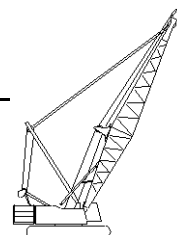




Liftcrane Boom Capacities

Boom No. 22E With Light Tapered Top
67 860 kg Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 1

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point capacity for liftcrane service with single part whip line or combination of two single part lines is 13 380 kg. 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 with gantry up. Refer to boom rigging **No. 81018714** and Wire Rope Specification chart **No. 8996-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 operators manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8995-A**.

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

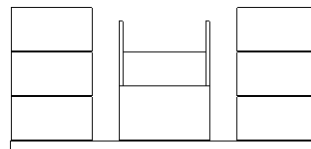
BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 8 585 mm crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, four 35 mm boom pendants and 67 860 kg counterweight.

Auxiliary Drum Deduct

Deduct 410 kg from boom capacities when boom butt is equipped with auxiliary drum.

WITH OR WITHOUT BOOM CATWALKS	
Maximum Boom Lengths Lifted Unassisted With or Without Auxiliary Drum in Boom Butt	
Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
(a) 85.3 m	(a) 79.2 m
Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be used on 85.3 m boom and cannot be lifted over side of crawlers on 79.2 m boom.	



67 860 kg Crane Counterweight
6 Side Boxes - 1 Center Box

Liftcrane Boom Capacities

Boom No. 22E With Light Tapered Top
67 860 kg Counterweight
360 Degree Rating

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Requirements



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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33,5 m			
7,3	80,1	35,5	120 400 *
8,0	78,9	35,4	110 300
9,0	77,1	35,2	90 700
10,0	75,4	34,9	77 100
11,0	73,6	34,6	66 900
12,0	71,8	34,3	58 900
13,0	70,0	34,0	52 600
14,0	68,2	33,6	47 400
15,0	66,3	33,2	43 100
16,0	64,4	32,7	39 400
18,0	60,6	31,7	33 500
20,0	56,6	30,5	29 100
22,0	52,4	29,0	25 500
24,0	47,9	27,4	22 700
26,0	43,1	25,4	20 300
28,0	37,8	23,0	18 300
30,0	31,9	20,2	16 600
32,0	24,6	16,5	15 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36,6 m			
7,3	80,9	38,6	120 400 *
8,0	79,8	38,5	110 500
9,0	78,2	38,3	90 800
10,0	76,6	38,1	77 100
11,0	75,0	37,8	66 900
12,0	73,4	37,5	58 900
13,0	71,7	37,2	52 500
14,0	70,1	36,9	47 300
15,0	68,4	36,5	43 000
16,0	66,7	36,1	39 300
18,0	63,2	35,1	33 400
20,0	59,7	34,0	28 900
22,0	56,0	32,8	25 400
24,0	52,1	31,3	22 500
26,0	48,0	29,7	20 100
28,0	43,6	27,7	18 100
30,0	38,9	25,4	16 400
32,0	33,6	22,7	14 900
34,0	27,4	19,3	13 600
36,0	19,5	14,7	12 500

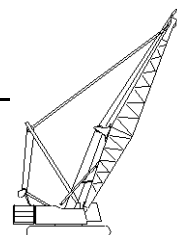
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39,6 m			
7,9	80,7	41,6	111 900
8,0	80,6	41,6	110 300
9,0	79,1	41,4	90 800
10,0	77,6	41,2	77 000
11,0	76,2	41,0	66 800
12,0	74,7	40,7	58 700
13,0	73,2	40,4	52 400
14,0	71,6	40,1	47 200
15,0	70,1	39,7	42 800
16,0	68,6	39,4	39 100
18,0	65,4	38,5	33 200
20,0	62,2	37,5	28 700
22,0	58,9	36,4	25 200
24,0	55,4	35,1	22 300
26,0	51,9	33,6	19 900
28,0	48,1	32,0	17 900
30,0	44,1	30,0	16 200
32,0	39,7	27,8	14 700
34,0	35,0	25,2	13 400
36,0	29,5	22,0	12 300
38,0	23,0	18,0	11 200



Liftcrane Boom Capacities

Boom No. 22E With Light Tapered Top
67 860 kg Counterweight
360 Degree Rating

Meets
ANSI B30.5
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999 SERIES 1

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42,7 m			
8,5	80,5	44,6	98 800
9,0	79,9	44,5	90 900
10,0	78,5	44,3	76 900
11,0	77,2	44,1	66 700
12,0	75,8	43,8	58 600
13,0	74,4	43,6	52 300
14,0	73,0	43,3	47 000
15,0	71,6	43,0	42 700
16,0	70,2	42,6	39 000
18,0	67,3	41,8	33 100
20,0	64,3	40,9	28 600
22,0	61,3	39,9	25 000
24,0	58,2	38,8	22 200
26,0	55,0	37,4	19 800
28,0	51,7	36,0	17 700
30,0	48,1	34,3	16 100
32,0	44,4	32,3	14 600
34,0	40,4	30,2	13 300
36,0	36,1	27,6	12 100
38,0	31,3	24,6	11 200
40,0	25,6	20,9	10 200
42,0	18,5	16,0	9 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45,7 m			
9,1	80,4	47,6	88 400
10,0	79,3	47,4	76 800
11,0	78,0	47,2	66 500
12,0	76,8	47,0	58 500
13,0	75,5	46,7	52 100
14,0	74,2	46,5	46 900
15,0	72,9	46,2	42 500
16,0	71,5	45,8	38 800
18,0	68,9	45,1	32 900
20,0	66,2	44,3	28 400
22,0	63,4	43,4	24 800
24,0	60,6	42,3	21 900
26,0	57,6	41,1	19 500
28,0	54,6	39,8	17 600
30,0	51,5	38,2	15 800
32,0	48,2	36,6	14 300
34,0	44,7	34,7	13 000
36,0	41,1	32,5	11 900
38,0	37,1	30,0	10 900
40,0	32,7	27,2	10 000
42,0	27,7	23,7	9 200
44,0	21,7	19,4	8 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48,8 m			
9,1	81,0	50,7	88 200
10,0	80,0	50,5	76 700
11,0	78,8	50,3	66 400
12,0	77,6	50,1	58 300
13,0	76,4	49,9	51 900
14,0	75,2	49,6	46 700
15,0	74,0	49,3	42 300
16,0	72,7	49,0	38 600
18,0	70,3	48,4	32 700
20,0	67,7	47,6	28 200
22,0	65,2	46,7	24 600
24,0	62,6	45,8	21 700
26,0	59,9	44,7	19 400
28,0	57,1	43,4	17 400
30,0	54,3	42,1	15 600
32,0	51,3	40,5	14 200
34,0	48,2	38,9	12 900
36,0	45,0	37,0	11 800
38,0	41,6	34,8	10 700
40,0	37,9	32,5	9 900
42,0	33,9	29,7	9 000
44,0	29,4	26,4	8 300
46,0	24,2	22,5	7 600

Liftcrane Boom Capacities

Boom No. 22E With Light Tapered Top
67 860 kg Counterweight
360 Degree Rating

Meets
ANSI B30.5
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51,8 m			
9,8	80,9	53,6	79 600
10,0	80,6	53,6	76 800
11,0	79,5	53,4	66 300
12,0	78,3	53,2	58 200
13,0	77,2	53,0	51 800
14,0	76,1	52,8	46 600
15,0	74,9	52,5	42 200
16,0	73,8	52,2	38 500
18,0	71,5	51,6	32 600
20,0	69,1	50,9	28 100
22,0	66,7	50,1	24 500
24,0	64,3	49,2	21 600
26,0	61,8	48,2	19 200
28,0	59,3	47,0	17 200
30,0	56,7	45,8	15 500
32,0	54,0	44,4	14 100
34,0	51,2	42,9	12 800
36,0	48,3	41,2	11 600
38,0	45,3	39,3	10 600
40,0	42,1	37,2	9 700
42,0	38,6	34,8	8 900
44,0	34,9	32,2	8 200
46,0	30,9	29,1	7 500
48,0	26,2	25,4	6 900
50,0	20,7	20,8	6 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54,9 m			
10,4	80,7	56,6	72 400
11,0	80,1	56,5	66 100
12,0	79,0	56,3	58 100
13,0	77,9	56,1	51 700
14,0	76,9	55,9	46 400
15,0	75,8	55,7	42 000
16,0	74,7	55,4	38 300
18,0	72,5	54,8	32 400
20,0	70,3	54,1	27 900
22,0	68,1	53,4	24 300
24,0	65,8	52,5	21 400
26,0	63,5	51,6	19 000
28,0	61,1	50,5	17 100
30,0	58,7	49,4	15 300
32,0	56,3	48,1	13 900
34,0	53,7	46,7	12 600
36,0	51,1	45,2	11 500
38,0	48,3	43,5	10 400
40,0	45,5	41,6	9 500
42,0	42,5	39,5	8 700
44,0	39,3	37,2	8 000
46,0	35,8	34,6	7 300
48,0	32,1	31,6	6 700
50,0	27,9	28,2	6 200
52,0	23,1	24,0	5 700

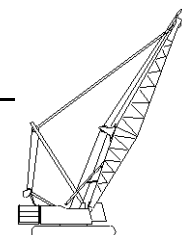
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57,9 m			
11,0	80,6	59,6	66 300
12,0	79,6	59,4	57 900
13,0	78,6	59,2	51 500
14,0	77,6	59,0	46 200
15,0	76,5	58,8	41 900
16,0	75,5	58,5	38 100
18,0	73,5	58,0	32 200
20,0	71,4	57,4	27 700
22,0	69,3	56,7	24 100
24,0	67,2	55,8	21 200
26,0	65,0	55,0	18 800
28,0	62,8	54,0	16 800
30,0	60,5	52,9	15 100
32,0	58,2	51,7	13 600
34,0	55,9	50,4	12 400
36,0	53,5	49,0	11 200
38,0	51,0	47,5	10 200
40,0	48,4	45,8	9 300
42,0	45,7	43,9	8 500
44,0	42,8	41,8	7 800
46,0	39,8	39,6	7 100
48,0	36,6	37,0	6 500
50,0	33,2	34,2	5 900
52,0	29,4	30,9	5 400
54,0	25,0	27,0	4 900
56,0	19,8	22,1	4 500



Liftcrane Boom Capacities

Boom No. 22E With Light Tapered Top
67 860 kg Counterweight
360 Degree Rating

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61,0 m			
11,6	80,5	62,6	60 900
12,0	80,1	62,5	57 800
13,0	79,1	62,3	51 300
14,0	78,2	62,2	46 000
15,0	77,2	61,9	41 700
16,0	76,3	61,7	37 900
18,0	74,3	61,2	32 000
20,0	72,4	60,6	27 500
22,0	70,4	59,9	23 900
24,0	68,4	59,2	21 000
26,0	66,3	58,3	18 600
28,0	64,3	57,4	16 600
30,0	62,2	56,4	14 900
32,0	60,0	55,3	13 400
34,0	57,8	54,1	12 100
36,0	55,6	52,8	11 000
38,0	53,2	51,3	10 000
40,0	50,9	49,8	9 100
42,0	48,4	48,1	8 300
44,0	45,8	46,2	7 500
46,0	43,1	44,2	6 900
48,0	40,3	41,9	6 300
50,0	37,3	39,4	5 700
52,0	34,1	36,7	5 200
54,0	30,6	33,5	4 800
56,0	26,7	29,8	4 300
58,0	22,1	25,4	3 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
64,0 m			
11,6	80,9	65,7	60 800
12,0	80,6	65,6	57 700
13,0	79,7	65,4	51 200
14,0	78,8	65,3	46 000
15,0	77,8	65,1	41 600
16,0	76,9	64,8	37 900
18,0	75,1	64,3	31 900
20,0	73,2	63,8	27 400
22,0	71,3	63,1	23 800
24,0	69,4	62,4	20 900
26,0	67,5	61,6	18 500
28,0	65,6	60,8	16 500
30,0	63,6	59,8	14 700
32,0	61,6	58,8	13 200
34,0	59,5	57,6	12 000
36,0	57,4	56,4	10 800
38,0	55,3	55,1	9 800
40,0	53,1	53,6	9 000
42,0	50,8	52,1	8 100
44,0	48,4	50,4	7 400
46,0	46,0	48,5	6 700
48,0	43,4	46,5	6 100
50,0	40,8	44,3	5 600
52,0	37,9	41,8	5 100
54,0	34,9	39,1	4 600
56,0	31,7	36,1	4 200
58,0	28,1	32,6	3 700
60,0	24,0	28,5	3 300
62,0	19,1	23,5	3 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
67,1 m			
12,2	80,8	68,7	56 100
13,0	80,1	68,6	51 000
14,0	79,3	68,4	45 700
15,0	78,4	68,2	41 300
16,0	77,5	67,9	37 600
18,0	75,8	67,5	31 700
20,0	74,0	66,9	27 100
22,0	72,2	66,3	23 600
24,0	70,4	65,7	20 700
26,0	68,6	64,9	18 300
28,0	66,7	64,1	16 200
30,0	64,9	63,2	14 500
32,0	63,0	62,2	13 100
34,0	61,0	61,2	11 800
36,0	59,1	60,0	10 600
38,0	57,0	58,8	9 600
40,0	55,0	57,4	8 700
42,0	52,9	55,9	7 900
44,0	50,7	54,4	7 200
46,0	48,5	52,7	6 500
48,0	46,1	50,8	5 900
50,0	43,7	48,8	5 400
52,0	41,2	46,6	4 800
54,0	38,5	44,2	4 400
56,0	35,7	41,6	4 000
58,0	32,6	38,6	3 600
60,0	29,3	35,3	3 200
62,0	25,6	31,5	2 800
64,0	21,3	26,8	2 500

Liftcrane Boom Capacities

Boom No. 22E With Light Tapered Top
67 860 kg Counterweight
360 Degree Rating

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
70,1 m			
12,8	80,7	71,7	52 000
13,0	80,6	71,6	50 900
14,0	79,7	71,5	45 600
15,0	78,9	71,3	41 200
16,0	78,1	71,1	37 400
18,0	76,4	70,6	31 500
20,0	74,7	70,1	27 000
22,0	73,0	69,5	23 300
24,0	71,3	68,9	20 400
26,0	69,6	68,2	18 000
28,0	67,8	67,4	16 000
30,0	66,0	66,5	14 300
32,0	64,2	65,6	12 800
34,0	62,4	64,6	11 500
36,0	60,5	63,5	10 400
38,0	58,6	62,3	9 400
40,0	56,7	61,1	8 500
42,0	54,7	59,7	7 700
44,0	52,7	58,2	7 000
46,0	50,6	56,7	6 300
48,0	48,5	55,0	5 700
50,0	46,3	53,1	5 200
52,0	43,9	51,1	4 600
54,0	41,5	49,0	4 200
56,0	39,0	46,6	3 700
58,0	36,3	44,0	3 300
60,0	33,5	41,2	2 900
62,0	30,4	37,9	2 600
64,0	27,0	34,3	2 300
66,0	23,1	30,0	1 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
73,2 m			
13,4	80,6	74,7	48 400
14,0	80,2	74,6	45 400
15,0	79,4	74,4	41 000
16,0	78,6	74,2	37 300
18,0	77,0	73,8	31 300
20,0	75,4	73,3	26 700
22,0	73,7	72,7	23 100
24,0	72,1	72,1	20 200
26,0	70,5	71,4	17 800
28,0	68,8	70,7	15 800
30,0	67,1	69,9	14 100
32,0	65,4	69,0	12 600
34,0	63,6	68,0	11 300
36,0	61,9	67,0	10 200
38,0	60,1	65,9	9 200
40,0	58,3	64,7	8 300
42,0	56,4	63,4	7 500
44,0	54,5	62,0	6 700
46,0	52,6	60,6	6 100
48,0	50,6	59,0	5 500
50,0	48,5	57,3	4 900
52,0	46,4	55,4	4 400
54,0	44,2	53,5	3 900
56,0	41,9	51,3	3 500
58,0	39,5	49,0	3 100
60,0	36,9	46,4	2 700
62,0	34,2	43,6	2 400
64,0	31,3	40,5	2 000

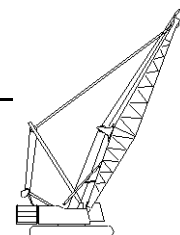
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
76,2 m			
13,4	81,0	77,8	48 300
14,0	80,6	77,7	45 300
15,0	79,8	77,5	40 900
16,0	79,0	77,3	37 100
18,0	77,5	76,9	31 100
20,0	76,0	76,4	26 600
22,0	74,4	75,9	23 000
24,0	72,8	75,3	20 100
26,0	71,3	74,6	17 700
28,0	69,7	73,9	15 700
30,0	68,1	73,2	14 000
32,0	66,4	72,3	12 500
34,0	64,8	71,4	11 200
36,0	63,1	70,4	10 000
38,0	61,4	69,4	9 000
40,0	59,7	68,2	8 100
42,0	57,9	67,0	7 300
44,0	56,1	65,7	6 600
46,0	54,3	64,3	5 900
48,0	52,4	62,9	5 300
50,0	50,5	61,3	4 800
52,0	48,5	59,6	4 300
54,0	46,5	57,7	3 800
56,0	44,4	55,8	3 400
58,0	42,2	53,6	3 000
60,0	39,9	51,3	2 600
62,0	37,5	48,8	2 200
64,0	34,9	46,1	1 900



Liftcrane Boom Capacities

Boom No. 22E With Light Tapered Top
67 860 kg Counterweight
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
79,2 m			
14,0	80,9	80,7	45 000
15,0	80,2	80,6	40 700
16,0	79,5	80,4	36 900
18,0	78,0	80,0	31 000
20,0	76,5	79,5	26 400
22,0	75,0	79,0	22 800
24,0	73,5	78,5	19 900
26,0	72,0	77,8	17 500
28,0	70,5	77,2	15 500
30,0	68,9	76,4	13 700
32,0	67,4	75,6	12 200
34,0	65,8	74,8	11 000
36,0	64,2	73,8	9 800
38,0	62,6	72,8	8 800
40,0	61,0	71,8	7 900
42,0	59,3	70,6	7 100
44,0	57,6	69,4	6 400
46,0	55,9	68,1	5 700
48,0	54,1	66,7	5 100
50,0	52,3	65,2	4 600
52,0	50,4	63,6	4 100
54,0	48,5	61,9	3 600
56,0	46,6	60,0	3 200
58,0	44,5	58,1	2 700
60,0	42,4	56,0	2 400
62,0	40,3	53,7	2 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
82,3 m			
14,6	80,8	83,7	41 400 *
15,0	80,6	83,7	40 300
16,0	79,9	83,5	37 100
18,0	78,5	83,1	30 800
20,0	77,0	82,7	26 200
22,0	75,6	82,2	22 600
24,0	74,2	81,7	19 700
26,0	72,7	81,1	17 300
28,0	71,2	80,4	15 200
30,0	69,8	79,7	13 500
32,0	68,3	78,9	12 000
34,0	66,8	78,1	10 700
36,0	65,2	77,2	9 600
38,0	63,7	76,2	8 600
40,0	62,1	75,2	7 700
42,0	60,5	74,1	6 900
44,0	58,9	73,0	6 100
46,0	57,3	71,7	5 500
48,0	55,6	70,4	4 900
50,0	53,9	69,0	4 300
52,0	52,2	67,5	3 800
54,0	50,4	65,9	3 300
56,0	48,6	64,2	2 900
58,0	46,7	62,3	2 500
60,0	44,7	60,4	2 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
85,3 m			
15,2	80,8	86,7	37 500 *
16,0	80,2	86,6	35 800
18,0	78,9	86,2	30 700
20,0	77,5	85,8	26 000
22,0	76,1	85,3	22 400
24,0	74,7	84,8	19 500
26,0	73,3	84,2	17 000
28,0	71,9	83,6	15 000
30,0	70,5	82,9	13 300
32,0	69,1	82,2	11 800
34,0	67,6	81,4	10 500
36,0	66,2	80,6	9 400
38,0	64,7	79,6	8 400
40,0	63,2	78,7	7 500
42,0	61,7	77,6	6 600
44,0	60,2	76,5	5 900
46,0	58,6	75,3	5 300
48,0	57,0	74,1	4 700
50,0	55,4	72,7	4 100
52,0	53,7	71,3	3 600
54,0	52,1	69,8	3 100
56,0	50,3	68,2	2 700
58,0	48,6	66,5	2 300