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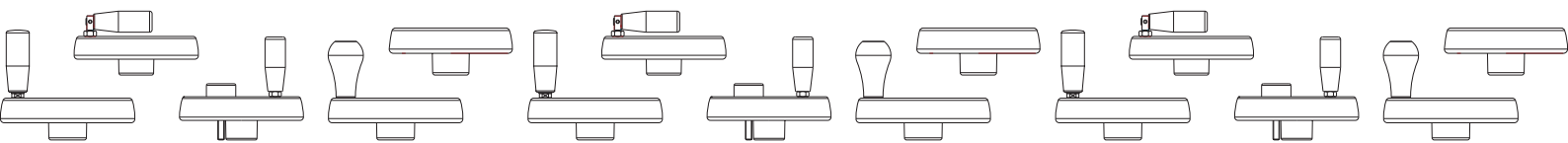


GROUP - 03

PLASTIC AND METAL SOLID CONTROL HANDWHEELS

Plastic and Metal Solid Control Handwheels BOTECA

The Boteca range of solid control handwheels is designed and manufactured to be sturdy and resistant for heavy-duty applications and capable of replacing metal handwheels. The range includes control handwheels without handles, with revolving handles, or with revolving folding handles. We also provide a series of handwheels with recessed revolving-folding handles for applications which require a flush finish for space or safety reasons. For applications that require locking the position of the handwheel, we offer a small series of handwheels with locking knobs. For heavy-duty applications, we also offer a small range of aluminium handwheels. For detailed information on the specifications of each individual product please consult the technical sheet.



C980

SOLID CONTROL HANDWHEEL WITH REVOLVING/FOLDING HANDLE AND LOCKING KNOB



Materials:

Reinforced and stabilized polyamide.
Resistant to oils and greases.

Surface finish:

Satin.

Handwheel and handle colour:

Black (RAL 9011).

Central cap:

Grey polyamide (RAL 7035). 13).

Main insert:

Galvanised steel insert with smooth through bore (tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

Revolving, folding handle art. M136 [page].

Locking knob:

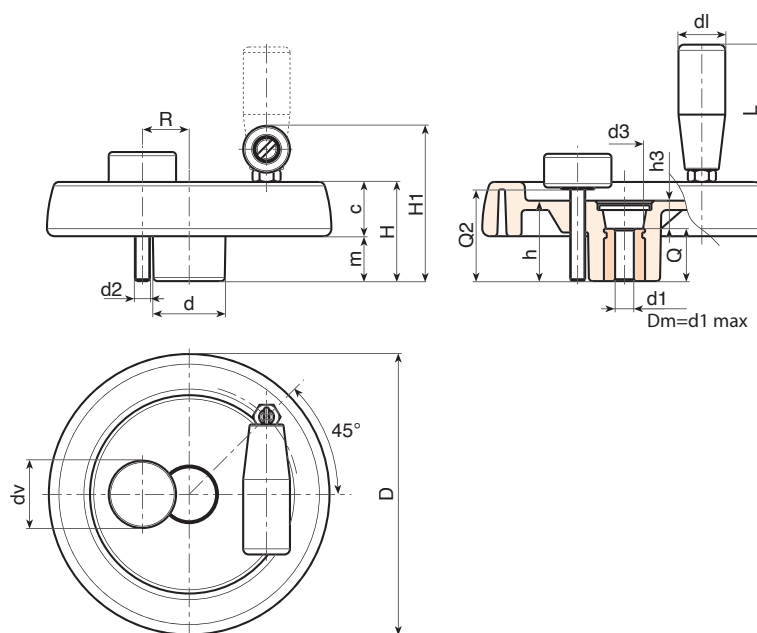
Black cylindrical knob Ral 9011 art. G793-36 (Ø 100 art. G732-25) with threaded stud [page]. Caution: the R and Q2 dimensions of the locking knob must be chosen by the customer according to the dimensions of the machinery on which the solid handwheel will be installed.

Fixing method:

For fixing systems, or execution of keyways or square holes, please refer to the technical notes attached to the catalogue [page].

Special requests:

- On request and with a minimum of 50 pieces, the inserts can be supplied with the hole d1 with H7 tolerance and black-oxide finish.
- Upon request and for special quantities inserts can be supplied with custom hole diameter d1.
- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.



Note: the article codes in the table are incomplete. Communicate the R and Q2 values to obtain the full code.

Code	Art.	D	H	H1	h	d	m	c	d3	h3	R	d2	Q2	d1	L	Dm	d1H10	Q	g
C980100...	C980100.TP0501P...	100.5	39	63	34	30.5	18	21	16.5	10	20÷23	M6	A.R.	20	56	16	5	24	295
C980125...	C980125.TP0501P...	125	44	74	37	36	20	24	26	13	23÷25	M8	A.R.	25	76	18	5	24	420
C980150...	C980150.TD0801P...	150	54	89	44	38	25	29	26	12	25÷28	M8	A.R.	26	89	22	8	32	730
C980175...	C980175.TD0801P...	173	57	92	47	40	25.5	31.5	26	15	26÷36	M8	A.R.	26	89	22	8	32	885
C980200...	C980200.TD0801P...	204	61	94	49.5	45	26	35	26.5	13.5	28÷42	M8	A.R.	26	97	28	8	36	1100
C980250...	C980250.TD0801P...	251	66.5	100	56.5	60	27.5	39	36	20.5	36÷50	M8	A.R.	26	97	28	8	36	1640

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H10 galvanised and H7 black-oxide treated).

Dm = Maximum obtainable diameter for subsequent machining (widening).

dv = 36 mm (Ø 100 dv = 25 mm). A.R. = On request.



C990



SOLID CONTROL HANDWHEEL WITH FOLDAWAY HANDLE AND LOCKING KNOB

Materials:

Reinforced and stabilized polyamide.
Resistant to oils and greases.

Surface finish:

Satin.

Handwheel and handle colour:

Black (RAL 9011).

Central cap:

Grey polyamide (RAL 7035). 13).

Main insert:

Galvanised steel insert with smooth through bore (tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

Revolving handle that folds into the handwheel, with hexagonal connection.
Reinforced polyamide handle. Black-oxide treated internal mechanism. Fixed with black-oxide treated hexagon socket button head screw ISO 7838.

Locking knob:

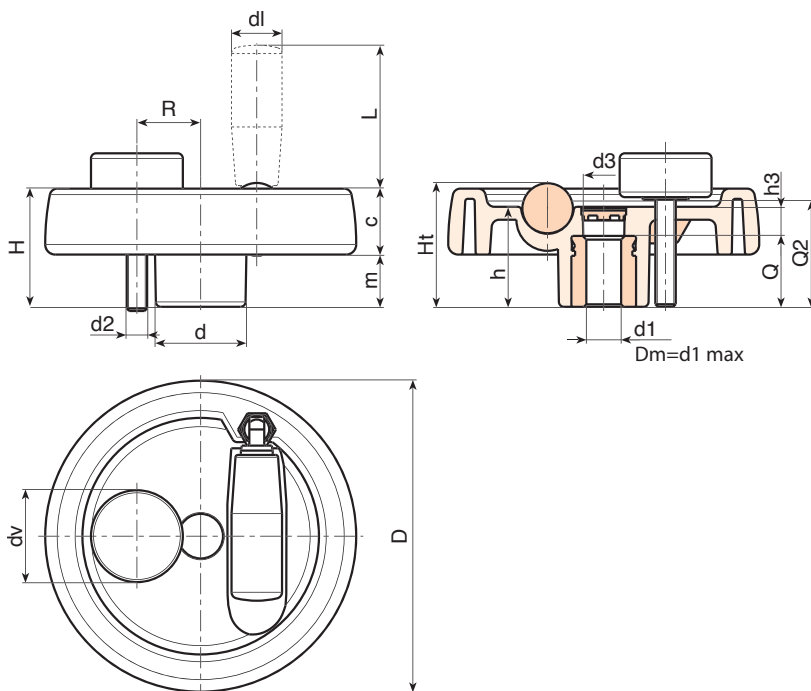
Black cylindrical knob Ral 9011 art. G793-36 with threaded stud [page]. Caution: the R and Q2 dimensions of the locking knob must be chosen by the customer according to the dimensions of the machinery on which the solid handwheel will be installed.

Fixing method:

For fixing systems, or execution of keyways or square holes, please refer to the technical notes attached to the catalogue [page].

Special requests:

- On request and with a minimum of 50 pieces, the inserts can be supplied with the hole d1 with H7 tolerance and black-oxide finish.
- Upon request and for special quantities inserts can be supplied with custom hole diameter d1.
- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.



Note: the article codes in the table are incomplete. Communicate the R and Q2 values to obtain the full code.

Code	Art.	D	H	Ht	h	d	m	c	d3	h3	R	d2	Q2	dl	L	Dm	d1H10	Q	g
C990125...	C990125.TP0501P...	124	48	49.5	40	36	21.5	26.5	16	15	22÷25	M8	A.R.	20	38	18	5	24	410
C990150...	C990150.TD0801P...	149	53	-	44	38	24.5	28.5	12	26	25÷28	M8	A.R.	20	58	22	8	32	560
C990175...	C990175.TD0801P...	174	58	-	48	40	24.5	33.5	16	26	26÷36	M8	A.R.	26	80	28	8	32	775
C990200...	C990200.TD0801P...	198	63	-	53	44	24.5	38.5	17	26	28÷42	M8	A.R.	27	90	28	8	36	1075
C990250...	C990250.TD0801P...	250	67	-	58	60	29	38	22	36	36÷50	M8	A.R.	27	90	28	8	36	1560

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H10 galvanised and H7 black-oxide treated).

Dm = Maximum obtainable diameter for subsequent machining (widening).

dv = 36 mm. A.R. = On request.

CBASE

BASE FOR SOLID CONTROL HANDWHEEL WITH PROVISION FOR SIDE HANDLE



Materials:

Reinforced and stabilized polyamide.
Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL 9011).

Central cap:

Grey polyamide (RAL 7035). 13).

Alternative cap colours:

Orange (RAL 2004 code 02).
Blue (RAL 5015 code 07).
Yellow (RAL 1021 code 10).
Red (RAL 3000 code 16).
Green (RAL 6024 code 17).
Black (RAL 9011 code 01).

Main insert:

Galvanised steel insert with smooth through bore (tolerance H10).

Lateral insert:

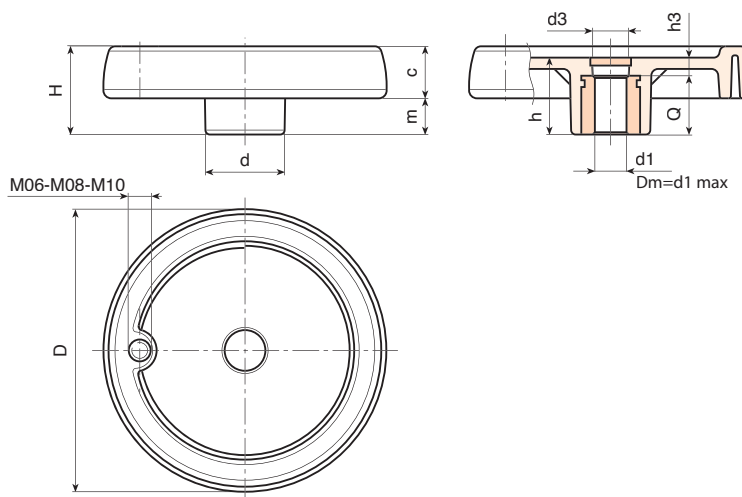
Brass insert with threaded through hole.

Fixing method:

For fixing systems, or execution of keyways or square holes, please refer to the technical notes attached to the catalogue [page].

Special requests:

- On request and with a minimum of 50 pieces, the inserts can be supplied with the hole d1 with H7 tolerance and black-oxide finish.
- Upon request and for special quantities inserts can be supplied with custom hole diameter d1.
- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.
- Upon request and for special quantities handwheels and caps are available in the colours indicated in the chart (attention: reduced range) [page].



Code	Art.	D	H	h	d	m	c	d3	h3	Dm	d1H10	g	Hole
C080.TP0501PZ1	C080.TP0501PZ1	81	33	29	25	16	17	16	9	12	5	100	M6
C100.TP0501PZ1	C100.TP0501PZ1	100.5	39	34	30.5	18	21	16.5	10	16	5	190	M6
C125.TP0501PZ1	C125.TP0501PZ1	125	44	37	36	20	24	26	13	18	5	290	M8
C150.TD0801PZ1	C150.TD0801PZ1	150	54	44	38	25	29	26	12	22	8	520	M10
C175.TD0801PZ1	C175.TD0801PZ1	173	57	47	40	25.5	31.5	26	15	22	8	660	M10
C200.TD0801PZ1	C200.TD0801PZ1	204	61	49.5	45	26	35	26.5	13.5	28	8	870	M10
C250.TD0801PZ1	C250.TD0801PZ1	251	66,5	56,5	60	27,5	39	36	20,5	28	8	1400	M10

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H10 galvanised and H7 black-oxide treated).
Dm = Maximum obtainable diameter for subsequent machining (widening).

Materials:

Aluminium.

Surface finish:

Low roughness turned surface.

Colour:

Nickel plated (galvanic treatment).

Alternative colours (min. 50 pieces):

Black epoxy powder coated:
(replace the final letter of the code (H) with letter V (W296100.
AD10V).

Cap:

Central cap in black polyamide (RAL 9011 code 01).

Alternative Cap colours:

The central cap for the black handwheel will be grey (RAL 7035 code
no. 13).

Hole:

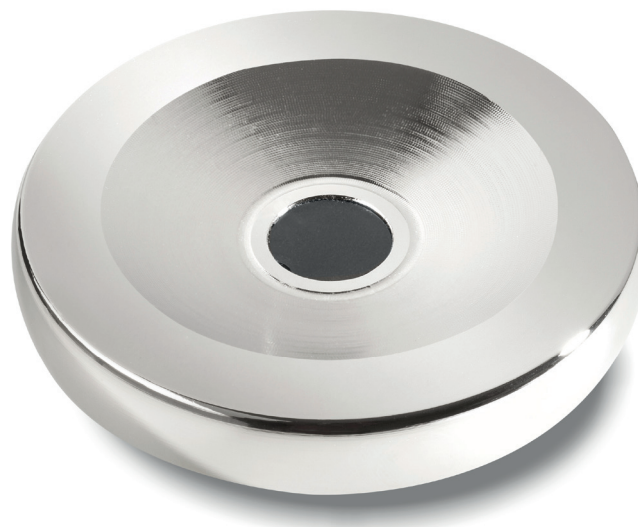
Smooth through hole, remachined with H7 tolerance.

Fixing method:

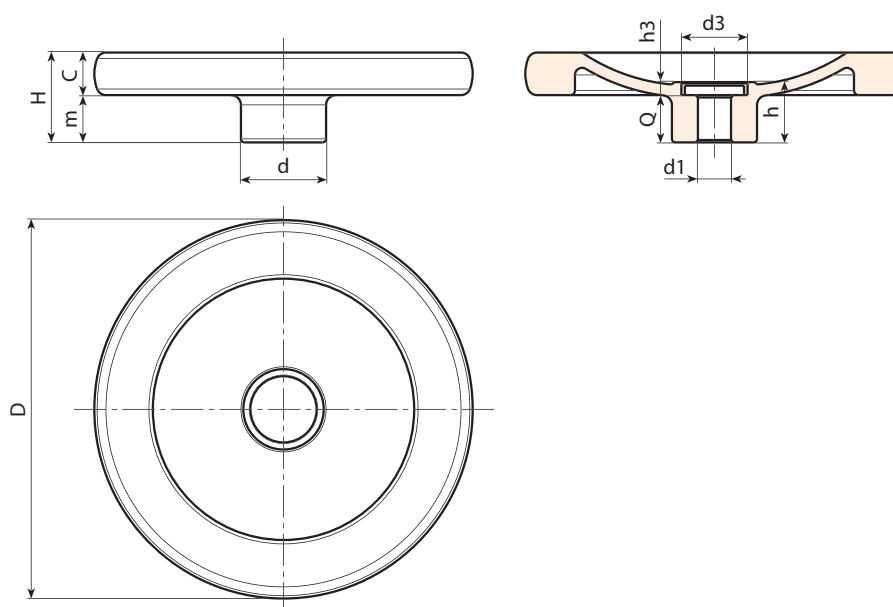
For fixing systems, or execution of keyways or square holes, please
refer to the technical notes attached to the catalogue.

Special Requests:

- Upon request and for special quantities handwheels can be
supplied on customer's drawing with hole diameter d1.



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Code	Art.	d	D	H	m	c	h	h3	d3	d1 _{H7}	Q	g
W296080.0001	W296080.AD08H	25	80	26	14	12	21	5.5	20	8	15.5	142
W296100.0001	W296100.AD10H	28	100	28	14	14	21.5	5.5	20	10	16	240
W296130.0001	W296130.AD12H	36	130	35	19	16	25.5	5.5	28	12	20	435
W296160.0001	W296160.AD14H	36	160	38	20	18	25.5	5.5	28	14	20	685
W296200.0001	W296200.AD16H	42	200	44	24	20	31.5	6	34	16	25.5	1185

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H7).

W297



Al

PA6
+G.F.



ALUMINIUM CONTROL HANDWHEEL WITH SMOOTH BORE AND REVOLVING HANDLE

Materials:

Aluminium.

Surface finish:

Low roughness turned surface.

Colour:

Nickel plated (galvanic treatment).

Alternative colours (min. 50 pieces):

Black epoxy powder coated:
(replace the final letter of the code (H) with letter V (W297100.
AD10V).

Cap:

Central cap in black polyamide (RAL 9011 code 01).

Alternative cap colours:

The central cap for the black handwheel will be grey (RAL 7035 code
no. 13).

Lateral handle:

Revolving handle art. M129 [page].

Hole:

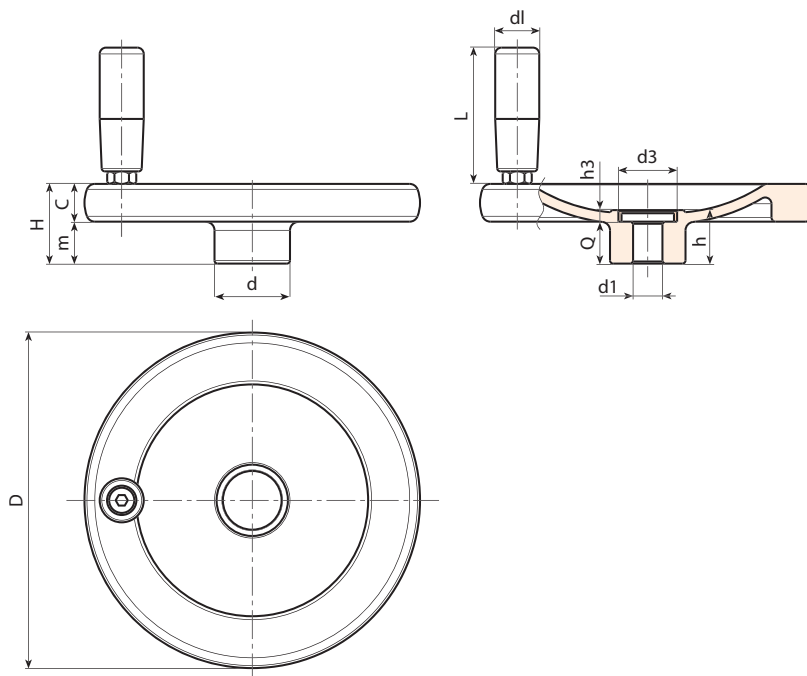
Smooth through hole, remachined with H7 tolerance.

Fixing method:

For fixing systems, or execution of keyways or square holes, please
refer to the technical notes attached to the catalogue.

Special Requests:

- Upon request and for special quantities handwheels can be supplied
on customer's drawing with hole diameter d1.



Code	Art.	d	D	H	m	c	h	h3	d3	d1 ^{H7}	Q	dl	L	g
W297080.0001	W297080.AD08H	25	80	26	14	12	21	5.5	20	8	15.5	20	52	185
W297100.0001	W297100.AD10H	28	100	28	14	14	21.5	5.5	20	10	16	20	52	282
W297130.0001	W297130.AD12H	36	130	35	19	16	25.5	5.5	28	12	20	23	62	492
W297160.0001	W297160.AD14H	36	160	38	20	18	25.5	5.5	28	12	20	25	72	778
W297200.0001	W297200.AD16H	42	200	44	24	20	31.5	6	34	16	25.5	25	81	1287

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H7).

W298



Al

PA6
+G.F.



ALUMINIUM CONTROL HANDWHEEL WITH SMOOTH BORE AND REVOLVING FOLDING HANDLE

Materials:

Aluminium.

Surface finish:

Low roughness turned surface.

Colour:

Nickel plated (galvanic treatment).

Alternative colours (min. 50 pieces):

Black epoxy powder coated:
(replace the final letter of the code (H) with letter V (W298100.AD10V).

Cap:

Central cap in black polyamide (RAL 9011 code 01).

Alternative cap colours:

The central cap for the black handwheel will be grey (RAL 7035 code no. 13).

Lateral handle:

Revolving, folding handle art. M136 [page].

Hole:

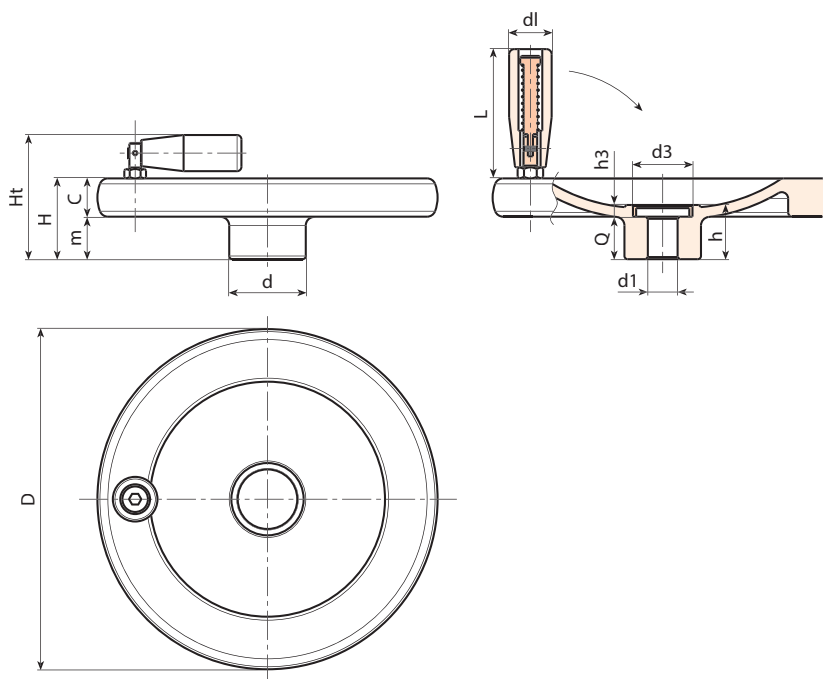
Smooth through hole, remachined with H7 tolerance.

Special Requests:

- Upon request and for special quantities handwheels can be supplied on customer's drawing with hole diameter d1.

Fixing method:

For fixing systems, or execution of keyways or square holes, please refer to the technical notes attached to the catalogue.



Code	Art.	d	D	H	m	c	h	h3	d3	d1 _{H7}	Q	dl	L	g
W298080.0001	W298080.AD08H	25	80	26	14	12	21	5.5	20	8	15.5	20	56	181
W298100.0001	W298100.AD10H	28	100	28	14	14	21.5	5.5	20	10	16	20	56	279
W298130.0002	W298130.AD12H	36	130	35	19	16	25.5	5.5	28	12	20	25	76	506
W298160.0001	W298160.AD14H	36	160	38	20	18	25.5	5.5	28	12	20	25	76	756
W298200.0001	W298200.AD16H	42	200	44	24	20	31.5	6	34	16	25.5	26	89	1337

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H7).