

Liftcrane Boom Capacities

Boom No. 74A
46 000 kg Crane Counterweight
0 kg Carbody Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Static Machine List
No Travel - 360 Degree Rating

MLC165-1 SERIES 1



LIFTING CAPACITIES: Lifting capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. Lifting capacities for various boom lengths and operating radii are for freely suspended loads and may be based on percent of static tipping 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 72,0 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, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom 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 on a firm uniformly supporting surface with machine list not to exceed degrees noted. 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 at barge deck 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 barge deck 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, 46 000 kg crane counterweight, and 0 kg carbody counterweight.



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.

Upper Boom Point Deduct

Deduct 600 kg from capacities when upper boom point is attached.
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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.
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Third Line Deduct

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

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 sheaves. For block weights shown with #, a, or b, load blocks, hooks, weight balls, and slings must remain on barge deck 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 sheaves must not exceed block weight shown. Jib cannot be attached on crawler machine while operating on a barge.

Table 1

Raising Ability Over End or Side of Crawlers				
Boom Length (m)	Machine List			
	0°	1°	2°	3°
	Block Weight (kg)			
15,0 - 45,0	3 500	3 500	3 500	3 500
48,0	3 500	3 500	2 650	2 650
51,0	2 650	2 650	750	750
54,0	750	750	750	750
57,0	750	750	750	750
60,0	#	#	#	#
63,0	#	b	b	b
66,0	a, b	a, b	a, b	a, b
69,0	RAISING NOT PERMITTED			
72,0				

Table 2

Raising Ability Over Front of Blocked Crawlers				
Boom Length (m)	Machine List			
	0°	1°	2°	3°
	Block Weight (kg)			
15,0 - 45,0	3 500	3 500	3 500	3 500
48,0	3 500	3 500	2 650	2 650
51,0	2 650	2 650	750	750
54,0	750	750	750	750
57,0	750	750	750	750
60,0	#	#	#	#
63,0	#	#	#	#
66,0	#	#	#	#
69,0	#	b	b	b
72,0	a, b	a, b	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



Boom No. 74A



Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



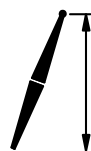
Boom Length



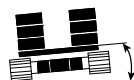
Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



Machine List



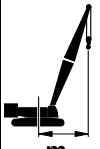
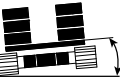
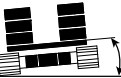
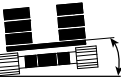
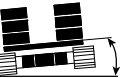
Lifting Capacities
(see page 1)

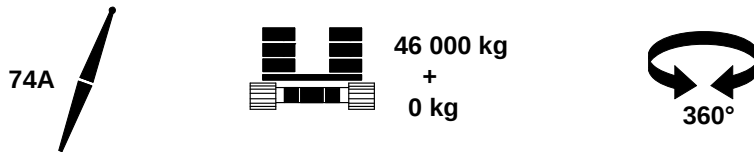
MLC165-1 S-1



46 000 kg
+
0 kg



 15,0 m							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
4,3	81,7	16,8	165 000 d				4,3
4,5	80,8	16,7	158 100 d				4,5
5,0	78,8	16,6	143 600 d	132 000 d	101 200 d		5,0
5,5	76,8	16,5	131 200 d	119 700 d	94 600 d	77 100 d	5,5
6,0	74,9	16,3	120 900 c	109 600 c	86 500 c	74 500 c	6,0
7,0	70,8	16,0	95 000 c	88 200 c	73 800 c	63 500 c	7,0
8,0	66,6	15,5	75 600 b	71 200 b	64 100 b	55 000 b	8,0
9,0	62,3	15,0	62 700	59 600	56 500	48 500	9,0
10,0	57,8	14,4	53 400	51 100	49 000	43 200	10,0
11,0	53,0	13,6	46 300	44 600	43 000	38 900	11,0
12,0	47,8	12,7	40 800	39 500	38 200	35 300	12,0
13,0	42,1	11,6	36 300	35 300	34 300	32 300	13,0
14,0	35,7	10,2	32 600	31 800	31 100	29 600	14,0
15,0	27,8	8,4	29 600	28 900	28 400	27 300	15,0



m	o	m	kg	kg	kg	kg	m
4,9	81,1	19,7	146 800 d				4,9
5,0	80,7	19,7	143 500 d				5,0
5,5	79,1	19,6	131 100 d	117 800 d	80 300 d		5,5
6,0	77,5	19,5	120 800 c	109 500 c	80 300 c	60 400 c	6,0
7,0	74,1	19,2	95 200 c	87 200 c	73 800 c	60 400 c	7,0
8,0	70,8	18,8	75 700 b	70 500 b	64 000 b	55 000 b	8,0
9,0	67,3	18,4	62 900	59 200	55 800	48 400	9,0
10,0	63,8	17,9	53 500	50 800	48 300	43 200	10,0
11,0	60,1	17,3	46 400	44 300	42 400	38 900	11,0
12,0	56,2	16,6	40 900	39 300	37 800	35 300	12,0
13,0	52,2	15,9	36 500	35 200	33 900	32 300	13,0
14,0	47,9	15,0	32 800	31 800	30 700	29 700	14,0
15,0	43,3	13,9	29 800	28 900	28 100	27 300	15,0
16,0	38,2	12,6	27 200	26 500	25 800	25 200	16,0
18,0	25,3	9,1	22 900	22 500	22 100	21 600	18,0



46 000 kg
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0 kg



			0° kg	1° kg	2° kg	3° kg	
5,2	81,6	22,7	138 400 d				5,2
5,5	80,7	22,7	130 800 c				5,5
6,0	79,3	22,5	120 500 c	108 900 c			6,0
7,0	76,5	22,3	95 100 c	86 000 c	73 500 c	57 900 c	7,0
8,0	73,6	22,0	75 600 b	69 700 b	63 700 b	54 700 b	8,0
9,0	70,7	21,6	62 700	58 500	54 700	48 200	9,0
10,0	67,8	21,2	53 400	50 200	47 400	43 000	10,0
11,0	64,7	20,7	46 300	43 800	41 600	38 700	11,0
12,0	61,6	20,2	40 800	38 900	37 100	35 100	12,0
13,0	58,4	19,6	36 300	34 800	33 300	32 000	13,0
14,0	55,1	18,9	32 700	31 400	30 200	29 000	14,0
15,0	51,6	18,1	29 600	28 600	27 600	26 600	15,0
16,0	47,9	17,2	27 100	26 200	25 400	24 600	16,0
18,0	39,8	15,0	22 900	22 200	21 600	21 100	18,0
20,0	29,7	11,9	19 600	19 200	18 700	18 300	20,0



46 000 kg
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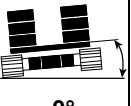
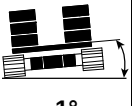
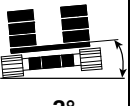
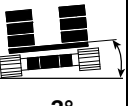
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
5,8	81,2	25,6	124 400 c				5,8
6,0	80,6	25,6	120 300 c				6,0
7,0	78,2	25,4	95 200 b	85 000 b	73 000 b		7,0
8,0	75,7	25,1	75 700 b	69 000 b	63 300 b	54 600 b	8,0
9,0	73,2	24,8	62 800	58 000	53 800	48 100	9,0
10,0	70,7	24,5	53 400	49 900	46 700	42 900	10,0
11,0	68,1	24,0	46 300	43 500	41 000	38 600	11,0
12,0	65,5	23,6	40 800	38 600	36 600	34 700	12,0
13,0	62,8	23,1	36 400	34 600	32 900	31 400	13,0
14,0	60,0	22,5	32 700	31 200	29 800	28 500	14,0
15,0	57,2	21,8	29 600	28 400	27 300	26 200	15,0
16,0	54,2	21,1	27 100	26 100	25 100	24 100	16,0
18,0	47,9	19,4	22 900	22 100	21 400	20 700	18,0
20,0	40,9	17,2	19 700	19 100	18 600	18 000	20,0
22,0	32,6	14,4	17 100	16 700	16 300	15 900	22,0
24,0	21,4	10,2	15 000	14 700	14 400	14 100	24,0

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46 000 kg
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0 kg



 27,0 m							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
6,1	81,5	28,6	118 300 c				6,1
7,0	79,5	28,5	95 300 b	84 100 b			7,0
8,0	77,4	28,2	75 700 b	68 300 b	62 100 b	54 300 b	8,0
9,0	75,2	28,0	62 800	57 500	53 000	48 000	9,0
10,0	72,9	27,7	53 500	49 500	46 000	42 800	10,0
11,0	70,7	27,3	46 300	43 300	40 500	38 000	11,0
12,0	68,4	26,9	40 800	38 400	36 200	34 100	12,0
13,0	66,1	26,4	36 400	34 400	32 600	30 900	13,0
14,0	63,7	25,9	32 700	31 100	29 500	28 100	14,0
15,0	61,3	25,4	29 700	28 300	27 000	25 800	15,0
16,0	58,8	24,8	27 200	26 000	24 900	23 800	16,0
18,0	53,6	23,4	22 900	22 100	21 200	20 400	18,0
20,0	48,0	21,7	19 700	19 000	18 400	17 800	20,0
22,0	41,8	19,5	17 200	16 700	16 200	15 700	22,0
24,0	34,7	16,9	15 100	14 700	14 300	13 900	24,0
26,0	26,0	13,2	13 300	13 000	12 700	12 500	26,0



46 000 kg
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0 kg



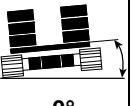
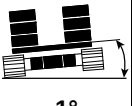
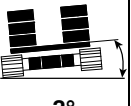
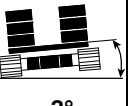
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
6,7	81,2	31,6	102 300 b				6,7
7,0	80,6	31,5	95 300 b				7,0
8,0	78,6	31,3	75 800	67 700	61 000		8,0
9,0	76,7	31,1	62 800	57 000	52 100	47 700	9,0
10,0	74,7	30,8	53 400	49 100	45 300	41 900	10,0
11,0	72,7	30,5	46 300	42 900	39 900	37 200	11,0
12,0	70,7	30,1	40 800	38 100	35 600	33 400	12,0
13,0	68,6	29,7	36 300	34 100	32 100	30 300	13,0
14,0	66,5	29,3	32 700	30 800	29 100	27 600	14,0
15,0	64,4	28,8	29 600	28 100	26 600	25 300	15,0
16,0	62,2	28,3	27 100	25 800	24 500	23 400	16,0
18,0	57,8	27,0	22 900	21 900	21 000	20 100	18,0
20,0	53,0	25,6	19 600	18 900	18 200	17 500	20,0
22,0	48,0	23,9	17 100	16 500	16 000	15 400	22,0
24,0	42,5	21,8	15 000	14 600	14 100	13 700	24,0
26,0	36,3	19,2	13 300	12 900	12 600	12 200	26,0
28,0	28,9	16,0	11 800	11 500	11 300	11 000	28,0
30,0	19,0	11,2	10 500	10 300	10 100	9 900	30,0

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46 000 kg
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0 kg



 33,0 m							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
7,3	80,9	34,5	87 900 b				7,3
8,0	79,7	34,4	75 800	67 000			8,0
9,0	77,9	34,2	62 900	56 500	51 300		9,0
10,0	76,1	33,9	53 500	48 700	44 700	41 100	10,0
11,0	74,3	33,6	46 300	42 600	39 400	36 600	11,0
12,0	72,5	33,3	40 800	37 900	35 200	32 900	12,0
13,0	70,7	33,0	36 400	33 900	31 800	29 800	13,0
14,0	68,8	32,6	32 700	30 700	28 800	27 200	14,0
15,0	66,9	32,1	29 600	27 900	26 400	24 900	15,0
16,0	65,0	31,7	27 100	25 700	24 300	23 100	16,0
18,0	61,0	30,6	22 900	21 800	20 800	19 800	18,0
20,0	56,9	29,3	19 700	18 800	18 000	17 300	20,0
22,0	52,6	27,9	17 100	16 500	15 800	15 200	22,0
24,0	48,0	26,1	15 100	14 500	14 000	13 500	24,0
26,0	43,1	24,1	13 300	12 900	12 500	12 100	26,0
28,0	37,6	21,6	11 900	11 500	11 200	10 900	28,0
30,0	31,2	18,6	10 600	10 400	10 100	9 800	30,0
32,0	23,3	14,5	9 500	9 300	9 100	8 900	32,0



46 000 kg
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0 kg



m	°	m	kg	kg	kg	kg	m
7,3	81,7	37,6	87 900 b				7,3
8,0	80,6	37,4	75 800	66 300			8,0
9,0	78,9	37,2	62 800	56 000	50 400		9,0
10,0	77,3	37,0	53 400	48 300	44 000	40 200	10,0
11,0	75,7	36,7	46 200	42 300	38 800	35 800	11,0
12,0	74,0	36,5	40 700	37 500	34 700	32 200	12,0
13,0	72,3	36,1	36 300	33 600	31 300	29 200	13,0
14,0	70,6	35,8	32 600	30 400	28 400	26 700	14,0
15,0	68,9	35,4	29 500	27 700	26 000	24 500	15,0
16,0	67,2	35,0	27 000	25 400	24 000	22 600	16,0
18,0	63,7	34,0	22 800	21 600	20 500	19 400	18,0
20,0	60,0	32,9	19 600	18 600	17 800	16 900	20,0
22,0	56,2	31,6	17 000	16 300	15 600	14 900	22,0
24,0	52,2	30,1	15 000	14 400	13 800	13 200	24,0
26,0	48,0	28,4	13 200	12 700	12 300	11 800	26,0
28,0	43,5	26,3	11 800	11 400	11 000	10 600	28,0
30,0	38,5	23,9	10 500	10 200	9 900	9 600	30,0
32,0	32,9	21,0	9 400	9 200	8 900	8 700	32,0
34,0	26,3	17,4	8 500	8 300	8 100	7 900	34,0

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46 000 kg
+
0 kg



7,9	81,4	40,5	76 800				7,9
8,0	81,3	40,5	75 800				8,0
9,0	79,8	40,3	62 800	55 500			9,0
10,0	78,3	40,1	53 400	47 900	43 300	39 400	10,0
11,0	76,8	39,9	46 200	41 900	38 300	35 100	11,0
12,0	75,3	39,6	40 700	37 200	34 200	31 600	12,0
13,0	73,7	39,3	36 200	33 400	30 900	28 700	13,0
14,0	72,2	39,0	32 500	30 200	28 100	26 200	14,0
15,0	70,6	38,6	29 500	27 500	25 700	24 100	15,0
16,0	69,1	38,2	27 000	25 200	23 700	22 200	16,0
18,0	65,9	37,4	22 700	21 400	20 200	19 100	18,0
20,0	62,6	36,4	19 500	18 500	17 500	16 700	20,0
22,0	59,2	35,2	17 000	16 200	15 400	14 700	22,0
24,0	55,6	33,9	14 900	14 200	13 600	13 000	24,0
26,0	52,0	32,3	13 200	12 600	12 100	11 600	26,0
28,0	48,1	30,6	11 700	11 300	10 800	10 400	28,0
30,0	43,9	28,6	10 500	10 100	9 800	9 400	30,0
32,0	39,4	26,3	9 400	9 100	8 800	8 500	32,0
34,0	34,4	23,5	8 500	8 200	8 000	7 700	34,0
36,0	28,6	20,1	7 600	7 400	7 200	7 000	36,0
38,0	21,4	15,6	6 900	6 700	6 500	6 400	38,0



46 000 kg
+
0 kg



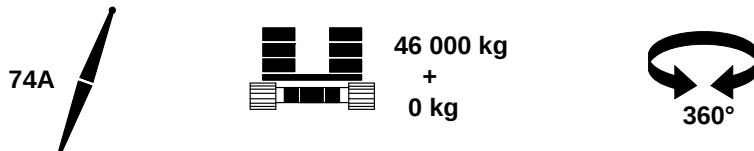
m	°	m	kg	kg	kg	kg	m
8,5	81,2	43,4	68 100				8,5
9,0	80,5	43,4	62 700				9,0
10,0	79,1	43,2	53 300	47 400	42 600		10,0
11,0	77,8	42,9	46 100	41 500	37 700	34 400	11,0
12,0	76,3	42,7	40 600	36 900	33 700	31 000	12,0
13,0	74,9	42,4	36 100	33 100	30 500	28 100	13,0
14,0	73,5	42,1	32 400	29 900	27 700	25 700	14,0
15,0	72,1	41,8	29 400	27 200	25 300	23 600	15,0
16,0	70,6	41,4	26 800	25 000	23 300	21 800	16,0
18,0	67,7	40,6	22 600	21 200	19 900	18 800	18,0
20,0	64,7	39,7	19 400	18 300	17 300	16 300	20,0
22,0	61,6	38,7	16 800	16 000	15 100	14 400	22,0
24,0	58,4	37,5	14 800	14 000	13 400	12 700	24,0
26,0	55,1	36,1	13 000	12 400	11 900	11 400	26,0
28,0	51,7	34,6	11 600	11 100	10 600	10 200	28,0
30,0	48,1	32,8	10 400	9 900	9 500	9 200	30,0
32,0	44,2	30,8	9 300	8 900	8 600	8 300	32,0
34,0	40,1	28,6	8 300	8 000	7 800	7 500	34,0
36,0	35,5	25,9	7 500	7 300	7 000	6 800	36,0
38,0	30,4	22,7	6 800	6 600	6 400	6 200	38,0
40,0	24,2	18,7	6 100	5 900	5 800	5 600	40,0



46 000 kg
+
0 kg



m	°	m	kg	kg	kg	kg	m
9,1	81,0	46,4	61 200				9,1
10,0	79,9	46,2	53 500	47 300			10,0
11,0	78,6	46,0	46 300	41 400	37 400	34 000	11,0
12,0	77,3	45,8	40 800	36 900	33 500	30 700	12,0
13,0	76,0	45,5	36 300	33 100	30 300	27 900	13,0
14,0	74,6	45,2	32 600	29 900	27 600	25 500	14,0
15,0	73,3	44,9	29 500	27 300	25 200	23 400	15,0
16,0	72,0	44,6	27 000	25 000	23 300	21 700	16,0
18,0	69,2	43,9	22 800	21 300	19 900	18 700	18,0
20,0	66,5	43,0	19 500	18 400	17 300	16 300	20,0
22,0	63,7	42,1	17 000	16 100	15 200	14 400	22,0
24,0	60,8	41,0	14 900	14 200	13 500	12 800	24,0
26,0	57,8	39,7	13 200	12 600	12 000	11 400	26,0
28,0	54,7	38,3	11 800	11 200	10 700	10 300	28,0
30,0	51,4	36,8	10 500	10 100	9 700	9 300	30,0
32,0	48,1	35,0	9 500	9 100	8 700	8 400	32,0
34,0	44,5	33,1	8 500	8 200	7 900	7 600	34,0
36,0	40,6	30,8	7 700	7 400	7 200	6 900	36,0
38,0	36,5	28,2	7 000	6 700	6 500	6 300	38,0
40,0	31,8	25,2	6 300	6 100	5 900	5 700	40,0
42,0	26,5	21,5	5 700	5 600	5 400	5 200	42,0
44,0	19,7	16,6	5 200	5 000	4 900	4 800	44,0



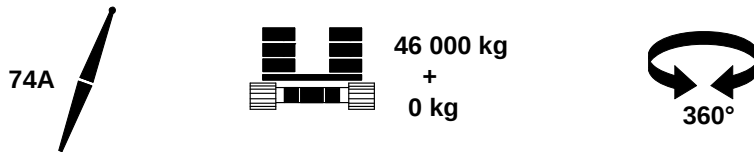
 48,0 m							
m	°	m	0° kg	1° kg	2° kg	3° kg	m
9,1	81,6	49,4	61 200				9,1
10,0	80,5	49,3	53 400				10,0
11,0	79,3	49,1	46 200	41 100	36 900		11,0
12,0	78,1	48,9	40 700	36 500	33 000	30 100	12,0
13,0	76,9	48,6	36 200	32 800	29 900	27 300	13,0
14,0	75,6	48,4	32 500	29 600	27 200	25 000	14,0
15,0	74,4	48,1	29 400	27 000	24 900	23 000	15,0
16,0	73,1	47,8	26 900	24 800	23 000	21 300	16,0
18,0	70,6	47,1	22 600	21 100	19 600	18 300	18,0
20,0	68,0	46,3	19 400	18 200	17 000	16 000	20,0
22,0	65,4	45,4	16 900	15 900	15 000	14 100	22,0
24,0	62,8	44,4	14 800	14 000	13 200	12 500	24,0
26,0	60,0	43,3	13 100	12 400	11 800	11 200	26,0
28,0	57,2	42,0	11 600	11 100	10 500	10 000	28,0
30,0	54,3	40,6	10 400	9 900	9 500	9 000	30,0
32,0	51,3	39,1	9 300	8 900	8 500	8 100	32,0
34,0	48,1	37,3	8 400	8 000	7 700	7 400	34,0
36,0	44,7	35,3	7 600	7 300	7 000	6 700	36,0
38,0	41,2	33,1	6 800	6 600	6 300	6 100	38,0
40,0	37,3	30,6	6 200	6 000	5 700	5 500	40,0
42,0	33,1	27,7	5 600	5 400	5 200	5 000	42,0
44,0	28,3	24,2	5 100	4 900	4 700	4 600	44,0
46,0	22,6	19,9	4 600	4 400	4 300	4 100	46,0



46 000 kg
+
0 kg

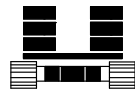


9,8	81,4	52,4	55 300				9,8
10,0	81,1	52,3	53 300				10,0
11,0	79,9	52,1	46 100	40 700			11,0
12,0	78,8	51,9	40 600	36 200	32 600		12,0
13,0	77,6	51,7	36 100	32 500	29 500	26 800	13,0
14,0	76,5	51,5	32 400	29 400	26 800	24 500	14,0
15,0	75,3	51,2	29 300	26 800	24 500	22 600	15,0
16,0	74,2	50,9	26 800	24 600	22 600	20 900	16,0
18,0	71,8	50,3	22 500	20 900	19 400	18 000	18,0
20,0	69,4	49,5	19 300	18 000	16 800	15 700	20,0
22,0	67,0	48,7	16 800	15 700	14 700	13 800	22,0
24,0	64,5	47,8	14 700	13 800	13 000	12 300	24,0
26,0	62,0	46,7	13 000	12 200	11 600	10 900	26,0
28,0	59,4	45,6	11 500	10 900	10 300	9 800	28,0
30,0	56,7	44,3	10 300	9 800	9 300	8 800	30,0
32,0	53,9	42,9	9 200	8 800	8 300	7 900	32,0
34,0	51,1	41,3	8 300	7 900	7 500	7 200	34,0
36,0	48,1	39,5	7 500	7 100	6 800	6 500	36,0
38,0	44,9	37,6	6 700	6 400	6 200	5 900	38,0
40,0	41,6	35,4	6 100	5 800	5 600	5 300	40,0
42,0	38,0	32,9	5 500	5 300	5 100	4 800	42,0
44,0	34,2	30,1	5 000	4 800	4 600	4 400	44,0
46,0	29,8	26,8	4 500	4 300	4 100	4 000	46,0
48,0	24,8	22,8	4 000	3 900	3 700	3 600	48,0
50,0	18,5	17,6	3 600	3 500	3 400	3 300	50,0



m	°	m	kg	kg	kg	kg	m
10,4	81,2	55,3	50 300				10,4
11,0	80,5	55,2	46 000	40 500			11,0
12,0	79,4	55,0	40 500	35 900			12,0
13,0	78,3	54,8	36 000	32 200	29 000	26 300	13,0
14,0	77,3	54,6	32 300	29 100	26 400	24 100	14,0
15,0	76,2	54,3	29 200	26 500	24 200	22 200	15,0
16,0	75,1	54,1	26 700	24 300	22 300	20 500	16,0
18,0	72,9	53,5	22 400	20 600	19 100	17 700	18,0
20,0	70,6	52,8	19 200	17 800	16 500	15 400	20,0
22,0	68,3	52,0	16 600	15 500	14 500	13 500	22,0
24,0	66,0	51,1	14 500	13 600	12 800	12 000	24,0
26,0	63,7	50,1	12 800	12 000	11 300	10 700	26,0
28,0	61,2	49,1	11 400	10 700	10 100	9 500	28,0
30,0	58,8	47,9	10 100	9 600	9 100	8 600	30,0
32,0	56,2	46,6	9 100	8 600	8 100	7 700	32,0
34,0	53,6	45,1	8 100	7 700	7 300	7 000	34,0
36,0	50,9	43,5	7 300	7 000	6 600	6 300	36,0
38,0	48,1	41,8	6 600	6 300	6 000	5 700	38,0
40,0	45,1	39,8	5 900	5 700	5 400	5 100	40,0
42,0	42,0	37,7	5 300	5 100	4 900	4 600	42,0
44,0	38,7	35,3	4 800	4 600	4 400	4 200	44,0
46,0	35,1	32,5	4 300	4 100	4 000	3 800	46,0
48,0	31,1	29,4	3 900	3 700	3 600	3 400	48,0
50,0	26,6	25,7	3 500	3 300	3 200	3 100	50,0
52,0	21,3	21,0	3 100	3 000	2 800	2 700	52,0

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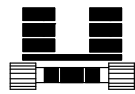


46 000 kg
+
0 kg



10,4	81,7	58,3	50 300				10,4
11,0	81,0	58,2	46 000				11,0
12,0	80,0	58,1	40 400	35 600			12,0
13,0	79,0	57,9	35 900	31 900	28 600		13,0
14,0	77,9	57,6	32 200	28 900	26 100	23 700	14,0
15,0	76,9	57,4	29 100	26 300	23 900	21 800	15,0
16,0	75,9	57,1	26 600	24 100	22 000	20 200	16,0
18,0	73,8	56,6	22 300	20 500	18 800	17 400	18,0
20,0	71,7	55,9	19 100	17 600	16 300	15 100	20,0
22,0	69,5	55,2	16 500	15 400	14 300	13 300	22,0
24,0	67,4	54,4	14 500	13 500	12 600	11 800	24,0
26,0	65,1	53,5	12 700	11 900	11 200	10 500	26,0
28,0	62,9	52,5	11 300	10 600	10 000	9 400	28,0
30,0	60,6	51,4	10 100	9 500	8 900	8 400	30,0
32,0	58,2	50,1	9 000	8 500	8 000	7 500	32,0
34,0	55,8	48,8	8 100	7 600	7 200	6 800	34,0
36,0	53,3	47,4	7 200	6 800	6 500	6 100	36,0
38,0	50,8	45,8	6 500	6 200	5 800	5 500	38,0
40,0	48,1	44,0	5 900	5 600	5 300	5 000	40,0
42,0	45,3	42,1	5 300	5 000	4 700	4 500	42,0
44,0	42,4	39,9	4 700	4 500	4 300	4 100	44,0
46,0	39,2	37,6	4 200	4 000	3 800	3 600	46,0
48,0	35,9	34,9	3 800	3 600	3 400	3 300	48,0
50,0	32,2	31,9	3 400	3 200	3 100	2 900	50,0
52,0	28,1	28,3	3 000	2 900	2 700	2 600	52,0
54,0	23,4	24,1	2 700	2 500	2 400	2 300	54,0
56,0	17,4	18,5	2 300	2 200	2 100	2 000	56,0

MLC165-1 S-1

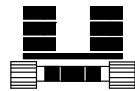


46 000 kg
+
0 kg



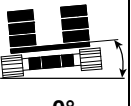
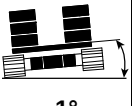
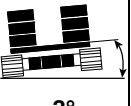
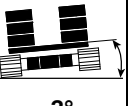
m	°	m	kg	kg	kg	kg	m
11,0	81,5	61,3	46 000				11,0
12,0	80,5	61,1	40 300				12,0
13,0	79,5	60,9	35 800	31 600			13,0
14,0	78,6	60,7	32 100	28 600	25 700	22 400	14,0
15,0	77,6	60,5	29 000	26 000	23 500	21 400	15,0
16,0	76,6	60,3	26 500	23 900	21 700	19 800	16,0
18,0	74,6	59,7	22 200	20 200	18 500	17 000	18,0
20,0	72,6	59,1	18 900	17 400	16 000	14 800	20,0
22,0	70,6	58,4	16 400	15 200	14 000	13 000	22,0
24,0	68,6	57,7	14 300	13 300	12 400	11 500	24,0
26,0	66,5	56,8	12 600	11 700	10 900	10 200	26,0
28,0	64,4	55,9	11 100	10 400	9 700	9 100	28,0
30,0	62,2	54,8	9 900	9 300	8 700	8 200	30,0
32,0	60,0	53,7	8 800	8 300	7 800	7 300	32,0
34,0	57,8	52,4	7 900	7 400	7 000	6 600	34,0
36,0	55,5	51,1	7 100	6 700	6 300	5 900	36,0
38,0	53,1	49,6	6 300	6 000	5 600	5 300	38,0
40,0	50,7	48,0	5 700	5 400	5 100	4 800	40,0
42,0	48,1	46,3	5 100	4 800	4 600	4 300	42,0
44,0	45,5	44,3	4 600	4 300	4 100	3 800	44,0
46,0	42,7	42,2	4 100	3 900	3 700	3 400	46,0
48,0	39,8	39,9	3 700	3 500	3 300	3 100	48,0
50,0	36,6	37,3	3 200	3 100	2 900	2 700	50,0
52,0	33,2	34,4	2 900	2 700	2 600	2 400	52,0
54,0	29,5	31,0	2 500	2 400	2 300	2 100	54,0
56,0	25,2	27,0	2 200	2 100	2 000	1 800	56,0
58,0	20,1	22,1	1 800	1 800	1 700	1 500	58,0

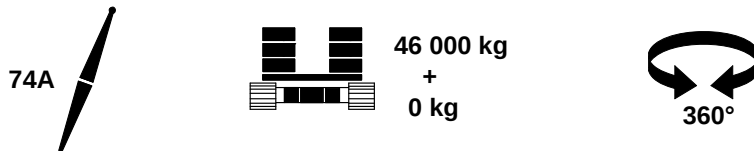
MLC165-1 S-1



46 000 kg
+
0 kg

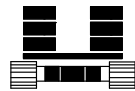


 63,0 m							
 m	 °	 m	 0° kg	 1° kg	 2° kg	 3° kg	 m
11,6	81,3	64,2	42 300				11,6
12,0	81,0	64,2	40 200				12,0
13,0	80,0	64,0	35 700	31 400			13,0
14,0	79,1	63,8	32 000	28 300	25 300		14,0
15,0	78,2	63,6	28 900	25 800	23 200	19 700	15,0
16,0	77,2	63,3	26 300	23 700	21 400	19 000	16,0
18,0	75,4	62,8	22 100	20 000	18 300	16 700	18,0
20,0	73,5	62,2	18 800	17 200	15 800	14 500	20,0
22,0	71,6	61,6	16 300	15 000	13 800	12 700	22,0
24,0	69,6	60,9	14 200	13 100	12 100	11 300	24,0
26,0	67,7	60,1	12 400	11 600	10 700	10 000	26,0
28,0	65,7	59,2	11 000	10 200	9 500	8 900	28,0
30,0	63,6	58,2	9 800	9 100	8 500	7 900	30,0
32,0	61,6	57,1	8 700	8 100	7 600	7 100	32,0
34,0	59,5	56,0	7 800	7 300	6 800	6 400	34,0
36,0	57,3	54,7	6 900	6 500	6 100	5 700	36,0
38,0	55,1	53,3	6 200	5 800	5 500	5 100	38,0
40,0	52,9	51,9	5 600	5 200	4 900	4 600	40,0
42,0	50,5	50,2	5 000	4 700	4 400	4 100	42,0
44,0	48,1	48,5	4 400	4 200	3 900	3 700	44,0
46,0	45,6	46,6	4 000	3 700	3 500	3 300	46,0
48,0	43,0	44,5	3 500	3 300	3 100	2 900	48,0
50,0	40,2	42,2	3 100	2 900	2 700	2 600	50,0
52,0	37,2	39,6	2 700	2 600	2 400	2 200	52,0
54,0	34,1	36,8	2 400	2 300	2 100	1 900	54,0
56,0	30,6	33,5	2 000	1 900	1 800	1 600	56,0
58,0	26,7	29,8	1 700	1 600			58,0



m	°	m	kg	kg	kg	kg	m
12,2	81,2	67,2	39 100				12,2
13,0	80,5	67,0	35 600	30 300			13,0
14,0	79,6	66,8	31 800	28 100	22 500		14,0
15,0	78,7	66,6	28 800	25 500	22 400		15,0
16,0	77,8	66,4	26 200	23 400	21 000	17 300	16,0
18,0	76,0	65,9	21 900	19 800	18 000	16 200	18,0
20,0	74,2	65,4	18 700	17 000	15 500	14 200	20,0
22,0	72,4	64,7	16 100	14 800	13 600	12 500	22,0
24,0	70,6	64,1	14 000	12 900	11 900	11 000	24,0
26,0	68,7	63,3	12 300	11 400	10 500	9 700	26,0
28,0	66,8	62,4	10 900	10 100	9 300	8 600	28,0
30,0	64,9	61,5	9 600	8 900	8 300	7 700	30,0
32,0	63,0	60,5	8 500	7 900	7 400	6 900	32,0
34,0	61,0	59,4	7 600	7 100	6 600	6 100	34,0
36,0	59,0	58,3	6 800	6 300	5 900	5 500	36,0
38,0	56,9	57,0	6 100	5 700	5 300	4 900	38,0
40,0	54,8	55,6	5 400	5 000	4 700	4 400	40,0
42,0	52,6	54,1	4 800	4 500	4 200	3 900	42,0
44,0	50,4	52,5	4 300	4 000	3 700	3 500	44,0
46,0	48,1	50,7	3 800	3 600	3 300	3 100	46,0
48,0	45,7	48,8	3 400	3 100	2 900	2 700	48,0
50,0	43,2	46,7	3 000	2 800	2 600	2 400	50,0
52,0	40,6	44,4	2 600	2 400	2 200	2 000	52,0
54,0	37,8	41,9	2 200	2 100	1 900	1 700	54,0
56,0	34,8	39,1	1 800	1 700	1 500		56,0

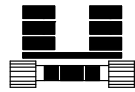
MLC165-1 S-1



46 000 kg
+
0 kg



m	°	m	kg	kg	kg	kg	m
12,2	81,6	70,2	36 700				12,2
13,0	80,9	70,1	35 500				13,0
14,0	80,1	69,9	31 700	27 200			14,0
15,0	79,2	69,7	28 700	25 300	19 900		15,0
16,0	78,4	69,5	26 100	23 200	19 700		16,0
18,0	76,7	69,0	21 800	19 600	17 700	15 200	18,0
20,0	74,9	68,5	18 600	16 800	15 300	13 900	20,0
22,0	73,2	67,9	16 000	14 600	13 300	12 200	22,0
24,0	71,5	67,3	13 900	12 800	11 700	10 800	24,0
26,0	69,7	66,5	12 200	11 200	10 300	9 500	26,0
28,0	67,9	65,7	10 700	9 900	9 200	8 400	28,0
30,0	66,1	64,9	9 500	8 800	8 100	7 500	30,0
32,0	64,3	63,9	8 400	7 800	7 200	6 700	32,0
34,0	62,4	62,9	7 500	7 000	6 500	6 000	34,0
36,0	60,5	61,8	6 700	6 200	5 800	5 300	36,0
38,0	58,6	60,6	5 900	5 500	5 100	4 700	38,0
40,0	56,6	59,3	5 300	4 900	4 600	4 200	40,0
42,0	54,6	57,9	4 700	4 400	4 100	3 700	42,0
44,0	52,5	56,4	4 200	3 900	3 600	3 300	44,0
46,0	50,3	54,7	3 700	3 400	3 200	2 900	46,0
48,0	48,1	53,0	3 300	3 000	2 800	2 600	48,0
50,0	45,8	51,1	2 900	2 600	2 400	2 200	50,0
52,0	43,4	49,0	2 400	2 300	2 100	1 900	52,0
54,0	40,9	46,7	2 000	1 900	1 700	1 500	54,0
56,0	38,3	44,3	1 700	1 600			56,0



46 000 kg
+
0 kg



72,0 m				
m	o	m	0° kg	1° kg
12,8	81,4	73,1	35 900	
13,0	81,3	73,1	35 100	
14,0	80,5	72,9	31 400	24 400
15,0	79,7	72,7	28 400	24 300
16,0	78,9	72,5	25 800	22 800
18,0	77,2	72,1	21 500	19 200
20,0	75,6	71,6	18 200	16 400
22,0	73,9	71,0	15 700	14 200
24,0	72,3	70,4	13 600	12 400
26,0	70,6	69,7	11 800	10 800
28,0	68,9	69,0	10 400	9 500
30,0	67,2	68,1	9 200	8 400
32,0	65,4	67,2	8 100	7 400
34,0	63,6	66,2	7 100	6 600
36,0	61,8	65,2	6 300	5 800
38,0	60,0	64,1	5 600	5 100
40,0	58,1	62,8	4 900	4 500
42,0	56,2	61,5	4 400	4 000
44,0	54,3	60,1	3 800	3 500
46,0	52,3	58,6	3 300	3 100
48,0	50,2	56,9	2 800	2 600
50,0	48,1	55,2	2 400	2 200
52,0	45,9	53,3	1 900	1 800
54,0	43,6	51,2	1 500	