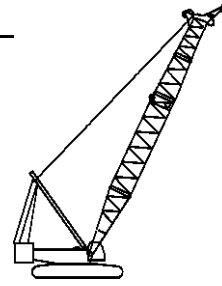


Liftcrane Boom Capacities

Boom No. 58WA with Heavy Lift Top
166 920 kg Crane Counterweight
54 430 kg Carbody Counterweight
360 Degree Rating



Maniowoc

16000
SERIES 4



LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads 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 (*).

Standard upper boom point capacity for liftcrane service with single part whip line is 13 610 kg or 27 220 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of 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 in a level position on a firm uniformly supporting surface. Refer to boom rigging **No. 81020381** Wire Rope Specification chart **No. 9237-A**, Counterweight Arrangement chart **No. 8682-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. 8688-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 [up to 1 percent (0,5 degrees) grade] 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. 9236-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.

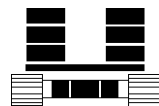
MACHINE EQUIPMENT: Machine equipped with 10 363 mm crawlers, 1 524 mm treads, 9 754 mm live mast, 26 part boom hoist reeving, boom support straps, 166 920 kg crane counterweight, two 13 610 kg and four 6 800 kg carbody counterweights.

WITH OR WITHOUT BOOM CATWALKS	
Maximum Boom Length Lifted Unassisted	
Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length (a) 90,0 m	Boom Length (a) 81,0 m
Load block, hook, and weight ball on ground until combined weights are within capacity of chart. (a) Upper boom point cannot be attached.	

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

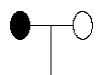
Explanation of Symbols

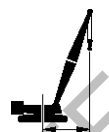
 Boom No. 58WA with Heavy Lift Top

 Crane Counterweight
+
Carbody Counterweight

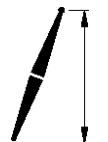
 360 Degree Rating

 Boom Length

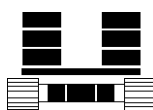
 Maximum Wind Speed
(see page 1)

 Operating Radius
(see page 1)

 Boom Angle
(see page 1)

 Boom Point Elevation
(see page 1)

 Lifting Capacities
(see page 1)



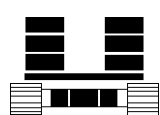
166 920 kg
+
54 430 kg



30,0 m			
13 m/s			
m	m	m	kg
6,4	82,9	32,3	400 000 *
7,0	81,7	32,2	381 300 *
8,0	79,8	32,0	332 200 *
9,0	77,8	31,8	296 300 *
10,0	75,8	31,5	266 400 *
11,0	73,8	31,2	238 900
12,0	71,8	30,8	214 500
14,0	67,7	30,0	176 600
16,0	63,4	29,0	145 700
18,0	59,0	27,8	122 700
20,0	54,3	26,3	105 500
22,0	49,2	24,6	91 900
24,0	43,8	22,6	81 100
26,0	37,6	20,1	72 100
28,0	30,4	16,8	64 600
30,0	20,7	12,2	58 100

33,0 m			
11 m/s			
m	m	m	kg
6,7	83,0	35,3	372 400 *
7,0	82,5	35,2	367 200 *
8,0	80,7	35,0	331 800 *
9,0	78,9	34,8	295 800 *
10,0	77,2	34,6	261 700
11,0	75,4	34,3	233 100
12,0	73,5	34,0	209 800
14,0	69,8	33,2	174 000
16,0	66,0	32,3	146 000
18,0	62,1	31,3	122 600
20,0	58,0	30,0	105 400
22,0	53,7	28,6	91 900
24,0	49,1	26,9	81 000
26,0	44,2	24,8	72 100
28,0	38,7	22,4	64 600
30,0	32,5	19,4	58 200
32,0	24,7	15,4	52 700

36,0 m			
11 m/s			
m	m	m	kg
7,3	82,6	38,2	351 500 *
8,0	81,5	38,1	331 900
9,0	79,9	37,9	289 500
10,0	78,3	37,7	255 100
11,0	76,6	37,4	227 700
12,0	75,0	37,1	205 300
14,0	71,6	36,5	170 800
16,0	68,2	35,7	145 000
18,0	64,6	34,7	122 900
20,0	61,0	33,6	105 500
22,0	57,2	32,3	91 900
24,0	53,3	30,8	81 100
26,0	49,1	29,1	72 200
28,0	44,6	27,1	64 700
30,0	39,6	24,7	58 300
32,0	34,1	21,9	52 900
34,0	27,5	18,2	48 100
36,0	18,7	13,1	43 800



166 920 kg
+
54 430 kg

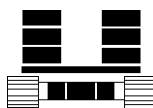


39,0 m			
9 m/s			
m	m	m	kg
7,9	82,3	41,2	326 600
8,0	82,2	41,2	323 300
9,0	80,7	41,0	281 100
10,0	79,2	40,8	248 500
11,0	77,7	40,5	222 200
12,0	76,1	40,2	200 700
14,0	73,1	39,6	167 400
16,0	69,9	38,9	142 900
18,0	66,7	38,0	122 700
20,0	63,5	37,0	105 300
22,0	60,1	35,9	91 700
24,0	56,5	34,6	80 800
26,0	52,9	33,1	71 900
28,0	49,0	31,3	64 500
30,0	44,8	29,3	58 100
32,0	40,4	27,0	52 700
34,0	35,4	24,3	47 900
36,0	29,6	20,9	43 700
38,0	22,5	16,5	40 000

42,0 m			
9 m/s			
m	m	m	kg
7,9	82,8	44,2	316 600
8,0	82,7	44,2	313 400
9,0	81,3	44,0	273 500
10,0	80,0	43,8	242 400
11,0	78,6	43,6	217 200
12,0	77,2	43,4	196 500
14,0	74,3	42,8	164 300
16,0	71,4	42,1	140 500
18,0	68,5	41,3	122 100
20,0	65,5	40,4	105 200
22,0	62,4	39,4	91 700
24,0	59,3	38,2	80 800
26,0	56,0	36,8	71 900
28,0	52,5	35,3	64 400
30,0	48,9	33,6	58 100
32,0	45,1	31,6	52 700
34,0	41,0	29,3	47 900
36,0	36,5	26,7	43 700
38,0	31,4	23,5	40 000
40,0	25,3	19,6	36 700

45,0 m			
9 m/s			
m	m	m	kg
8,5	82,5	47,1	282 400
9,0	81,9	47,1	266 300
10,0	80,6	46,9	236 300
11,0	79,3	46,7	212 100
12,0	78,0	46,5	192 200
14,0	75,4	45,9	161 000
16,0	72,7	45,3	137 900
18,0	70,0	44,6	120 000
20,0	67,3	43,7	105 000
22,0	64,4	42,8	91 400
24,0	61,5	41,7	80 500
26,0	58,6	40,5	71 600
28,0	55,5	39,1	64 100
30,0	52,2	37,5	57 800
32,0	48,9	35,8	52 300
34,0	45,3	33,8	47 600
36,0	41,5	31,6	43 400
38,0	37,4	29,0	39 700
40,0	32,8	26,0	36 400
42,0	27,4	22,4	33 400
44,0	20,8	17,6	30 700

58WA



166 920 kg

+

54 430 kg



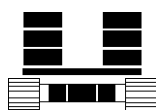
360°

48,0 m			
9 m/s			
m	m	m	kg
8,5	83,0	50,2	274 200*
9,0	82,4	50,1	259 200
10,0	81,2	49,9	230 600
11,0	80,0	49,7	207 400
12,0	78,8	49,5	188 100
14,0	76,3	49,0	158 000
16,0	73,8	48,5	135 400
18,0	71,3	47,8	118 100
20,0	68,8	47,0	104 100
22,0	66,2	46,1	91 300
24,0	63,5	45,1	80 300
26,0	60,7	44,0	71 400
28,0	57,9	42,7	63 900
30,0	55,0	41,3	57 600
32,0	52,0	39,8	52 100
34,0	48,8	38,0	47 400
36,0	45,5	36,1	43 200
38,0	42,0	33,9	39 500
40,0	38,1	31,4	36 300
42,0	33,9	28,5	33 300
44,0	29,2	25,1	30 600
46,0	23,5	20,8	28 200

51,0 m			
9 m/s			
m	m	m	kg
9,1	82,7	53,1	248 000
10,0	81,8	53,0	225 000
11,0	80,6	52,8	202 700
12,0	79,5	52,6	184 100
14,0	77,2	52,1	154 800
16,0	74,8	51,6	132 900
18,0	72,5	51,0	115 900
20,0	70,1	50,2	102 300
22,0	67,6	49,4	90 800
24,0	65,2	48,5	80 000
26,0	62,6	47,4	71 000
28,0	60,0	46,3	63 500
30,0	57,4	45,0	57 200
32,0	54,6	43,6	51 700
34,0	51,8	42,0	47 000
36,0	48,8	40,3	42 800
38,0	45,7	38,3	39 100
40,0	42,4	36,2	35 900
42,0	38,8	33,7	32 900
44,0	34,9	30,9	30 300
46,0	30,6	27,6	27 800
48,0	25,7	23,7	25 600
50,0	19,5	18,6	23 600

54,0 m			
9 m/s			
m	m	m	kg
9,8	82,5	56,0	225 700
10,0	82,2	56,0	220 000
11,0	81,1	55,8	198 300
12,0	80,1	55,7	180 400
14,0	77,9	55,2	152 100
16,0	75,7	54,7	130 700
18,0	73,5	54,1	114 100
20,0	71,2	53,4	100 800
22,0	69,0	52,7	89 900
24,0	66,7	51,8	80 000
26,0	64,3	50,8	70 900
28,0	61,9	49,8	63 400
30,0	59,4	48,6	57 100
32,0	56,9	47,3	51 700
34,0	54,3	45,8	46 900
36,0	51,6	44,2	42 800
38,0	48,8	42,5	39 100
40,0	45,8	40,6	35 800
42,0	42,7	38,4	32 800
44,0	39,4	36,0	30 200
46,0	35,8	33,3	27 800
48,0	31,9	30,2	25 600
50,0	27,4	26,5	23 600
52,0	22,1	21,9	21 700

58WA



166 920 kg
+
54 430 kg



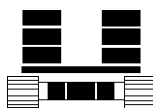
360°

57,0 m			
9 m/s			
m	m	m	kg
9,8	82,9	59,1	220 300
10,0	82,6	59,0	214 800
11,0	81,6	58,9	193 900
12,0	80,6	58,7	176 600
14,0	78,5	58,3	149 100
16,0	76,5	57,8	128 300
18,0	74,4	57,2	112 100
20,0	72,3	56,6	99 000
22,0	70,1	55,9	88 300
24,0	68,0	55,1	79 200
26,0	65,8	54,2	70 500
28,0	63,5	53,2	63 000
30,0	61,2	52,1	56 700
32,0	58,9	50,8	51 200
34,0	56,5	49,5	46 500
36,0	54,0	48,1	42 300
38,0	51,4	46,5	38 600
40,0	48,7	44,7	35 400
42,0	45,9	42,8	32 400
44,0	43,0	40,7	29 800
46,0	39,9	38,3	27 300
48,0	36,6	35,7	25 200
50,0	32,9	32,7	23 100
52,0	28,9	29,2	21 300
54,0	24,2	25,0	19 500
56,0	18,3	19,5	17 900

60,0 m			
9 m/s			
m	m	m	kg
10,4	82,6	62,0	202 000
11,0	82,0	61,9	189 700
12,0	81,1	61,8	173 000
14,0	79,1	61,4	146 300
16,0	77,2	60,9	126 000
18,0	75,2	60,4	110 200
20,0	73,2	59,8	97 400
22,0	71,2	59,1	86 800
24,0	69,1	58,3	78 000
26,0	67,0	57,5	70 300
28,0	64,9	56,5	62 700
30,0	62,8	55,5	56 400
32,0	60,6	54,4	50 900
34,0	58,4	53,1	46 200
36,0	56,1	51,8	42 000
38,0	53,7	50,3	38 300
40,0	51,2	48,7	35 100
42,0	48,7	47,0	32 100
44,0	46,1	45,1	29 500
46,0	43,3	43,0	27 100
48,0	40,4	40,6	24 900
50,0	37,2	38,0	22 900
52,0	33,9	35,1	21 000
54,0	30,1	31,8	19 300
56,0	25,9	27,8	17 700
58,0	20,9	23,0	16 200

63,0 m			
9 m/s			
m	m	m	kg
10,4	83,0	65,1	197 400
11,0	82,4	65,0	185 500
12,0	81,5	64,8	169 300
14,0	79,6	64,4	143 400
16,0	77,8	64,0	123 700
18,0	75,9	63,5	108 100
20,0	74,0	62,9	95 600
22,0	72,1	62,3	85 200
24,0	70,2	61,5	76 600
26,0	68,2	60,7	69 200
28,0	66,2	59,8	62 400
30,0	64,2	58,9	55 900
32,0	62,1	57,8	50 400
34,0	60,0	56,7	45 700
36,0	57,9	55,4	41 500
38,0	55,7	54,0	37 900
40,0	53,4	52,6	34 600
42,0	51,1	51,0	31 600
44,0	48,7	49,2	29 000
46,0	46,2	47,3	26 600
48,0	43,5	45,2	24 400
50,0	40,8	42,9	22 400
52,0	37,8	40,4	20 500
54,0	34,7	37,5	18 800
56,0	31,2	34,3	17 300
58,0	27,4	30,6	15 800
60,0	22,9	26,1	14 300
62,0	17,4	20,4	12 700*

58WA



166 920 kg

+

54 430 kg



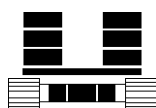
360°

66,0 m			
9 m/s			
m	m	m	kg
11,0	82,8	68,0	182 100
12,0	81,9	67,8	166 000
14,0	80,1	67,5	140 800
16,0	78,3	67,1	121 600
18,0	76,6	66,6	106 400
20,0	74,8	66,0	94 100
22,0	72,9	65,4	83 900
24,0	71,1	64,7	75 400
26,0	69,3	64,0	68 100
28,0	67,4	63,1	61 800
30,0	65,5	62,2	55 800
32,0	63,5	61,2	50 300
34,0	61,5	60,1	45 500
36,0	59,5	59,0	41 300
38,0	57,5	57,7	37 600
40,0	55,4	56,3	34 400
42,0	53,2	54,8	31 400
44,0	51,0	53,2	28 800
46,0	48,7	51,5	26 400
48,0	46,3	49,5	24 200
50,0	43,8	47,5	22 200
52,0	41,1	45,2	20 300
54,0	38,4	42,7	18 600
56,0	35,4	40,0	17 100
58,0	32,2	36,8	15 600
60,0	28,7	33,3	14 200
62,0	24,6	29,1	12 800 *
64,0	19,9	24,0	11 300 *

69,0 m			
9 m/s			
m	m	m	kg
11,6	82,6	70,9	168 600
12,0	82,2	70,9	162 600
14,0	80,6	70,5	138 100
16,0	78,9	70,2	119 300
18,0	77,2	69,7	104 500
20,0	75,4	69,2	92 400
22,0	73,7	68,6	82 400
24,0	72,0	67,9	74 000
26,0	70,2	67,2	66 900
28,0	68,4	66,4	60 600
30,0	66,6	65,5	55 100
32,0	64,8	64,6	49 800
34,0	62,9	63,6	45 000
36,0	61,0	62,5	40 800
38,0	59,1	61,2	37 100
40,0	57,1	60,0	33 900
42,0	55,1	58,6	30 900
44,0	53,0	57,1	28 300
46,0	50,8	55,4	25 900
48,0	48,6	53,7	23 700
50,0	46,3	51,8	21 700
52,0	44,0	49,7	19 800
54,0	41,5	47,5	18 100
56,0	38,8	45,0	16 600
58,0	36,1	42,3	15 100
60,0	33,0	39,3	13 700
62,0	29,8	35,9	12 300 *
64,0	26,1	32,0	10 900 *
66,0	21,9	27,3	9 500 *

72,0 m			
7 m/s			
m	m	m	kg
11,6	82,9	74,0	164 900
12,0	82,6	73,9	159 100
14,0	81,0	73,6	135 200
16,0	79,3	73,2	116 900
18,0	77,7	72,8	102 400
20,0	76,1	72,3	90 600
22,0	74,4	71,7	80 700
24,0	72,7	71,1	72 500
26,0	71,1	70,4	65 400
28,0	69,4	69,6	59 300
30,0	67,6	68,8	54 000
32,0	65,9	67,9	49 200
34,0	64,1	66,9	44 400
36,0	62,3	65,9	40 300
38,0	60,5	64,8	36 500
40,0	58,6	63,5	33 300
42,0	56,7	62,2	30 300
44,0	54,8	60,8	27 700
46,0	52,8	59,3	25 300
48,0	50,7	57,7	23 100
50,0	48,6	55,9	21 000
52,0	46,4	54,0	19 200
54,0	44,2	52,0	17 500
56,0	41,8	49,8	16 000
58,0	39,3	47,3	14 500
60,0	36,6	44,7	13 100
62,0	33,8	41,8	11 700 *
64,0	30,7	38,5	10 300 *
66,0	27,4	34,7	9 000 *
68,0	23,5	30,4	7 700 *
70,0	19,0	25,0	6 500 *

58WA



166 920 kg
+
54 430 kg



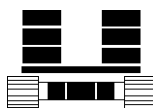
360°

75,0 m			
			7 m/s
			
m	m	m	kg
12,2	82,7	76,9	153 300
14,0	81,3	76,6	132 600
16,0	79,8	76,3	114 700
18,0	78,2	75,8	100 500
20,0	76,6	75,4	88 900
22,0	75,1	74,8	79 200
24,0	73,5	74,2	71 100
26,0	71,8	73,6	64 200
28,0	70,2	72,8	58 100
30,0	68,6	72,1	52 800
32,0	66,9	71,2	48 200
34,0	65,2	70,3	44 000
36,0	63,5	69,3	39 800
38,0	61,8	68,2	36 000
40,0	60,0	67,1	32 800
42,0	58,2	65,8	29 800
44,0	56,4	64,5	27 100
46,0	54,5	63,1	24 800
48,0	52,6	61,5	22 600
50,0	50,6	59,9	20 600
52,0	48,6	58,2	18 700
54,0	46,5	56,3	17 000
56,0	44,3	54,2	15 400
58,0	42,0	52,0	14 000
60,0	39,7	49,7	12 500 *
62,0	37,2	47,0	11 100 *
64,0	34,5	44,2	9 700 *
66,0	31,6	41,0	8 400 *
68,0	28,5	37,4	7 200 *
70,0	25,0	33,3	6 000 *
72,0	20,9	28,4	4 800 *

78,0 m			
			7 m/s
			
m	m	m	kg
12,2	83,0	79,9	150 300
14,0	81,7	79,7	130 200
16,0	80,2	79,3	112 800
18,0	78,7	78,9	98 800
20,0	77,2	78,5	87 500
22,0	75,6	77,9	78 000
24,0	74,1	77,4	70 000
26,0	72,6	76,7	63 100
28,0	71,0	76,1	57 100
30,0	69,5	75,3	51 900
32,0	67,9	74,5	47 400
34,0	66,3	73,6	43 300
36,0	64,6	72,7	39 500
38,0	63,0	71,6	35 800
40,0	61,3	70,5	32 500
42,0	59,6	69,4	29 500
44,0	57,9	68,1	26 900
46,0	56,1	66,8	24 500
48,0	54,3	65,3	22 300
50,0	52,4	63,8	20 300
52,0	50,5	62,2	18 400
54,0	48,6	60,4	16 700
56,0	46,6	58,5	15 200
58,0	44,5	56,5	13 600 *
60,0	42,3	54,3	12 100 *
62,0	40,0	52,0	10 700 *
64,0	37,6	49,4	9 400 *
66,0	35,1	46,6	8 100 *
68,0	32,4	43,5	6 900 *
70,0	29,5	40,0	5 800 *
72,0	26,2	36,1	4 600 *
74,0	22,6	31,5	3 600 *

81,0 m			
			7 m/s
			
m	m	m	kg
13,7	82,2	82,8	130 500
14,0	82,0	82,7	127 900
16,0	80,5	82,4	110 700
18,0	79,1	82,0	97 000
20,0	77,6	81,5	85 800
22,0	76,2	81,1	76 500
24,0	74,7	80,5	68 600
26,0	73,2	79,9	61 800
28,0	71,8	79,2	56 000
30,0	70,2	78,5	50 800
32,0	68,7	77,7	46 300
34,0	67,2	76,9	42 300
36,0	65,6	76,0	38 600
38,0	64,1	75,0	35 300
40,0	62,5	74,0	32 000
42,0	60,9	72,8	29 000
44,0	59,2	71,7	26 400
46,0	57,5	70,4	23 900
48,0	55,8	69,0	21 700
50,0	54,1	67,6	19 700
52,0	52,3	66,0	17 900
54,0	50,5	64,4	16 200
56,0	48,6	62,6	14 500 *
58,0	46,6	60,8	12 900 *
60,0	44,6	58,7	11 400 *
62,0	42,5	56,6	10 000 *
64,0	40,4	54,2	8 700 *
66,0	38,1	51,7	7 500 *
68,0	35,7	49,0	6 300 *
70,0	33,1	46,0	5 100 *
72,0	30,4	42,6	4 100 *

58WA



166 920 kg

+

54 430 kg



360°

84,0 m			
7 m/s			
m	m	m	kg
13,7	82,5	85,8	128 000
14,0	82,3	85,8	125 500
16,0	80,9	85,4	108 600
18,0	79,5	85,1	95 300
20,0	78,1	84,6	84 300
22,0	76,7	84,2	75 100
24,0	75,3	83,6	67 300
26,0	73,9	83,0	60 700
28,0	72,4	82,4	54 900
30,0	71,0	81,7	49 800
32,0	69,5	81,0	45 300
34,0	68,1	80,2	41 300
36,0	66,6	79,3	37 700
38,0	65,1	78,3	34 500
40,0	63,5	77,3	31 500
42,0	62,0	76,3	28 600
44,0	60,4	75,2	25 900
46,0	58,8	73,9	23 500
48,0	57,2	72,7	21 300
50,0	55,6	71,3	19 300
52,0	53,9	69,8	17 400*
54,0	52,1	68,3	15 600*
56,0	50,4	66,6	13 900*
58,0	48,6	64,9	12 300*
60,0	46,7	63,0	10 800*
62,0	44,8	61,0	9 400*
64,0	42,8	58,8	8 200*
66,0	40,7	56,5	6 900*
68,0	38,5	54,0	5 800*
70,0	36,2	51,3	4 600*

87,0 m			
7 m/s			
m	m	m	kg
13,7	82,7	88,8	125 500
14,0	82,5	88,8	123 100
16,0	81,2	88,5	106 600
18,0	79,9	88,1	93 500
20,0	78,5	87,7	82 700
22,0	77,2	87,2	73 700
24,0	75,8	86,7	66 000
26,0	74,4	86,2	59 400
28,0	73,1	85,6	53 700
30,0	71,7	84,9	48 700
32,0	70,3	84,2	44 200
34,0	68,9	83,4	40 300
36,0	67,4	82,6	36 700
38,0	66,0	81,7	33 600
40,0	64,5	80,7	30 700
42,0	63,0	79,7	28 000
44,0	61,5	78,6	25 400
46,0	60,0	77,4	23 000
48,0	58,5	76,2	20 700*
50,0	56,9	74,9	18 600*
52,0	55,3	73,5	16 600*
54,0	53,7	72,1	14 800*
56,0	52,0	70,5	13 200*
58,0	50,3	68,9	11 600*
60,0	48,5	67,1	10 100*
62,0	46,7	65,2	8 700*
64,0	44,9	63,2	7 400*
66,0	43,0	61,1	6 200*
68,0	41,0	58,8	5 100*
70,0	38,9	56,3	4 000*

90,0 m			
7 m/s			
m	m	m	kg
13,7	83,0	91,8	123 200
14,0	82,8	91,8	120 800
16,0	81,5	91,5	104 600
18,0	80,2	91,2	91 800
20,0	78,9	90,8	81 300
22,0	77,6	90,3	72 400
24,0	76,3	89,8	64 900
26,0	75,0	89,3	58 400
28,0	73,6	88,7	52 700
30,0	72,3	88,1	47 800
32,0	71,0	87,4	43 400
34,0	69,6	86,6	39 500
36,0	68,2	85,8	36 000
38,0	66,8	85,0	32 800
40,0	65,4	84,0	30 000
42,0	64,0	83,1	27 400
44,0	62,6	82,0	24 900
46,0	61,1	80,9	22 500*
48,0	59,7	79,8	20 200*
50,0	58,2	78,5	18 100*
52,0	56,6	77,2	16 200*
54,0	55,1	75,8	14 400*
56,0	53,5	74,3	12 700*
58,0	51,9	72,8	11 100*
60,0	50,2	71,1	9 700*
62,0	48,5	69,3	8 300*
64,0	46,8	67,5	7 000*
66,0	45,0	65,5	5 800*
68,0	43,1	63,3	4 600*
70,0	41,2	61,1	3 500*