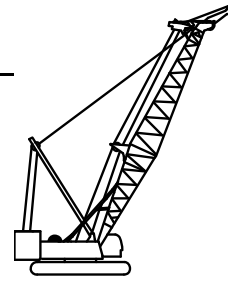


Liftcrane Boom Capacities

Boom No. 74
45 130 kg Crane Counterweight
0 kg Carbody Counterweight
360 Degree Rating



MLC165
SERIES 1



LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and are calculated to comply with EN 13000, ISO 4305 and include factors based on a 4,0 degree tipping angle. Capacities based on structural competence are denoted by an asterisk (*).

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, 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. Refer to Boom Rigging **No. 81019793** or **No. 83004083** and Wire Rope Specification chart **No. 9292-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.



WIND CONDITIONS: Machine may operate with full working load in wind speeds up to the maximum wind speed value provided crane operator judgment is used to allow for wind effect on lifted load and other considerations noted on capacity chart are followed. Wind speed to be measured at boom point elevation. Refer to Wind Conditions Chart **No. 9289-A** for effect of wind on lifted load, additional maximum wind speeds when lifting percentage of full working load, and instructions for parking when wind speed exceeds maximum operating wind speed.

MACHINE TRAVEL: Machine to travel on a firm, level, and uniformly supporting surface. *Travel with 100 percent of rated load prohibited.* Travel restricted to 90 percent of rated capacity with speed not to exceed 0,4 m/s. Boom must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 9290-A**.

MAX PERMISSIBLE SLEWING SPEED: Slewing operation with working load shall not exceed 0,4 m/s as measured at the operating radius. The amount of time to brake or start slewing a working load shall not be less than 2,5 seconds.



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, four 28 mm boom pendants, 45 130 kg crane counterweight, 0 kg carbody counterweight.



45 130 kg Crane Counterweight
6 Side Boxes

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

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, 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.

REFERENCE ONLY

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 with (a), auxiliary drum mounted in boom butt, wire rope guides 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.

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)						
15,0 - 24,0	3 500	—	—	—	—	—	—
27,0 - 30,0	3 500	3 500	3 500	3 500	3 500	3 500	3 500
33,0	3 500	3 500	3 500	3 500	3 500	2 650	2 650
36,0	3 500	3 500	3 500	2 650	2 650	2 650	750
39,0	3 500	3 500	2 650	2 650	750	750	750
42,0	3 500	2 650	750	750	750	750	750
45,0	3 500	750	750	750	750	750	750
48,0	2 650	750	750	750	#	#	#
51,0	750	750	#	#	#	a	a
54,0	750	#	#	a	RAISING NOT PERMITTED		
57,0	750	a					
60,0	#						
63,0	b						
66,0 - 72,0							

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)						
15,0 - 24,0	3 500	—	—	—	—	—	—
27,0 - 36,0	3 500	3 500	3 500	3 500	3 500	3 500	3 500
39,0	3 500	3 500	3 500	3 500	3 500	2 650	2 650
42,0	3 500	3 500	3 500	2 650	2 650	750	750
45,0	3 500	3 500	2 650	2 650	750	750	750
48,0	3 500	2 650	750	750	750	750	750
51,0	3 500	750	750	750	750	750	#
54,0	2 650	750	750	750	#	#	#
57,0	2 650	750	#	#	#	a	
60,0	750	#	a	a	RAISING NOT PERMITTED		
63,0	750						
66,0	#						
69,0	#						
72,0	a, b						

Explanation of Symbols



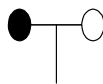
Boom No. 74



Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Maximum Wind Speed
(see page 1)



Boom Length



Operating Radius
(see page 1)



Boom Angle
(see page 1)



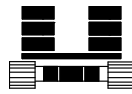
Boom Point Elevation
(see page 1)



Lifting Capacities
(see page 1)

MLC165 S-1

EN 13000



45 130 kg
+
0 kg



15,0 m			
m	°	m	kg
4,3	81,7	16,8	165 000 *d
4,5	80,8	16,8	159 600 *d
5,0	78,8	16,7	144 800 *d
5,5	76,8	16,5	132 000 *d
6,0	74,9	16,4	121 200 d
7,0	70,8	16,0	98 600 c
8,0	66,6	15,6	82 500 b
9,0	62,3	15,0	68 600
10,0	57,8	14,4	58 300
11,0	53,0	13,6	50 700
12,0	47,8	12,7	44 600
13,0	42,1	11,6	39 700
14,0	35,7	10,3	35 700
15,0	27,9	8,5	32 300

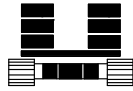
18,0 m			
m	°	m	kg
4,9	81,1	19,8	148 300 *d
5,0	80,7	19,7	144 900 *d
5,5	79,1	19,6	131 000 c
6,0	77,5	19,5	116 300 c
7,0	74,1	19,2	94 700 c
8,0	70,8	18,9	79 800 b
9,0	67,3	18,4	68 600
10,0	63,7	17,9	58 600
11,0	60,1	17,3	50 800
12,0	56,2	16,7	44 800
13,0	52,2	15,9	39 900
14,0	47,9	15,0	35 900
15,0	43,3	13,9	32 600
16,0	38,1	12,7	29 700
18,0	25,2	9,1	25 000

21,0 m			
m	°	m	kg
5,2	81,6	22,8	134 500 d
5,5	80,7	22,7	124 200 c
6,0	79,3	22,6	110 800 c
7,0	76,5	22,3	90 900 c
8,0	73,6	22,0	77 000 b
9,0	70,7	21,7	66 500
10,0	67,8	21,3	58 300
11,0	64,7	20,8	50 800
12,0	61,6	20,2	44 700
13,0	58,4	19,6	39 900
14,0	55,1	18,9	35 900
15,0	51,6	18,1	32 500
16,0	47,9	17,2	29 600
18,0	39,8	15,0	25 000
20,0	29,7	11,9	21 500

REFERENCE

MLC165 S-1

EN 13000



45 130 kg
+
0 kg



24,0 m				11 m/s
m	°	m	kg	
5,8	81,1	25,7	110 700 c	
6,0	80,6	25,7	106 000 c	
7,0	78,2	25,4	87 500 c	
8,0	75,7	25,2	74 400 b	
9,0	73,2	24,9	64 500	
10,0	70,7	24,5	56 900	
11,0	68,1	24,1	50 700	
12,0	65,5	23,6	44 800	
13,0	62,8	23,1	39 900	
14,0	60,0	22,5	35 900	
15,0	57,2	21,9	32 500	
16,0	54,2	21,2	29 600	
18,0	48,0	19,5	25 000	
20,0	40,9	17,3	21 500	
22,0	32,6	14,5	18 700	
24,0	21,5	10,2	16 400	

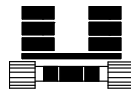
27,0 m				11 m/s
m	°	m	kg	
6,1	81,5	28,7	99 500 c	
7,0	79,5	28,5	84 300 b	
8,0	77,4	28,3	72 000 b	
9,0	75,2	28,0	62 700	
10,0	72,9	27,7	55 400	
11,0	70,7	27,3	49 500	
12,0	68,4	26,9	44 600	
13,0	66,1	26,5	39 900	
14,0	63,7	26,0	35 900	
15,0	61,3	25,4	32 500	
16,0	58,8	24,8	29 700	
18,0	53,6	23,4	25 100	
20,0	48,0	21,7	21 600	
22,0	41,8	19,6	18 800	
24,0	34,7	16,9	16 500	
26,0	25,9	13,3	14 600	

30,0 m				11 m/s
m	°	m	kg	
6,7	81,2	31,6	85 500 b	
7,0	80,6	31,6	81 500 b	
8,0	78,6	31,4	69 700 b	
9,0	76,7	31,1	60 800	
10,0	74,7	30,8	53 800	
11,0	72,7	30,5	48 200	
12,0	70,7	30,2	43 500	
13,0	68,6	29,8	39 600	
14,0	66,5	29,3	35 800	
15,0	64,4	28,8	32 500	
16,0	62,2	28,3	29 600	
18,0	57,8	27,1	25 000	
20,0	53,1	25,7	21 500	
22,0	48,0	23,9	18 700	
24,0	42,5	21,9	16 400	
26,0	36,3	19,3	14 500	
28,0	29,0	16,0	12 900	
30,0	19,1	11,2	11 500	

REFERENCE ONLY

MLC165 S-1

EN 13000



45 130 kg
+
0 kg



33,0 m		9 m/s	
m	°	m	kg
7,3	80,9	34,6	74 700 b
8,0	79,7	34,4	67 600 b
9,0	77,9	34,2	59 100
10,0	76,1	34,0	52 500
11,0	74,3	33,7	47 100
12,0	72,5	33,4	42 600
13,0	70,7	33,0	38 800
14,0	68,8	32,6	35 600
15,0	66,9	32,2	32 500
16,0	65,0	31,7	29 600
18,0	61,0	30,6	25 000
20,0	56,9	29,4	21 500
22,0	52,6	27,9	18 700
24,0	48,0	26,2	16 400
26,0	43,1	24,1	14 600
28,0	37,6	21,7	12 900
30,0	31,2	18,6	11 500
32,0	23,3	14,5	10 300

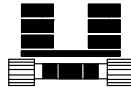
36,0 m		9 m/s	
m	°	m	kg
7,3	81,7	37,6	72 300 b
8,0	80,6	37,5	65 500 b
9,0	78,9	37,3	57 500
10,0	77,3	37,1	51 100
11,0	75,7	36,8	45 900
12,0	74,0	36,5	41 600
13,0	72,3	36,2	37 900
14,0	70,6	35,8	34 800
15,0	68,9	35,4	32 100
16,0	67,2	35,0	29 500
18,0	63,7	34,0	24 900
20,0	60,0	32,9	21 400
22,0	56,2	31,6	18 600
24,0	52,3	30,1	16 300
26,0	48,0	28,4	14 400
28,0	43,5	26,4	12 800
30,0	38,6	24,0	11 500
32,0	33,0	21,1	10 300
34,0	26,3	17,4	9 200

39,0 m		9 m/s	
m	°	m	kg
7,9	81,4	40,5	64 200
8,0	81,3	40,5	63 600
9,0	79,8	40,3	55 900
10,0	78,3	40,1	49 800
11,0	76,8	39,9	44 800
12,0	75,3	39,6	40 600
13,0	73,7	39,3	37 100
14,0	72,2	39,0	34 000
15,0	70,6	38,7	31 400
16,0	69,1	38,3	29 000
18,0	65,9	37,4	24 900
20,0	62,6	36,4	21 300
22,0	59,2	35,2	18 500
24,0	55,6	33,9	16 200
26,0	51,9	32,4	14 300
28,0	48,0	30,6	12 800
30,0	43,9	28,6	11 400
32,0	39,4	26,3	10 200
34,0	34,4	23,5	9 200
36,0	28,6	20,1	8 200
38,0	21,3	15,6	7 400

REFERENCED

MLC165 S-1

EN 13000



45 130 kg
+
0 kg



42,0 m		9 m/s	
m	°	m	kg
8,5	81,2	43,5	57 500
9,0	80,5	43,4	54 400
10,0	79,1	43,2	48 500
11,0	77,8	43,0	43 600
12,0	76,3	42,7	39 600
13,0	74,9	42,5	36 200
14,0	73,5	42,2	33 300
15,0	72,1	41,8	30 700
16,0	70,6	41,5	28 400
18,0	67,7	40,7	24 600
20,0	64,7	39,8	21 200
22,0	61,6	38,7	18 400
24,0	58,4	37,5	16 100
26,0	55,1	36,2	14 200
28,0	51,7	34,6	12 600
30,0	48,1	32,9	11 200
32,0	44,2	30,9	10 100
34,0	40,1	28,6	9 000
36,0	35,5	25,9	8 100
38,0	30,4	22,7	7 300
40,0	24,2	18,7	6 600

45,0 m		9 m/s	
m	°	m	kg
9,1	81,0	46,4	52 200
10,0	79,9	46,3	47 500
11,0	78,6	46,1	42 900
12,0	77,3	45,8	39 000
13,0	76,0	45,6	35 700
14,0	74,6	45,3	32 800
15,0	73,3	45,0	30 300
16,0	72,0	44,7	28 100
18,0	69,3	43,9	24 400
20,0	66,5	43,1	21 300
22,0	63,7	42,1	18 500
24,0	60,8	41,0	16 200
26,0	57,8	39,8	14 300
28,0	54,7	38,4	12 800
30,0	51,5	36,9	11 400
32,0	48,1	35,1	10 200
34,0	44,5	33,1	9 200
36,0	40,7	30,9	8 300
38,0	36,5	28,3	7 500
40,0	31,9	25,3	6 800
42,0	26,5	21,5	6 100
44,0	19,8	16,7	5 500

48,0 m		7 m/s	
m	°	m	kg
9,1	81,6	49,5	50 800
10,0	80,5	49,3	46 300
11,0	79,3	49,1	41 800
12,0	78,1	48,9	38 100
13,0	76,9	48,7	34 900
14,0	75,6	48,4	32 100
15,0	74,4	48,1	29 600
16,0	73,1	47,8	27 500
18,0	70,6	47,1	23 900
20,0	68,0	46,4	21 000
22,0	65,4	45,5	18 400
24,0	62,8	44,4	16 100
26,0	60,0	43,3	14 200
28,0	57,2	42,1	12 600
30,0	54,3	40,7	11 200
32,0	51,2	39,1	10 100
34,0	48,1	37,3	9 100
36,0	44,7	35,4	8 100
38,0	41,2	33,2	7 300
40,0	37,3	30,7	6 600
42,0	33,1	27,7	5 900
44,0	28,3	24,3	5 400
46,0	22,6	19,9	4 800

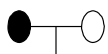
MLC165 S-1

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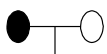


45 130 kg
+
0 kg

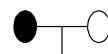


51,0 m  **7 m/s**

m	°	m	kg
9,8	81,4	52,4	46 300
10,0	81,1	52,4	45 200
11,0	79,9	52,2	40 800
12,0	78,8	52,0	37 200
13,0	77,6	51,8	34 100
14,0	76,5	51,5	31 300
15,0	75,3	51,2	29 000
16,0	74,2	51,0	26 900
18,0	71,8	50,3	23 400
20,0	69,4	49,6	20 600
22,0	67,0	48,8	18 200
24,0	64,5	47,8	16 000
26,0	62,0	46,8	14 100
28,0	59,4	45,6	12 500
30,0	56,7	44,3	11 100
32,0	53,9	42,9	9 900
34,0	51,1	41,3	8 900
36,0	48,1	39,6	8 000
38,0	44,9	37,6	7 200
40,0	41,6	35,4	6 500
42,0	38,1	33,0	5 800
44,0	34,2	30,2	5 300
46,0	29,8	26,9	4 700
48,0	24,8	22,9	4 200
50,0	18,5	17,6	3 700

54,0 m  **7 m/s**

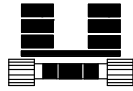
m	°	m	kg
10,4	81,2	55,3	42 400
11,0	80,5	55,2	39 900
12,0	79,4	55,0	36 300
13,0	78,3	54,8	33 300
14,0	77,3	54,6	30 700
15,0	76,2	54,4	28 300
16,0	75,1	54,1	26 300
18,0	72,8	53,5	22 900
20,0	70,6	52,8	20 100
22,0	68,3	52,0	17 800
24,0	66,0	51,1	15 800
26,0	63,7	50,2	13 900
28,0	61,2	49,1	12 300
30,0	58,8	47,9	10 900
32,0	56,2	46,6	9 700
34,0	53,6	45,2	8 700
36,0	50,9	43,6	7 800
38,0	48,1	41,8	7 000
40,0	45,1	39,9	6 300
42,0	42,0	37,7	5 700
44,0	38,7	35,3	5 100
46,0	35,1	32,6	4 500
48,0	31,1	29,4	4 000
50,0	26,6	25,7	3 600
52,0	21,2	21,0	3 200

57,0 m  **7 m/s**

m	°	m	kg
10,4	81,7	58,4	41 400
11,0	81,0	58,3	38 900
12,0	80,0	58,1	35 500
13,0	79,0	57,9	32 600
14,0	77,9	57,7	30 000
15,0	76,9	57,5	27 700
16,0	75,9	57,2	25 800
18,0	73,8	56,6	22 400
20,0	71,7	56,0	19 700
22,0	69,5	55,2	17 400
24,0	67,4	54,4	15 500
26,0	65,1	53,5	13 800
28,0	62,9	52,5	12 200
30,0	60,6	51,4	10 800
32,0	58,2	50,2	9 700
34,0	55,8	48,9	8 700
36,0	53,3	47,4	7 700
38,0	50,8	45,8	6 900
40,0	48,1	44,1	6 200
42,0	45,3	42,1	5 600
44,0	42,4	40,0	5 000
46,0	39,2	37,6	4 500
48,0	35,9	34,9	4 000
50,0	32,2	31,9	3 500
52,0	28,2	28,4	3 100
54,0	23,4	24,1	2 700
56,0	17,5	18,5	2 300

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EN 13000



45 130 kg
+
0 kg



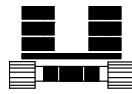
60,0 m			
7 m/s			
m	°	m	kg
11,0	81,5	61,3	38 100
12,0	80,5	61,2	34 600
13,0	79,5	61,0	31 800
14,0	78,6	60,8	29 300
15,0	77,6	60,5	27 100
16,0	76,6	60,3	25 200
18,0	74,6	59,8	21 900
20,0	72,6	59,1	19 200
22,0	70,6	58,5	17 000
24,0	68,5	57,7	15 100
26,0	66,5	56,8	13 500
28,0	64,4	55,9	12 000
30,0	62,2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

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

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

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EN 13000



45 130 kg
+
0 kg



69,0 m		7 m/s	
m	°	m	kg
12,2	81,6	70,2	31 700
13,0	80,9	70,1	29 700
14,0	80,1	69,9	27 300
15,0	79,2	69,7	25 300
16,0	78,4	69,5	23 500
18,0	76,7	69,1	20 400
20,0	74,9	68,5	17 900
22,0	73,2	68,0	15 800
24,0	71,5	67,3	14 000
26,0	69,7	66,6	12 500
28,0	67,9	65,8	11 200
30,0	66,1	64,9	10 000
32,0	64,3	63,9	9 000
34,0	62,4	62,9	8 000
36,0	60,5	61,8	7 100
38,0	58,6	60,6	6 300
40,0	56,6	59,3	5 600
42,0	54,5	57,9	5 000
44,0	52,5	56,4	4 400
46,0	50,3	54,8	3 800
48,0	48,1	53,0	3 400
50,0	45,8	51,1	2 900
52,0	43,4	49,0	2 500
54,0	40,9	46,8	2 100
56,0	38,3	44,3	1 800

72,0 m		7 m/s	
m	°	m	kg
12,8	81,4	73,2	29 300
13,0	81,3	73,2	28 900
14,0	80,5	73,0	26 600
15,0	79,7	72,8	24 700
16,0	78,9	72,6	22 900
18,0	77,2	72,2	19 800
20,0	75,6	71,7	17 400
22,0	73,9	71,1	15 300
24,0	72,3	70,5	13 500
26,0	70,6	69,8	12 000
28,0	68,9	69,0	10 700
30,0	67,2	68,2	9 500
32,0	65,4	67,3	8 500
34,0	63,6	66,3	7 600
36,0	61,8	65,2	6 800
38,0	60,0	64,1	6 000
40,0	58,1	62,9	5 300
42,0	56,2	61,6	4 700
44,0	54,3	60,2	4 100
46,0	52,3	58,6	3 500
48,0	50,2	57,0	3 000
50,0	48,1	55,2	2 600
52,0	45,9	53,3	2 200
54,0	43,6	51,3	1 800
56,0	41,3	49,0	1 500