

Liftcrane Boom Capacities

Boom No. 74A


56 000 kg Crane Counterweight

20 450 kg Carbody Counterweight

Rating Over Front of Blocked Crawlers

No Travel - Limited Swing

MLC165-1 SERIES 2

 **LIFTING CAPACITIES:** Lifting capacities for various boom lengths and operating radii are for freely suspended loads and may be based on percent of static tipping over front of machine with crawlers blocked or strength of structural components.

Boom Backward Stability: A minimum of 4 parts hoist line is required for capacities denoted by (b), (c), and (d) for boom lengths 15,0 m thru 30,0 m. Capacities indicated by (b) require 1 360 kg minimum weight, (c) requires 3 400 kg minimum weight, and (d) requires 6 800 kg minimum weight.

Caution: Do not operate in areas indicated by (b), (c), or (d) without required minimum weights. Boom will not boom down and boom hoist wire rope may go slack causing wire rope damage or failure.

Upper boom point capacity for liftcrane service with single part whip line is 12 500 kg or 25 000 kg with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 9 070 kg or 18 140 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

63,0 m thru 84,0 m boom lengths require only the middle three sheaves in lower boom point. All other sheaves must be removed from lower boom point.

Weight of upper boom point, jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with front idler tumbler properly blocked so that centerline of idler tumbler becomes tipping fulcrum. Drive motors must be to rear of machine. Swing is limited to that sector shown in Operating Range Diagram **No. 9403-A**. Refer to Boom Rigging **No. 81023602**, Wire Rope Specification chart **No. 9408-A**, and Wind Conditions chart **No. 9407-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.



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

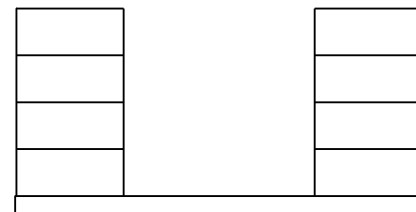


BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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

MACHINE EQUIPMENT: Machine equipped with 7 986 mm crawlers, 1 100 mm treads, 7 200 mm live mast, 18 part boom hoist reeving, boom support straps, 56 000 kg crane counterweight, and two 10 225 kg carbody counterweights.



56 000 kg Crane Counterweight
8 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.

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 134
9,1 m	1 800 kg
12,2 m	2 100 kg
15,2 m	2 500 kg
18,3 m	2 900 kg
21,3 m	3 200 kg
24,4 m	3 600 kg

Upper Boom Point Deduct

Deduct 600 kg from capacities when upper boom point, and adapter frame if equipped, is attached.

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.

Auxiliary Drum Deduct

Deduct 900 kg from capacities when boom butt is equipped with auxiliary drum, and 6,0 m insert is equipped with wire rope guide sheaves.

Third Line Deduct

Deduct 200 kg from capacities when boom is equipped for three line operation.

Refer to **Table 1** 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.

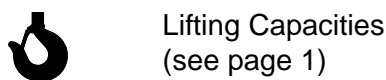
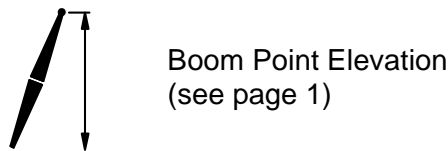
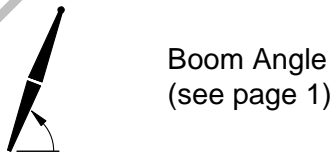
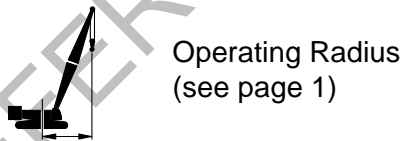
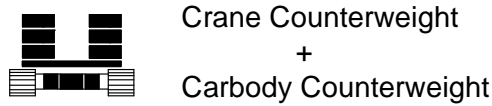
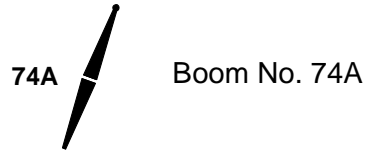
Caution: Combined weight beneath lower and/or upper boom point and jib point sheaves must not exceed block weight shown. Total weight beneath jib point must not exceed 1 815 kg.

Table 1

Raising Ability Over 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)						
15,0 - 24,0	3 500	—	—	—	—	—	—
27,0 - 42,0	3 500	3 500	3 500	3 500	3 500	3 500	3 500
45,0	3 500	3 500	3 500	3 500	3 500	3 500	2 650
48,0	3 500	3 500	3 500	3 500	3 500	2 650	2 650
51,0	3 500	3 500	3 500	2 650	2 650	750	750
54,0	3 500	2 650	2 650	750	750	750	750
57,0	3 500	750	750	750	750	750	750
60,0	2 650	750	750	750	750	750	#
63,0	750	750	750	#	#	#	#
66,0	750	#	#	#	#	#	#
69,0	750	#	#	#	#	#	#
72,0	#	#	#	#	a	RAISING NOT PERMITTED	
75,0	#	#	a				
78,0	#						
81,0	b						
84,0	a, b						

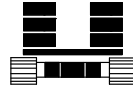
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius and crane configuration is within 360 degree chart.

Explanation of Symbols

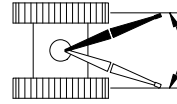
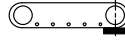


MLC165-1 S-2

ASME B30.5



56 000 kg
+
20 450 kg



15,0 m			
m	°	m	kg
4,3	81,7	16,8	165 000 d
4,5	80,8	16,7	163 100 d
5,0	78,8	16,6	149 600 d
5,5	76,8	16,5	136 800 d
6,0	74,9	16,3	125 900 c
7,0	70,8	16,0	108 500 c
8,0	66,6	15,5	95 200 b
9,0	62,3	15,0	84 600
10,0	57,8	14,4	76 100
11,0	53,0	13,6	69 200
12,0	47,8	12,7	62 800
13,0	42,1	11,6	55 900
14,0	35,7	10,2	50 100
15,0	27,8	8,4	45 400

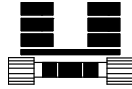
18,0 m			
m	°	m	kg
4,9	81,1	19,7	151 800 d
5,0	80,7	19,7	148 900 d
5,5	79,1	19,6	136 700 d
6,0	77,5	19,5	125 800 c
7,0	74,1	19,2	108 500 c
8,0	70,8	18,8	95 200 b
9,0	67,3	18,4	84 600
10,0	63,8	17,9	76 100
11,0	60,1	17,3	69 200
12,0	56,2	16,6	62 900
13,0	52,2	15,9	56 100
14,0	47,9	15,0	50 400
15,0	43,3	13,9	45 600
16,0	38,2	12,6	41 600
18,0	25,3	9,1	35 200

21,0 m			
m	°	m	kg
5,2	81,6	22,7	141 900 d
5,5	80,7	22,7	136 400 c
6,0	79,3	22,5	125 500 c
7,0	76,5	22,3	108 200 c
8,0	73,6	22,0	94 900 b
9,0	70,7	21,6	84 400
10,0	67,8	21,2	76 000
11,0	64,7	20,7	69 000
12,0	61,6	20,2	62 700
13,0	58,4	19,6	55 900
14,0	55,1	18,9	50 200
15,0	51,6	18,1	45 500
16,0	47,9	17,2	41 500
18,0	39,8	15,0	35 200
20,0	29,7	11,9	30 300

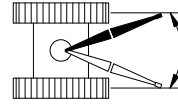
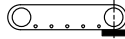
REFERENCE

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ASME B30.5



56 000 kg
+
20 450 kg



24,0 m			
m	°	m	kg
5,8	81,2	25,6	129 700 c
6,0	80,6	25,6	125 400 c
7,0	78,2	25,4	108 000 b
8,0	75,7	25,1	94 800 b
9,0	73,2	24,8	84 300
10,0	70,7	24,5	75 800
11,0	68,1	24,0	68 800
12,0	65,5	23,6	62 700
13,0	62,8	23,1	56 000
14,0	60,0	22,5	50 300
15,0	57,2	21,8	45 500
16,0	54,2	21,1	41 500
18,0	47,9	19,4	35 200
20,0	40,9	17,2	30 400
22,0	32,6	14,4	26 600
24,0	21,4	10,2	23 500

27,0 m			
m	°	m	kg
6,1	81,5	28,6	123 400 c
7,0	79,5	28,5	107 900 b
8,0	77,4	28,2	94 700 b
9,0	75,2	28,0	84 200
10,0	72,9	27,7	75 800
11,0	70,7	27,3	68 800
12,0	68,4	26,9	62 700
13,0	66,1	26,4	56 000
14,0	63,7	25,9	50 300
15,0	61,3	25,4	45 600
16,0	58,8	24,8	41 600
18,0	53,6	23,4	35 300
20,0	48,0	21,7	30 500
22,0	41,8	19,5	26 700
24,0	34,7	16,9	23 600
26,0	26,0	13,2	21 100

30,0 m			
m	°	m	kg
6,7	81,2	31,6	112 400 b
7,0	80,6	31,5	108 000 b
8,0	78,6	31,3	94 500
9,0	76,7	31,1	84 100
10,0	74,7	30,8	75 600
11,0	72,7	30,5	68 600
12,0	70,7	30,1	62 600
13,0	68,6	29,7	56 000
14,0	66,5	29,3	50 300
15,0	64,4	28,8	45 500
16,0	62,2	28,3	41 500
18,0	57,8	27,0	35 200
20,0	53,0	25,6	30 400
22,0	48,0	23,9	26 600
24,0	42,5	21,8	23 600
26,0	36,3	19,2	21 000
28,0	28,9	16,0	18 900
30,0	19,0	11,2	17 100

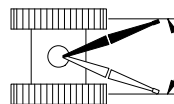
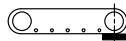
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MLC165-1 S-2

ASME B30.5



56 000 kg
+
20 450 kg



33,0 m			
m	°	m	kg
7,3	80,9	34,5	103 200 b
8,0	79,7	34,4	94 500
9,0	77,9	34,2	84 000
10,0	76,1	33,9	75 600
11,0	74,3	33,6	68 600
12,0	72,5	33,3	62 600
13,0	70,7	33,0	56 000
14,0	68,8	32,6	50 300
15,0	66,9	32,1	45 600
16,0	65,0	31,7	41 600
18,0	61,0	30,6	35 200
20,0	56,9	29,3	30 400
22,0	52,6	27,9	26 700
24,0	48,0	26,1	23 600
26,0	43,1	24,1	21 100
28,0	37,6	21,6	19 000
30,0	31,2	18,6	17 200
32,0	23,3	14,5	15 600

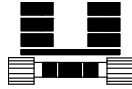
36,0 m			
m	°	m	kg
7,3	81,7	37,6	97 700 b
8,0	80,6	37,4	94 400
9,0	78,9	37,2	83 800
10,0	77,3	37,0	75 400
11,0	75,7	36,7	68 400
12,0	74,0	36,5	62 500
13,0	72,3	36,1	56 000
14,0	70,6	35,8	50 200
15,0	68,9	35,4	45 500
16,0	67,2	35,0	41 500
18,0	63,7	34,0	35 200
20,0	60,0	32,9	30 400
22,0	56,2	31,6	26 600
24,0	52,2	30,1	23 500
26,0	48,0	28,4	21 000
28,0	43,5	26,3	18 900
30,0	38,5	23,9	17 100
32,0	32,9	21,0	15 500
34,0	26,3	17,4	14 200

39,0 m			
m	°	m	kg
7,9	81,4	40,5	89 400
8,0	81,3	40,5	89 100
9,0	79,8	40,3	83 700
10,0	78,3	40,1	75 200
11,0	76,8	39,9	68 200
12,0	75,3	39,6	62 400
13,0	73,7	39,3	55 900
14,0	72,2	39,0	50 200
15,0	70,6	38,6	45 400
16,0	69,1	38,2	41 400
18,0	65,9	37,4	35 100
20,0	62,6	36,4	30 300
22,0	59,2	35,2	26 500
24,0	55,6	33,9	23 400
26,0	52,0	32,3	20 900
28,0	48,1	30,6	18 800
30,0	43,9	28,6	17 000
32,0	39,4	26,3	15 500
34,0	34,4	23,5	14 100
36,0	28,6	20,1	12 900
38,0	21,4	15,6	11 800

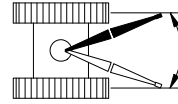
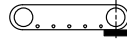
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MLC165-1 S-2

ASME B30.5



56 000 kg
+
20 450 kg



42,0 m			
m	°	m	kg
8,5	81,2	43,4	83 100
9,0	80,5	43,4	81 500
10,0	79,1	43,2	75 200
11,0	77,8	42,9	68 000
12,0	76,3	42,7	62 200
13,0	74,9	42,4	55 900
14,0	73,5	42,1	50 100
15,0	72,1	41,8	45 300
16,0	70,6	41,4	41 300
18,0	67,7	40,6	35 000
20,0	64,7	39,7	30 200
22,0	61,6	38,7	26 400
24,0	58,4	37,5	23 300
26,0	55,1	36,1	20 800
28,0	51,7	34,6	18 700
30,0	48,1	32,8	16 900
32,0	44,2	30,8	15 400
34,0	40,1	28,6	14 000
36,0	35,5	25,9	12 800
38,0	30,4	22,7	11 800
40,0	24,2	18,7	10 800

45,0 m			
m	°	m	kg
9,1	81,0	46,4	76 600
10,0	79,9	46,2	74 000
11,0	78,6	46,0	68 200
12,0	77,3	45,8	62 300
13,0	76,0	45,5	56 100
14,0	74,6	45,2	50 300
15,0	73,3	44,9	45 500
16,0	72,0	44,6	41 500
18,0	69,2	43,9	35 200
20,0	66,5	43,0	30 400
22,0	63,7	42,1	26 600
24,0	60,8	41,0	23 500
26,0	57,8	39,7	21 000
28,0	54,7	38,3	18 900
30,0	51,4	36,8	17 100
32,0	48,1	35,0	15 500
34,0	44,5	33,1	14 200
36,0	40,6	30,8	13 000
38,0	36,5	28,2	12 000
40,0	31,8	25,2	11 000
42,0	26,5	21,5	10 200
44,0	19,7	16,6	9 400

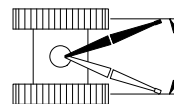
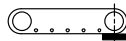
48,0 m			
m	°	m	kg
9,1	81,6	49,4	71 800
10,0	80,5	49,3	69 700
11,0	79,3	49,1	67 300
12,0	78,1	48,9	62 200
13,0	76,9	48,6	56 000
14,0	75,6	48,4	50 200
15,0	74,4	48,1	45 400
16,0	73,1	47,8	41 400
18,0	70,6	47,1	35 100
20,0	68,0	46,3	30 200
22,0	65,4	45,4	26 400
24,0	62,8	44,4	23 400
26,0	60,0	43,3	20 900
28,0	57,2	42,0	18 800
30,0	54,3	40,6	17 000
32,0	51,3	39,1	15 400
34,0	48,1	37,3	14 100
36,0	44,7	35,3	12 900
38,0	41,2	33,1	11 800
40,0	37,3	30,6	10 900
42,0	33,1	27,7	10 000
44,0	28,3	24,2	9 300
46,0	22,6	19,9	8 600

MLC165-1 S-2

ASME B30.5



56 000 kg
+
20 450 kg



51,0 m

m	°	m	kg
9,8	81,4	52,4	66 200
10,0	81,1	52,3	65 600
11,0	79,9	52,1	63 600
12,0	78,8	51,9	61 400
13,0	77,6	51,7	55 900
14,0	76,5	51,5	50 100
15,0	75,3	51,2	45 300
16,0	74,2	50,9	41 300
18,0	71,8	50,3	35 000
20,0	69,4	49,5	30 100
22,0	67,0	48,7	26 300
24,0	64,5	47,8	23 300
26,0	62,0	46,7	20 800
28,0	59,4	45,6	18 600
30,0	56,7	44,3	16 900
32,0	53,9	42,9	15 300
34,0	51,1	41,3	14 000
36,0	48,1	39,5	12 800
38,0	44,9	37,6	11 700
40,0	41,6	35,4	10 800
42,0	38,0	32,9	9 900
44,0	34,2	30,1	9 200
46,0	29,8	26,8	8 500
48,0	24,8	22,8	7 900
50,0	18,5	17,6	7 300

54,0 m

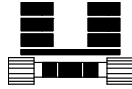
m	°	m	kg
10,4	81,2	55,3	60 800
11,0	80,5	55,2	59 600
12,0	79,4	55,0	57 600
13,0	78,3	54,8	55 400
14,0	77,3	54,6	50 000
15,0	76,2	54,3	45 200
16,0	75,1	54,1	41 200
18,0	72,9	53,5	34 800
20,0	70,6	52,8	30 000
22,0	68,3	52,0	26 200
24,0	66,0	51,1	23 100
26,0	63,7	50,1	20 600
28,0	61,2	49,1	18 500
30,0	58,8	47,9	16 700
32,0	56,2	46,6	15 200
34,0	53,6	45,1	13 800
36,0	50,9	43,5	12 600
38,0	48,1	41,8	11 600
40,0	45,1	39,8	10 600
42,0	42,0	37,7	9 800
44,0	38,7	35,3	9 000
46,0	35,1	32,5	8 400
48,0	31,1	29,4	7 700
50,0	26,6	25,7	7 100
52,0	21,3	21,0	6 600

57,0 m

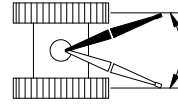
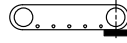
m	°	m	kg
10,4	81,7	58,3	57 600
11,0	81,0	58,2	56 400
12,0	80,0	58,1	54 500
13,0	79,0	57,9	52 800
14,0	77,9	57,6	49 900
15,0	76,9	57,4	45 200
16,0	75,9	57,1	41 100
18,0	73,8	56,6	34 800
20,0	71,7	55,9	29 900
22,0	69,5	55,2	26 100
24,0	67,4	54,4	23 100
26,0	65,1	53,5	20 500
28,0	62,9	52,5	18 400
30,0	60,6	51,4	16 600
32,0	58,2	50,1	15 100
34,0	55,8	48,8	13 700
36,0	53,3	47,4	12 500
38,0	50,8	45,8	11 500
40,0	48,1	44,0	10 600
42,0	45,3	42,1	9 700
44,0	42,4	39,9	9 000
46,0	39,2	37,6	8 300
48,0	35,9	34,9	7 600
50,0	32,2	31,9	7 100
52,0	28,1	28,3	6 500
54,0	23,4	24,1	6 000
56,0	17,4	18,5	5 600

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56 000 kg
+
20 450 kg



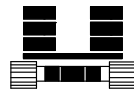
60,0 m			
m	°	m	kg
11,0	81,5	61,3	52 000
12,0	80,5	61,1	51 000
13,0	79,5	60,9	49 900
14,0	78,6	60,7	48 200
15,0	77,6	60,5	45 200
16,0	76,6	60,3	41 000
18,0	74,6	59,7	34 600
20,0	72,6	59,1	29 800
22,0	70,6	58,4	26 000
24,0	68,6	57,7	22 900
26,0	66,5	56,8	20 400
28,0	64,4	55,9	18 300
30,0	62,2	54,8	16 500
32,0	60,0	53,7	14 900
34,0	57,8	52,4	13 600
36,0	55,5	51,1	12 400
38,0	53,1	49,6	11 300
40,0	50,7	48,0	10 400
42,0	48,1	46,3	9 600
44,0	45,5	44,3	8 800
46,0	42,7	42,2	8 100
48,0	39,8	39,9	7 500
50,0	36,6	37,3	6 900
52,0	33,2	34,4	6 400
54,0	29,5	31,0	5 900
56,0	25,2	27,0	5 400
58,0	20,1	22,1	5 000

63,0 m			
m	°	m	kg
11,6	81,3	64,2	46 100
12,0	81,0	64,2	45 700
13,0	80,0	64,0	44 800
14,0	79,1	63,8	44 000
15,0	78,2	63,6	43 300
16,0	77,2	63,3	41 300
18,0	75,4	62,8	34 600
20,0	73,5	62,2	29 700
22,0	71,6	61,6	25 900
24,0	69,6	60,9	22 800
26,0	67,7	60,1	20 300
28,0	65,7	59,2	18 200
30,0	63,6	58,2	16 400
32,0	61,6	57,1	14 800
34,0	59,5	56,0	13 500
36,0	57,3	54,7	12 300
38,0	55,1	53,3	11 200
40,0	52,9	51,9	10 300
42,0	50,5	50,2	9 400
44,0	48,1	48,5	8 700
46,0	45,6	46,6	8 000
48,0	43,0	44,5	7 400
50,0	40,2	42,2	6 800
52,0	37,2	39,6	6 300
54,0	34,1	36,8	5 800
56,0	30,6	33,5	5 300
58,0	26,7	29,8	4 900
60,0	22,2	25,2	4 500

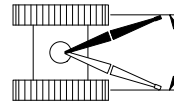
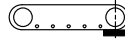
66,0 m			
m	°	m	kg
12,2	81,2	67,2	40 700
13,0	80,5	67,0	40 000
14,0	79,6	66,8	39 300
15,0	78,7	66,6	38 600
16,0	77,8	66,4	37 900
18,0	76,0	65,9	34 500
20,0	74,2	65,4	29 500
22,0	72,4	64,7	25 700
24,0	70,6	64,1	22 700
26,0	68,7	63,3	20 100
28,0	66,8	62,4	18 000
30,0	64,9	61,5	16 200
32,0	63,0	60,5	14 700
34,0	61,0	59,4	13 300
36,0	59,0	58,3	12 100
38,0	56,9	57,0	11 100
40,0	54,8	55,6	10 100
42,0	52,6	54,1	9 300
44,0	50,4	52,5	8 500
46,0	48,1	50,7	7 800
48,0	45,7	48,8	7 200
50,0	43,2	46,7	6 600
52,0	40,6	44,4	6 100
54,0	37,8	41,9	5 600
56,0	34,8	39,1	5 200
58,0	31,6	36,0	4 800
60,0	28,0	32,4	4 400
62,0	24,0	28,2	4 000
64,0	19,1	23,0	3 600

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56 000 kg
+
20 450 kg



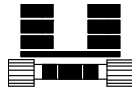
69,0 m			
m	°	m	kg
12,2	81,6	70,2	36 700
13,0	80,9	70,1	36 100
14,0	80,1	69,9	35 400
15,0	79,2	69,7	34 800
16,0	78,4	69,5	34 100
18,0	76,7	69,0	32 900
20,0	74,9	68,5	29 500
22,0	73,2	67,9	25 600
24,0	71,5	67,3	22 600
26,0	69,7	66,5	20 000
28,0	67,9	65,7	17 900
30,0	66,1	64,9	16 100
32,0	64,3	63,9	14 500
34,0	62,4	62,9	13 200
36,0	60,5	61,8	12 000
38,0	58,6	60,6	11 000
40,0	56,6	59,3	10 000
42,0	54,6	57,9	9 200
44,0	52,5	56,4	8 400
46,0	50,3	54,7	7 700
48,0	48,1	53,0	7 100
50,0	45,8	51,1	6 500
52,0	43,4	49,0	6 000
54,0	40,9	46,7	5 500
56,0	38,3	44,3	5 100
58,0	35,5	41,6	4 700
60,0	32,5	38,5	4 300
62,0	29,2	35,1	3 900
64,0	25,5	31,1	3 600
66,0	21,2	26,4	3 200

72,0 m			
m	°	m	kg
12,8	81,4	73,1	35 900
13,0	81,3	73,1	35 900
14,0	80,5	72,9	35 800
15,0	79,7	72,7	35 600
16,0	78,9	72,5	35 500
18,0	77,2	72,1	33 800
20,0	75,6	71,6	29 100
22,0	73,9	71,0	25 300
24,0	72,3	70,4	22 200
26,0	70,6	69,7	19 700
28,0	68,9	69,0	17 600
30,0	67,2	68,1	15 700
32,0	65,4	67,2	14 200
34,0	63,6	66,2	12 800
36,0	61,8	65,2	11 700
38,0	60,0	64,1	10 600
40,0	58,1	62,8	9 700
42,0	56,2	61,5	8 800
44,0	54,3	60,1	8 100
46,0	52,3	58,6	7 400
48,0	50,2	56,9	6 800
50,0	48,1	55,2	6 200
52,0	45,9	53,3	5 700
54,0	43,6	51,2	5 200
56,0	41,2	49,0	4 700
58,0	38,7	46,6	4 300
60,0	36,1	43,9	3 900
62,0	33,3	40,9	3 500
64,0	30,2	37,6	3 200
66,0	26,8	33,9	2 800
68,0	22,9	29,4	2 400
70,0	18,3	24,0	2 100

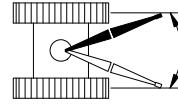
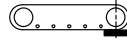
75,0 m			
m	°	m	kg
13,4	81,3	76,1	32 600
14,0	80,9	76,0	32 500
15,0	80,1	75,8	32 400
16,0	79,3	75,6	32 300
18,0	77,8	75,2	32 000
20,0	76,2	74,7	29 100
22,0	74,6	74,2	25 200
24,0	73,0	73,6	22 100
26,0	71,4	72,9	19 500
28,0	69,8	72,2	17 400
30,0	68,1	71,4	15 600
32,0	66,5	70,5	14 100
34,0	64,8	69,6	12 700
36,0	63,1	68,6	11 500
38,0	61,3	67,5	10 500
40,0	59,6	66,4	9 500
42,0	57,8	65,1	8 700
44,0	55,9	63,8	7 900
46,0	54,1	62,4	7 200
48,0	52,1	60,8	6 600
50,0	50,2	59,2	6 000
52,0	48,1	57,4	5 500
54,0	46,0	55,5	5 000
56,0	43,8	53,5	4 600
58,0	41,6	51,3	4 200
60,0	39,2	48,9	3 800
62,0	36,7	46,3	3 400
64,0	34,0	43,4	3 000
66,0	31,1	40,2	2 600
68,0	28,0	36,6	2 200
70,0	24,4	32,4	1 900
72,0	20,3	27,5	1 600

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56 000 kg
+
20 450 kg



78,0 m			
m	°	m	kg
13,4	81,7	79,1	29 700
14,0	81,2	79,0	29 600
15,0	80,5	78,9	29 500
16,0	79,7	78,7	29 400
18,0	78,2	78,3	29 100
20,0	76,7	77,8	28 500
22,0	75,2	77,3	25 100
24,0	73,7	76,7	21 900
26,0	72,1	76,1	19 400
28,0	70,6	75,4	17 300
30,0	69,0	74,6	15 500
32,0	67,4	73,8	13 900
34,0	65,8	72,9	12 500
36,0	64,2	72,0	11 300
38,0	62,5	70,9	10 300
40,0	60,9	69,8	9 400
42,0	59,2	68,7	8 500
44,0	57,4	67,4	7 800
46,0	55,6	66,0	7 100
48,0	53,8	64,6	6 400
50,0	52,0	63,1	5 900
52,0	50,1	61,4	5 300
54,0	48,1	59,7	4 900
56,0	46,1	57,8	4 400
58,0	44,0	55,7	4 000
60,0	41,8	53,5	3 500
62,0	39,5	51,2	3 100
64,0	37,2	48,6	2 700
66,0	34,6	45,8	2 300
68,0	31,9	42,7	2 000
70,0	29,0	39,2	1 700

81,0 m			
m	°	m	kg
14,0	81,5	82,1	27 500
15,0	80,8	81,9	27 400
16,0	80,1	81,7	27 300
18,0	78,7	81,3	27 100
20,0	77,2	80,9	26 800
22,0	75,8	80,4	25 200
24,0	74,3	79,8	21 800
26,0	72,8	79,2	19 300
28,0	71,3	78,5	17 100
30,0	69,8	77,8	15 300
32,0	68,3	77,0	13 800
34,0	66,8	76,2	12 400
36,0	65,2	75,3	11 200
38,0	63,6	74,3	10 200
40,0	62,0	73,3	9 200
42,0	60,4	72,1	8 400
44,0	58,8	70,9	7 600
46,0	57,1	69,7	6 900
48,0	55,4	68,3	6 300
50,0	53,6	66,8	5 700
52,0	51,8	65,3	5 200
54,0	50,0	63,6	4 700
56,0	48,1	61,9	4 300
58,0	46,2	60,0	3 800
60,0	44,2	58,0	3 300
62,0	42,1	55,8	2 900
64,0	39,9	53,5	2 500
66,0	37,6	50,9	2 200
68,0	35,2	48,2	1 800
70,0	32,6	45,1	1 500

84,0 m			
m	°	m	kg
14,6	81,4	85,0	24 900
15,0	81,2	84,9	24 800
16,0	80,5	84,8	24 700
18,0	79,1	84,4	24 500
20,0	77,7	84,0	24 100
22,0	76,3	83,5	23 600
24,0	74,9	83,0	21 900
26,0	73,5	82,4	19 100
28,0	72,0	81,7	17 000
30,0	70,6	81,0	15 200
32,0	69,1	80,3	13 600
34,0	67,6	79,5	12 200
36,0	66,2	78,6	11 100
38,0	64,7	77,7	10 000
40,0	63,1	76,7	9 100
42,0	61,6	75,6	8 200
44,0	60,0	74,5	7 500
46,0	58,4	73,2	6 800
48,0	56,8	72,0	6 100
50,0	55,1	70,6	5 600
52,0	53,4	69,1	5 000
54,0	51,7	67,6	4 500
56,0	49,9	65,9	4 000
58,0	48,1	64,1	3 500
60,0	46,3	62,3	3 100
62,0	44,3	60,2	2 700
64,0	42,3	58,1	2 300
66,0	40,2	55,8	1 900
68,0	38,0	53,3	1 600