,3	11 100	67,3	59,0	11 400	68,7	58,3	11 700	28,0
30,0	63,9	58,3	9 900	65,3	58,0	10 100	66,6	57,4	10 400	30,0
32,0	61,8	57,3	8 800	63,2	57,0	9 000	64,5	56,3	9 300	32,0
34,0	59,7	56,1	7 900	61,1	55,8	8 100	62,4	55,1	8 300	34,0
36,0	57,6	54,9	7 100	59,0	54,5	7 200	60,2	53,8	7 400	36,0
38,0	55,4	53,5	6 300	56,7	53,2	6 500	57,9	52,4	6 600	38,0
40,0	53,1	52,0	5 700	54,5	51,7	5 800	55,6	50,9	6 000	40,0
42,0	50,8	50,4	5 100	52,1	50,0	5 200	53,3	49,3	5 300	42,0
44,0	48,4	48,7	4 600	49,7	48,3	4 700	50,8	47,5	4 800	44,0
46,0	45,9	46,7	4 100	47,2	46,4	4 200	48,2	45,5	4 300	46,0
48,0	43,3	44,7	3 600	44,5	44,3	3 700	45,5	43,4	3 800	48,0
50,0	40,5	42,4	3 200	41,7	41,9	3 300				50,0
52,0	37,6	39,8	2 800	38,7	39,4	2 900				52,0
54,0	34,4	37,0	2 500	35,6	36,5	2 600				54,0
56,0	31,0	33,8	2 200	32,1	33,2	2 200				56,0

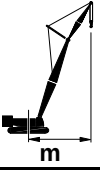
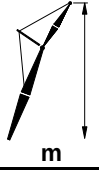
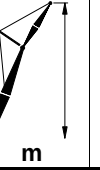


	5°			15°			25°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
15,2	78,7	66,7	25 000							15,2
16,0	78,0	66,5	24 800							16,0
18,0	76,3	66,1	22 300	77,6	65,8	22 600				18,0
20,0	74,5	65,5	18 800	75,8	65,2	19 300				20,0
22,0	72,6	64,9	16 300	74,0	64,6	16 700	77,2	64,6	19 900	22,0
24,0	70,8	64,2	14 200	72,2	63,9	14 500	73,5	63,3	14 900	24,0
26,0	68,9	63,4	12 500	70,3	63,1	12 800	71,6	62,5	13 100	26,0
28,0	67,1	62,6	11 000	68,4	62,3	11 300	69,7	61,6	11 600	28,0
30,0	65,2	61,7	9 800	66,5	61,4	10 000	67,8	60,7	10 300	30,0
32,0	63,2	60,7	8 700	64,5	60,4	8 900	65,8	59,7	9 200	32,0
34,0	61,3	59,6	7 800	62,6	59,3	8 000	63,8	58,6	8 200	34,0
36,0	59,2	58,4	6 900	60,5	58,1	7 100	61,7	57,4	7 300	36,0
38,0	57,2	57,1	6 200	58,5	56,8	6 400	59,6	56,1	6 500	38,0
40,0	55,1	55,7	5 500	56,4	55,4	5 700	57,5	54,7	5 900	40,0
42,0	52,9	54,2	5 000	54,2	53,9	5 100	55,3	53,1	5 200	42,0
44,0	50,7	52,6	4 400	51,9	52,3	4 600	53,0	51,5	4 700	44,0
46,0	48,4	50,9	3 900	49,6	50,5	4 100	50,6	49,7	4 200	46,0
48,0	46,0	49,0	3 500	47,2	48,6	3 600	48,2	47,7	3 700	48,0
50,0	43,5	46,9	3 100	44,7	46,5	3 200	45,6	45,6	3 300	50,0
52,0	40,9	44,6	2 700	42,0	44,2	2 800				52,0
54,0	38,1	42,1	2 400	39,2	41,7	2 400				54,0
56,0	35,1	39,4	2 000	36,2	38,9	2 100				56,0



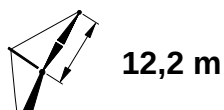
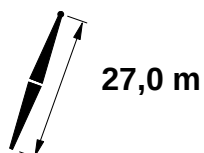
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
15,2	79,2	69,8	25 000							15,2
16,0	78,6	69,6	24 700							16,0
18,0	76,9	69,2	22 200	78,2	68,9	22 400				18,0
20,0	75,2	68,6	18 700	76,5	68,3	19 200				20,0
22,0	73,4	68,0	16 100	74,7	67,8	16 500	77,8	67,7	19 700	22,0
24,0	71,7	67,4	14 000	73,0	67,1	14 400	74,3	66,5	14 800	24,0
26,0	69,9	66,7	12 300	71,2	66,4	12 600	72,5	65,7	13 000	26,0
28,0	68,1	65,9	10 800	69,4	65,6	11 100	70,7	64,9	11 400	28,0
30,0	66,3	65,0	9 600	67,6	64,7	9 900	68,8	64,0	10 100	30,0
32,0	64,5	64,0	8 500	65,8	63,7	8 800	67,0	63,1	9 000	32,0
34,0	62,6	63,0	7 600	63,9	62,7	7 800	65,1	62,0	8 000	34,0
36,0	60,7	61,9	6 800	62,0	61,6	7 000	63,1	60,9	7 200	36,0
38,0	58,8	60,7	6 000	60,0	60,4	6 200	61,2	59,7	6 400	38,0
40,0	56,8	59,4	5 400	58,0	59,1	5 500	59,2	58,3	5 700	40,0
42,0	54,8	58,0	4 800	56,0	57,7	4 900	57,1	56,9	5 100	42,0
44,0	52,7	56,5	4 200	53,9	56,2	4 400	55,0	55,4	4 500	44,0
46,0	50,6	54,9	3 800	51,8	54,5	3 900	52,8	53,7	4 000	46,0
48,0	48,4	53,1	3 300	49,6	52,8	3 400	50,5	51,9	3 500	48,0
50,0	46,1	51,2	2 900	47,3	50,8	3 000	48,2	50,0	3 100	50,0
52,0	43,7	49,2	2 500	44,9	48,8	2 600	45,8	47,9	2 700	52,0
54,0	41,2	46,9	2 100	42,3	46,5	2 200				54,0

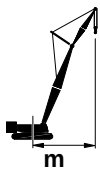
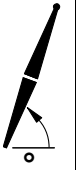
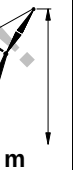


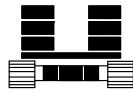
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
15,2	79,7	72,8	25 000							15,2
16,0	79,0	72,7	24 600							16,0
18,0	77,4	72,2	22 000							18,0
20,0	75,8	71,7	18 500	77,0	71,4	19 000	78,3	70,8	19 600	20,0
22,0	74,1	71,2	16 000	75,4	70,9	16 400	76,6	70,2	16 800	22,0
24,0	72,5	70,5	13 900	73,7	70,2	14 300	75,0	69,6	14 700	24,0
26,0	70,8	69,8	12 100	72,0	69,6	12 500	73,2	68,9	12 800	26,0
28,0	69,1	69,1	10 700	70,3	68,8	11 000	71,5	68,1	11 300	28,0
30,0	67,4	68,3	9 400	68,6	68,0	9 700	69,8	67,3	10 000	30,0
32,0	65,6	67,4	8 400	66,8	67,1	8 600	68,0	66,4	8 900	32,0
34,0	63,9	66,4	7 400	65,1	66,1	7 700	66,2	65,4	7 900	34,0
36,0	62,1	65,3	6 600	63,3	65,0	6 800	64,4	64,3	7 000	36,0
38,0	60,2	64,2	5 900	61,4	63,9	6 100	62,5	63,2	6 300	38,0
40,0	58,4	63,0	5 200	59,6	62,6	5 400	60,6	61,9	5 600	40,0
42,0	56,5	61,7	4 600	57,6	61,3	4 800	58,7	60,6	4 900	42,0
44,0	54,5	60,3	4 100	55,7	59,9	4 200	56,7	59,2	4 400	44,0
46,0	52,5	58,7	3 600	53,7	58,4	3 800	54,7	57,6	3 900	46,0
48,0	50,5	57,1	3 200	51,6	56,7	3 300	52,6	55,9	3 400	48,0
50,0	48,4	55,4	2 700	49,5	55,0	2 900	50,4	54,1	3 000	50,0
52,0	46,2	53,5	2 300	47,3	53,1	2 400	48,2	52,2	2 500	52,0
54,0				45,0	51,0	2 000	45,9	50,1	2 100	54,0

MLC165-1 S-1

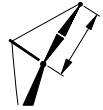
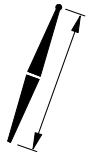
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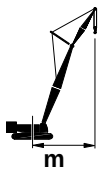
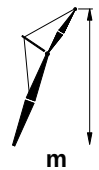
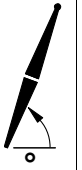
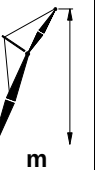


	5°			15°			25°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
10,7	78,4	40,1	23 900							10,7
12,0	76,4	39,7	23 300							12,0
14,0	73,3	39,1	22 500	76,4	38,8	21 100				14,0
16,0	70,2	38,4	21 800	73,3	38,0	20 600				16,0
18,0	67,0	37,5	21 200	70,1	37,2	20 200	76,4	37,3	15 600	18,0
							73,1	36,4	14 700	
20,0	63,8	36,5	20 500	66,7	36,1	19 700	69,7	35,4	13 900	20,0
22,0	60,4	35,4	17 800	63,3	35,0	18 100	66,2	34,2	13 200	22,0
24,0	56,9	34,0	15 700	59,8	33,6	16 000	62,6	32,8	12 500	24,0
26,0	53,2	32,5	14 000	56,1	32,1	14 300	58,8	31,2	12 000	26,0
28,0	49,3	30,8	12 600	52,1	30,4	12 800	54,7	29,4	11 500	28,0
30,0	45,2	28,8	11 300	47,9	28,3	11 500	50,4	27,3	11 100	30,0
32,0	40,7	26,5	10 200	43,4	26,0	10 400	45,6	24,9	10 500	32,0
34,0	35,8	23,8	9 300	38,3	23,2	9 400				34,0
36,0	30,1	20,4	8 400							36,0
38,0	23,0	16,0	7 700							38,0



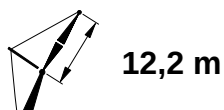
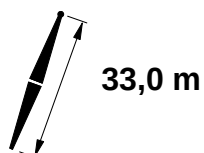
46 000 kg
+
0 kg

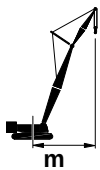
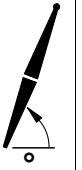
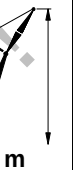


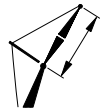
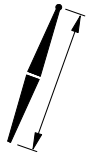
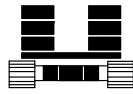
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
10,7	79,3	43,2	24 000							10,7
12,0	77,4	42,8	23 500							12,0
14,0	74,6	42,3	22 700	77,4	41,9	21 300				14,0
16,0	71,7	41,6	22 100	74,5	41,2	20 800				16,0
18,0	68,8	40,8	21 500	71,6	40,4	20 400	77,4	40,5	16 000	18,0
							74,4	39,7	15 000	
20,0	65,8	39,9	20 300	68,6	39,5	19 900	71,3	38,7	14 200	20,0
22,0	62,7	38,8	17 600	65,5	38,4	18 100	68,2	37,6	13 500	22,0
24,0	59,5	37,6	15 600	62,3	37,2	15 900	64,9	36,4	12 900	24,0
26,0	56,3	36,3	13 800	58,9	35,9	14 100	61,5	35,0	12 400	26,0
28,0	52,8	34,7	12 400	55,5	34,3	12 600	57,9	33,4	11 900	28,0
30,0	49,2	33,0	11 100	51,8	32,6	11 300	54,2	31,6	11 400	30,0
32,0	45,4	31,0	10 100	47,9	30,6	10 200	50,2	29,5	10 400	32,0
34,0	41,3	28,8	9 100	43,8	28,2	9 300				34,0
36,0	36,8	26,1	8 300	39,1	25,5	8 400				36,0
38,0	31,7	23,0	7 500	33,9	22,3	7 600				38,0

MLC165-1 S-1

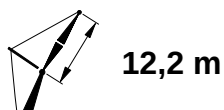
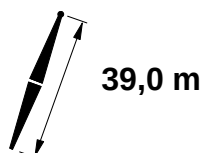
ASME B30.5

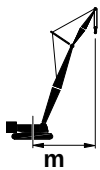
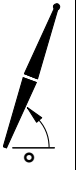


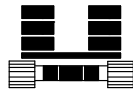
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
12,2	78,0	45,9	23 500							12,2
14,0	75,6	45,4	22 900	78,3	45,1	21 300				14,0
16,0	73,0	44,8	22 200	75,6	44,4	20 900	78,3	43,7	16 300	16,0
18,0	70,3	44,0	21 600	72,9	43,7	20 500	75,6	42,9	15 400	18,0
20,0	67,5	43,2	20 200	70,1	42,8	20 100	72,7	42,0	14 600	20,0
22,0	64,7	42,2	17 500	67,3	41,9	18 000	69,8	41,0	13 900	22,0
24,0	61,8	41,1	15 500	64,4	40,8	15 800	66,9	39,9	13 300	24,0
26,0	58,8	39,9	13 700	61,4	39,5	14 000	63,8	38,7	12 700	26,0
28,0	55,7	38,5	12 300	58,2	38,1	12 500	60,6	37,2	12 200	28,0
30,0	52,5	37,0	11 000	55,0	36,6	11 200	57,3	35,6	11 500	30,0
32,0	49,2	35,3	10 000	51,6	34,8	10 100	53,8	33,8	10 300	32,0
34,0	45,6	33,3	9 000	48,0	32,8	9 200	50,0	31,8	9 300	34,0
36,0	41,8	31,1	8 200	44,1	30,6	8 300	46,0	29,4	8 400	36,0
38,0	37,7	28,5	7 400	39,9	27,9	7 600				38,0
40,0	33,1	25,5	6 800							40,0
42,0	27,8	21,9	6 200							42,0



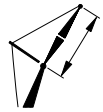
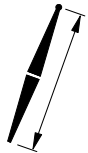
	5°			15°			25°			
m	o	m	kg	o	m	kg	o	m	kg	m
12,2	78,8	49,0	23 500							12,2
14,0	76,5	48,5	22 900	79,1	48,2	21 400				14,0
16,0	74,1	47,9	22 300	76,6	47,6	21 000				16,0
18,0	71,5	47,2	21 800	74,0	46,9	20 600	76,5	46,1	15 700	18,0
20,0	69,0	46,5	20 000	71,5	46,1	20 200	73,9	45,3	14 900	20,0
22,0	66,4	45,6	17 400	68,8	45,2	17 800	71,2	44,4	14 200	22,0
24,0	63,7	44,6	15 300	66,1	44,2	15 600	68,5	43,3	13 600	24,0
26,0	61,0	43,4	13 500	63,4	43,0	13 900	65,7	42,2	13 100	26,0
28,0	58,2	42,2	12 100	60,5	41,8	12 400	62,8	40,9	12 500	28,0
30,0	55,3	40,8	10 800	57,6	40,4	11 100	59,8	39,4	11 300	30,0
32,0	52,3	39,2	9 800	54,5	38,8	10 000	56,6	37,8	10 200	32,0
34,0	49,1	37,5	8 800	51,4	37,0	9 000	53,4	36,0	9 200	34,0
36,0	45,8	35,5	8 000	48,0	35,0	8 200	49,9	34,0	8 300	36,0
38,0	42,2	33,3	7 300	44,4	32,8	7 400	46,2	31,7	7 500	38,0
40,0	38,4	30,8	6 600	40,5	30,3	6 700				40,0
42,0	34,2	27,9	6 000	36,2	27,3	6 100				42,0
44,0	29,5	24,5	5 400							44,0

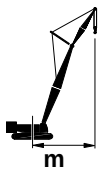
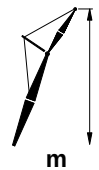
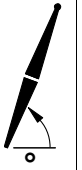
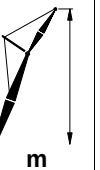


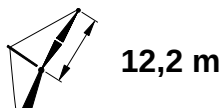
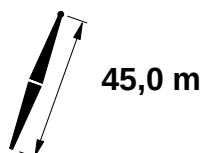
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
12,2	79,4	52,0	23 500							12,2
14,0	77,4	51,6	23 000							14,0
16,0	75,0	51,1	22 400	77,4	50,7	21 000				16,0
18,0	72,7	50,4	21 900	75,0	50,1	20 700				18,0
20,0	70,3	49,7	19 800	72,6	49,3	20 300	77,4	49,3	15 900	20,0
							75,0	48,5	15 200	
22,0	67,9	48,9	17 200	70,2	48,5	17 600	72,5	47,7	14 500	22,0
24,0	65,4	47,9	15 100	67,7	47,6	15 500	69,9	46,7	13 900	24,0
26,0	62,9	46,9	13 400	65,1	46,5	13 700	67,3	45,7	13 400	26,0
28,0	60,3	45,8	11 900	62,5	45,3	12 200	64,7	44,5	12 600	28,0
30,0	57,6	44,5	10 700	59,8	44,0	11 000	61,9	43,1	11 200	30,0
32,0	54,9	43,1	9 600	57,1	42,6	9 800	59,1	41,7	10 100	32,0
34,0	52,0	41,5	8 700	54,2	41,0	8 900	56,1	40,1	9 100	34,0
36,0	49,1	39,7	7 800	51,2	39,3	8 000	53,0	38,2	8 200	36,0
38,0	45,9	37,8	7 100	48,0	37,3	7 300	49,8	36,2	7 400	38,0
40,0	42,6	35,6	6 500	44,7	35,1	6 600	46,3	33,9	6 700	40,0
42,0	39,1	33,2	5 900	41,1	32,6	6 000				42,0
44,0	35,3	30,4	5 300	37,1	29,8	5 400				44,0
46,0	31,0	27,1	4 800							46,0
48,0	26,0	23,2	4 400							48,0

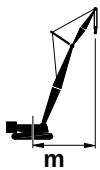
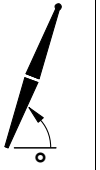
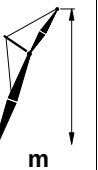
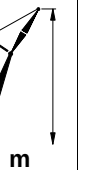
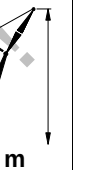


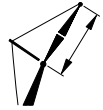
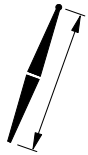
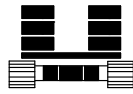
46 000 kg
+
0 kg

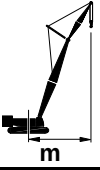
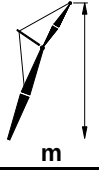
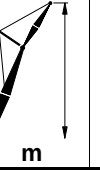


	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	78,4	54,8	23 100							13,7
14,0	78,1	54,7	23 000							14,0
16,0	75,9	54,2	22 400	78,1	53,8	21 000				16,0
18,0	73,7	53,6	22 000	75,9	53,2	20 700	78,1	52,4	16 200	18,0
20,0	71,4	52,9	19 600	73,6	52,5	20 300	75,8	51,7	15 400	20,0
22,0	69,2	52,1	17 000	71,3	51,7	17 500	73,5	50,9	14 800	22,0
24,0	66,9	51,3	14 900	69,0	50,9	15 300	71,2	50,0	14 200	24,0
26,0	64,5	50,3	13 200	66,6	49,9	13 600	68,7	49,0	13 600	26,0
28,0	62,1	49,2	11 800	64,2	48,8	12 100	66,3	47,9	12 400	28,0
30,0	59,6	48,0	10 500	61,7	47,6	10 800	63,7	46,7	11 100	30,0
32,0	57,1	46,7	9 400	59,2	46,3	9 700	61,1	45,4	9 900	32,0
34,0	54,5	45,3	8 500	56,6	44,8	8 700	58,5	43,9	8 900	34,0
36,0	51,8	43,7	7 700	53,8	43,2	7 900	55,7	42,2	8 000	36,0
38,0	49,0	42,0	6 900	51,0	41,5	7 100	52,7	40,4	7 300	38,0
40,0	46,1	40,0	6 300	48,0	39,5	6 400	49,7	38,4	6 600	40,0
42,0	43,0	37,9	5 700	44,9	37,3	5 800	46,4	36,2	5 900	42,0
44,0	39,7	35,5	5 100	41,5	34,9	5 300				44,0
46,0	36,1	32,8	4 600	37,9	32,1	4 700				46,0
48,0	32,2	29,6	4 200							48,0
50,0	27,7	26,0	3 800							50,0



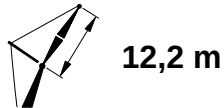
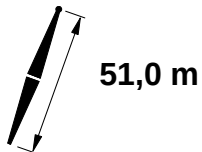
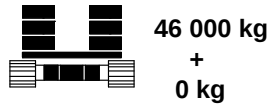
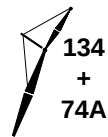
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	79,0	57,8	23 000							13,7
14,0	78,7	57,8	22 900							14,0
16,0	76,6	57,3	22 400	78,8	56,9	21 000				16,0
18,0	74,6	56,7	22 000	76,7	56,3	20 700				18,0
20,0	72,4	56,1	19 700	74,5	55,7	20 300	76,6	54,9	15 700	20,0
22,0	70,3	55,3	17 100	72,4	54,9	17 500	74,5	54,1	15 000	22,0
24,0	68,1	54,5	15 000	70,2	54,1	15 400	72,2	53,3	14 500	24,0
26,0	65,9	53,6	13 300	68,0	53,2	13 600	70,0	52,4	13 900	26,0
28,0	63,7	52,6	11 800	65,7	52,2	12 100	67,7	51,3	12 500	28,0
30,0	61,4	51,5	10 600	63,4	51,1	10 900	65,3	50,2	11 100	30,0
32,0	59,1	50,3	9 500	61,0	49,9	9 800	62,9	49,0	10 000	32,0
34,0	56,7	49,0	8 600	58,6	48,5	8 800	60,4	47,6	9 000	34,0
36,0	54,2	47,5	7 700	56,1	47,1	7 900	57,9	46,1	8 100	36,0
38,0	51,6	45,9	7 000	53,5	45,5	7 200	55,2	44,4	7 300	38,0
40,0	48,9	44,2	6 300	50,8	43,7	6 500	52,5	42,6	6 600	40,0
42,0	46,2	42,3	5 700	48,0	41,7	5 900	49,6	40,6	6 000	42,0
44,0	43,2	40,1	5 200	45,0	39,6	5 300	46,5	38,4	5 400	44,0
46,0	40,1	37,8	4 700	41,9	37,2	4 800				46,0
48,0	36,8	35,1	4 300	38,5	34,5	4 400				48,0
50,0	33,2	32,1	3 900	34,8	31,4	3 900				50,0
52,0	29,1	28,6	3 500							52,0
54,0	24,5	24,4	3 100							54,0

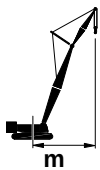
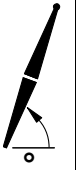
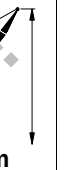


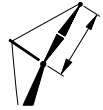
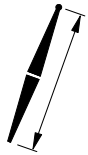
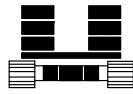
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	79,6	60,9	22 900							13,7
14,0	79,3	60,9	22 800							14,0
16,0	77,3	60,4	22 400							16,0
18,0	75,4	59,9	21 900	77,4	59,5	20 700				18,0
20,0	73,4	59,2	19 500	75,3	58,9	20 200	77,4	58,0	15 900	20,0
22,0	71,3	58,6	16 900	73,3	58,2	17 400	75,3	57,3	15 300	22,0
24,0	69,3	57,8	14 800	71,3	57,4	15 300	73,2	56,6	14 700	24,0
26,0	67,2	56,9	13 100	69,2	56,5	13 500	71,1	55,7	13 900	26,0
28,0	65,1	56,0	11 600	67,1	55,6	12 000	68,9	54,7	12 300	28,0
30,0	63,0	55,0	10 400	64,9	54,5	10 700	66,7	53,7	11 000	30,0
32,0	60,8	53,8	9 300	62,7	53,4	9 600	64,5	52,5	9 900	32,0
34,0	58,6	52,6	8 400	60,4	52,2	8 600	62,2	51,2	8 900	34,0
36,0	56,3	51,3	7 600	58,1	50,8	7 800	59,8	49,8	8 000	36,0
38,0	53,9	49,8	6 800	55,7	49,3	7 000	57,4	48,3	7 200	38,0
40,0	51,5	48,2	6 200	53,3	47,7	6 300	54,9	46,7	6 500	40,0
42,0	48,9	46,4	5 600	50,7	45,9	5 700	52,3	44,9	5 900	42,0
44,0	46,3	44,5	5 000	48,0	44,0	5 200	49,5	42,9	5 300	44,0
46,0	43,5	42,4	4 500	45,2	41,9	4 700	46,6	40,7	4 800	46,0
48,0	40,6	40,1	4 100	42,3	39,5	4 200				48,0
50,0	37,5	37,5	3 700	39,1	36,9	3 800				50,0
52,0	34,1	34,6	3 300	35,7	33,9	3 400				52,0
54,0	30,4	31,3	2 900							54,0
56,0	26,2	27,3	2 600							56,0

MLC165-1 S-1

ASME B30.5



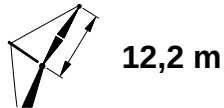
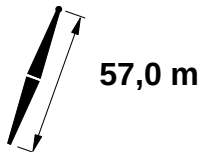
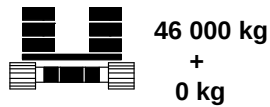
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
15,2	78,7	63,7	22 400							15,2
16,0	77,9	63,5	22 300							16,0
18,0	76,1	63,0	21 900	78,0	62,6	20 600				18,0
20,0	74,2	62,4	19 400	76,1	62,0	20 000	78,0	61,2	16 100	20,0
22,0	72,3	61,7	16 800	74,2	61,3	17 300	76,0	60,5	15 500	22,0
24,0	70,3	61,0	14 700	72,2	60,6	15 100	74,1	59,8	14 900	24,0
26,0	68,4	60,2	13 000	70,2	59,8	13 300	72,1	58,9	13 700	26,0
28,0	66,4	59,3	11 500	68,2	58,9	11 800	70,0	58,0	12 200	28,0
30,0	64,4	58,3	10 200	66,2	57,9	10 600	68,0	57,0	10 900	30,0
32,0	62,3	57,3	9 200	64,1	56,8	9 500	65,9	55,9	9 700	32,0
34,0	60,2	56,1	8 200	62,0	55,7	8 500	63,7	54,8	8 700	34,0
36,0	58,1	54,9	7 400	59,9	54,4	7 600	61,5	53,5	7 900	36,0
38,0	55,9	53,5	6 700	57,6	53,0	6 900	59,3	52,1	7 100	38,0
40,0	53,6	52,0	6 000	55,4	51,5	6 200	56,9	50,5	6 400	40,0
42,0	51,3	50,4	5 400	53,0	49,9	5 600	54,5	48,9	5 700	42,0
44,0	48,9	48,7	4 900	50,6	48,1	5 000	52,0	47,1	5 200	44,0
46,0	46,4	46,7	4 400	48,0	46,2	4 500	49,4	45,1	4 700	46,0
48,0	43,7	44,7	3 900	45,4	44,1	4 100	46,7	42,9	4 200	48,0
50,0	41,0	42,4	3 500	42,6	41,8	3 600				50,0
52,0	38,1	39,8	3 200	39,6	39,2	3 300				52,0
54,0	34,9	37,0	2 800	36,4	36,3	2 900				54,0
56,0	31,5	33,8	2 500							56,0
58,0	27,6	30,1	2 200							58,0

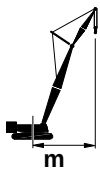
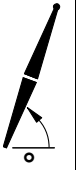
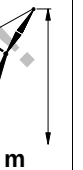


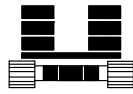
	5°			15°			25°			
m	o	m	kg	o	m	kg	o	m	kg	m
15,2	79,2	66,7	22 300							15,2
16,0	78,5	66,6	22 100							16,0
18,0	76,7	66,1	21 700	78,5	65,7	20 500				18,0
20,0	74,9	65,5	19 200	76,7	65,1	19 900	78,6	64,3	16 300	20,0
22,0	73,1	64,9	16 600	74,9	64,5	17 100	76,7	63,7	15 700	22,0
24,0	71,3	64,2	14 500	73,1	63,8	15 000	74,9	63,0	15 200	24,0
26,0	69,4	63,5	12 800	71,2	63,0	13 200	73,0	62,2	13 600	26,0
28,0	67,5	62,6	11 300	69,3	62,2	11 700	71,0	61,3	12 100	28,0
30,0	65,6	61,7	10 100	67,4	61,3	10 400	69,1	60,4	10 700	30,0
32,0	63,7	60,7	9 000	65,4	60,3	9 300	67,1	59,4	9 600	32,0
34,0	61,7	59,6	8 000	63,4	59,2	8 300	65,1	58,3	8 600	34,0
36,0	59,7	58,4	7 200	61,4	58,0	7 500	63,0	57,1	7 700	36,0
38,0	57,7	57,2	6 500	59,4	56,7	6 700	60,9	55,7	6 900	38,0
40,0	55,6	55,8	5 800	57,2	55,3	6 000	58,8	54,3	6 200	40,0
42,0	53,4	54,3	5 200	55,0	53,8	5 400	56,5	52,8	5 600	42,0
44,0	51,2	52,7	4 700	52,8	52,2	4 900	54,2	51,1	5 000	44,0
46,0	48,9	50,9	4 200	50,5	50,4	4 400	51,9	49,3	4 500	46,0
48,0	46,5	49,0	3 800	48,1	48,5	3 900	49,4	47,3	4 000	48,0
50,0	44,0	46,9	3 400	45,5	46,4	3 500	46,8	45,2	3 600	50,0
52,0	41,4	44,7	3 000	42,9	44,1	3 100				52,0
54,0	38,6	42,2	2 600	40,1	41,6	2 700				54,0
56,0	35,6	39,4	2 300	37,1	38,7	2 400				56,0

MLC165-1 S-1

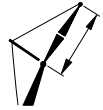
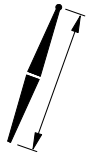
ASME B30.5

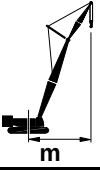
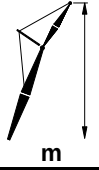
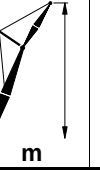


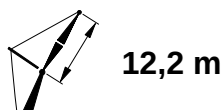
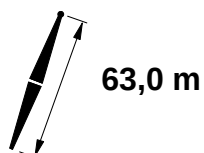
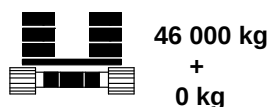
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
15,2	79,7	69,8	22 100							15,2
16,0	79,0	69,6	21 900							16,0
18,0	77,3	69,2	21 500							18,0
20,0	75,6	68,6	19 100	77,3	68,2	19 800	79,1	67,4	16 500	20,0
22,0	73,9	68,0	16 500	75,6	67,6	17 000	77,3	66,8	15 900	22,0
24,0	72,1	67,4	14 400	73,8	67,0	14 900	75,6	66,1	15 200	24,0
26,0	70,4	66,7	12 700	72,1	66,3	13 100	73,8	65,4	13 500	26,0
28,0	68,6	65,9	11 200	70,3	65,5	11 600	71,9	64,6	12 000	28,0
30,0	66,8	65,0	9 900	68,4	64,6	10 300	70,1	63,7	10 600	30,0
32,0	64,9	64,0	8 900	66,6	63,6	9 200	68,2	62,7	9 500	32,0
34,0	63,1	63,0	7 900	64,7	62,6	8 200	66,3	61,7	8 500	34,0
36,0	61,2	61,9	7 100	62,8	61,5	7 400	64,4	60,5	7 600	36,0
38,0	59,2	60,7	6 400	60,9	60,3	6 600	62,4	59,3	6 800	38,0
40,0	57,3	59,4	5 700	58,9	59,0	5 900	60,4	58,0	6 100	40,0
42,0	55,2	58,0	5 100	56,8	57,5	5 300	58,3	56,5	5 500	42,0
44,0	53,2	56,5	4 600	54,7	56,0	4 800	56,2	55,0	4 900	44,0
46,0	51,0	54,9	4 100	52,6	54,4	4 300	54,0	53,3	4 400	46,0
48,0	48,8	53,1	3 600	50,4	52,6	3 800	51,7	51,5	3 900	48,0
50,0	46,5	51,2	3 200	48,0	50,7	3 400	49,3	49,6	3 500	50,0
52,0	44,2	49,2	2 900	45,6	48,6	3 000	46,9	47,4	3 100	52,0
54,0	41,7	46,9	2 500	43,1	46,3	2 600				54,0
56,0	39,0	44,5	2 100	40,5	43,9	2 300				56,0

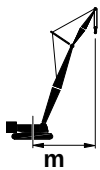
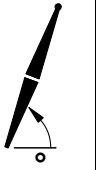
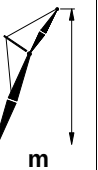
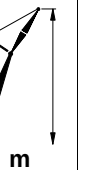
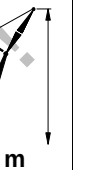


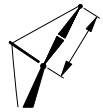
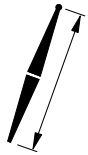
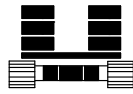
46 000 kg
+
0 kg



	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
16,8	78,9	72,5	21 500							16,8
18,0	77,8	72,3	21 300							18,0
20,0	76,2	71,8	19 000	77,9	71,4	19 700				20,0
22,0	74,6	71,2	16 300	76,2	70,8	16 900				22,0
24,0	72,9	70,6	14 200	74,5	70,2	14 700	77,9	70,0	16 100	24,0
26,0	71,2	69,9	12 500	72,9	69,5	12 900	76,2	69,3	15 200	26,0
28,0	69,5	69,1	11 000	71,1	68,7	11 400	74,5	68,6	13 400	28,0
30,0	67,8	68,3	9 800	69,4	67,9	10 100	72,7	67,8	11 800	30,0
32,0	66,1	67,4	8 700	67,7	67,0	9 000	71,0	67,0	10 500	32,0
34,0	64,3	66,4	7 700	65,9	66,0	8 100	69,2	66,1	9 400	34,0
36,0	62,5	65,4	6 900	64,1	64,9	7 200	67,4	65,1	8 300	36,0
38,0	60,7	64,2	6 200	62,2	63,8	6 400	65,6	64,0	7 500	38,0
40,0	58,8	63,0	5 500	60,4	62,6	5 800	63,7	62,8	6 700	40,0
42,0	56,9	61,7	4 900	58,4	61,2	5 100	61,8	61,6	6 000	42,0
44,0	55,0	60,3	4 400	56,5	59,8	4 600	59,9	60,3	5 300	44,0
46,0	53,0	58,8	3 900	54,5	58,3	4 100	57,9	58,8	4 800	46,0
48,0	50,9	57,1	3 500	52,4	56,6	3 600	55,8	57,2	4 300	48,0
50,0	48,8	55,4	3 100	50,3	54,9	3 200	53,7	55,6	3 800	50,0
52,0	46,6	53,5	2 700	48,1	53,0	2 800	51,5	53,8	3 300	52,0
54,0	44,4	51,5	2 300	45,8	50,9	2 400	49,3	51,8	2 900	54,0
56,0	42,0	49,2	1 900	43,4	48,6	2 000	46,9	49,7	2 500	56,0
							44,5	47,4	2 100	56,0



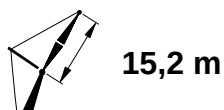
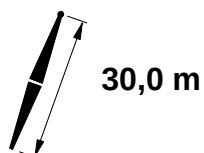
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
16,8	79,3	75,6	21 300							16,8
18,0	78,3	75,3	21 100							18,0
20,0	76,8	74,8	18 800	78,4	74,4	19 500				20,0
22,0	75,2	74,3	16 200	76,8	73,9	16 800	78,4	73,1	16 300	22,0
24,0	73,6	73,7	14 100	75,2	73,3	14 600	76,8	72,4	15 100	24,0
26,0	72,0	73,0	12 300	73,6	72,6	12 800	75,1	71,8	13 300	26,0
28,0	70,4	72,3	10 900	71,9	71,9	11 300	73,5	71,0	11 700	28,0
30,0	68,7	71,5	9 600	70,3	71,1	10 000	71,8	70,2	10 400	30,0
32,0	67,1	70,7	8 500	68,6	70,3	8 900	70,1	69,4	9 200	32,0
34,0	65,4	69,8	7 600	66,9	69,3	7 900	68,4	68,4	8 200	34,0
36,0	63,7	68,8	6 800	65,2	68,3	7 100	66,7	67,4	7 300	36,0
38,0	62,0	67,7	6 000	63,5	67,2	6 300	64,9	66,3	6 500	38,0
40,0	60,2	66,5	5 400	61,7	66,1	5 600	63,1	65,1	5 800	40,0
42,0	58,4	65,3	4 800	59,9	64,8	5 000	61,3	63,8	5 200	42,0
44,0	56,6	64,0	4 200	58,0	63,5	4 400	59,4	62,5	4 600	44,0
46,0	54,7	62,5	3 700	56,2	62,0	3 900	57,5	61,0	4 100	46,0
48,0	52,8	61,0	3 300	54,2	60,5	3 500	55,5	59,5	3 600	48,0
50,0	50,8	59,4	2 900	52,2	58,9	3 100	53,5	57,8	3 200	50,0
52,0	48,8	57,6	2 500	50,2	57,1	2 600	51,4	56,0	2 800	52,0
54,0	46,7	55,7	2 000	48,1	55,2	2 200	49,2	54,0	2 400	54,0
56,0							47,0	51,9	1 900	56,0

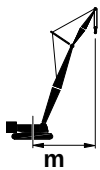
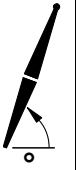
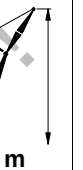


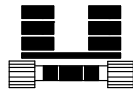
	5°			15°			25°			
m	°	m	kg	°	m	kg	°	m	kg	m
10,7	79,7	43,2	20 200							10,7
12,0	77,8	42,9	19 700							12,0
14,0	75,0	42,3	19 000	78,6	41,9	17 700				14,0
16,0	72,1	41,6	18 400	75,7	41,3	17 200				16,0
18,0	69,2	40,8	17 800	72,8	40,5	16 600	76,4	39,6	12 900	18,0
20,0	66,2	39,9	17 200	69,7	39,5	16 200	73,3	38,7	12 000	20,0
22,0	63,1	38,9	16 600	66,6	38,5	15 200	70,2	37,6	11 300	22,0
24,0	60,0	37,7	15 800	63,4	37,3	14 200	66,9	36,3	10 700	24,0
26,0	56,7	36,3	14 200	60,1	35,9	13 300	63,5	34,9	10 200	26,0
28,0	53,3	34,8	12 700	56,7	34,3	12 500	59,9	33,3	9 700	28,0
30,0	49,7	33,1	11 500	53,0	32,6	11 700	56,1	31,5	9 300	30,0
32,0	45,9	31,1	10 400	49,1	30,6	10 600	52,1	29,4	9 000	32,0
34,0	41,8	28,9	9 500	45,0	28,3	9 600	47,7	27,0	8 600	34,0
36,0	37,3	26,2	8 600	40,4	25,6	8 800				36,0
38,0	32,2	23,1	7 900	35,1	22,3	8 000				38,0
40,0	26,2	19,1	7 200							40,0

MLC165-1 S-1

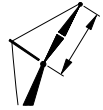
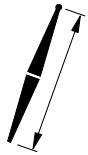
ASME B30.5



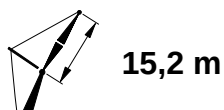
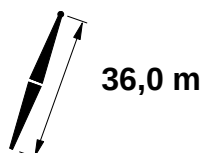
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
12,2	78,4	45,9	19 700							12,2
14,0	76,0	45,4	19 100							14,0
16,0	73,3	44,8	18 500	76,7	44,4	17 300				16,0
18,0	70,6	44,1	18 000	74,0	43,7	16 800				18,0
20,0	67,9	43,2	17 400	71,2	42,8	16 400	77,4	42,8	13 100	20,0
							74,6	41,9	12 300	
22,0	65,1	42,3	16 900	68,4	41,8	15 800	71,7	40,9	11 700	22,0
24,0	62,2	41,2	15 800	65,4	40,7	14 800	68,7	39,8	11 100	24,0
26,0	59,2	40,0	14 000	62,4	39,5	13 900	65,6	38,5	10 500	26,0
28,0	56,1	38,6	12 500	59,3	38,1	12 900	62,4	37,1	10 000	28,0
30,0	52,9	37,0	11 300	56,1	36,5	11 600	59,0	35,5	9 600	30,0
32,0	49,6	35,3	10 200	52,7	34,8	10 400	55,5	33,7	9 300	32,0
34,0	46,0	33,4	9 300	49,1	32,8	9 500	51,8	31,6	8 900	34,0
36,0	42,2	31,1	8 400	45,2	30,5	8 600	47,7	29,2	8 600	36,0
38,0	38,1	28,6	7 700	41,0	27,9	7 800				38,0
40,0	33,5	25,6	7 000	36,3	24,8	7 100				40,0
42,0	28,2	21,9	6 400							42,0

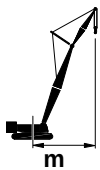
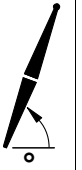
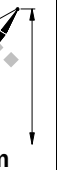


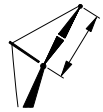
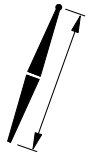
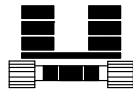
46 000 kg
+
0 kg

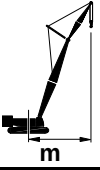
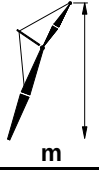
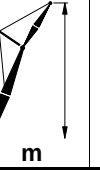


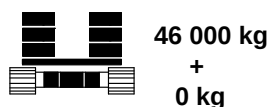
	5°			15°			25°			
m	°	m	kg	°	m	kg	°	m	kg	m
12,2	79,1	49,0	19 800							12,2
14,0	76,9	48,6	19 200							14,0
16,0	74,4	48,0	18 600	77,6	47,6	17 400				16,0
18,0	71,9	47,3	18 100	75,1	46,9	17 000				18,0
20,0	69,3	46,5	17 600	72,5	46,1	16 500	75,6	45,2	12 600	20,0
22,0	66,7	45,6	17 100	69,9	45,2	16 100	73,0	44,3	12 000	22,0
24,0	64,1	44,6	15 700	67,2	44,2	15 400	70,2	43,2	11 400	24,0
26,0	61,4	43,5	13 900	64,4	43,0	14 300	67,4	42,1	10 800	26,0
28,0	58,6	42,3	12 400	61,6	41,8	12 700	64,5	40,8	10 300	28,0
30,0	55,7	40,9	11 200	58,6	40,4	11 500	61,5	39,3	9 900	30,0
32,0	52,6	39,3	10 100	55,6	38,8	10 400	58,3	37,7	9 500	32,0
34,0	49,5	37,6	9 200	52,4	37,0	9 400	55,0	35,9	9 200	34,0
36,0	46,2	35,6	8 300	49,0	35,1	8 500	51,5	33,8	8 700	36,0
38,0	42,7	33,4	7 600	45,4	32,8	7 800	47,8	31,5	7 900	38,0
40,0	38,9	30,9	6 900	41,5	30,3	7 100				40,0
42,0	34,7	28,1	6 300	37,3	27,3	6 400				42,0
44,0	30,0	24,6	5 800							44,0



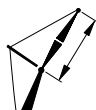
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	78,0	51,7	19 300							13,7
14,0	77,7	51,7	19 300							14,0
16,0	75,4	51,1	18 700	78,3	50,7	17 500				16,0
18,0	73,0	50,5	18 200	76,0	50,0	17 100				18,0
20,0	70,6	49,7	17 800	73,6	49,3	16 700	76,6	48,4	12 900	20,0
22,0	68,2	48,9	17 200	71,1	48,5	16 300	74,1	47,5	12 200	22,0
24,0	65,7	48,0	15 500	68,6	47,5	15 700	71,5	46,6	11 600	24,0
26,0	63,2	46,9	13 700	66,1	46,5	14 100	68,9	45,5	11 100	26,0
28,0	60,6	45,8	12 200	63,5	45,3	12 600	66,2	44,3	10 600	28,0
30,0	58,0	44,5	11 000	60,8	44,0	11 300	63,5	43,0	10 200	30,0
32,0	55,2	43,1	9 900	58,0	42,6	10 200	60,6	41,5	9 800	32,0
34,0	52,4	41,5	9 000	55,1	41,0	9 200	57,7	39,9	9 400	34,0
36,0	49,4	39,8	8 100	52,1	39,2	8 400	54,6	38,1	8 600	36,0
38,0	46,3	37,8	7 400	49,0	37,3	7 600	51,3	36,0	7 800	38,0
40,0	43,0	35,7	6 700	45,6	35,1	6 900	47,8	33,7	7 100	40,0
42,0	39,5	33,2	6 100	42,0	32,6	6 300				42,0
44,0	35,6	30,4	5 600	38,1	29,7	5 700				44,0
46,0	31,3	27,2	5 100							46,0
48,0	26,4	23,3	4 600							48,0



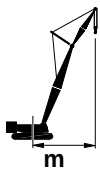
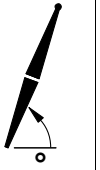
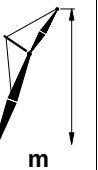
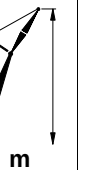
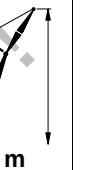
	5°			15°			25°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
13,7	78,7	54,8	19 400							13,7
14,0	78,4	54,8	19 300							14,0
16,0	76,2	54,2	18 800							16,0
18,0	74,0	53,6	18 300	76,8	53,2	17 100				18,0
20,0	71,7	53,0	17 900	74,5	52,5	16 800	77,4	51,6	13 100	20,0
22,0	69,5	52,2	17 200	72,3	51,7	16 400	75,0	50,8	12 500	22,0
24,0	67,2	51,3	15 300	69,9	50,9	15 700	72,7	49,9	11 900	24,0
26,0	64,8	50,4	13 600	67,6	49,9	14 000	70,2	48,9	11 400	26,0
28,0	62,4	49,3	12 100	65,1	48,8	12 500	67,8	47,8	10 900	28,0
30,0	60,0	48,1	10 800	62,7	47,6	11 200	65,2	46,6	10 500	30,0
32,0	57,5	46,8	9 800	60,1	46,3	10 100	62,6	45,2	10 100	32,0
34,0	54,8	45,4	8 800	57,5	44,8	9 100	59,9	43,7	9 400	34,0
36,0	52,2	43,8	8 000	54,7	43,2	8 200	57,1	42,1	8 500	36,0
38,0	49,4	42,0	7 300	51,9	41,5	7 500	54,2	40,3	7 700	38,0
40,0	46,4	40,1	6 600	48,9	39,5	6 800	51,1	38,3	6 900	40,0
42,0	43,3	38,0	6 000	45,8	37,3	6 200	47,9	36,0	6 300	42,0
44,0	40,0	35,6	5 500	42,4	34,9	5 600	44,3	33,5	5 700	44,0
46,0	36,5	32,9	5 000	38,8	32,1	5 100				46,0
48,0	32,5	29,8	4 500	34,8	28,9	4 600				48,0
50,0	28,1	26,1	4 100							50,0

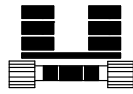


42,0 m

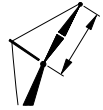
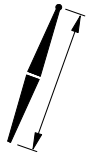


15,2 m

	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	79,3	57,9	19 300							13,7
14,0	79,0	57,8	19 300							14,0
16,0	76,9	57,3	18 800							16,0
18,0	74,8	56,8	18 400							18,0
20,0	72,7	56,1	17 900	77,5	56,3	17 200				20,0
				75,4	55,7	16 800	78,1	54,7	13 300	
22,0	70,6	55,4	17 200	73,2	54,9	16 500	75,9	54,0	12 700	22,0
24,0	68,4	54,6	15 100	71,1	54,1	15 600	73,7	53,2	12 100	24,0
26,0	66,2	53,7	13 400	68,8	53,2	13 800	71,4	52,2	11 600	26,0
28,0	64,0	52,7	11 900	66,6	52,2	12 300	69,1	51,2	11 100	28,0
30,0	61,7	51,6	10 700	64,3	51,1	11 000	66,7	50,1	10 700	30,0
32,0	59,4	50,4	9 600	61,9	49,9	9 900	64,3	48,8	10 200	32,0
34,0	57,0	49,0	8 600	59,5	48,5	8 900	61,8	47,4	9 200	34,0
36,0	54,5	47,6	7 800	57,0	47,1	8 100	59,3	45,9	8 300	36,0
38,0	51,9	46,0	7 100	54,4	45,5	7 300	56,6	44,3	7 500	38,0
40,0	49,3	44,3	6 400	51,7	43,7	6 600	53,8	42,5	6 800	40,0
42,0	46,5	42,3	5 800	48,9	41,7	6 000	50,9	40,5	6 200	42,0
44,0	43,6	40,2	5 300	45,9	39,6	5 400	47,9	38,2	5 600	44,0
46,0	40,5	37,9	4 800	42,8	37,2	4 900				46,0
48,0	37,2	35,2	4 300	39,4	34,5	4 500				48,0
50,0	33,5	32,2	3 900	35,7	31,4	4 000				50,0
52,0	29,5	28,7	3 500							52,0
54,0	24,9	24,5	3 200							54,0



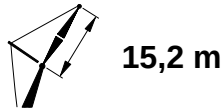
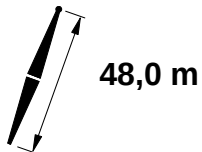
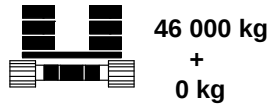
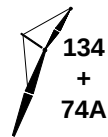
46 000 kg
+
0 kg

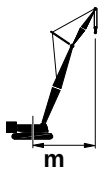
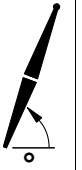
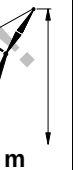


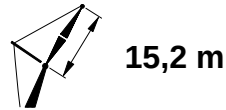
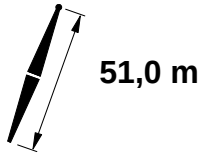
	5°			15°			25°			
m	°	m	kg	°	m	kg	°	m	kg	m
15,2	78,3	60,6	19 000							15,2
16,0	77,6	60,4	18 800							16,0
18,0	75,6	59,9	18 400	78,2	59,4	17 200				18,0
20,0	73,6	59,3	18 000	76,2	58,8	16 900				20,0
22,0	71,6	58,6	17 200	74,1	58,1	16 600	78,7	57,9	13 500	22,0
							76,6	57,2	12 900	
24,0	69,6	57,8	15 200	72,1	57,4	15 700	74,6	56,4	12 300	24,0
26,0	67,5	57,0	13 400	70,0	56,5	13 900	72,4	55,5	11 800	26,0
28,0	65,4	56,0	11 900	67,9	55,5	12 300	70,3	54,5	11 400	28,0
30,0	63,3	55,0	10 700	65,7	54,5	11 100	68,1	53,5	10 900	30,0
32,0	61,1	53,9	9 600	63,5	53,4	9 900	65,8	52,3	10 300	32,0
34,0	58,8	52,6	8 700	61,2	52,1	9 000	63,5	51,0	9 300	34,0
36,0	56,5	51,3	7 900	58,9	50,8	8 100	61,1	49,6	8 400	36,0
38,0	54,2	49,8	7 100	56,5	49,3	7 400	58,7	48,1	7 600	38,0
40,0	51,7	48,2	6 500	54,1	47,7	6 700	56,2	46,5	6 900	40,0
42,0	49,2	46,5	5 900	51,5	45,9	6 100	53,5	44,6	6 200	42,0
44,0	46,6	44,6	5 300	48,8	44,0	5 500	50,8	42,7	5 700	44,0
46,0	43,8	42,5	4 800	46,0	41,8	5 000	47,9	40,4	5 100	46,0
48,0	40,9	40,1	4 400	43,0	39,5	4 500				48,0
50,0	37,8	37,6	4 000	39,9	36,8	4 100				50,0
52,0	34,4	34,6	3 600	36,4	33,8	3 700				52,0
54,0	30,7	31,3	3 200							54,0
56,0	26,5	27,4	2 900							56,0

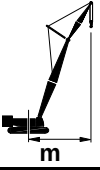
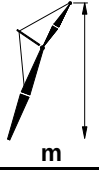
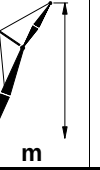
MLC165-1 S-1

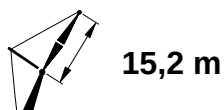
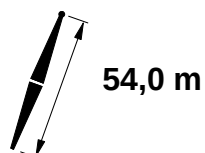
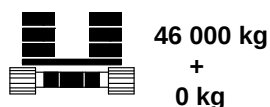
ASME B30.5

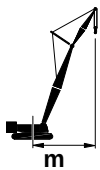
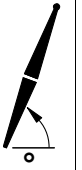
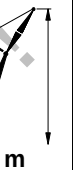


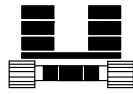
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
15,2	78,9	63,7	18 900							15,2
16,0	78,2	63,5	18 700							16,0
18,0	76,3	63,0	18 400							18,0
20,0	74,4	62,4	18 000	76,8	62,0	16 900	79,3	61,0	13 700	20,0
22,0	72,5	61,8	17 200	74,9	61,3	16 600	77,3	60,4	13 100	22,0
24,0	70,6	61,1	15 000	73,0	60,6	15 600	75,4	59,6	12 600	24,0
26,0	68,6	60,3	13 200	71,0	59,8	13 700	73,4	58,8	12 000	26,0
28,0	66,7	59,4	11 800	69,0	58,9	12 200	71,3	57,9	11 600	28,0
30,0	64,6	58,4	10 500	67,0	57,9	10 900	69,2	56,9	11 100	30,0
32,0	62,6	57,3	9 400	64,9	56,8	9 800	67,1	55,8	10 100	32,0
34,0	60,5	56,2	8 500	62,8	55,7	8 800	65,0	54,6	9 100	34,0
36,0	58,4	54,9	7 700	60,6	54,4	8 000	62,8	53,3	8 200	36,0
38,0	56,2	53,6	6 900	58,4	53,0	7 200	60,5	51,9	7 400	38,0
40,0	53,9	52,1	6 300	56,1	51,5	6 500	58,2	50,4	6 700	40,0
42,0	51,6	50,5	5 700	53,8	49,9	5 900	55,8	48,7	6 100	42,0
44,0	49,2	48,7	5 100	51,3	48,1	5 300	53,3	46,9	5 500	44,0
46,0	46,7	46,8	4 700	48,8	46,2	4 800	50,6	44,9	5 000	46,0
48,0	44,1	44,7	4 200	46,1	44,1	4 400	47,9	42,7	4 500	48,0
50,0	41,3	42,5	3 800	43,3	41,8	3 900	45,0	40,3	4 000	50,0
52,0	38,4	39,9	3 400	40,4	39,2	3 500				52,0
54,0	35,2	37,1	3 100	37,2	36,3	3 200				54,0
56,0	31,8	33,9	2 700	33,6	33,0	2 800				56,0
58,0	28,0	30,2	2 400							58,0



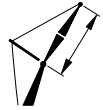
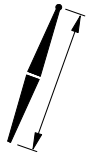
	5°			15°			25°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
15,2	79,4	66,8	18 800							15,2
16,0	78,7	66,6	18 700							16,0
18,0	77,0	66,1	18 300							18,0
20,0	75,2	65,6	17 900	77,5	65,1	16 900				20,0
22,0	73,4	64,9	17 100	75,6	64,5	16 600	77,9	63,5	13 300	22,0
24,0	71,5	64,2	14 800	73,8	63,8	15 500	76,1	62,8	12 700	24,0
26,0	69,7	63,5	13 100	71,9	63,0	13 600	74,2	62,0	12 200	26,0
28,0	67,8	62,6	11 600	70,0	62,2	12 100	72,2	61,1	11 800	28,0
30,0	65,9	61,7	10 400	68,1	61,2	10 800	70,3	60,2	11 100	30,0
32,0	63,9	60,7	9 300	66,2	60,2	9 700	68,3	59,2	10 000	32,0
34,0	62,0	59,6	8 300	64,2	59,1	8 700	66,3	58,1	9 000	34,0
36,0	60,0	58,5	7 500	62,1	57,9	7 800	64,2	56,8	8 100	36,0
38,0	57,9	57,2	6 800	60,1	56,7	7 100	62,1	55,5	7 300	38,0
40,0	55,8	55,8	6 100	57,9	55,3	6 400	59,9	54,1	6 600	40,0
42,0	53,6	54,3	5 500	55,8	53,8	5 800	57,7	52,6	6 000	42,0
44,0	51,4	52,7	5 000	53,5	52,1	5 200	55,4	50,9	5 400	44,0
46,0	49,1	50,9	4 500	51,2	50,4	4 700	53,0	49,1	4 900	46,0
48,0	46,7	49,0	4 100	48,8	48,4	4 200	50,5	47,1	4 400	48,0
50,0	44,2	47,0	3 600	46,2	46,3	3 800	47,9	44,9	3 900	50,0
52,0	41,6	44,7	3 300	43,6	44,0	3 400				52,0
54,0	38,9	42,2	2 900	40,8	41,5	3 000				54,0
56,0	35,9	39,5	2 600	37,8	38,7	2 700				56,0
58,0	32,7	36,4	2 300							58,0
60,0	29,2	32,8	2 000							60,0

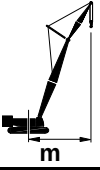
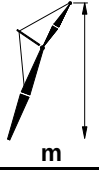
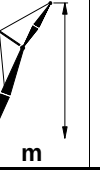


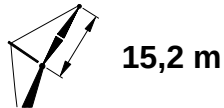
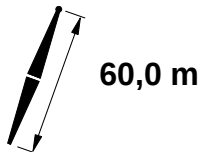
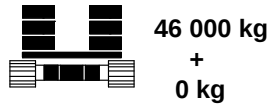
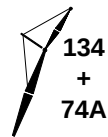
	5°			15°			25°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
16,8	78,6	69,5	18 400							16,8
18,0	77,5	69,2	18 200							18,0
20,0	75,8	68,7	17 900	78,0	68,2	16 900				20,0
22,0	74,1	68,1	17 000	76,3	67,6	16 600				22,0
24,0	72,4	67,4	14 700	74,5	67,0	15 400	78,5	66,6	13 500	24,0
							76,7	66,0	12 900	
26,0	70,6	66,7	12 900	72,8	66,2	13 400	74,9	65,2	12 400	26,0
28,0	68,8	65,9	11 500	71,0	65,4	11 900	73,1	64,4	12 000	28,0
30,0	67,0	65,1	10 200	69,2	64,6	10 600	71,2	63,5	11 100	30,0
32,0	65,2	64,1	9 100	67,3	63,6	9 500	69,4	62,6	9 900	32,0
34,0	63,3	63,1	8 200	65,4	62,6	8 500	67,5	61,5	8 900	34,0
36,0	61,4	62,0	7 300	63,5	61,5	7 700	65,5	60,4	8 000	36,0
38,0	59,5	60,8	6 600	61,6	60,2	6 900	63,5	59,1	7 200	38,0
40,0	57,5	59,5	5 900	59,6	58,9	6 200	61,5	57,8	6 500	40,0
42,0	55,5	58,1	5 300	57,5	57,5	5 600	59,4	56,4	5 800	42,0
44,0	53,4	56,6	4 800	55,4	56,0	5 000	57,3	54,8	5 200	44,0
46,0	51,3	55,0	4 300	53,3	54,4	4 500	55,1	53,1	4 700	46,0
48,0	49,1	53,2	3 900	51,1	52,6	4 100	52,8	51,3	4 200	48,0
50,0	46,8	51,3	3 500	48,8	50,7	3 600	50,4	49,3	3 800	50,0
52,0	44,4	49,3	3 100	46,3	48,6	3 200	47,9	47,2	3 400	52,0
54,0	42,0	47,0	2 700	43,8	46,3	2 900	45,3	44,8	3 000	54,0
56,0	39,3	44,6	2 400	41,2	43,8	2 500				56,0
58,0	36,5	41,9	2 100	38,3	41,1	2 200				58,0

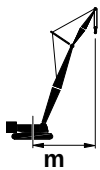
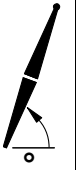
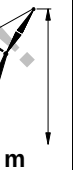


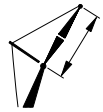
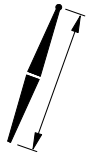
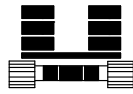
46 000 kg
+
0 kg



	5°			15°			25°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
16,8	79,1	72,6	18 200							16,8
18,0	78,1	72,3	18 100							18,0
20,0	76,4	71,8	17 800	78,5	71,3	16 800				20,0
22,0	74,8	71,2	16 900	76,9	70,8	16 500	79,0	69,8	13 600	22,0
24,0	73,1	70,6	14 500	75,2	70,1	15 300	77,3	69,1	13 100	24,0
26,0	71,4	69,9	12 800	73,5	69,4	13 300	75,6	68,4	12 600	26,0
28,0	69,7	69,1	11 300	71,8	68,7	11 800	73,9	67,6	12 100	28,0
30,0	68,0	68,3	10 100	70,1	67,8	10 500	72,1	66,8	11 000	30,0
32,0	66,3	67,4	9 000	68,3	66,9	9 400	70,3	65,9	9 800	32,0
34,0	64,5	66,5	8 000	66,5	65,9	8 400	68,5	64,9	8 800	34,0
36,0	62,7	65,4	7 200	64,7	64,9	7 500	66,7	63,8	7 900	36,0
38,0	60,9	64,3	6 500	62,9	63,7	6 800	64,8	62,6	7 100	38,0
40,0	59,0	63,0	5 800	61,0	62,5	6 100	62,9	61,4	6 400	40,0
42,0	57,1	61,7	5 200	59,1	61,2	5 500	60,9	60,0	5 700	42,0
44,0	55,2	60,3	4 700	57,1	59,8	4 900	58,9	58,6	5 100	44,0
46,0	53,2	58,8	4 200	55,1	58,2	4 400	56,9	57,0	4 600	46,0
48,0	51,2	57,2	3 700	53,1	56,6	3 900	54,8	55,3	4 100	48,0
50,0	49,0	55,4	3 300	50,9	54,8	3 500	52,6	53,5	3 700	50,0
52,0	46,9	53,5	3 000	48,7	52,9	3 100	50,3	51,5	3 300	52,0
54,0	44,6	51,5	2 600	46,4	50,8	2 800	47,9	49,4	2 900	54,0
56,0	42,2	49,3	2 300	44,0	48,6	2 400	45,5	47,1	2 500	56,0
58,0				41,5	46,1	2 100				58,0



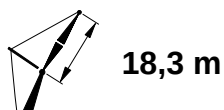
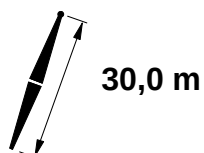
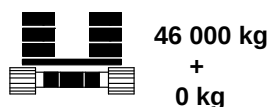
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
16,8	79,5	75,6	18 100							16,8
18,0	78,6	75,4	17 900							18,0
20,0	77,0	74,9	17 600	79,0	74,4	16 600				20,0
22,0	75,4	74,4	16 700	77,4	73,9	16 400				22,0
24,0	73,8	73,8	14 400	75,8	73,3	15 100	77,9	72,3	13 300	24,0
26,0	72,2	73,1	12 600	74,2	72,6	13 200	76,2	71,6	12 800	26,0
28,0	70,6	72,4	11 200	72,6	71,9	11 700	74,6	70,9	12 200	28,0
30,0	69,0	71,6	9 900	70,9	71,1	10 400	72,9	70,1	10 800	30,0
32,0	67,3	70,7	8 800	69,3	70,2	9 200	71,2	69,2	9 600	32,0
34,0	65,6	69,8	7 900	67,6	69,3	8 200	69,5	68,2	8 600	34,0
36,0	63,9	68,8	7 000	65,9	68,3	7 400	67,7	67,2	7 700	36,0
38,0	62,2	67,7	6 300	64,1	67,2	6 600	65,9	66,1	6 900	38,0
40,0	60,4	66,6	5 600	62,3	66,1	5 900	64,1	64,9	6 200	40,0
42,0	58,6	65,3	5 000	60,5	64,8	5 300	62,3	63,7	5 600	42,0
44,0	56,8	64,0	4 500	58,7	63,5	4 800	60,4	62,3	5 000	44,0
46,0	54,9	62,6	4 000	56,8	62,0	4 200	58,5	60,8	4 500	46,0
48,0	53,0	61,1	3 600	54,9	60,5	3 800	56,5	59,3	4 000	48,0
50,0	51,1	59,4	3 200	52,9	58,8	3 400	54,5	57,6	3 500	50,0
52,0	49,0	57,7	2 800	50,8	57,1	3 000	52,4	55,7	3 100	52,0
54,0	46,9	55,8	2 400	48,7	55,2	2 600	50,2	53,8	2 700	54,0
56,0	44,8	53,8	2 000	46,5	53,1	2 200	48,0	51,7	2 400	56,0

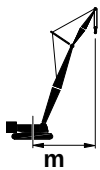
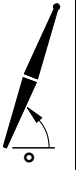
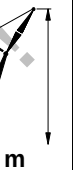


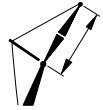
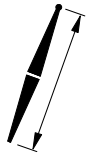
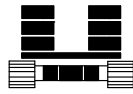
	5°			15°			25°			
m	°	m	kg	°	m	kg	°	m	kg	m
12,2	78,5	46,0	16 900							12,2
14,0	76,1	45,5	16 300							14,0
16,0	73,5	44,9	15 700	77,6	44,5	14 600				16,0
18,0	70,8	44,2	15 100	74,8	43,7	14 100				18,0
20,0	68,0	43,3	14 500	72,1	42,9	13 700	76,6	42,1	11 000	20,0
22,0	65,2	42,4	14 000	69,2	41,9	13 200	73,7	41,1	10 300	22,0
24,0	62,3	41,3	13 500	66,3	40,8	12 400	70,7	40,0	9 700	24,0
26,0	59,4	40,0	13 100	63,3	39,6	11 600	67,7	38,8	9 100	26,0
28,0	56,3	38,7	12 600	60,2	38,2	10 800	64,5	37,4	8 600	28,0
30,0	53,1	37,1	11 700	57,0	36,6	10 200	61,2	35,8	8 200	30,0
32,0	49,8	35,4	10 500	53,6	34,9	9 700	57,7	34,0	7 900	32,0
34,0	46,2	33,5	9 600	50,0	32,9	9 200	54,0	32,0	7 500	34,0
36,0	42,4	31,2	8 800	46,1	30,6	8 700	50,0	29,7	7 200	36,0
38,0	38,3	28,7	8 000	41,9	28,0	8 200	45,6	27,0	7 000	38,0
40,0	33,8	25,7	7 300	37,2	25,0	7 500				40,0
42,0	28,5	22,1	6 700							42,0
44,0	22,1	17,4	6 200							44,0

MLC165-1 S-1

ASME B30.5



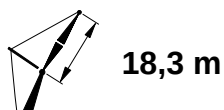
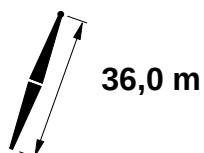
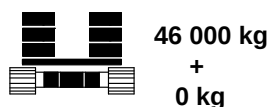
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
12,2	79,2	49,1	16 900							12,2
14,0	77,0	48,6	16 400							14,0
16,0	74,5	48,0	15 800	78,4	47,6	14 700				16,0
18,0	72,0	47,3	15 300	75,8	46,9	14 200				18,0
20,0	69,5	46,6	14 700	73,3	46,1	13 800	77,5	45,3	11 200	20,0
22,0	66,9	45,7	14 200	70,6	45,2	13 400	74,9	44,4	10 500	22,0
24,0	64,2	44,7	13 800	68,0	44,2	12 900	72,1	43,4	9 900	24,0
26,0	61,5	43,6	13 300	65,2	43,1	12 100	69,3	42,2	9 400	26,0
28,0	58,7	42,3	12 800	62,4	41,8	11 300	66,4	41,0	8 900	28,0
30,0	55,8	40,9	11 400	59,4	40,4	10 700	63,4	39,5	8 500	30,0
32,0	52,8	39,4	10 300	56,4	38,8	10 100	60,3	37,9	8 100	32,0
34,0	49,6	37,6	9 400	53,2	37,1	9 600	57,0	36,1	7 800	34,0
36,0	46,3	35,7	8 600	49,8	35,1	8 800	53,6	34,1	7 500	36,0
38,0	42,8	33,5	7 800	46,3	32,9	8 000	49,8	31,8	7 200	38,0
40,0	39,0	31,0	7 200	42,4	30,3	7 300	45,8	29,2	7 000	40,0
42,0	34,9	28,1	6 600	38,1	27,4	6 700				42,0
44,0	30,2	24,7	6 000	33,2	23,9	6 100				44,0

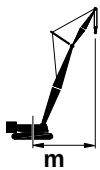
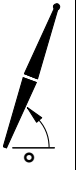
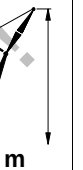


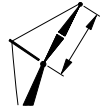
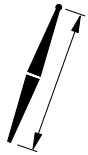
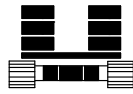
	5°			15°			25°			
m	°	m	kg	°	m	kg	°	m	kg	m
13,7	78,1	51,8	16 500							13,7
14,0	77,8	51,7	16 500							14,0
16,0	75,5	51,2	15 900							16,0
18,0	73,1	50,5	15 400							18,0
20,0	70,7	49,8	14 900	76,7	50,1	14 300				20,0
				74,3	49,4	14 000	78,3	48,5	11 400	
22,0	68,3	49,0	14 400	71,9	48,5	13 600	75,8	47,7	10 800	22,0
24,0	65,9	48,1	14 000	69,4	47,6	13 200	73,3	46,7	10 200	24,0
26,0	63,3	47,0	13 600	66,8	46,6	12 500	70,7	45,7	9 600	26,0
28,0	60,8	45,9	12 600	64,2	45,4	11 800	68,1	44,5	9 200	28,0
30,0	58,1	44,6	11 300	61,6	44,1	11 100	65,3	43,2	8 800	30,0
32,0	55,4	43,2	10 200	58,8	42,7	10 500	62,5	41,7	8 400	32,0
34,0	52,5	41,6	9 300	55,9	41,1	9 500	59,5	40,1	8 000	34,0
36,0	49,6	39,9	8 400	52,9	39,3	8 700	56,5	38,3	7 700	36,0
38,0	46,5	37,9	7 700	49,8	37,4	7 900	53,2	36,3	7 500	38,0
40,0	43,2	35,8	7 000	46,4	35,2	7 200	49,8	34,1	7 200	40,0
42,0	39,7	33,4	6 400	42,8	32,7	6 600	46,0	31,5	6 800	42,0
44,0	35,8	30,6	5 900	38,9	29,8	6 000				44,0
46,0	31,6	27,3	5 400	34,5	26,5	5 500				46,0
48,0	26,7	23,4	4 900							48,0

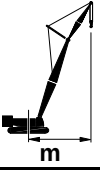
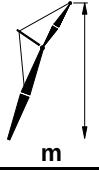
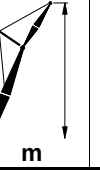
MLC165-1 S-1

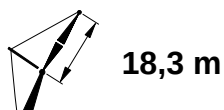
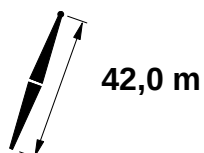
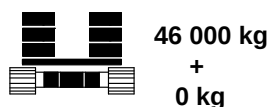
ASME B30.5

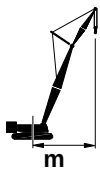
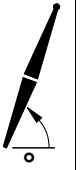
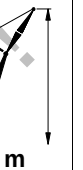


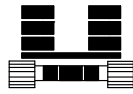
	5°			15°			25°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
13,7	78,8	54,9	16 600							13,7
14,0	78,5	54,8	16 500							14,0
16,0	76,3	54,3	16 000							16,0
18,0	74,1	53,7	15 500							18,0
20,0	71,9	53,0	15 100	77,5	53,2	14 400				20,0
				75,2	52,6	14 000	79,0	51,7	11 700	
22,0	69,6	52,2	14 600	73,0	51,8	13 700	76,7	50,9	11 000	22,0
24,0	67,3	51,4	14 200	70,6	50,9	13 400	74,3	50,0	10 400	24,0
26,0	64,9	50,4	13 700	68,3	49,9	13 000	71,9	49,0	9 900	26,0
28,0	62,5	49,3	12 400	65,8	48,8	12 200	69,5	47,9	9 400	28,0
30,0	60,1	48,1	11 100	63,4	47,6	11 400	66,9	46,7	9 000	30,0
32,0	57,6	46,8	10 000	60,8	46,3	10 400	64,3	45,4	8 600	32,0
34,0	55,0	45,4	9 100	58,2	44,9	9 400	61,6	43,9	8 300	34,0
36,0	52,3	43,8	8 200	55,5	43,3	8 500	58,8	42,3	8 000	36,0
38,0	49,5	42,1	7 500	52,6	41,5	7 800	55,9	40,5	7 700	38,0
40,0	46,5	40,2	6 800	49,6	39,6	7 100	52,9	38,5	7 300	40,0
42,0	43,5	38,0	6 300	46,5	37,4	6 400	49,6	36,3	6 700	42,0
44,0	40,2	35,6	5 700	43,1	35,0	5 900	46,2	33,8	6 100	44,0
46,0	36,6	32,9	5 200	39,5	32,2	5 400				46,0
48,0	32,7	29,8	4 800	35,5	29,0	4 900				48,0
50,0	28,3	26,2	4 300							50,0



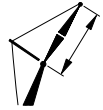
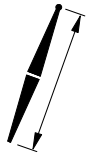
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	79,4	57,9	16 600							13,7
14,0	79,1	57,9	16 500							14,0
16,0	77,0	57,4	16 100							16,0
18,0	75,0	56,8	15 600	78,2	56,4	14 500				18,0
20,0	72,9	56,2	15 200	76,1	55,7	14 100				20,0
22,0	70,7	55,5	14 700	73,9	55,0	13 800	77,5	54,1	11 200	22,0
24,0	68,6	54,7	14 300	71,7	54,2	13 500	75,3	53,3	10 600	24,0
26,0	66,4	53,8	13 700	69,5	53,3	13 200	73,0	52,3	10 100	26,0
28,0	64,1	52,8	12 200	67,3	52,3	12 600	70,7	51,3	9 600	28,0
30,0	61,8	51,7	10 900	65,0	51,2	11 300	68,3	50,2	9 200	30,0
32,0	59,5	50,5	9 900	62,6	49,9	10 200	65,9	49,0	8 800	32,0
34,0	57,1	49,1	8 900	60,2	48,6	9 200	63,5	47,6	8 500	34,0
36,0	54,6	47,7	8 100	57,7	47,1	8 400	60,9	46,1	8 200	36,0
38,0	52,1	46,1	7 300	55,1	45,5	7 600	58,3	44,5	7 900	38,0
40,0	49,4	44,4	6 700	52,4	43,8	6 900	55,5	42,7	7 200	40,0
42,0	46,7	42,4	6 100	49,6	41,8	6 300	52,6	40,7	6 600	42,0
44,0	43,7	40,3	5 600	46,6	39,7	5 700	49,6	38,5	6 000	44,0
46,0	40,7	38,0	5 100	43,5	37,3	5 200	46,3	36,1	5 400	46,0
48,0	37,3	35,3	4 600	40,1	34,6	4 800				48,0
50,0	33,7	32,4	4 200	36,4	31,5	4 300				50,0
52,0	29,7	28,9	3 800							52,0
54,0	25,1	24,7	3 500							54,0

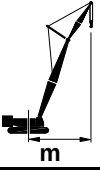
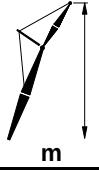
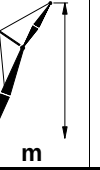


	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
15,2	78,4	60,7	16 200							15,2
16,0	77,7	60,5	16 100							16,0
18,0	75,7	60,0	15 700							18,0
20,0	73,7	59,4	15 300	76,8	58,9	14 200				20,0
22,0	71,7	58,7	14 800	74,8	58,2	13 900	78,1	57,2	11 400	22,0
24,0	69,7	57,9	14 400	72,7	57,4	13 600	76,1	56,5	10 800	24,0
26,0	67,6	57,0	13 500	70,6	56,6	13 300	73,9	55,6	10 300	26,0
28,0	65,5	56,1	12 000	68,5	55,6	12 600	71,8	54,7	9 900	28,0
30,0	63,4	55,1	10 800	66,3	54,6	11 200	69,6	53,6	9 400	30,0
32,0	61,2	53,9	9 700	64,1	53,4	10 100	67,3	52,5	9 100	32,0
34,0	59,0	52,7	8 700	61,9	52,2	9 100	65,0	51,2	8 700	34,0
36,0	56,7	51,4	7 900	59,6	50,8	8 200	62,7	49,8	8 400	36,0
38,0	54,3	49,9	7 200	57,2	49,3	7 400	60,2	48,3	7 800	38,0
40,0	51,9	48,3	6 500	54,7	47,7	6 800	57,7	46,7	7 100	40,0
42,0	49,4	46,6	5 900	52,2	46,0	6 100	55,1	44,9	6 400	42,0
44,0	46,7	44,7	5 400	49,5	44,0	5 600	52,4	42,9	5 800	44,0
46,0	44,0	42,6	4 900	46,7	41,9	5 100	49,5	40,7	5 300	46,0
48,0	41,1	40,2	4 400	43,7	39,5	4 600	46,4	38,3	4 800	48,0
50,0	38,0	37,7	4 000	40,6	36,9	4 200				50,0
52,0	34,6	34,8	3 600	37,1	33,9	3 800				52,0
54,0	30,9	31,4	3 300	33,3	30,5	3 400				54,0
56,0	26,7	27,5	2 900							56,0



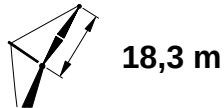
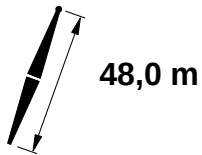
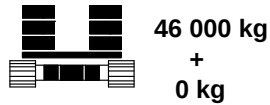
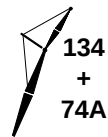
46 000 kg
+
0 kg

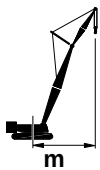
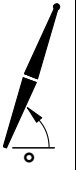
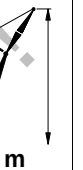


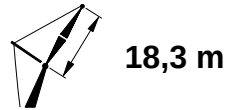
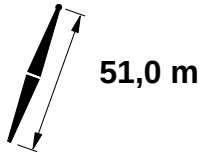
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
15,2	79,0	63,8	16 200							15,2
16,0	78,3	63,6	16 000							16,0
18,0	76,4	63,1	15 700							18,0
20,0	74,5	62,5	15 300	77,4	62,0	14 200				20,0
22,0	72,6	61,8	14 900	75,5	61,3	13 900	78,8	60,4	11 600	22,0
24,0	70,7	61,1	14 600	73,6	60,6	13 600	76,8	59,7	11 000	24,0
26,0	68,7	60,3	13 500	71,6	59,8	13 400	74,8	58,8	10 500	26,0
28,0	66,8	59,4	12 000	69,6	58,9	12 600	72,7	57,9	10 100	28,0
30,0	64,7	58,4	10 800	67,6	57,9	11 200	70,7	57,0	9 600	30,0
32,0	62,7	57,4	9 700	65,5	56,9	10 100	68,6	55,9	9 300	32,0
34,0	60,6	56,2	8 800	63,4	55,7	9 100	66,4	54,7	8 900	34,0
36,0	58,5	55,0	7 900	61,2	54,4	8 300	64,2	53,4	8 500	36,0
38,0	56,3	53,6	7 200	59,0	53,1	7 500	61,9	52,0	7 800	38,0
40,0	54,0	52,1	6 500	56,7	51,6	6 800	59,6	50,5	7 100	40,0
42,0	51,7	50,5	5 900	54,4	49,9	6 200	57,2	48,9	6 500	42,0
44,0	49,3	48,8	5 400	52,0	48,2	5 600	54,7	47,1	5 900	44,0
46,0	46,8	46,9	4 900	49,4	46,2	5 100	52,1	45,1	5 300	46,0
48,0	44,2	44,8	4 500	46,8	44,1	4 700	49,4	42,9	4 900	48,0
50,0	41,4	42,5	4 100	44,0	41,8	4 200	46,5	40,6	4 400	50,0
52,0	38,5	40,0	3 700	41,0	39,2	3 800				52,0
54,0	35,4	37,2	3 300	37,8	36,3	3 500				54,0
56,0	31,9	34,0	3 000	34,3	33,1	3 100				56,0
58,0	28,1	30,3	2 700							58,0
60,0	23,7	25,8	2 400							60,0

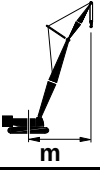
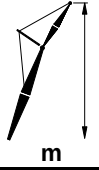
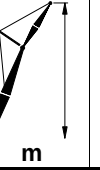
MLC165-1 S-1

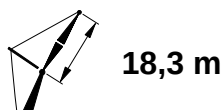
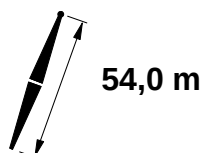
ASME B30.5

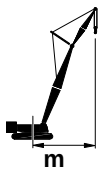
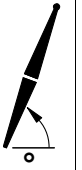
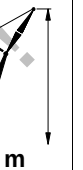


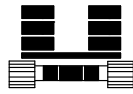
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
15,2	79,5	66,8	16 100							15,2
16,0	78,8	66,7	16 000							16,0
18,0	77,0	66,2	15 700							18,0
20,0	75,3	65,6	15 300	78,0	65,1	14 200				20,0
22,0	73,4	65,0	15 000	76,2	64,5	13 900				22,0
24,0	71,6	64,3	14 600	74,4	63,8	13 700	77,4	62,8	11 200	24,0
26,0	69,8	63,6	13 300	72,5	63,1	13 400	75,5	62,1	10 700	26,0
28,0	67,9	62,7	11 900	70,6	62,2	12 400	73,6	61,2	10 200	28,0
30,0	66,0	61,8	10 600	68,7	61,3	11 100	71,7	60,3	9 800	30,0
32,0	64,1	60,8	9 500	66,7	60,3	9 900	69,7	59,3	9 500	32,0
34,0	62,1	59,7	8 600	64,8	59,2	9 000	67,7	58,2	9 100	34,0
36,0	60,1	58,5	7 700	62,7	58,0	8 100	65,6	57,0	8 500	36,0
38,0	58,0	57,3	7 000	60,7	56,7	7 300	63,5	55,7	7 700	38,0
40,0	55,9	55,9	6 400	58,5	55,3	6 600	61,3	54,3	7 000	40,0
42,0	53,8	54,4	5 800	56,4	53,8	6 000	59,1	52,7	6 300	42,0
44,0	51,5	52,8	5 200	54,1	52,2	5 500	56,8	51,1	5 700	44,0
46,0	49,2	51,0	4 700	51,8	50,4	5 000	54,4	49,3	5 200	46,0
48,0	46,9	49,1	4 300	49,4	48,5	4 500	51,9	47,3	4 700	48,0
50,0	44,4	47,1	3 900	46,8	46,4	4 100	49,3	45,2	4 300	50,0
52,0	41,8	44,8	3 500	44,2	44,1	3 700	46,6	42,8	3 800	52,0
54,0	39,0	42,3	3 100	41,4	41,6	3 300				54,0
56,0	36,1	39,6	2 800	38,4	38,8	3 000				56,0
58,0	32,9	36,5	2 500	35,1	35,6	2 600				58,0
60,0	29,4	33,0	2 200							60,0
62,0	25,4	28,9	2 000							62,0



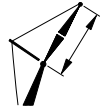
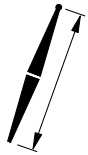
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
16,8	78,7	69,6	15 800							16,8
18,0	77,6	69,3	15 600							18,0
20,0	75,9	68,7	15 300	78,6	68,2	14 200				20,0
22,0	74,2	68,1	15 000	76,8	67,7	14 000				22,0
24,0	72,4	67,5	14 600	75,1	67,0	13 700	78,0	66,0	11 300	24,0
26,0	70,7	66,8	13 200	73,3	66,3	13 500	76,2	65,3	10 900	26,0
28,0	68,9	66,0	11 700	71,5	65,5	12 300	74,4	64,5	10 400	28,0
30,0	67,1	65,1	10 400	69,7	64,6	10 900	72,5	63,6	10 000	30,0
32,0	65,3	64,2	9 400	67,8	63,6	9 800	70,7	62,6	9 600	32,0
34,0	63,4	63,1	8 400	66,0	62,6	8 800	68,7	61,6	9 200	34,0
36,0	61,5	62,0	7 600	64,1	61,5	8 000	66,8	60,4	8 400	36,0
38,0	59,6	60,8	6 900	62,1	60,3	7 200	64,8	59,2	7 600	38,0
40,0	57,6	59,5	6 200	60,1	59,0	6 500	62,8	57,9	6 800	40,0
42,0	55,6	58,1	5 600	58,1	57,6	5 900	60,7	56,5	6 200	42,0
44,0	53,5	56,6	5 100	56,0	56,0	5 300	58,6	54,9	5 600	44,0
46,0	51,4	55,0	4 600	53,8	54,4	4 800	56,4	53,3	5 100	46,0
48,0	49,2	53,3	4 100	51,6	52,6	4 300	54,1	51,5	4 600	48,0
50,0	46,9	51,4	3 700	49,3	50,7	3 900	51,7	49,5	4 100	50,0
52,0	44,5	49,3	3 300	46,9	48,6	3 500	49,3	47,4	3 700	52,0
54,0	42,1	47,1	3 000	44,4	46,4	3 200	46,7	45,1	3 300	54,0
56,0	39,4	44,6	2 700	41,7	43,9	2 800	43,9	42,5	3 000	56,0
58,0	36,7	41,9	2 400	38,9	41,1	2 500				58,0
60,0	33,7	38,9	2 100	35,8	38,0	2 200				60,0
62,0				32,5	34,6	1 900				62,0

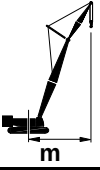
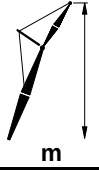
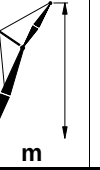


	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
16,8	79,2	72,6	15 700							16,8
18,0	78,1	72,4	15 500							18,0
20,0	76,5	71,9	15 200	79,1	71,4	14 200				20,0
22,0	74,9	71,3	14 900	77,4	70,8	14 000				22,0
24,0	73,2	70,7	14 500	75,7	70,2	13 700	78,5	69,2	11 500	24,0
26,0	71,5	70,0	13 000	74,0	69,5	13 500	76,8	68,5	11 000	26,0
28,0	69,8	69,2	11 500	72,3	68,7	12 100	75,1	67,7	10 600	28,0
30,0	68,1	68,4	10 300	70,6	67,9	10 800	73,3	66,9	10 200	30,0
32,0	66,4	67,5	9 200	68,9	67,0	9 600	71,6	65,9	9 800	32,0
34,0	64,6	66,5	8 200	67,1	66,0	8 700	69,8	65,0	9 200	34,0
36,0	62,8	65,5	7 400	65,3	64,9	7 800	67,9	63,9	8 200	36,0
38,0	61,0	64,3	6 700	63,4	63,8	7 000	66,0	62,7	7 400	38,0
40,0	59,1	63,1	6 000	61,6	62,6	6 300	64,1	61,5	6 700	40,0
42,0	57,2	61,8	5 400	59,6	61,2	5 700	62,2	60,2	6 100	42,0
44,0	55,3	60,4	4 900	57,7	59,8	5 200	60,2	58,7	5 500	44,0
46,0	53,3	58,9	4 400	55,7	58,3	4 600	58,1	57,2	4 900	46,0
48,0	51,3	57,3	3 900	53,6	56,6	4 200	56,0	55,5	4 400	48,0
50,0	49,2	55,5	3 500	51,5	54,9	3 800	53,9	53,7	4 000	50,0
52,0	47,0	53,6	3 200	49,3	53,0	3 400	51,6	51,8	3 600	52,0
54,0	44,7	51,6	2 800	47,0	50,9	3 000	49,2	49,6	3 200	54,0
56,0	42,4	49,4	2 500	44,6	48,6	2 700	46,8	47,4	2 800	56,0
58,0	39,9	47,0	2 200	42,0	46,2	2 300				58,0
60,0				39,4	43,5	2 000				60,0



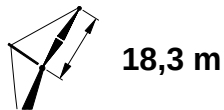
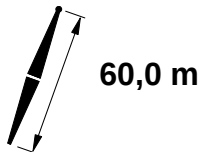
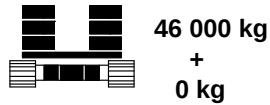
46 000 kg
+
0 kg

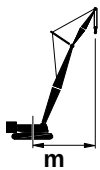
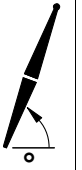
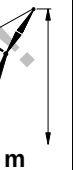


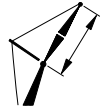
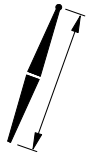
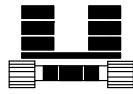
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
16,8	79,6	75,7	15 600							16,8
18,0	78,6	75,4	15 400							18,0
20,0	77,1	74,9	15 100	79,5	74,4	14 100				20,0
22,0	75,5	74,4	14 900	77,9	73,9	13 900				22,0
24,0	73,9	73,8	14 400	76,3	73,3	13 700				24,0
26,0	72,3	73,1	12 900	74,7	72,6	13 400	77,4	71,6	11 200	26,0
28,0	70,7	72,4	11 400	73,1	71,9	12 000	75,7	70,9	10 700	28,0
30,0	69,0	71,6	10 100	71,4	71,1	10 700	74,1	70,1	10 300	30,0
32,0	67,4	70,8	9 100	69,8	70,3	9 500	72,4	69,2	10 000	32,0
34,0	65,7	69,9	8 100	68,1	69,3	8 500	70,6	68,3	9 100	34,0
36,0	64,0	68,9	7 300	66,4	68,3	7 700	68,9	67,3	8 100	36,0
38,0	62,3	67,8	6 500	64,6	67,2	6 900	67,1	66,2	7 300	38,0
40,0	60,5	66,6	5 900	62,8	66,1	6 200	65,3	65,0	6 600	40,0
42,0	58,7	65,4	5 300	61,0	64,8	5 600	63,5	63,7	6 000	42,0
44,0	56,9	64,1	4 700	59,2	63,5	5 000	61,6	62,4	5 400	44,0
46,0	55,0	62,6	4 300	57,3	62,0	4 500	59,7	60,9	4 800	46,0
48,0	53,1	61,1	3 800	55,4	60,5	4 100	57,7	59,4	4 300	48,0
50,0	51,1	59,5	3 400	53,4	58,9	3 600	55,7	57,7	3 900	50,0
52,0	49,1	57,7	3 000	51,3	57,1	3 200	53,6	55,9	3 500	52,0
54,0	47,0	55,9	2 700	49,2	55,2	2 900	51,4	53,9	3 100	54,0
56,0	44,9	53,8	2 300	47,0	53,1	2 500	49,2	51,9	2 700	56,0
58,0				44,7	50,9	2 200	46,8	49,6	2 400	58,0
60,0							44,3	47,1	2 000	60,0

MLC165-1 S-1

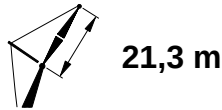
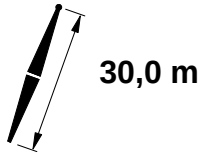
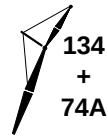
ASME B30.5

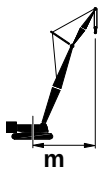
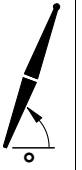


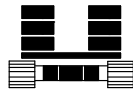
	5°			15°			25°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
18,3	78,9	78,4	15 200							18,3
20,0	77,6	78,1	15 000							20,0
22,0	76,1	77,5	14 700	78,4	77,0	13 900				22,0
24,0	74,5	77,0	14 300	76,9	76,5	13 700				24,0
26,0	73,0	76,3	12 700	75,3	75,8	13 400	77,9	74,8	11 300	26,0
28,0	71,4	75,6	11 200	73,8	75,1	11 800	76,3	74,1	10 900	28,0
30,0	69,9	74,9	10 000	72,2	74,4	10 500	74,7	73,3	10 500	30,0
32,0	68,3	74,1	8 900	70,6	73,5	9 400	73,1	72,5	10 000	32,0
34,0	66,7	73,2	7 900	69,0	72,6	8 400	71,5	71,6	8 900	34,0
36,0	65,1	72,2	7 100	67,4	71,7	7 500	69,8	70,6	8 000	36,0
38,0	63,4	71,2	6 400	65,7	70,7	6 800	68,1	69,6	7 200	38,0
40,0	61,8	70,1	5 700	64,0	69,6	6 100	66,4	68,5	6 500	40,0
42,0	60,1	69,0	5 100	62,3	68,4	5 400	64,7	67,3	5 800	42,0
44,0	58,3	67,7	4 600	60,6	67,1	4 900	62,9	66,0	5 200	44,0
46,0	56,6	66,4	4 100	58,8	65,8	4 400	61,1	64,6	4 700	46,0
48,0	54,8	64,9	3 600	57,0	64,3	3 900	59,2	63,2	4 200	48,0
50,0	52,9	63,4	3 200	55,1	62,8	3 500	57,3	61,6	3 700	50,0
52,0	51,0	61,8	2 800	53,2	61,1	3 100	55,4	59,9	3 300	52,0
54,0	49,1	60,0	2 500	51,2	59,3	2 700	53,4	58,1	2 900	54,0
56,0	47,1	58,1	2 100	49,2	57,4	2 300	51,3	56,2	2 600	56,0
58,0							49,1	54,1	2 200	58,0



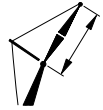
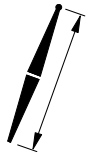
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m	°	m	kg	°	m	kg	°	m	kg	m
12,2	79,1	49,1	14 300							12,2
14,0	76,9	48,7	13 800							14,0
16,0	74,4	48,1	13 200							16,0
18,0	71,9	47,4	12 700	76,7	47,1	11 700				18,0
20,0	69,3	46,7	12 200	74,2	46,4	11 400	78,8	45,4	9 900	20,0
22,0	66,7	45,8	11 800	71,6	45,5	11 000	76,2	44,5	9 200	22,0
24,0	64,1	44,8	11 400	68,9	44,5	10 700	73,4	43,5	8 600	24,0
26,0	61,4	43,6	11 000	66,2	43,4	10 400	70,6	42,4	8 100	26,0
28,0	58,6	42,4	10 600	63,3	42,1	10 100	67,7	41,1	7 700	28,0
30,0	55,7	41,0	10 200	60,4	40,7	9 600	64,8	39,7	7 300	30,0
32,0	52,7	39,5	9 900	57,4	39,2	9 000	61,6	38,1	6 900	32,0
34,0	49,5	37,7	9 600	54,3	37,5	8 500	58,4	36,3	6 600	34,0
36,0	46,2	35,8	8 900	50,9	35,5	8 000	54,9	34,3	6 300	36,0
38,0	42,7	33,6	8 200	47,4	33,4	7 600	51,3	32,0	6 100	38,0
40,0	39,0	31,1	7 500	43,6	30,9	7 300	47,3	29,4	5 800	40,0
42,0	34,8	28,3	6 900	39,4	28,0	7 000				42,0
44,0	30,2	24,9	6 400	34,7	24,6	6 500				44,0
46,0	24,6	20,7	5 900							46,0

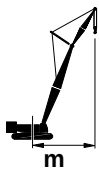
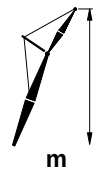
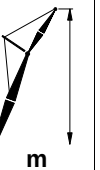


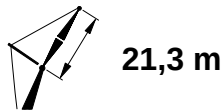
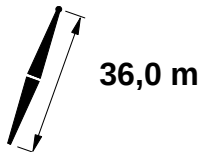
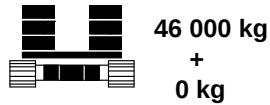
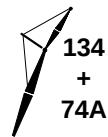
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	78,0	51,9	13 900							13,7
14,0	77,6	51,8	13 900							14,0
16,0	75,3	51,2	13 300							16,0
18,0	73,0	50,6	12 900	77,6	50,3	11 800				18,0
20,0	70,6	49,9	12 400	75,2	49,6	11 500				20,0
22,0	68,2	49,0	12 000	72,7	48,7	11 100	77,1	47,7	9 400	22,0
24,0	65,7	48,1	11 600	70,3	47,8	10 800	74,5	46,8	8 900	24,0
26,0	63,2	47,1	11 200	67,7	46,8	10 600	71,9	45,7	8 400	26,0
28,0	60,6	45,9	10 800	65,1	45,6	10 300	69,3	44,6	7 900	28,0
30,0	58,0	44,7	10 500	62,5	44,4	10 000	66,5	43,3	7 500	30,0
32,0	55,2	43,2	10 200	59,7	43,0	9 400	63,7	41,8	7 200	32,0
34,0	52,4	41,7	9 500	56,9	41,4	8 900	60,8	40,2	6 800	34,0
36,0	49,5	39,9	8 700	53,9	39,7	8 400	57,7	38,4	6 500	36,0
38,0	46,4	38,0	8 000	50,8	37,7	8 000	54,5	36,4	6 300	38,0
40,0	43,1	35,9	7 300	47,4	35,6	7 500	51,0	34,2	6 100	40,0
42,0	39,6	33,4	6 700	43,9	33,2	6 900	47,3	31,7	5 900	42,0
44,0	35,7	30,7	6 200	40,0	30,4	6 300	43,2	28,7	5 700	44,0
46,0	31,5	27,4	5 700	35,8	27,1	5 800				46,0
48,0	26,6	23,6	5 200							48,0
50,0	20,6	18,5	4 800							50,0

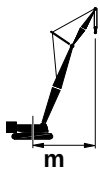
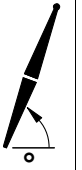
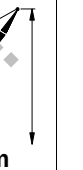


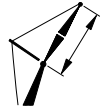
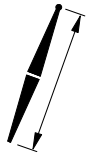
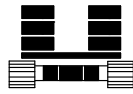
46 000 kg
+
0 kg



	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	78,6	54,9	14 000							13,7
14,0	78,3	54,9	13 900							14,0
16,0	76,2	54,4	13 500							16,0
18,0	74,0	53,8	13 000	78,3	53,4	11 900				18,0
20,0	71,7	53,1	12 600	76,0	52,8	11 600				20,0
22,0	69,5	52,3	12 100	73,8	52,0	11 200	77,9	51,0	9 600	22,0
24,0	67,2	51,5	11 700	71,4	51,1	11 000	75,5	50,1	9 100	24,0
26,0	64,8	50,5	11 400	69,1	50,2	10 700	73,1	49,1	8 600	26,0
28,0	62,4	49,4	11 000	66,7	49,1	10 400	70,6	48,0	8 100	28,0
30,0	60,0	48,2	10 700	64,2	47,9	10 200	68,1	46,8	7 700	30,0
32,0	57,5	46,9	10 300	61,7	46,6	9 800	65,5	45,5	7 400	32,0
34,0	54,9	45,5	9 400	59,1	45,2	9 300	62,8	44,0	7 000	34,0
36,0	52,2	43,9	8 600	56,4	43,6	8 800	60,0	42,4	6 800	36,0
38,0	49,4	42,2	7 800	53,6	41,9	8 100	57,1	40,6	6 500	38,0
40,0	46,5	40,3	7 200	50,6	40,0	7 400	54,1	38,6	6 300	40,0
42,0	43,4	38,2	6 600	47,5	37,9	6 800	50,9	36,4	6 000	42,0
44,0	40,1	35,8	6 000	44,2	35,5	6 200	47,4	33,9	5 900	44,0
46,0	36,6	33,1	5 500	40,6	32,8	5 700				46,0
48,0	32,7	30,0	5 100	36,7	29,7	5 200				48,0
50,0	28,3	26,4	4 700	32,3	26,0	4 800				50,0



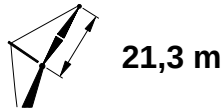
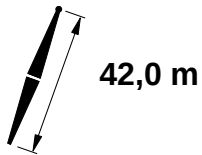
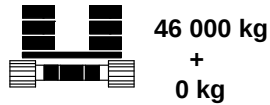
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	79,3	58,0	14 000							13,7
14,0	79,0	58,0	14 000							14,0
16,0	76,9	57,5	13 500							16,0
18,0	74,8	56,9	13 100							18,0
20,0	72,7	56,3	12 700							20,0
				76,8	55,9	11 600				
22,0	70,6	55,5	12 300	74,7	55,2	11 300	78,5	54,1	9 800	22,0
24,0	68,4	54,7	11 900	72,5	54,4	11 000	76,3	53,3	9 200	24,0
26,0	66,2	53,8	11 500	70,3	53,5	10 800	74,1	52,4	8 800	26,0
28,0	64,0	52,8	11 200	68,0	52,5	10 500	71,8	51,4	8 300	28,0
30,0	61,7	51,7	10 900	65,7	51,4	10 300	69,4	50,3	7 900	30,0
32,0	59,4	50,5	10 100	63,4	50,2	10 100	67,0	49,0	7 600	32,0
34,0	57,0	49,2	9 200	61,0	48,9	9 600	64,5	47,7	7 300	34,0
36,0	54,5	47,7	8 400	58,5	47,4	8 700	62,0	46,2	7 000	36,0
38,0	52,0	46,2	7 600	55,9	45,8	7 900	59,4	44,6	6 700	38,0
40,0	49,3	44,4	7 000	53,3	44,1	7 300	56,6	42,8	6 500	40,0
42,0	46,6	42,5	6 400	50,5	42,2	6 600	53,7	40,8	6 200	42,0
44,0	43,7	40,4	5 800	47,5	40,1	6 100	50,7	38,6	6 000	44,0
46,0	40,6	38,1	5 400	44,4	37,7	5 600	47,4	36,2	5 700	46,0
48,0	37,3	35,4	4 900	41,1	35,1	5 100	43,9	33,4	5 200	48,0
50,0	33,7	32,4	4 500	37,5	32,1	4 600				50,0
52,0	29,7	29,0	4 100	33,4	28,6	4 200				52,0
54,0	25,1	24,8	3 800							54,0

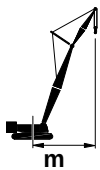
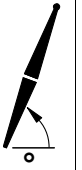
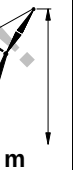


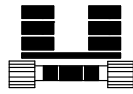
	5°			15°			25°			
m	°	m	kg	°	m	kg	°	m	kg	m
15,2	78,3	60,7	13 800							15,2
16,0	77,6	60,6	13 600							16,0
18,0	75,6	60,0	13 200							18,0
20,0	73,6	59,4	12 700	77,5	59,1	11 700				20,0
22,0	71,6	58,7	12 400	75,5	58,4	11 400				22,0
24,0	69,6	58,0	12 000	73,4	57,6	11 100	77,1	56,5	9 400	24,0
26,0	67,5	57,1	11 700	71,4	56,8	10 900	75,0	55,7	8 900	26,0
28,0	65,4	56,2	11 400	69,2	55,9	10 600	72,8	54,7	8 500	28,0
30,0	63,3	55,2	10 900	67,1	54,8	10 400	70,6	53,7	8 100	30,0
32,0	61,1	54,0	10 000	64,9	53,7	10 200	68,4	52,5	7 800	32,0
34,0	58,9	52,8	9 000	62,7	52,5	9 500	66,1	51,3	7 400	34,0
36,0	56,6	51,5	8 200	60,4	51,1	8 600	63,7	49,9	7 100	36,0
38,0	54,2	50,0	7 500	58,0	49,7	7 800	61,3	48,4	6 900	38,0
40,0	51,8	48,4	6 800	55,5	48,1	7 100	58,8	46,8	6 600	40,0
42,0	49,3	46,7	6 200	53,0	46,4	6 500	56,2	45,0	6 400	42,0
44,0	46,7	44,8	5 700	50,4	44,4	5 900	53,4	43,0	6 100	44,0
46,0	43,9	42,7	5 200	47,6	42,4	5 400	50,5	40,8	5 600	46,0
48,0	41,0	40,4	4 700	44,7	40,0	5 000	47,5	38,4	5 100	48,0
50,0	37,9	37,8	4 300	41,5	37,5	4 500	44,2	35,7	4 700	50,0
52,0	34,6	34,9	4 000	38,2	34,6	4 100				52,0
54,0	30,9	31,6	3 600	34,5	31,2	3 700				54,0
56,0	26,8	27,7	3 300							56,0

MLC165-1 S-1

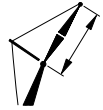
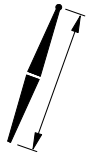
ASME B30.5

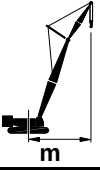
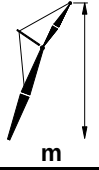
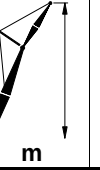


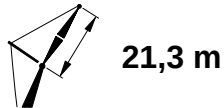
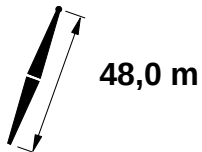
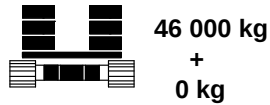
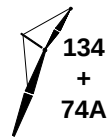
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
15,2	78,9	63,8	13 700							15,2
16,0	78,2	63,7	13 600							16,0
18,0	76,3	63,1	13 200							18,0
20,0	74,4	62,6	12 800	78,1	62,2	11 700				20,0
22,0	72,5	61,9	12 400	76,2	61,5	11 500				22,0
24,0	70,6	61,2	12 100	74,3	60,8	11 200	77,7	59,7	9 600	24,0
26,0	68,6	60,4	11 800	72,3	60,0	11 000	75,7	58,9	9 100	26,0
28,0	66,7	59,5	11 500	70,3	59,1	10 700	73,7	58,0	8 700	28,0
30,0	64,6	58,5	10 900	68,3	58,2	10 500	71,7	57,0	8 300	30,0
32,0	62,6	57,5	9 800	66,2	57,1	10 300	69,5	55,9	7 900	32,0
34,0	60,5	56,3	8 800	64,1	56,0	9 300	67,4	54,8	7 600	34,0
36,0	58,4	55,1	8 000	62,0	54,7	8 400	65,2	53,5	7 300	36,0
38,0	56,2	53,7	7 300	59,8	53,4	7 600	62,9	52,1	7 100	38,0
40,0	53,9	52,2	6 600	57,5	51,9	6 900	60,6	50,6	6 800	40,0
42,0	51,6	50,6	6 000	55,2	50,3	6 300	58,2	48,9	6 500	42,0
44,0	49,2	48,9	5 500	52,8	48,6	5 800	55,7	47,1	6 000	44,0
46,0	46,7	47,0	5 000	50,2	46,7	5 300	53,1	45,2	5 500	46,0
48,0	44,1	44,9	4 600	47,6	44,6	4 800	50,4	43,0	5 000	48,0
50,0	41,4	42,6	4 100	44,8	42,3	4 400	47,5	40,7	4 500	50,0
52,0	38,5	40,1	3 800	41,9	39,8	4 000	44,5	38,0	4 100	52,0
54,0	35,3	37,3	3 400	38,7	36,9	3 600				54,0
56,0	31,9	34,1	3 100	35,3	33,7	3 200				56,0
58,0	28,1	30,5	2 800							58,0
60,0	23,8	26,1	2 500							60,0

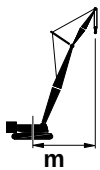
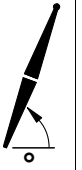
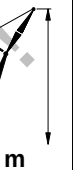


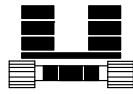
46 000 kg
+
0 kg



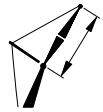
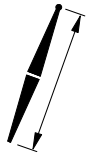
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
15,2	79,4	66,9	13 800							15,2
16,0	78,7	66,7	13 600							16,0
18,0	76,9	66,2	13 200							18,0
20,0	75,1	65,7	12 900	78,7	65,3	11 700				20,0
22,0	73,3	65,1	12 500	76,9	64,7	11 500				22,0
24,0	71,5	64,4	12 200	75,0	64,0	11 200	78,3	62,9	9 700	24,0
26,0	69,7	63,6	11 900	73,2	63,2	11 000	76,5	62,1	9 300	26,0
28,0	67,8	62,8	11 600	71,3	62,4	10 800	74,5	61,3	8 900	28,0
30,0	65,9	61,9	10 900	69,4	61,5	10 600	72,6	60,3	8 500	30,0
32,0	63,9	60,9	9 800	67,4	60,5	10 300	70,6	59,3	8 100	32,0
34,0	62,0	59,8	8 900	65,4	59,4	9 300	68,6	58,2	7 800	34,0
36,0	60,0	58,6	8 000	63,4	58,2	8 400	66,5	57,0	7 500	36,0
38,0	57,9	57,3	7 300	61,4	57,0	7 700	64,4	55,7	7 200	38,0
40,0	55,8	56,0	6 600	59,2	55,6	7 000	62,2	54,3	7 000	40,0
42,0	53,7	54,5	6 000	57,1	54,1	6 400	60,0	52,8	6 600	42,0
44,0	51,5	52,9	5 500	54,8	52,5	5 800	57,7	51,1	6 100	44,0
46,0	49,2	51,1	5 000	52,5	50,8	5 300	55,3	49,3	5 500	46,0
48,0	46,8	49,2	4 600	50,1	48,9	4 800	52,9	47,4	5 000	48,0
50,0	44,3	47,2	4 200	47,6	46,8	4 400	50,3	45,2	4 600	50,0
52,0	41,7	44,9	3 800	45,0	44,5	4 000	47,6	42,9	4 200	52,0
54,0	38,9	42,4	3 500	42,2	42,0	3 600	44,7	40,3	3 800	54,0
56,0	36,0	39,7	3 100	39,3	39,3	3 300				56,0
58,0	32,8	36,6	2 800	36,0	36,2	3 000				58,0
60,0	29,3	33,1	2 500	32,5	32,6	2 700				60,0
62,0	25,4	29,0	2 300							62,0
64,0	20,7	23,9	2 000							64,0

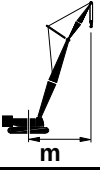
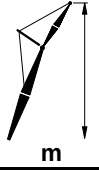
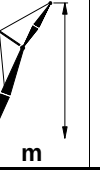


	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
16,8	78,6	69,6	13 500							16,8
18,0	77,5	69,3	13 200							18,0
20,0	75,8	68,8	12 900	79,2	68,4	11 700				20,0
22,0	74,1	68,2	12 600	77,5	67,8	11 500				22,0
24,0	72,3	67,6	12 200	75,7	67,2	11 300				24,0
26,0	70,6	66,9	11 900	73,9	66,5	11 100	77,1	65,3	9 400	26,0
28,0	68,8	66,1	11 600	72,1	65,7	10 800	75,3	64,5	9 000	28,0
30,0	67,0	65,2	10 800	70,3	64,8	10 600	73,4	63,6	8 600	30,0
32,0	65,2	64,2	9 600	68,5	63,9	10 100	71,5	62,7	8 300	32,0
34,0	63,3	63,2	8 700	66,6	62,8	9 100	69,6	61,6	8 000	34,0
36,0	61,4	62,1	7 800	64,7	61,7	8 300	67,7	60,5	7 700	36,0
38,0	59,5	60,9	7 100	62,8	60,5	7 500	65,7	59,3	7 400	38,0
40,0	57,5	59,6	6 500	60,8	59,3	6 800	63,7	58,0	7 100	40,0
42,0	55,5	58,2	5 900	58,8	57,9	6 200	61,6	56,5	6 500	42,0
44,0	53,5	56,7	5 300	56,7	56,4	5 600	59,5	55,0	5 900	44,0
46,0	51,3	55,1	4 800	54,6	54,8	5 100	57,3	53,3	5 400	46,0
48,0	49,1	53,4	4 400	52,3	53,0	4 700	55,0	51,5	4 900	48,0
50,0	46,9	51,5	4 000	50,1	51,1	4 200	52,7	49,6	4 400	50,0
52,0	44,5	49,4	3 600	47,7	49,1	3 800	50,2	47,5	4 000	52,0
54,0	42,0	47,2	3 300	45,2	46,8	3 500	47,6	45,2	3 600	54,0
56,0	39,4	44,8	2 900	42,5	44,4	3 100	44,9	42,6	3 300	56,0
58,0	36,6	42,1	2 600	39,7	41,7	2 800				58,0
60,0	33,7	39,1	2 400	36,7	38,7	2 500				60,0
62,0	30,4	35,7	2 100	33,5	35,3	2 200				62,0
64,0	26,8	31,8	1 800							64,0



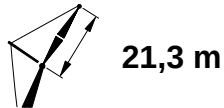
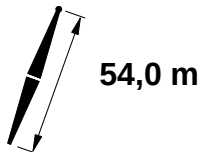
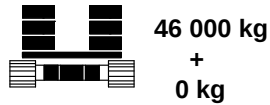
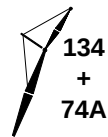
46 000 kg
+
0 kg

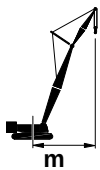
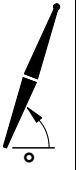
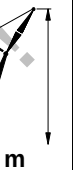


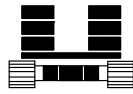
	5°			15°			25°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
16,8	79,1	72,7	13 400							16,8
18,0	78,0	72,4	13 200							18,0
20,0	76,4	71,9	12 900							20,0
22,0	74,8	71,4	12 600	78,0	70,9	11 500				22,0
24,0	73,1	70,7	12 300	76,3	70,3	11 300				24,0
26,0	71,4	70,0	11 900	74,6	69,6	11 100	77,7	68,5	9 600	26,0
28,0	69,7	69,3	11 600	72,9	68,9	10 900	75,9	67,7	9 200	28,0
30,0	68,0	68,5	10 600	71,2	68,1	10 700	74,2	66,9	8 800	30,0
32,0	66,3	67,6	9 500	69,5	67,2	10 000	72,4	66,0	8 400	32,0
34,0	64,5	66,6	8 500	67,7	66,2	9 000	70,6	65,0	8 100	34,0
36,0	62,7	65,5	7 700	65,9	65,2	8 100	68,8	63,9	7 800	36,0
38,0	60,9	64,4	6 900	64,1	64,0	7 400	66,9	62,8	7 600	38,0
40,0	59,0	63,2	6 300	62,2	62,8	6 700	65,0	61,5	7 100	40,0
42,0	57,2	61,9	5 700	60,3	61,5	6 100	63,0	60,2	6 400	42,0
44,0	55,2	60,5	5 200	58,3	60,1	5 500	61,0	58,7	5 800	44,0
46,0	53,2	59,0	4 700	56,3	58,6	5 000	59,0	57,2	5 300	46,0
48,0	51,2	57,3	4 200	54,3	57,0	4 500	56,9	55,5	4 800	48,0
50,0	49,1	55,6	3 800	52,2	55,2	4 100	54,7	53,7	4 300	50,0
52,0	46,9	53,7	3 500	50,0	53,3	3 700	52,4	51,8	3 900	52,0
54,0	44,6	51,7	3 100	47,7	51,3	3 300	50,1	49,7	3 500	54,0
56,0	42,3	49,5	2 800	45,3	49,1	3 000	47,6	47,4	3 100	56,0
58,0	39,8	47,1	2 500	42,8	46,7	2 700	45,0	44,9	2 800	58,0
60,0	37,2	44,4	2 200	40,2	44,0	2 400				60,0
62,0	34,4	41,5	1 900	37,3	41,1	2 100				62,0
64,0				34,3	37,8	1 800				64,0

MLC165-1 S-1

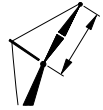
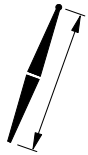
ASME B30.5

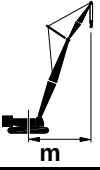
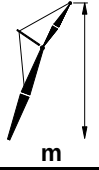
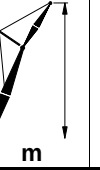


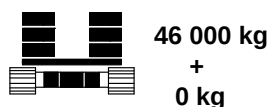
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
16,8	79,5	75,8	13 300							16,8
18,0	78,5	75,5	13 100							18,0
20,0	77,0	75,0	12 800							20,0
22,0	75,4	74,5	12 500	78,5	74,1	11 500				22,0
24,0	73,8	73,9	12 200	76,9	73,5	11 300				24,0
26,0	72,2	73,2	11 900	75,3	72,8	11 100	78,2	71,6	9 700	26,0
28,0	70,6	72,5	11 500	73,7	72,1	10 900	76,5	70,9	9 300	28,0
30,0	68,9	71,7	10 400	72,0	71,3	10 700	74,9	70,1	8 900	30,0
32,0	67,3	70,9	9 300	70,3	70,5	9 800	73,2	69,3	8 600	32,0
34,0	65,6	69,9	8 300	68,7	69,6	8 900	71,5	68,3	8 300	34,0
36,0	63,9	69,0	7 500	67,0	68,6	8 000	69,7	67,3	8 000	36,0
38,0	62,2	67,9	6 800	65,2	67,5	7 200	67,9	66,2	7 600	38,0
40,0	60,4	66,7	6 100	63,5	66,3	6 500	66,1	65,0	6 900	40,0
42,0	58,6	65,5	5 500	61,7	65,1	5 900	64,3	63,8	6 200	42,0
44,0	56,8	64,2	5 000	59,8	63,8	5 300	62,4	62,4	5 700	44,0
46,0	55,0	62,7	4 500	57,9	62,4	4 800	60,5	61,0	5 100	46,0
48,0	53,0	61,2	4 000	56,0	60,8	4 300	58,5	59,4	4 600	48,0
50,0	51,1	59,6	3 600	54,0	59,2	3 900	56,5	57,7	4 200	50,0
52,0	49,1	57,8	3 300	52,0	57,5	3 500	54,4	55,9	3 700	52,0
54,0	47,0	56,0	2 900	49,9	55,6	3 200	52,3	54,0	3 400	54,0
56,0	44,8	53,9	2 600	47,7	53,5	2 800	50,0	51,9	3 000	56,0
58,0	42,5	51,8	2 300	45,4	51,4	2 500	47,7	49,6	2 700	58,0
60,0	40,2	49,4	2 000	43,1	49,0	2 200	45,2	47,2	2 300	60,0
62,0				40,6	46,4	1 900	42,6	44,5	2 000	62,0



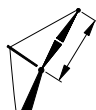
46 000 kg
+
0 kg



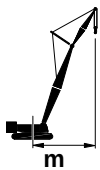
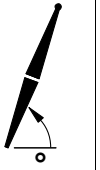
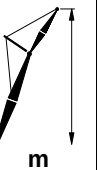
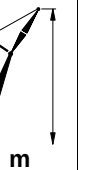
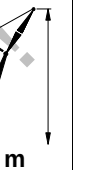
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
18,3	78,8	78,5	12 900							18,3
20,0	77,5	78,1	12 700							20,0
22,0	76,0	77,6	12 400	78,9	77,2	11 500				22,0
24,0	74,4	77,0	12 100	77,4	76,6	11 300				24,0
26,0	72,9	76,4	11 800	75,9	76,0	11 100	78,7	74,8	9 800	26,0
28,0	71,4	75,7	11 400	74,3	75,3	10 900	77,1	74,1	9 400	28,0
30,0	69,8	74,9	10 200	72,7	74,5	10 700	75,5	73,3	9 100	30,0
32,0	68,2	74,1	9 100	71,2	73,7	9 700	73,9	72,5	8 700	32,0
34,0	66,6	73,2	8 200	69,5	72,8	8 700	72,2	71,6	8 400	34,0
36,0	65,0	72,3	7 400	67,9	71,9	7 900	70,6	70,6	8 100	36,0
38,0	63,3	71,3	6 600	66,3	70,9	7 100	68,9	69,6	7 500	38,0
40,0	61,7	70,2	6 000	64,6	69,8	6 400	67,2	68,5	6 800	40,0
42,0	60,0	69,0	5 400	62,9	68,6	5 800	65,5	67,3	6 100	42,0
44,0	58,3	67,8	4 800	61,1	67,4	5 200	63,7	66,0	5 500	44,0
46,0	56,5	66,4	4 400	59,4	66,0	4 700	61,9	64,6	5 000	46,0
48,0	54,7	65,0	3 900	57,6	64,6	4 200	60,0	63,2	4 500	48,0
50,0	52,9	63,5	3 500	55,7	63,1	3 800	58,1	61,6	4 100	50,0
52,0	51,0	61,8	3 100	53,8	61,4	3 400	56,2	59,9	3 600	52,0
54,0	49,0	60,1	2 800	51,8	59,7	3 000	54,2	58,1	3 300	54,0
56,0	47,0	58,2	2 500	49,8	57,8	2 700	52,1	56,2	2 900	56,0
58,0	44,9	56,2	2 100	47,7	55,8	2 400	49,9	54,1	2 600	58,0
60,0				45,5	53,6	2 000	47,7	51,9	2 200	60,0
62,0							45,3	49,4	1 900	62,0

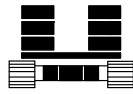


60,0 m

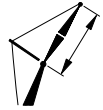
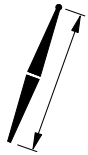


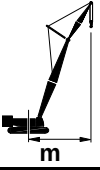
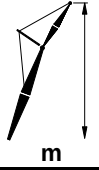
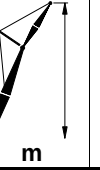
21,3 m

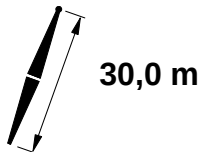
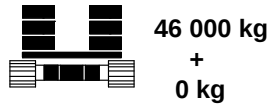
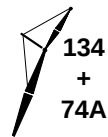
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
18,3	79,2	81,6	12 700							18,3
20,0	77,9	81,2	12 500							20,0
22,0	76,5	80,7	12 300							22,0
24,0	75,0	80,2	12 000	77,9	79,7	11 200				24,0
26,0	73,6	79,6	11 700	76,4	79,1	11 100	79,1	77,9	9 900	26,0
28,0	72,1	78,9	11 300	74,9	78,5	10 900	77,6	77,3	9 600	28,0
30,0	70,6	78,2	10 100	73,4	77,8	10 600	76,1	76,5	9 200	30,0
32,0	69,1	77,4	9 000	71,9	77,0	9 600	74,5	75,7	8 900	32,0
34,0	67,5	76,6	8 000	70,4	76,1	8 600	73,0	74,9	8 500	34,0
36,0	66,0	75,6	7 200	68,8	75,2	7 700	71,4	74,0	8 100	36,0
38,0	64,4	74,7	6 400	67,2	74,3	6 900	69,8	73,0	7 400	38,0
40,0	62,8	73,6	5 800	65,6	73,2	6 200	68,2	71,9	6 700	40,0
42,0	61,2	72,5	5 200	64,0	72,1	5 600	66,5	70,8	6 000	42,0
44,0	59,6	71,3	4 700	62,4	70,9	5 000	64,8	69,6	5 400	44,0
46,0	57,9	70,1	4 200	60,7	69,7	4 500	63,1	68,3	4 900	46,0
48,0	56,2	68,7	3 700	59,0	68,3	4 100	61,4	66,9	4 400	48,0
50,0	54,5	67,3	3 300	57,2	66,9	3 600	59,6	65,4	3 900	50,0
52,0	52,7	65,7	2 900	55,4	65,3	3 200	57,7	63,8	3 500	52,0
54,0	50,9	64,1	2 600	53,6	63,7	2 900	55,9	62,2	3 100	54,0
56,0	49,0	62,3	2 200	51,7	61,9	2 500	53,9	60,4	2 700	56,0
58,0				49,8	60,0	2 100	51,9	58,4	2 400	58,0
60,0							49,9	56,4	2 000	60,0

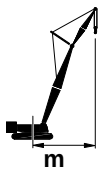
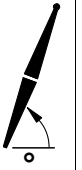
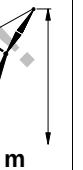


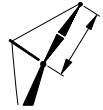
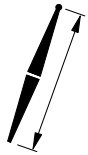
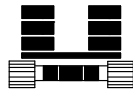
46 000 kg
+
0 kg

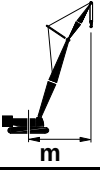
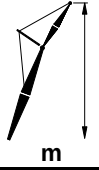
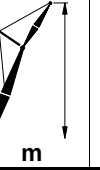


	5°			15°			25°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
12,2	79,6	52,3	10 800							12,2
14,0	77,6	51,9	10 600							14,0
16,0	75,3	51,4	10 200							16,0
18,0	72,9	50,8	9 900	77,8	50,4	10 000				18,0
20,0	70,6	50,1	9 600	75,4	49,7	9 700				20,0
22,0	68,2	49,3	9 300	73,0	48,9	9 400	78,1	47,9	8 400	22,0
24,0	65,7	48,3	9 000	70,5	48,0	9 100	75,6	47,0	7 900	24,0
26,0	63,2	47,3	8 800	68,0	46,9	8 800	73,0	45,9	7 400	26,0
28,0	60,6	46,2	8 500	65,4	45,8	8 500	70,3	44,8	6 900	28,0
30,0	58,0	44,9	8 300	62,8	44,5	8 200	67,6	43,5	6 600	30,0
32,0	55,3	43,5	8 100	60,0	43,1	8 000	64,8	42,0	6 200	32,0
34,0	52,5	42,0	7 900	57,2	41,6	7 700	61,9	40,4	5 900	34,0
36,0	49,6	40,3	7 700	54,2	39,8	7 300	58,8	38,7	5 600	36,0
38,0	46,5	38,4	7 400	51,1	37,9	6 900	55,6	36,7	5 400	38,0
40,0	43,2	36,3	7 200	47,8	35,8	6 500	52,2	34,4	5 100	40,0
42,0	39,8	33,9	6 900	44,3	33,4	6 200	48,5	31,9	4 900	42,0
44,0	36,0	31,2	6 400	40,5	30,6	5 900	44,5	29,0	4 800	44,0
46,0	31,9	28,1	5 900	36,2	27,4	5 700				46,0
48,0	27,1	24,3	5 500	31,3	23,5	5 500				48,0
50,0	21,4	19,6	5 100							50,0



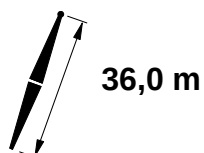
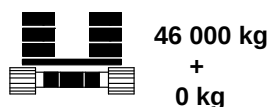
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	78,6	55,1	10 600							13,7
14,0	78,3	55,0	10 500							14,0
16,0	76,1	54,5	10 200							16,0
18,0	73,9	53,9	9 900							18,0
20,0	71,7	53,2	9 600	76,3	52,9	9 700				20,0
22,0	69,4	52,5	9 300	74,0	52,1	9 400	78,8	51,1	8 600	22,0
24,0	67,1	51,6	9 000	71,7	51,2	9 200	76,4	50,2	8 100	24,0
26,0	64,8	50,7	8 800	69,4	50,3	8 900	74,0	49,3	7 600	26,0
28,0	62,4	49,6	8 500	67,0	49,2	8 700	71,6	48,2	7 100	28,0
30,0	60,0	48,5	8 300	64,5	48,0	8 400	69,1	47,0	6 800	30,0
32,0	57,5	47,2	8 100	62,0	46,8	8 100	66,5	45,6	6 400	32,0
34,0	54,9	45,8	7 900	59,4	45,3	7 900	63,8	44,2	6 100	34,0
36,0	52,2	44,2	7 700	56,7	43,8	7 600	61,0	42,6	5 800	36,0
38,0	49,5	42,5	7 600	53,9	42,0	7 200	58,1	40,8	5 600	38,0
40,0	46,6	40,6	7 400	50,9	40,1	6 900	55,1	38,8	5 300	40,0
42,0	43,5	38,5	6 800	47,8	38,0	6 500	51,9	36,6	5 100	42,0
44,0	40,3	36,2	6 200	44,5	35,6	6 200	48,5	34,1	4 900	44,0
46,0	36,8	33,6	5 700	41,0	32,9	5 900	44,7	31,3	4 800	46,0
48,0	33,0	30,6	5 300	37,1	29,9	5 400				48,0
50,0	28,7	27,0	4 900	32,7	26,2	5 000				50,0
52,0	23,7	22,7	4 500							52,0

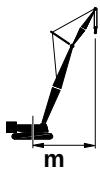
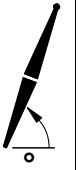
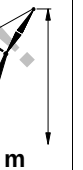


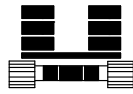
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
13,7	79,2	58,1	10 600							13,7
14,0	78,9	58,1	10 500							14,0
16,0	76,8	57,6	10 200							16,0
18,0	74,8	57,1	9 900							18,0
20,0	72,7	56,4	9 600	77,0	56,0	9 700				20,0
22,0	70,6	55,7	9 300	74,9	55,3	9 500				22,0
24,0	68,4	54,9	9 100	72,7	54,5	9 200	77,2	53,5	8 200	24,0
26,0	66,2	54,0	8 800	70,5	53,6	9 000	75,0	52,6	7 800	26,0
28,0	64,0	53,1	8 600	68,3	52,6	8 800	72,7	51,5	7 300	28,0
30,0	61,7	52,0	8 300	66,0	51,5	8 500	70,4	50,4	6 900	30,0
32,0	59,4	50,8	8 100	63,7	50,3	8 300	68,0	49,2	6 600	32,0
34,0	57,0	49,5	7 900	61,3	49,0	8 100	65,5	47,9	6 300	34,0
36,0	54,6	48,1	7 700	58,8	47,6	7 800	62,9	46,4	6 000	36,0
38,0	52,0	46,5	7 500	56,2	46,0	7 600	60,3	44,8	5 800	38,0
40,0	49,4	44,8	7 200	53,6	44,3	7 200	57,6	43,0	5 500	40,0
42,0	46,7	42,9	6 600	50,8	42,4	6 800	54,7	41,0	5 300	42,0
44,0	43,8	40,8	6 100	47,9	40,3	6 300	51,7	38,8	5 100	44,0
46,0	40,7	38,5	5 600	44,8	37,9	5 800	48,5	36,4	4 900	46,0
48,0	37,5	36,0	5 200	41,5	35,3	5 300	45,0	33,6	4 800	48,0
50,0	34,0	33,0	4 700	37,9	32,3	4 900	41,2	30,5	4 700	50,0
52,0	30,1	29,7	4 400	33,9	28,9	4 500				52,0
54,0	25,6	25,7	4 000							54,0
56,0	20,2	20,6	3 700							56,0

MLC165-1 S-1

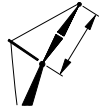
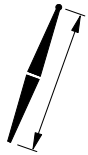
ASME B30.5

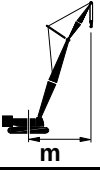
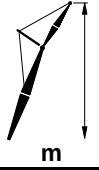
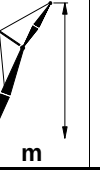


	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
15,2	78,3	60,9	10 300							15,2
16,0	77,5	60,7	10 200							16,0
18,0	75,5	60,2	9 900							18,0
20,0	73,6	59,6	9 600	77,7	59,2	9 700				20,0
22,0	71,6	58,9	9 300	75,7	58,5	9 500				22,0
24,0	69,5	58,2	9 100	73,7	57,7	9 200	77,9	56,7	8 400	24,0
26,0	67,5	57,3	8 800	71,6	56,9	9 000	75,8	55,8	7 900	26,0
28,0	65,4	56,4	8 600	69,5	56,0	8 800	73,7	54,9	7 500	28,0
30,0	63,3	55,4	8 300	67,3	54,9	8 600	71,5	53,8	7 100	30,0
32,0	61,1	54,3	8 100	65,1	53,8	8 400	69,2	52,7	6 800	32,0
34,0	58,9	53,1	7 900	62,9	52,6	8 200	66,9	51,4	6 500	34,0
36,0	56,6	51,7	7 700	60,6	51,3	7 900	64,6	50,0	6 200	36,0
38,0	54,3	50,3	7 600	58,2	49,8	7 700	62,2	48,6	5 900	38,0
40,0	51,8	48,7	7 000	55,8	48,2	7 400	59,7	46,9	5 700	40,0
42,0	49,3	47,0	6 400	53,3	46,5	6 700	57,0	45,1	5 500	42,0
44,0	46,7	45,1	5 900	50,6	44,6	6 200	54,3	43,2	5 300	44,0
46,0	44,0	43,1	5 400	47,9	42,5	5 600	51,5	41,0	5 100	46,0
48,0	41,1	40,8	5 000	45,0	40,2	5 200	48,4	38,6	4 900	48,0
50,0	38,1	38,3	4 600	41,9	37,6	4 700	45,2	35,9	4 800	50,0
52,0	34,8	35,4	4 200	38,5	34,7	4 300				52,0
54,0	31,2	32,2	3 800	34,8	31,4	4 000				54,0
56,0	27,1	28,4	3 500	30,6	27,5	3 600				56,0
58,0	22,4	23,9	3 200							58,0



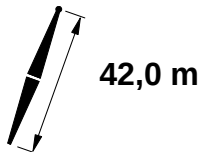
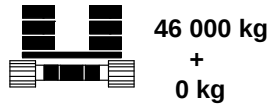
46 000 kg
+
0 kg

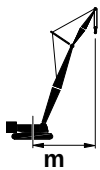
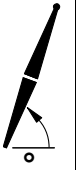
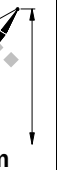


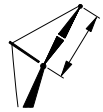
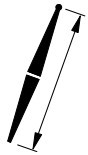
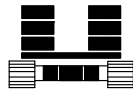
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
15,2	78,8	64,0	10 300							15,2
16,0	78,1	63,8	10 200							16,0
18,0	76,3	63,3	9 900							18,0
20,0	74,4	62,7	9 600	78,3	62,3	9 700				20,0
22,0	72,5	62,1	9 400	76,4	61,7	9 500				22,0
24,0	70,6	61,4	9 100	74,5	61,0	9 200	78,6	59,9	8 600	24,0
26,0	68,6	60,6	8 800	72,5	60,2	9 000	76,6	59,0	8 100	26,0
28,0	66,6	59,7	8 600	70,5	59,3	8 800	74,5	58,2	7 700	28,0
30,0	64,6	58,8	8 400	68,5	58,3	8 600	72,5	57,2	7 300	30,0
32,0	62,6	57,7	8 200	66,5	57,3	8 500	70,4	56,1	7 000	32,0
34,0	60,5	56,6	8 000	64,4	56,1	8 300	68,2	54,9	6 600	34,0
36,0	58,4	55,4	7 800	62,2	54,9	8 100	66,0	53,7	6 400	36,0
38,0	56,2	54,0	7 500	60,0	53,5	7 900	63,8	52,3	6 100	38,0
40,0	54,0	52,6	6 800	57,8	52,1	7 200	61,5	50,8	5 900	40,0
42,0	51,7	51,0	6 300	55,4	50,5	6 600	59,1	49,1	5 600	42,0
44,0	49,3	49,3	5 700	53,0	48,7	6 000	56,6	47,3	5 400	44,0
46,0	46,8	47,4	5 200	50,5	46,8	5 500	54,0	45,4	5 300	46,0
48,0	44,2	45,3	4 800	47,9	44,8	5 000	51,3	43,2	5 100	48,0
50,0	41,5	43,1	4 400	45,2	42,5	4 600	48,4	40,9	4 800	50,0
52,0	38,6	40,6	4 000	42,2	40,0	4 200	45,4	38,2	4 400	52,0
54,0	35,6	37,9	3 700	39,1	37,2	3 800	42,1	35,3	4 000	54,0
56,0	32,2	34,8	3 300	35,7	34,0	3 500				56,0
58,0	28,5	31,2	3 000	31,9	30,3	3 200				58,0
60,0	24,3	26,9	2 800							60,0

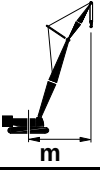
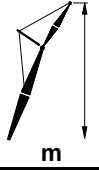
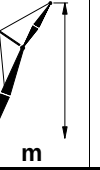
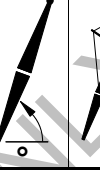
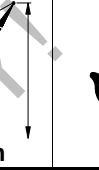
MLC165-1 S-1

ASME B30.5



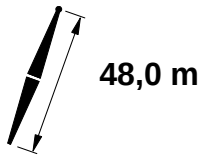
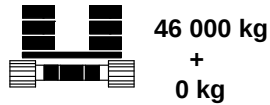
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
15,2	79,3	67,0	10 200							15,2
16,0	78,7	66,9	10 100							16,0
18,0	76,9	66,4	9 900							18,0
20,0	75,1	65,9	9 600	78,9	65,4	9 700				20,0
22,0	73,3	65,2	9 300	77,1	64,8	9 500				22,0
24,0	71,5	64,6	9 100	75,2	64,1	9 300				24,0
26,0	69,6	63,8	8 800	73,4	63,4	9 000	77,2	62,2	8 200	26,0
28,0	67,8	63,0	8 600	71,5	62,5	8 800	75,3	61,4	7 800	28,0
30,0	65,9	62,1	8 400	69,6	61,6	8 600	73,4	60,5	7 400	30,0
32,0	63,9	61,1	8 200	67,6	60,6	8 500	71,4	59,5	7 100	32,0
34,0	62,0	60,0	8 000	65,7	59,6	8 300	69,4	58,4	6 800	34,0
36,0	60,0	58,9	7 800	63,7	58,4	8 100	67,3	57,2	6 500	36,0
38,0	58,0	57,6	7 300	61,6	57,1	7 700	65,2	55,9	6 300	38,0
40,0	55,9	56,3	6 700	59,5	55,8	7 000	63,0	54,5	6 000	40,0
42,0	53,7	54,8	6 100	57,3	54,3	6 400	60,8	52,9	5 800	42,0
44,0	51,5	53,2	5 500	55,1	52,7	5 800	58,5	51,3	5 600	44,0
46,0	49,2	51,5	5 000	52,8	50,9	5 300	56,2	49,5	5 400	46,0
48,0	46,9	49,6	4 600	50,4	49,0	4 900	53,7	47,5	5 100	48,0
50,0	44,4	47,6	4 200	47,9	47,0	4 400	51,1	45,4	4 700	50,0
52,0	41,8	45,4	3 800	45,3	44,7	4 000	48,4	43,1	4 200	52,0
54,0	39,1	42,9	3 500	42,5	42,2	3 700	45,5	40,5	3 800	54,0
56,0	36,2	40,2	3 100	39,6	39,5	3 300	42,4	37,6	3 500	56,0
58,0	33,1	37,2	2 800	36,4	36,4	3 000				58,0
60,0	29,7	33,8	2 600	32,9	32,9	2 700				60,0
62,0	25,8	29,8	2 300							62,0
64,0	21,3	25,0	2 000							64,0

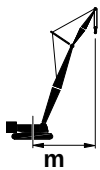
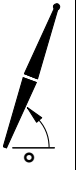
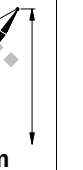


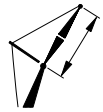
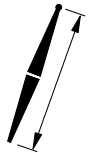
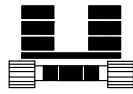
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
16,8	78,5	69,8	10 000							16,8
18,0	77,5	69,5	9 800							18,0
20,0	75,8	69,0	9 600	79,4	68,5	9 700				20,0
22,0	74,0	68,4	9 300	77,6	67,9	9 400				22,0
24,0	72,3	67,7	9 100	75,9	67,3	9 200				24,0
26,0	70,5	67,0	8 900	74,1	66,6	9 000	77,8	65,4	8 400	26,0
28,0	68,8	66,2	8 600	72,3	65,8	8 800	76,0	64,6	8 000	28,0
30,0	67,0	65,4	8 400	70,5	64,9	8 700	74,2	63,7	7 600	30,0
32,0	65,2	64,4	8 200	68,7	64,0	8 500	72,3	62,8	7 300	32,0
34,0	63,3	63,4	8 000	66,8	63,0	8 300	70,4	61,7	7 000	34,0
36,0	61,4	62,3	7 800	64,9	61,8	8 100	68,4	60,6	6 700	36,0
38,0	59,5	61,2	7 300	63,0	60,7	7 700	66,5	59,4	6 400	38,0
40,0	57,5	59,9	6 700	61,0	59,4	7 000	64,4	58,1	6 200	40,0
42,0	55,5	58,5	6 100	59,0	58,0	6 400	62,4	56,6	6 000	42,0
44,0	53,5	57,0	5 500	56,9	56,5	5 900	60,2	55,1	5 800	44,0
46,0	51,4	55,4	5 100	54,8	54,9	5 300	58,0	53,5	5 500	46,0
48,0	49,2	53,7	4 600	52,6	53,1	4 900	55,8	51,7	5 200	48,0
50,0	46,9	51,8	4 200	50,3	51,2	4 500	53,4	49,7	4 700	50,0
52,0	44,6	49,8	3 800	47,9	49,2	4 100	51,0	47,6	4 300	52,0
54,0	42,1	47,6	3 500	45,4	47,0	3 700	48,4	45,3	3 900	54,0
56,0	39,5	45,2	3 200	42,8	44,5	3 400	45,7	42,8	3 500	56,0
58,0	36,8	42,6	2 900	40,0	41,8	3 000	42,7	39,9	3 200	58,0
60,0	33,9	39,6	2 600	37,0	38,8	2 700				60,0
62,0	30,7	36,3	2 300	33,8	35,5	2 500				62,0
64,0	27,1	32,5	2 100	30,1	31,6	2 200				64,0

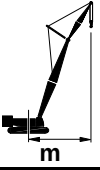
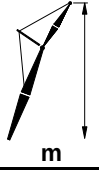
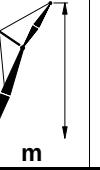
MLC165-1 S-1

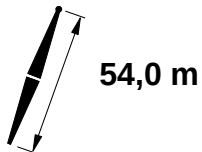
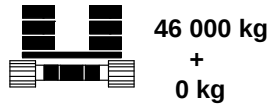
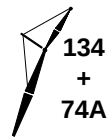
ASME B30.5

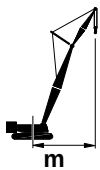
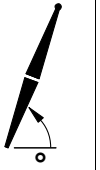
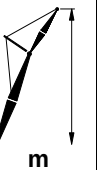
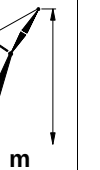
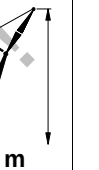


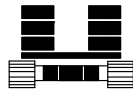
	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
16,8	79,0	72,8	9 900							16,8
18,0	78,0	72,6	9 800							18,0
20,0	76,4	72,1	9 500							20,0
22,0	74,7	71,5	9 300	78,2	71,1	9 400				22,0
24,0	73,1	70,9	9 100	76,5	70,5	9 200				24,0
26,0	71,4	70,2	8 800	74,8	69,8	9 000	78,4	68,6	8 500	26,0
28,0	69,7	69,5	8 600	73,1	69,0	8 800	76,6	67,8	8 100	28,0
30,0	68,0	68,7	8 400	71,4	68,2	8 700	74,9	67,0	7 700	30,0
32,0	66,3	67,8	8 200	69,7	67,3	8 500	73,1	66,1	7 400	32,0
34,0	64,5	66,8	8 000	67,9	66,3	8 300	71,3	65,1	7 100	34,0
36,0	62,7	65,8	7 700	66,1	65,3	8 100	69,5	64,0	6 800	36,0
38,0	60,9	64,7	7 100	64,3	64,2	7 600	67,6	62,9	6 600	38,0
40,0	59,1	63,5	6 500	62,4	63,0	6 900	65,7	61,6	6 300	40,0
42,0	57,2	62,2	5 900	60,5	61,6	6 300	63,8	60,3	6 100	42,0
44,0	55,3	60,8	5 400	58,6	60,2	5 700	61,8	58,9	5 900	44,0
46,0	53,3	59,3	4 900	56,6	58,7	5 200	59,7	57,3	5 500	46,0
48,0	51,2	57,7	4 400	54,5	57,1	4 700	57,6	55,7	5 000	48,0
50,0	49,2	56,0	4 000	52,4	55,4	4 300	55,4	53,9	4 500	50,0
52,0	47,0	54,1	3 600	50,2	53,5	3 900	53,2	51,9	4 100	52,0
54,0	44,7	52,1	3 300	47,9	51,5	3 500	50,8	49,8	3 700	54,0
56,0	42,4	49,9	3 000	45,6	49,2	3 200	48,4	47,6	3 400	56,0
58,0	40,0	47,5	2 700	43,1	46,8	2 900	45,8	45,1	3 000	58,0
60,0	37,4	44,9	2 400	40,4	44,2	2 600	43,1	42,3	2 700	60,0
62,0	34,6	42,1	2 100	37,6	41,3	2 300				62,0
64,0	31,6	38,9	1 900	34,6	38,0	2 000				64,0



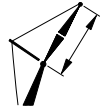
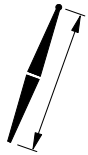
	5°			15°			25°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
16,8	79,4	75,9	9 800							16,8
18,0	78,5	75,6	9 700							18,0
20,0	76,9	75,2	9 500							20,0
22,0	75,3	74,6	9 300	78,7	74,2	9 400				22,0
24,0	73,8	74,0	9 000	77,1	73,6	9 200				24,0
26,0	72,2	73,4	8 800	75,5	72,9	9 000	78,9	71,7	8 600	26,0
28,0	70,5	72,7	8 600	73,8	72,2	8 800	77,2	71,0	8 200	28,0
30,0	68,9	71,9	8 400	72,2	71,4	8 700	75,5	70,2	7 900	30,0
32,0	67,3	71,1	8 200	70,5	70,6	8 500	73,8	69,3	7 500	32,0
34,0	65,6	70,1	8 000	68,9	69,7	8 300	72,1	68,4	7 200	34,0
36,0	63,9	69,2	7 700	67,1	68,7	8 100	70,4	67,4	7 000	36,0
38,0	62,2	68,1	7 000	65,4	67,6	7 400	68,6	66,3	6 700	38,0
40,0	60,4	67,0	6 300	63,6	66,4	6 700	66,8	65,1	6 500	40,0
42,0	58,6	65,7	5 700	61,9	65,2	6 100	65,0	63,9	6 200	42,0
44,0	56,8	64,4	5 200	60,0	63,9	5 600	63,1	62,5	5 900	44,0
46,0	55,0	63,0	4 700	58,1	62,5	5 000	61,2	61,1	5 400	46,0
48,0	53,1	61,5	4 300	56,2	61,0	4 600	59,2	59,5	4 900	48,0
50,0	51,1	59,9	3 900	54,3	59,3	4 100	57,2	57,9	4 400	50,0
52,0	49,1	58,2	3 500	52,2	57,6	3 800	55,1	56,1	4 000	52,0
54,0	47,0	56,3	3 100	50,1	55,7	3 400	53,0	54,1	3 600	54,0
56,0	44,9	54,3	2 800	47,9	53,7	3 000	50,7	52,0	3 300	56,0
58,0	42,6	52,2	2 500	45,7	51,5	2 700	48,4	49,8	2 900	58,0
60,0	40,3	49,8	2 200	43,3	49,1	2 400	45,9	47,3	2 600	60,0
62,0	37,8	47,3	2 000	40,8	46,5	2 200	43,3	44,6	2 300	62,0
64,0				38,1	43,7	1 900	40,5	41,6	2 000	64,0

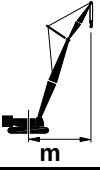
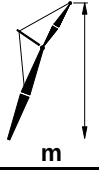
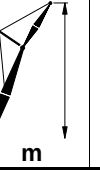


	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
18,3	78,7	78,6	9 600							18,3
20,0	77,4	78,3	9 400							20,0
22,0	75,9	77,8	9 200	79,1	77,3	9 400				22,0
24,0	74,4	77,2	9 000	77,6	76,7	9 200				24,0
26,0	72,9	76,6	8 800	76,1	76,1	9 000	79,3	74,9	8 700	26,0
28,0	71,3	75,9	8 600	74,5	75,4	8 800	77,7	74,2	8 400	28,0
30,0	69,8	75,1	8 400	72,9	74,7	8 600	76,1	73,4	8 000	30,0
32,0	68,2	74,3	8 200	71,3	73,8	8 500	74,5	72,6	7 700	32,0
34,0	66,6	73,5	8 000	69,7	73,0	8 300	72,9	71,7	7 400	34,0
36,0	65,0	72,5	7 600	68,1	72,0	8 000	71,2	70,8	7 100	36,0
38,0	63,3	71,5	6 800	66,5	71,0	7 300	69,6	69,7	6 800	38,0
40,0	61,7	70,4	6 100	64,8	69,9	6 600	67,9	68,6	6 600	40,0
42,0	60,0	69,3	5 500	63,1	68,8	6 000	66,1	67,4	6 300	42,0
44,0	58,3	68,0	5 000	61,3	67,5	5 400	64,3	66,1	5 800	44,0
46,0	56,5	66,7	4 500	59,6	66,2	4 900	62,5	64,8	5 200	46,0
48,0	54,7	65,3	4 100	57,8	64,7	4 400	60,7	63,3	4 700	48,0
50,0	52,9	63,8	3 700	55,9	63,2	4 000	58,8	61,7	4 300	50,0
52,0	51,0	62,2	3 300	54,0	61,6	3 600	56,9	60,1	3 900	52,0
54,0	49,1	60,4	2 900	52,1	59,8	3 200	54,8	58,3	3 500	54,0
56,0	47,1	58,6	2 600	50,1	58,0	2 900	52,8	56,3	3 100	56,0
58,0	45,0	56,6	2 300	48,0	55,9	2 600	50,6	54,3	2 800	58,0
60,0	42,9	54,4	2 000	45,8	53,8	2 300	48,4	52,0	2 500	60,0
62,0				43,5	51,4	1 900	46,0	49,6	2 100	62,0
64,0							43,6	46,9	1 800	64,0



46 000 kg
+
0 kg



	5°			15°			25°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
18,3	79,1	81,7	9 500							18,3
20,0	77,9	81,3	9 400							20,0
22,0	76,5	80,8	9 200							22,0
24,0	75,0	80,3	9 000	78,1	79,8	9 100				24,0
26,0	73,5	79,7	8 800	76,6	79,2	9 000				26,0
28,0	72,0	79,0	8 500	75,1	78,6	8 800	78,2	77,3	8 500	28,0
30,0	70,5	78,3	8 400	73,6	77,8	8 600	76,7	76,6	8 100	30,0
32,0	69,0	77,6	8 200	72,1	77,1	8 500	75,2	75,8	7 800	32,0
34,0	67,5	76,7	8 000	70,5	76,2	8 300	73,6	75,0	7 500	34,0
36,0	66,0	75,8	7 400	69,0	75,3	7 900	72,0	74,0	7 200	36,0
38,0	64,4	74,9	6 600	67,4	74,4	7 200	70,4	73,1	7 000	38,0
40,0	62,8	73,8	6 000	65,8	73,3	6 500	68,8	72,0	6 700	40,0
42,0	61,2	72,7	5 400	64,2	72,2	5 800	67,1	70,9	6 300	42,0
44,0	59,6	71,6	4 900	62,5	71,0	5 300	65,4	69,7	5 700	44,0
46,0	57,9	70,3	4 400	60,9	69,8	4 800	63,7	68,4	5 100	46,0
48,0	56,2	69,0	3 900	59,2	68,4	4 300	62,0	67,0	4 600	48,0
50,0	54,5	67,5	3 500	57,4	67,0	3 900	60,2	65,5	4 200	50,0
52,0	52,7	66,0	3 100	55,6	65,4	3 500	58,4	63,9	3 800	52,0
54,0	50,9	64,4	2 800	53,8	63,8	3 100	56,5	62,3	3 400	54,0
56,0	49,0	62,7	2 500	51,9	62,0	2 800	54,6	60,5	3 000	56,0
58,0	47,1	60,8	2 100	50,0	60,2	2 400	52,6	58,5	2 700	58,0
60,0				48,0	58,2	2 100	50,5	56,5	2 300	60,0
62,0							48,4	54,2	2 000	62,0