



Ingenious Locking Technology for Cabinets and Enclosures

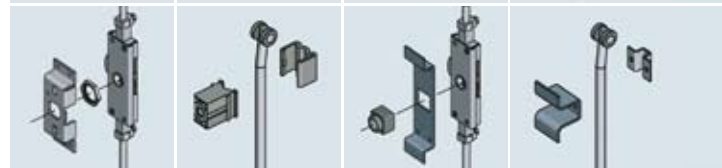
General Catalogue 2017 / 2018

List of contents

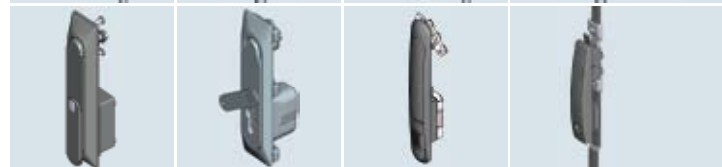
Quarter turns



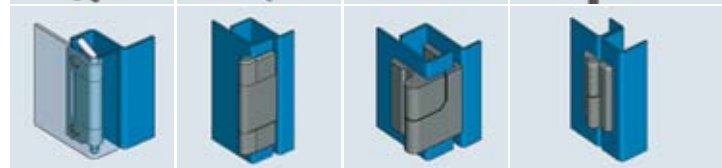
Rod controls



Locking systems



Hinges



Gasketing



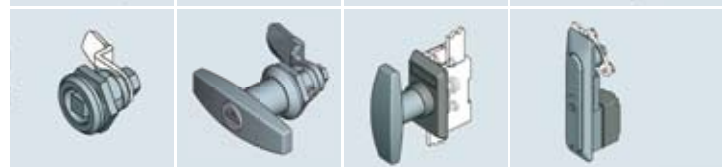
Handles



Aluminium windows



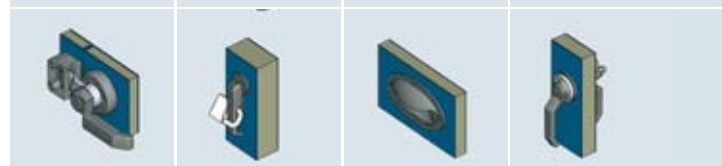
Stainless steel



Toggle latches



Air conditioning applications










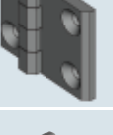




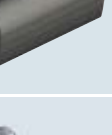




















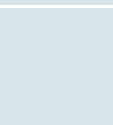
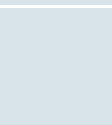


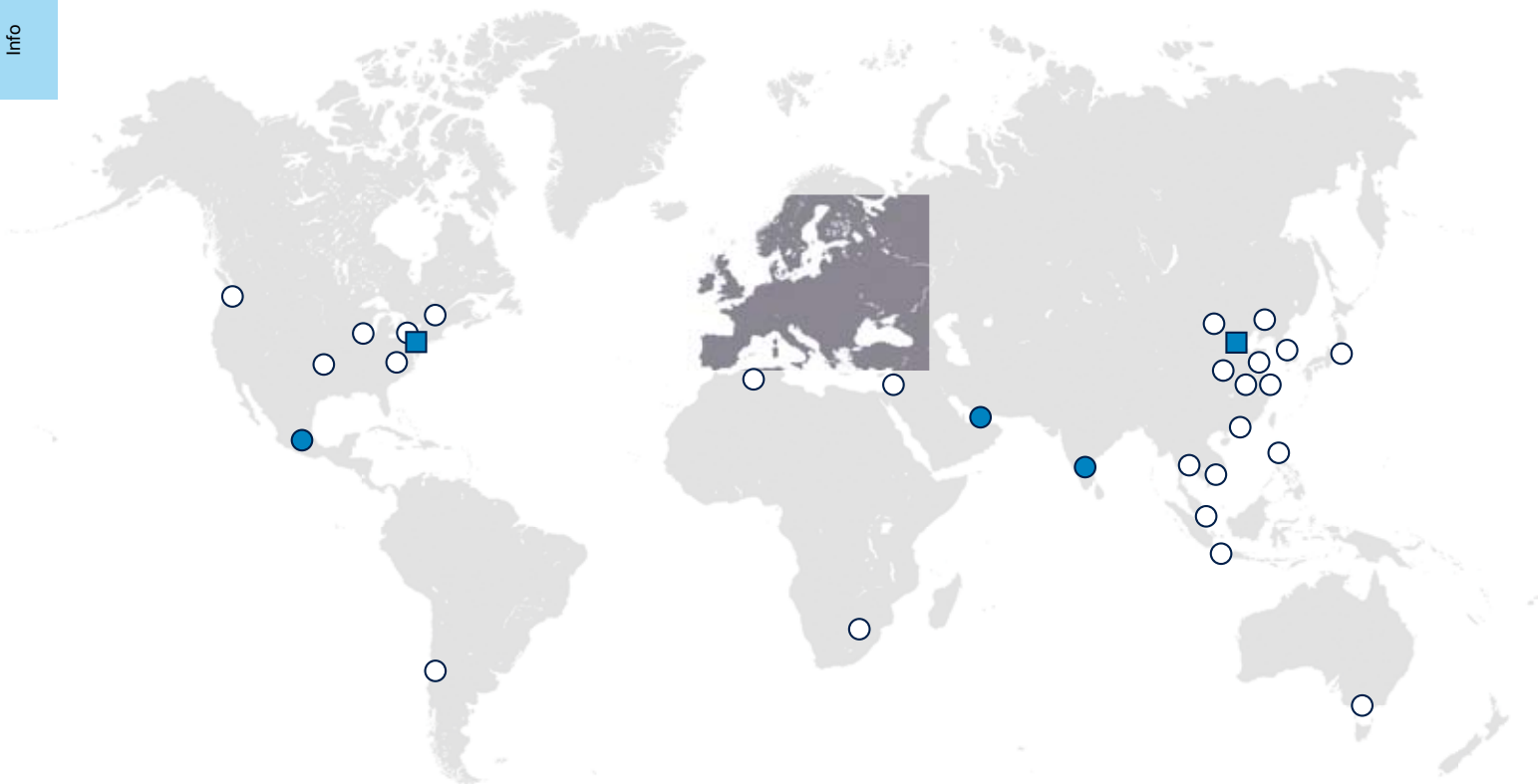
ELM Electronic Locking & Monitoring Security Systems



Miscellaneous



				Introduction EMKA worldwide Product Areas / Business Units Production from A to Z Meaning of icons / Online Product Search and CAD Download	Info
				Quarter turns Overview: 1-100 1A..... Quarter turns, small and medium version (Program 1012, 1022) 1B..... Quarter turns, standard version (Program 1000) 1C..... Accessories: cams, dust cap, rods, rod guides 1D..... Quarter turn, clipfix (program 1500) 1E..... Quarter turns, different versions	
				Rod controls 2A..... Latches for heavy duty, screw-on program 2B..... Latches for heavy duty, weld-on program	
				Locking systems Overview programs, matrix: 3-100 3A to 3N..... 1107 to 3000 3XA to 3XC..... Locking sets: modular sets, profile half cylinders 3YA up to 3YC... Rod controls, bearing bush, cams 3ZA up to 3ZC... Rods for rod control and rod gear outside or inside the gasketing; rod guides	
				Hinges Overview, matrix: 4-100 4A..... Hinges for prominent doors 4B..... Hinges for flush doors and aluminium profiles 4C..... Pin hinges	
				Gasketing 5A..... Gasketing, closed cell sponge rubber, edge protection, window rubber profiles 5B..... Gasketing according to VDI 6022 5C..... EMC gasketing material	
				Handles 6A..... Bow-type handles in different sizes, tube handles, hinged pattern handles (Program 1095) 6B..... Hinged pattern handles, with leaf spring, with insert piano wire torsion spring (Program 6040)	
				Aluminium windows 7A..... Aluminium windows with or without frame (Program 1200) 7B..... EMKA PROflex: Aluminium window completely assembled or as kit for self assembly (Program 1210) 7C..... Aluminium doors (Program 1300)	
				Stainless steel program 8A..... Locks: quarter turns, escutcheons, swinghandles, rods 8B..... Hinges for prominent or flush doors 8C..... Miscellaneous: bow-type handles, cover stays, door stops	
				Toggle latches 9A..... Wire toggle latch, rigid wire toggle latch, spring loaded toggle latch, special toggle latch, adjustable toggle latch, catch plates (Program 6000)	
				HVAC applications 10A..... Heavy duty latches, lift and turn latch, pull, pull with quarter turn, 180° hinge (Program 1091)	
				EMKA Electronics Separate brochure - NOT included in this catalog 11A..... ELM Security System: network solutions, 19" rack mount units, keypad, ELM combination handle with integrated keypad, sensors, accessories 11B..... Stand-alone Solutions: Keypad, combination handle with integrated keypad, accessories	
				Miscellaneous 12A..... Locks/latches: Retractable handle, door lock, slam lock, snap lock 12B..... Keys 12C..... Cover stays and door stops 12D..... Accessories: panel mounting device, cable shunting ring, drawing pocket 12E..... Fixing material	
				Index Part numbers / pages represented worldwide	



- Headquarters
- Production site
- Subsidiary
- Agencies/sales office



EMKA worldwide



Wuppertal, Germany



Velbert, Germany



Middletown PA, USA



Birmingham, England



Bourré, France



Henriville, France



Arnedo, Spain



Tianjin, China



Mionica, Serbia



Goražde, Bosnia and Herzegovina

The EMKA GROUP is the world market leader for locking systems, hinges and gasketing that are used in switch and control cabinets. In the sectors HVAC, food technology and transport EMKA ranks among the leading manufacturers of locking technology.

Currently, the overall range comprises more than 15,000 articles, which are developed, manufactured, refined and assembled at ten production sites in Germany, France, Great Britain, Spain, Bosnia and Herzegovina, Serbia, USA and China.

With 1,500 employees, the company is represented in more than 50 countries worldwide.

Locking Systems



Locks/Latches



Hinges



Gasketing

Product areas

EMKA offers a comprehensive product range of ingenious locking technology from a single source. The modular program structure allows a unique variety of components.

The high quality and product standards are guaranteed by an excellent manufacturing know-how and by the certified process control according to ISO 9001.



Industry

Transport

Electronics

Production

Business units

The EMKA group is divided into four business units which allow a clear focus on individual sectors and taylormade solutions for customers.

With its high level of in-house production, EMKA is in control of the entire production flow in every unit – from the concept to the finished product.



Injection Moulding



Punching, bending
and Metal Working



Zinc Die Casting

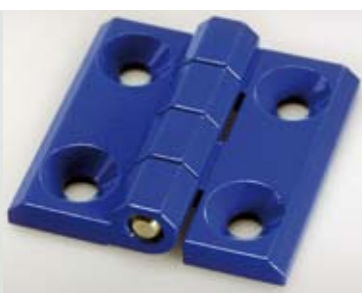


SST Precision Casting

Production from A to Z



PUR foam technology



Surface finishing



Extrusion of Profiles



Assembly of profiles

EMKA is an expert not only in stainless steel casting and in injection moulding of zinc and high performance plastics, but also in extruding rubber and plastic profiles.

Further production technologies include punching, bending, lathe machining, milling, coating and the final assembly of modular product solutions.

Thus, EMKA sets quality standards in locking technology.



Close communication
with the customer
from the idea to the product



In the EMKA Technology Centre the innovative products of tomorrow are created. 30 designers and design engineers convert ideas into finished products in close collaboration with the customer. Quite a few of these products are incorporated into the EMKA main catalogue which is thus strongly focused on the current market and customer needs. To this day round 20,000 additional special parts have been created in this way that were tailor-made for special customer requirements by our specialists, intensely tested in our internal test lab and finally produced by EMKA.

State-of-the-art CAD systems and development methods such as finite elements method, rapid prototyping and 3D print are only some of the processes that are used in this context. A powerful project management software completes the range of services.

You have got an idea?

Together, let's make a product out of it!



Inside the gasketing



Outside the gasketing



Concealed hinge



Prominent hinge



Lift-off version hinge



Hinge limited lift-off version



Hinge for single cabinets



Hinge for in-line cabinets with single door



Hinge for in-line cabinets with double door



Door RH-version



Door LH-version



Door RH- and LH-version



IP-rating, such as IP 65



PUR-foamed seal



Compression specification of lock



With earthing or earthing possible



ELM Electronic Locking & Monitoring System application



Resistance class 2



2D nut in use



2D adjustable product



3D adjustable product



Assembly without tool



Clip-in assembling



Item with graffiti resistant paint



meets hygiene requirements acc. to DIN EN 1672-2



meets hygiene requirements acc. to DIN EN ISO 14159



Shock and vibration test according to DIN EN 61373



Plastic flame-resistant according to classification UL93



Stainless steel
AISI 303 resp. 1.4305
AISI 304 resp. 1.4301
AISI 316 resp. 1.4401
AISI 316 Ti resp. 1.4571

Meaning of the Icons

The icons on the catalogue pages show the special properties of the items presented there.



Online Product Search and CAD Download

Product search: Several methods lead to the catalogue page of the required item. Both the quick and direct way by entering the page number, item number or name and by using the extended search by means of selecting specific product properties.

CAD download: in the download area under www.emka.com, the CAD data of the EMKA products are made available in the international exchange formats STEP and IGES

General notes
All drawings are shown in right-hand version.
All dimensions mentioned are in mm.
Note for cut outs: All dimensions are final dimensions, please consider for surface coating.
All drawings are not to scale.
UL50 and UL94 HB listed products see chapter 5.
In case of weld-on part in the stainless steel area the material AISI 304 is can be welded on well.
With every round cylinder of zinc die, a key of nickel silver with handle polyamide GF black is supplied.
In case of assembling by the customer, the O-rings must be lubricated with O-ring suited grease.
Hardware maintenance: the high-quality EMKA hardware is going to work perfectly for decades if used appropriately. Complementarily, we recommend a regular use of lubricants suitable for the application, utilisation and material on all moving hardware components. This particularly applies for the outdoor use.
In case of self-adhesive items the surface to be used for attaching has to be free of grease and dirt.
The length of the profile half cylinder according to DIN 18252 is to be determined by the user corresponding to the lock.
We reserve the right to make changes in design and drawing.

Abbreviations
A = Distance
B = Width
GH = Length of housing
H = Height
L = Length
Th = Door height
Ts = Door gauge
T = Material gauge
SW = Width across flat
Fst = Spring steel
Zinc die = Zinc die
Ms = Brass
m.s. = Mild steel
GF = Glass fibre
GTW = malleable cast iron, white
PA = Polyamide

Protection categories acc. to IEC 60 529

The IP protection category is characterised by 2 numbers. Example of protection category: e.g. IP 54.

First no.	Degrees of protection against contact and foreign bodies	Sec. no.	Degrees of protection against water
1	Protected against solid foreign objects Ø 50 mm and greater	1	Protected against vertically falling water drops
2	Protected against solid foreign objects Ø 12.5 mm and greater	2	Protected against vertically falling water drops when the enclosure is tilted up to 15
3	Protected against solid foreign objects Ø 2.5 mm and greater	3	Protected against spraying water
4	Protected against solid foreign objects Ø 1.0 mm and greater	4	Protected against splashing water
5	Dust-protected	5	Protected against water jets
6	Dust-tight	6	Protected against powerful water jets
		7	Protected against the effects of temporary immersion in water
		8	Protected against the effects of continuous immersion in water
		9K	Protected against high pressure and steam jet cleaning

Explanation of IP 69K

The IP Rating IP 69K was developed for the high pressure cleaning at high temperatures. The number "6" stands for the protection against the ingress of dust, the "9" for the protection in case of high pressure cleaning at small distances and the "K" for the high temperature of water used (hot water).

The protection class IP 69K was introduced in 1993 and is based on the standard DIN 40050-9.

The IP 69K test was initially developed to specify the protection of road vehicles against ingress of foreign substances as dust or dirt and against hot water jets.

The test conditions of the IP rating IP 69K require a pressure of 100 bar at a water flow rate of approx. 15 l/min and a temperature of 80°C.

The nozzle from which the water exits is at a distance of 10 cm to the object to be tested during the test.

The water jet is applied on the device under test at the angles of 0°, 30°, 60°, and 90°, for a duration of 30 seconds at each angle, while the device under test is rotated with 5 U/min on its own axis.

The paper of this catalogue is produced without chlorine bleaching.

Protection classes acc. to National Electrical Manufacturers Association (NEMA)

The UL classifications are not directly comparable with IP protection classes, since both the test conditions and the evaluation of the test results are different.

UL/NEMA	Description
1	Protection against the penetration of solid bodies.
3, 3R	Protection against the penetration of solid bodies, protection against the ingress of rain and dust and damage caused by icing.
3S	Protection against rain, snow and foreign bodies. External mechanisms remain usable despite being coated in ice.
4, 4X	Protection against rain, foreign bodies, splash water and hosed water and against damage caused by icing on the exterior of the enclosure.
12, 12K	Protection against dust deposits, foreign bodies and non-corrosive dripping liquids.
13	Protection against dust deposits, spray, oil, and non-corrosive coolants.

Stainless steel material specifications

Germany		USA	Japan	Unified Numbering System
W.-Nr.	DIN	AISI	JIS	UNS
1.4301	X5CrNi18-10	304	SUS 304	S 30400
1.4305	X8CrNiS18-9	303	SUS 303	S 30300
1.4310	X10CrNi18-8	301	SUS 301	S 30100
1.4401	X5CrNiMo17-12-2	316	SUS 316	S 31600
1.4571	X6CrNiMoTi17-12-2	316 Ti	SUS 316 Ti	S 31635

REACH, RoHS conformity and WEEE directive

Our company is represented worldwide and considers the protection of the environment and its natural resources to be a corporate duty. Not only before this background EMKA has been certified according to the environmental management standard DIN ISO 14001 for years.

Declaration regarding REACH conformity

Under the REACH regulation, EMKA is a manufacturer and supplier of products within the EEA (European Economic Area). EMKA does not manufacture or supply Substances or Preparations. All EMKA products do not involve the intentional release of substances. The compliance certificate is reviewed and eventually updated periodically according to the SVHCs new list published by ECHA.

EMKA products do not contain REACH Substances of Very High Concern (SVHC) in a concentration above the threshold value of 0.1%, as specified per ECHA Directive 1907/2006/EG (updated for SVHC candidates list from 15-June-2015).

Declaration regarding RoHS conformity

All products made by EMKA are RoHS compliant. This means that the substances restricted by the RoHS Directive 2011/65/EU (RoHS II) are not contained in finished products above the concentration limit at homogeneous material level stated in the RoHS Directive, unless the restricted substance is subject of an exemption contained in the RoHS Directive 2011/65/EU.

Declaration regarding WEEE directive

The products offered by EMKA are intended solely for B2B trade (in accordance with the WEEE-directive). After being used, they can be returned to us or disposed of by a commercial waste management company. A disposal through the municipal waste management system is not permitted! If products are returned to EMKA, we will see to their correct recycling or disposal.

Conflict Minerals Policy

EMKA is working towards ensuring that our products do not contain "conflict minerals 3TG (Tin, Tantalum, Gold and Wolfram)" that have been sourced from mines that support or fund conflict within the Democratic Republic of Congo or adjoining countries. We work closely with our suppliers to ensure the responsible sourcing of conflict minerals.

Tolerance of gaskets:

Gasket tolerance on the basis of DIN ISO 3302-1. Soft rubber usually according to "E2" and sponge rubber according to "E3".

PVC edge protection profile tolerance on the basis of DIN 16941-3B.

Some examples:

Nominal dimension		Tolerance class DIN ISO 3302-1 E2	Tolerance class DIN ISO 3302-1 E3
over	up to		
0	1,5	±0.25	±0.40
1,5	2,5	±0.35	±0.50
2,5	4,0	±0.40	±0.70
4,0	6,3	±0.50	±0.80
6,3	10	±0.70	±1.00
10	16	±0.80	±1.30
16	25	±1.00	±1.60
25	40	±1.30	±2.00
40	63	±1.60	±2.50

Nominal dimension		Tolerance class DIN 16941-3B
over	up to	
0	3	±0.40
3	6	±0.60
6	10	±0.70
10	18	±0.80
18	30	±1.00

The appropriate storage is important (optimal storage temperature +5°C to +20°C). For the storage of gaskets, attention should be paid to DIN 7716 (guidelines for storage, maintenance and cleaning of rubber products).

If possible, wrong storage in respect to long lay days or storing times should be avoided, since the mechanical characteristics may change.

Elastomers - operating temperatures and hardnesses:

Materials	Operating temperatures	Hardness(±5° Shore A)
EPDM	approx. -40°C to 100°C	25° (MG) to 90° (WG)
NBR	approx. -30°C to 100°C	25° (MG) to 90° (WG)
CR	approx. -25°C to 100°C	40° to 90°
PVC	approx. -40°C to 70°C	55° to 75°
Silicone	approx. -60°C to 180°C	10° to 90°

MG=sponge rubber / WG=soft rubber

Recommended compression for extruded sealing profile:

The compression of our sealing profiles should be 50% max., since otherwise the function (tightness) and the restoring forces are affected. In practice, the profiles are compressed between 30-50%.

It does not matter, whether it is a EPDM, NBR or a silicone profile. Here, the mechanical properties are (unlike the chemical resistances) quite comparable. If the gasket is deformed beyond these limits, there is the risk of the compression set (DVR) becoming too big, because the material deforms plastically as well.

Then the gasket would be designed too small.

Resistances:

Because of the large variety of possible chemicals, solvent (concentrations), operating temperatures and times, no evaluations concerning the possible resistances can be made at this point. In every individual case, a test under the present circumstances, like concentration, temperature and duration of the impact, is recommended.

Fire protection:

We supply materials certified according to the current fire protection standards for rail vehicles. E. g. according to DIN 5510-2; NF F 16-101/-102; DIN EN 45545-2; UNI CEI 11170; ASTM-C and -E. Whether the achieved categories fit to the respective requirements or vehicle classes has to be verified for the individual case. Generally speaking, silicone profile achieve higher fire protection classes than EPDM.

Disclaimer:

Communicated values are normally values determined at sample Sheets and correspond to our corresponding state of knowledge.

DNV-GL

MANAGEMENT SYSTEM ZERTIFIKAT

Zertifikat-Nr.: 194710-2016-AQ-GER-DAKKS Datum der Erstzertifizierung: 16. Februar 2013 Gültig: 16. Februar 2016 - 15. September 2018

Hiermit wird bescheinigt, dass das Unternehmen

EMKA Beschlagteile GmbH & Co. KG
Langenberger Str. 32, 42551 Velbert, Deutschland

Managementsysteme in Übereinstimmung mit diesen Standards eingeführt hat:

ISO 9001:2008
ISO 14001:2004

Dieses Zertifikat ist gültig für die folgenden Produkt- oder Dienstleistungsbereiche:

Entwicklung, Herstellung und Vertrieb von mechanischen / elektronischen Verschluss- Systemen; Scharnieren, Kunststoffspritz- , Automatenrechten und Sonderanfertigungen. Management des Herstellungsprozesses von Dichtungen und Druckgussteilen.

Ort und Datum:
Essen, 11. Februar 2016


 Deutsche
 Akkreditierungsstelle
 D-238 18033-03 00

Zertifizierungsstelle:
 DNV GL - Business Assurance
 Schlieringhof 14, 45329 Essen, Germany
 Thomas Beck
 Leiter Zertifizierungsstelle

Bei Verstoß gegen die im Zertifizierungsvertrag genannten Bedingungen kann das Zertifikat seine Gültigkeit verlieren.
 AKKREDITIERTE STELLE: DNV GL Business Assurance Zertifizierung und Umweltgutachter GmbH, Schlieringhof 14, 45329 Essen, Germany.
 TEL: +49 201 7296-222, www.dnvgl.de/assurance

DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 194710-2016-AQ-GER-DAKKS Initial certification date: 16. February 2013 Valid: 16. February 2016 - 15. September 2018

This is to certify that the management system of

EMKA Beschlagteile GmbH & Co. KG
Langenberger Str. 32, 42551 Velbert, Germany

has been found to conform to the Management System standards:

ISO 9001:2008
ISO 14001:2004

This certificate is valid for the following scope:

Development, manufacturing and sales of mechanical / electronic locking systems; hinges, injection moulded parts, robot turned parts, specially manufactured products. Management of the production process of gaskets and die casting products.

Place and date:
Essen, 11. February 2016


 Deutsche
 Akkreditierungsstelle
 D-238 18033-03 00

For the issuing office:
 DNV GL - Business Assurance
 Schlieringhof 14, 45329 Essen, Germany
 Thomas Beck
 Technical Manager

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.
 AKKREDITIERTE STELLE: DNV GL Business Assurance Zertifizierung und Umweltgutachter GmbH, Schlieringhof 14, 45329 Essen, Germany.
 TEL: +49 201 7296-222, www.dnvgl.de/assurance

Explanation of the terms left hand/right hand door and locking direction



LH door
=
Hinges are on
the LH side



LH door with
swinghandle
=
Opening direction
is clockwise



LH door with
escutcheon
=
Opening direction
is anti-clockwise

Illustration with closed door



RH door
=
Hinges are on
the RH side



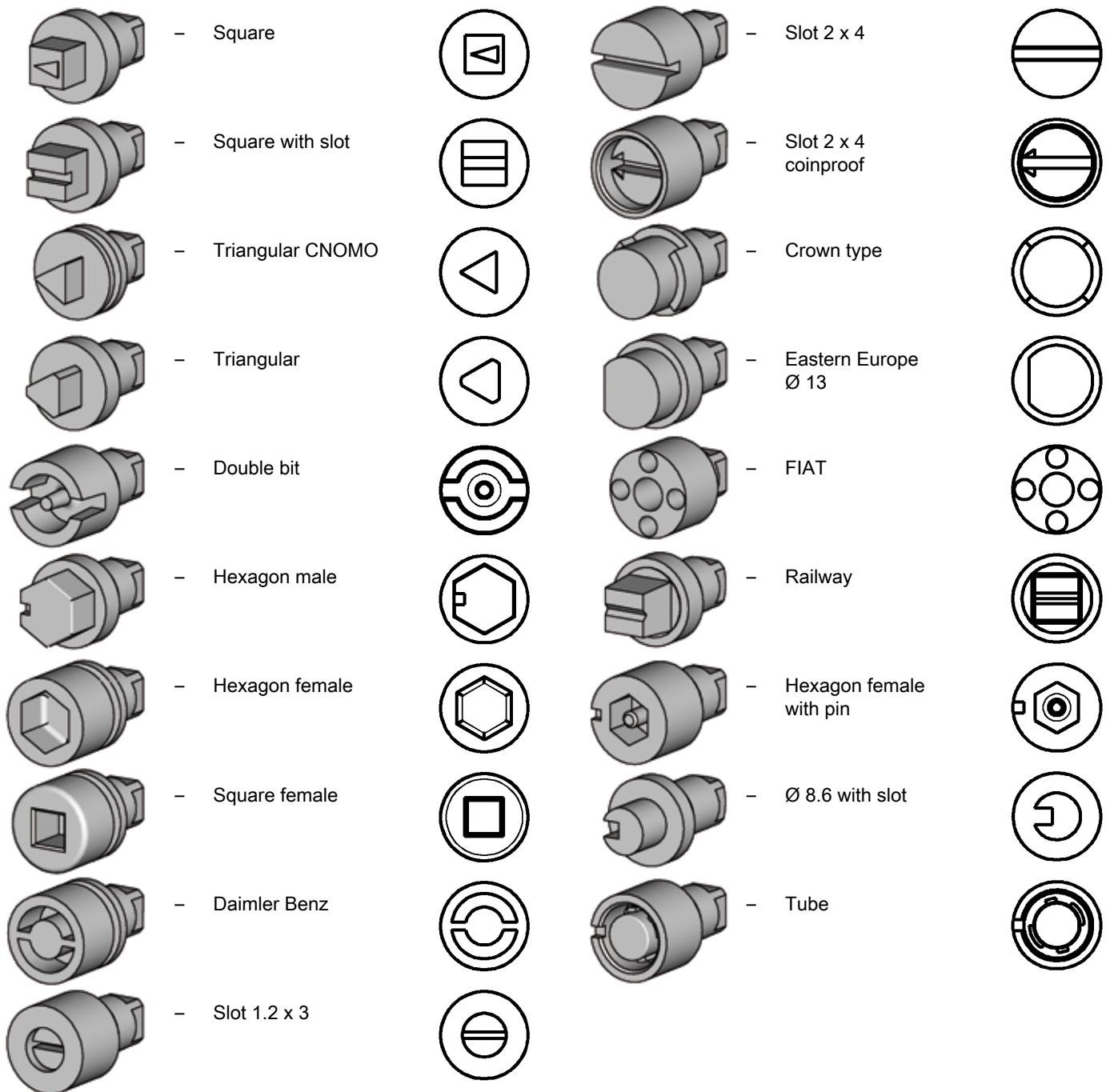
RH door with
swinghandle
=
Opening direction
is anti-clockwise



RH door with
escutcheon
=
Opening direction
is clockwise

Overview of inserts

for quarter turns, escutcheons, swinghandles and further articles.



Further inserts on request!

Quarter turns

1022	1012	1000	1500	Beschlagteile
Quarter turn small version	Quarter turn medium version	Quarter turn standard version	Quarter turn plug-in version	
1A-100	1A-100	1B-100, 1C-100	1D-100	see page
•	•	•	•	Screw-in
•		•		Clip-in
•		•		With spring fixing
		•		Weld-on
			•	Clip-in
IP 65	IP 65	IP 65 / IP 66 / IP 69K	IP 65	Protection: IP
20 / 22	22	28 / 30 / 32 / □28	30	Head diameter
3	4	4 / 5 / 6 / 24	4 / 6	Head height
13,5	20	18-60	15 / 18	Housing length
•		•	•	Polyamide
•	•	•		Zinc die
		•		Mild steel
•		•		Stainless steel
•		•		Sealing separate
		•	•	Foamed sealing
•	•	•	•	Cam polyamide
		•	•	Cam m.s.
•	•	•	•	Cam stainless steel
•		•	•	Insert
•		•	•	Round cylinder
•		•	•	Wing knob
		•	•	T-Handle
		•	•	L-Handle
		•		Radial cylinder
		•		Padlock
		•		Safety quarter turn
•		•		Compression latch
		•		Locking for fire brigade
		•		Railroad
		•		FIAT
		•		Quarter turn for Swedish power companies
		•		Slam cam
		•		Hooked lever assembly
•	•	•		Dust cap
		•		Finger pull
		•		Inside handle

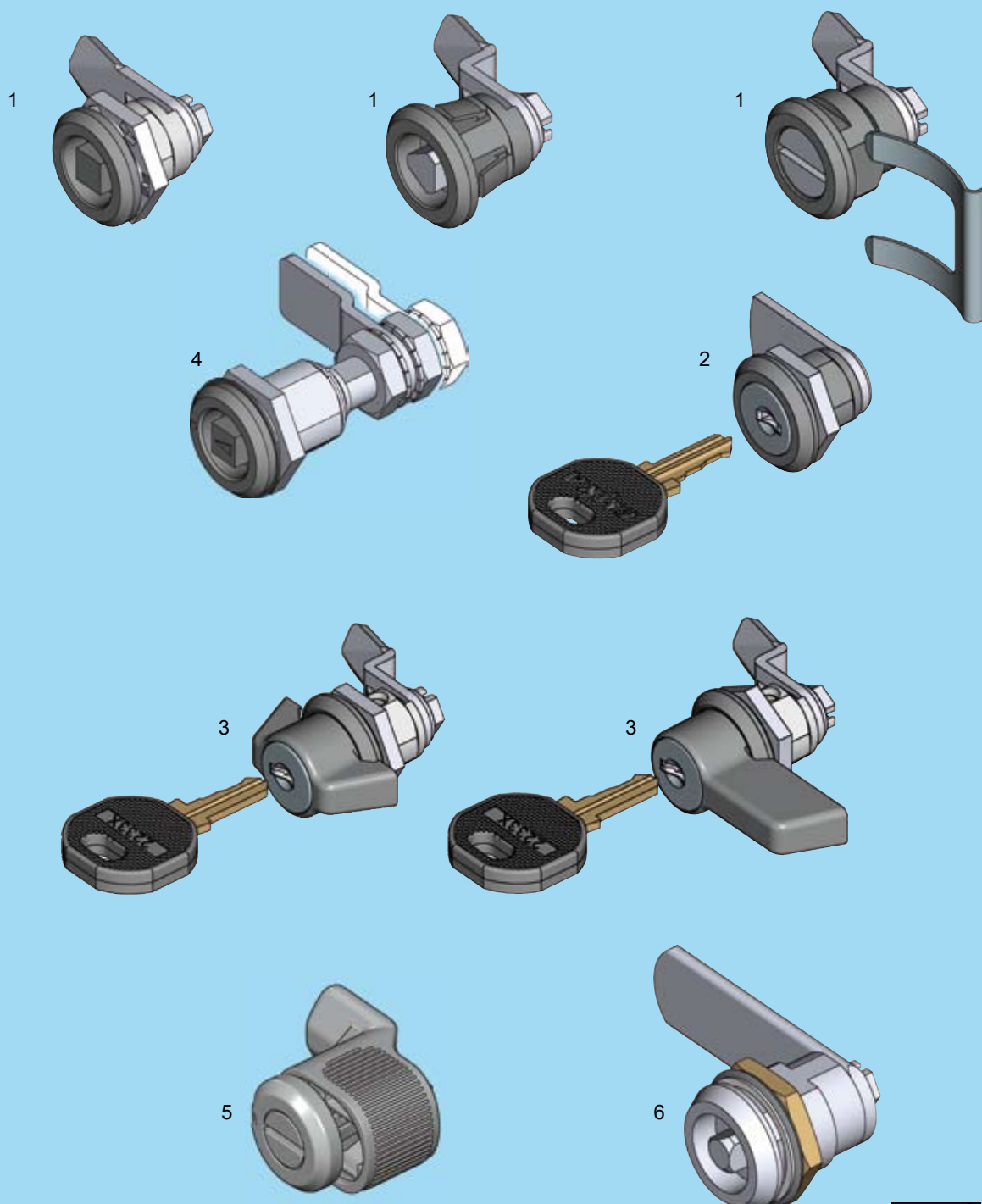


Beschlagteile

Notes:

Lined area for notes, consisting of 30 horizontal lines.

Quarter turns small and medium version, Program 1012, 1022



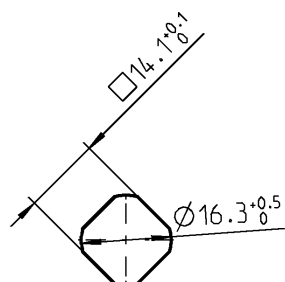
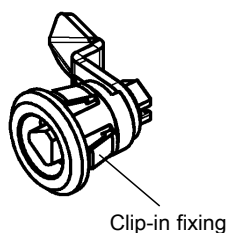
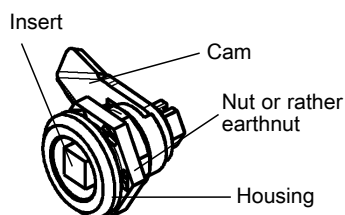
- | | | |
|---|----------------------------|--------|
| 1 | Quarter turns with insert | 1A-120 |
| 2 | Quarter turn with cylinder | 1A-160 |
| 3 | Wing knob | 1A-140 |
| 4 | Compression latch | 1A-220 |
| 5 | Quick fastener | 1A-320 |
| 6 | Quarter turns with insert | 1A-420 |



1A-100

Quarter turn, small version

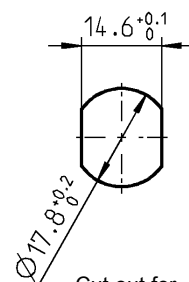
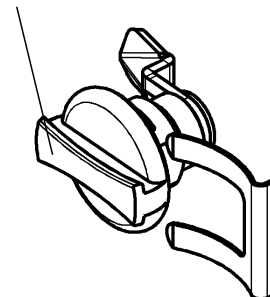
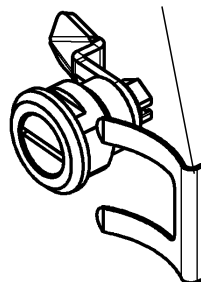
PROGRAM 1022



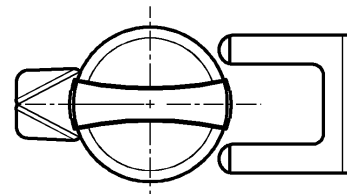
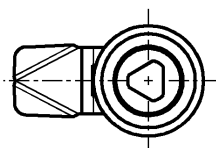
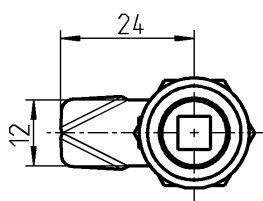
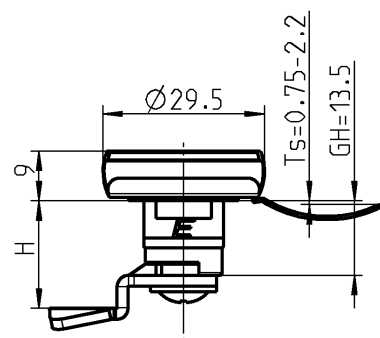
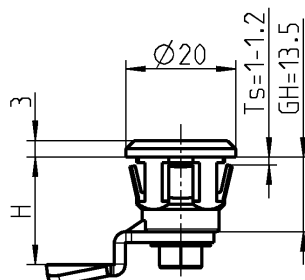
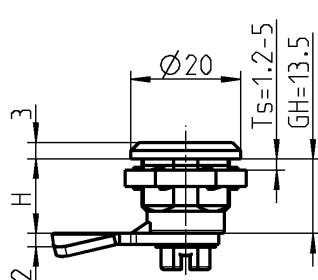
Cut out for nut and clip-in fixing

Spring fixing

Wing knob



Cut out for spring fixing



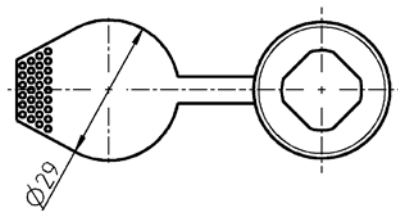
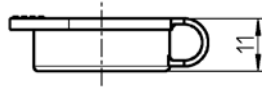
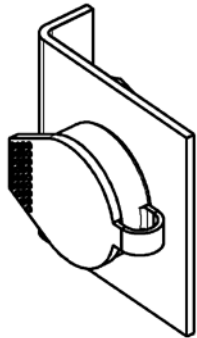
Housing zinc die, PA or stainl. st.; nut or spring fixing m.s. zinc plated or stainless steel; with seal (only for stainless steel Version)

	Zinc die chrome plated	Zinc die black powder coated	Stainless steel AISI 303	Polyamide black	
with nut ¹⁾ m.s. ²⁾ AISI 303	1022-U8 ¹⁾	1022-U46 ¹⁾	1022-U60 ²⁾	1022-U71 ¹⁾	
with earthnut m.s.	1022-U9	1022-U47	—	—	
Clip-in fixing	—	—	—	1022-01-02	
With spring fixing	1022-U76	1022-U77	—	1022-U78	

Insert zinc die, Polyamide or stainless steel; fixing material m.s. zinc plated; with seal (only for stainless steel version)

					Key zinc die black
Square 6	1022-U2	1022-U44	1022-U61	1022-U72	1004-20
Triangular 6,5	1022-U1	1022-U43	1022-U62	1022-U73	1004-21
Slot 1,5 x 3	1022-U3	1022-U45	1022-U63	1022-U74	—
Blank	1022-U4	—	1022-U64	1022-U75	—
Wing knob	—	—	—	1022-U82	—

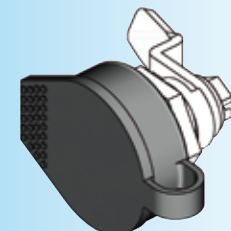
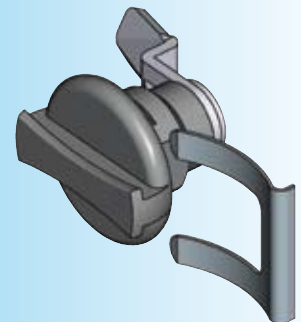
Accessories



Attention:
Not suitable for housings with spring or clip-in fixing.



INOX
AISI
3..



Cam on choice, t = 2

	m.s. zinc plated	AISI 304
H = 7,5	1022-20	1022-20-PC
13,5	1022-07	1022-07-PC
19,5	1022-08	1022-08-PC

IP 65 with:

- O-ring (included in case of stainless steel Version)	1022-09
- flat seal (only for screw-on housing, included in case of stainless steel version)	1022-10

Assembling on request

without O-ring	1022-990
with O-ring	1022-991

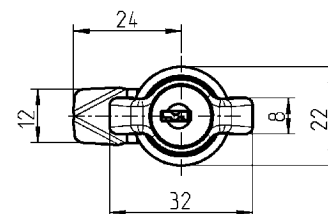
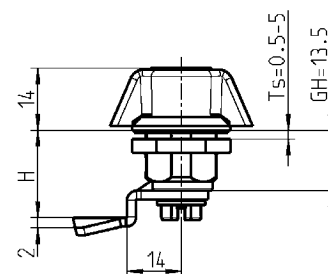
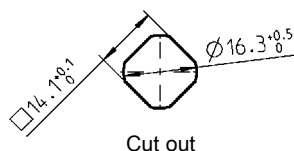
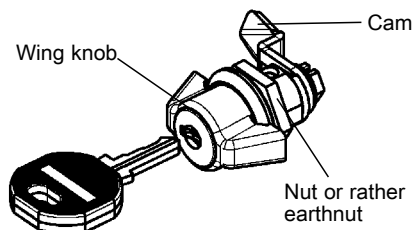
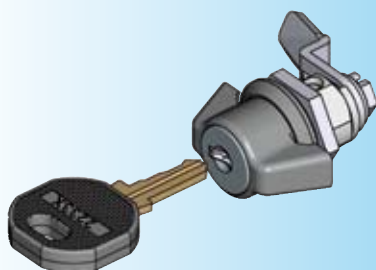
Accessories

Dust cap polyethylene black	1022-23-01
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Attention:
By using the dust cap 1022-23-01 dimension H will be reduced by 2 mm
Not suitable for housings with spring or clip-in fixing

Application area:
Small doors and panels

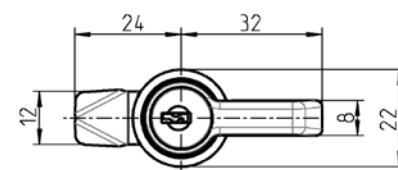
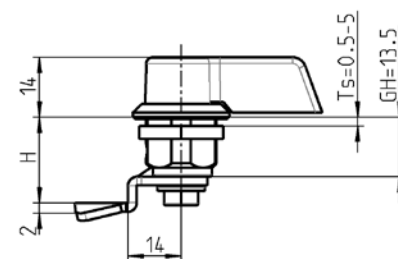
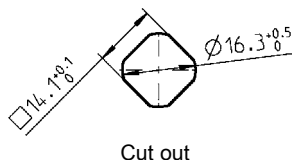
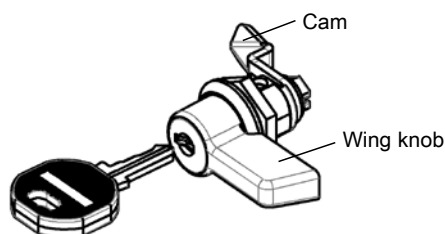
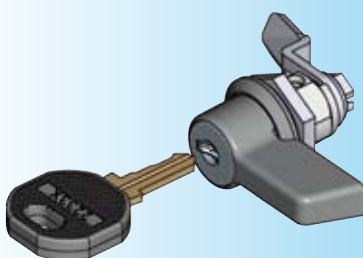
Wing knob quarter turn, small version PROGRAM 1022



Wing knob with housing zinc die, round cyl. zinc die with stainless steel cap, nut or earth nut and screw m.s. zinc plated.

Each round cylinder has one silver steel key with polyamide grip GF black.

non lock- ing*	keyed alike 2233X	keyed different		non lock- ing*	keyed alike 2233X	keyed different
chrome plated				black powder coated		
1022-U29	1022-U31	1022-U33	Nut	1022-U37	1022-U39	1022-U41
1022-U30	1022-U32	1022-U34	Earthnut	1022-U38	1022-U40	1022-U42
Cam m.s. zinc plated, t = 2						
H = 7,5	1022-20	H = 13.5	1022-07	H = 19.5	1022-08	



* = IP 65

Application area:
Small doors and panels

Further parts see page
– Spare key 12B-140

Wing knob with housing zinc die, round cyl. zinc die with stainless steel cap, nut or earth nut and screw m.s. zinc plated.

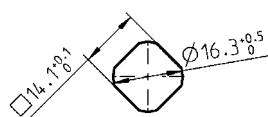
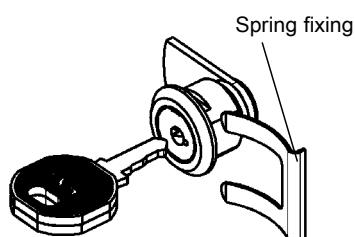
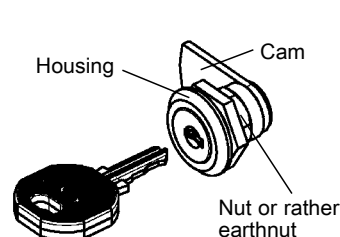
Each round cylinder has one silver steel key with polyamide grip GF black.

non lock- ing*	keyed alike 2233X	keyed different		non lock- ing*	keyed alike 2233X	keyed different
chrome plated				black powder coated		
1022-U48	1022-U50	1022-U52	Nut	1022-U54	1022-U56	1022-U58
1022-U49	1022-U51	1022-U53	Earthnut	1022-U55	1022-U57	1022-U59
Cam m.s. zinc plated, t = 2						
H = 7,5	1022-20	H = 13.5	1022-07	H = 19.5	1022-08	

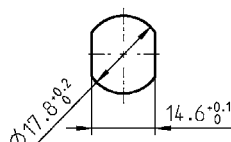
Cylinder quarter turn, small version

PROGRAM 1022

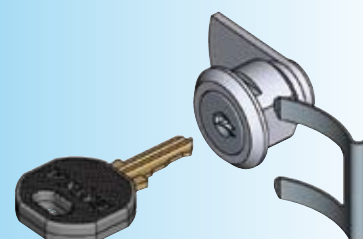
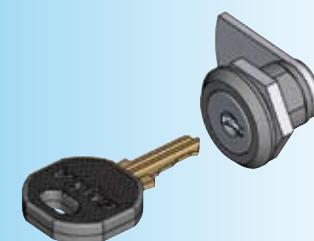
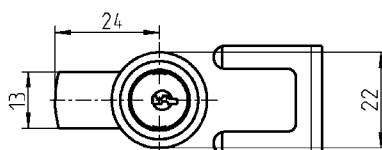
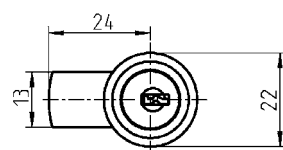
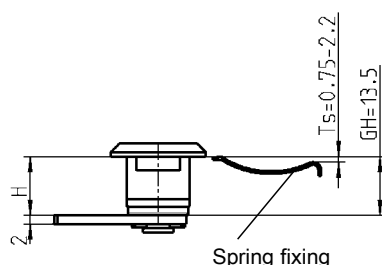
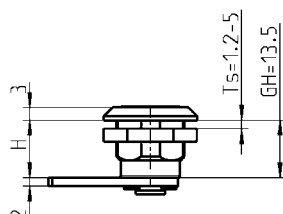
Beschlagteile



Cut out for nut fixing



Cut out for spring fixing

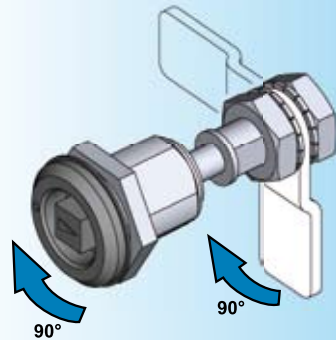


Cylinder quarter turn material on choice, zinc die chrome plated or polyamide GF black, round cylinder zinc die with stainless steel cap, nut or earthnut and safety washer m.s. zinc plated
1) with one key silver steel and polyamide GF grip black
2) with one key m.s. nickel plated

	H	Zinc die with nut	Zinc die with earthnut	Polyamide with nut
		1)	1)	2)
keyed 2233X	7,5	1022-U16	1022-U22	1022-U65
	13,5	1022-U17	1022-U23	1022-U66
	19,5	1022-U18	1022-U24	1022-U67
keyed different	7,5	1022-U19	1022-U25	1022-U68
	13,5	1022-U20	1022-U26	1022-U69
	19,5	1022-U21	1022-U27	1022-U70
	H	Zinc die with spring fixing		
		1)		
keyed 2233X	7,5	1022-U10		
	13,5	1022-U11		
	19,5	1022-U12		
keyed different	7,5	1022-U13		
	13,5	1022-U14		
	19,5	1022-U15		

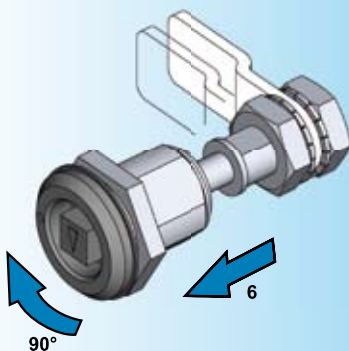
Application area:
Small doors and panels

Further parts see page
– Spare key 12B-140



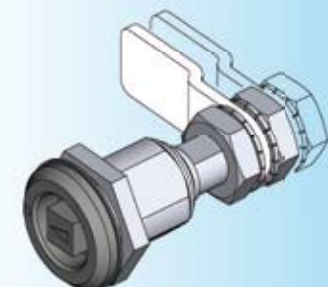
Open condition

The first 90° of rotation of the insert also turns the cam 90°.



Closed position

The second 90° of rotation of the insert draws the cam toward the door 6 mm axially.



Compressed condition

Unlock:

Reversed rotation

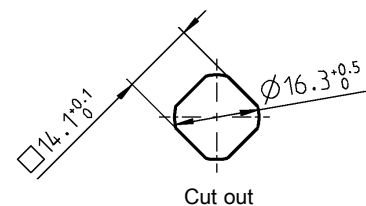
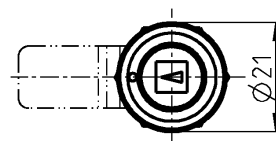
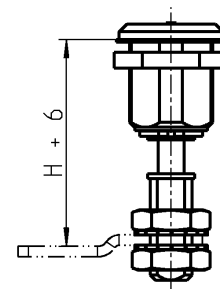
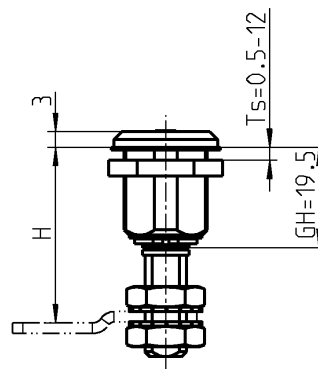
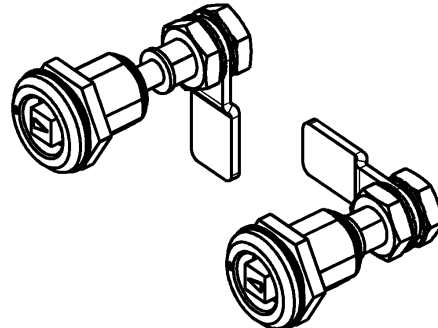
Further parts see page

- Dust cap 1A-120
- Cam 1A-240
- Key 12B-120

Compression latch PROGRAM 1022

Vibration proof

These latches are designed to be vibration resistant with a distinct “over-center” action. There may be some cases of extreme vibration where this detent is overcome. Therefore we recommend rigorous testing.

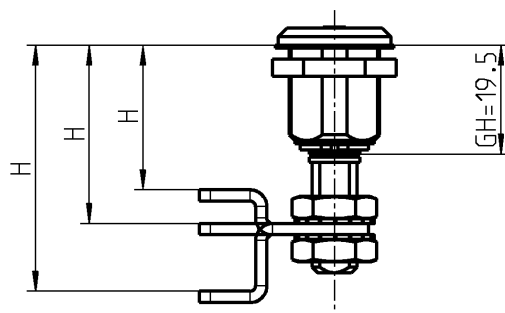
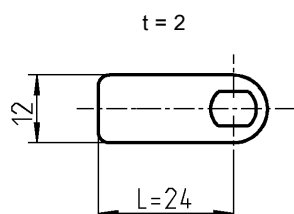


max. torque 2.5 Nm

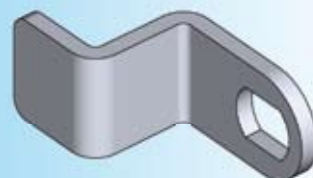
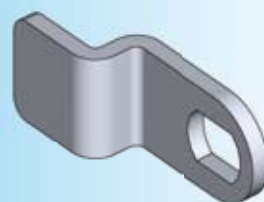
Housing and insert zinc die,
shaft and nut m.s. zinc plated,
with spring and seal

	black powder coated	chrome plated
Square 6	1022-U83	1022-U83-IA
Triangular 6,5	1022-U85	1022-U85-IA
Slot 1,5 x 3	1022-U84	1022-U84-IA

Cam m.s. zinc plated for compression latch PROGRAM 1022



straight cam



cranked cam

Cam m.s. zinc plated

for GH = 19,5

H

GH = 19,5

straight

25,5 - 32,5

1022-49

cranked 6 mm

19,5 - 26,5; 31,5 - 38,5

1022-50

cranked 12 mm

13,5 - 20,5; 37,5 - 44,5

1022-51

Note:

Cranked cams are reversible

Further parts see page

– Compression latch

1A-220



**Patented,
self-sealing design**

**Assembly and disassembly
without tools**

Assembly note:

Assembly door stop on the right:
Pre-mounted insert part is
inserted in the cut out when
closed. Then fixed with
snap-in pin.

Assembly door stop on the left:
Pre-mounted insert part is
inserted in the cut out when
opened. Then fixed with
snap-in pin.

Other door thickness on request!

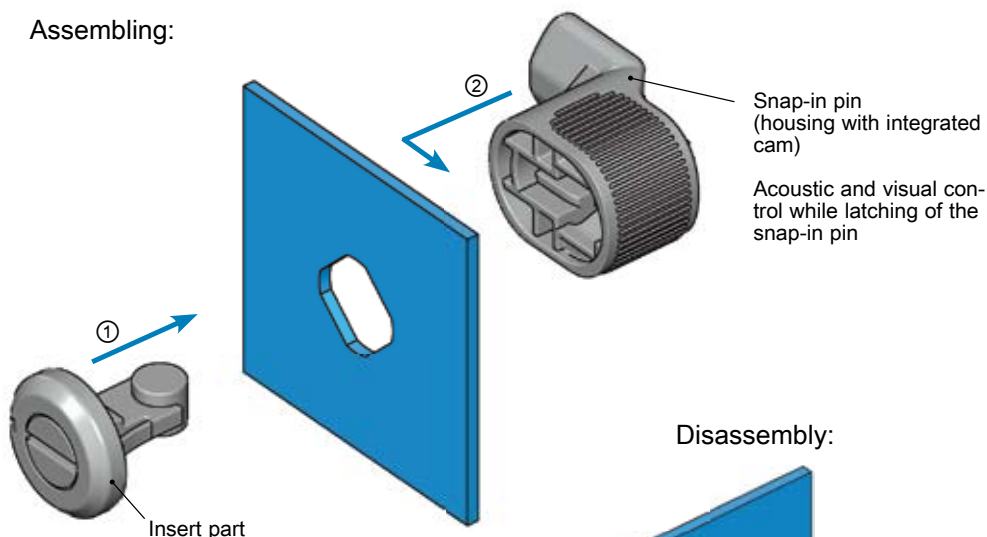
Other snap-in pin on request!

Further parts see page

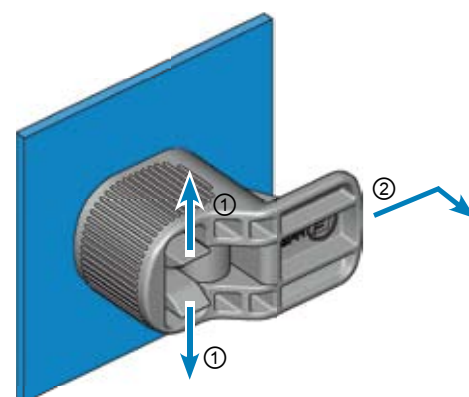
– Key 12B-120

Quarter turn for quick mounting PROGRAM 1022

Assembling:

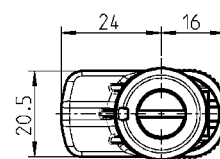
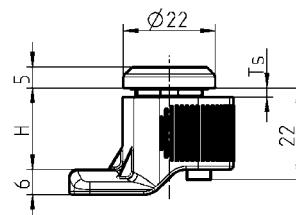
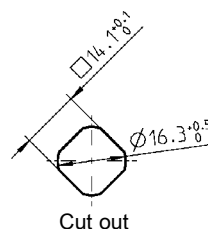
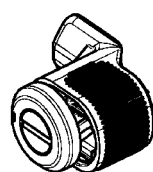
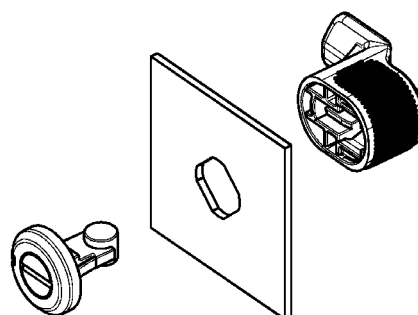


Disassembly:



Note! IP 69K test passed!

The basic principle of the patented solution is:
the higher the closing force, the greater the
tightness.
The IP 69K Rating was achieved in the
test with a cam pretension of ≥ 1 mm
and ≥ 65 N



Insert part polyamide GF black; with seal

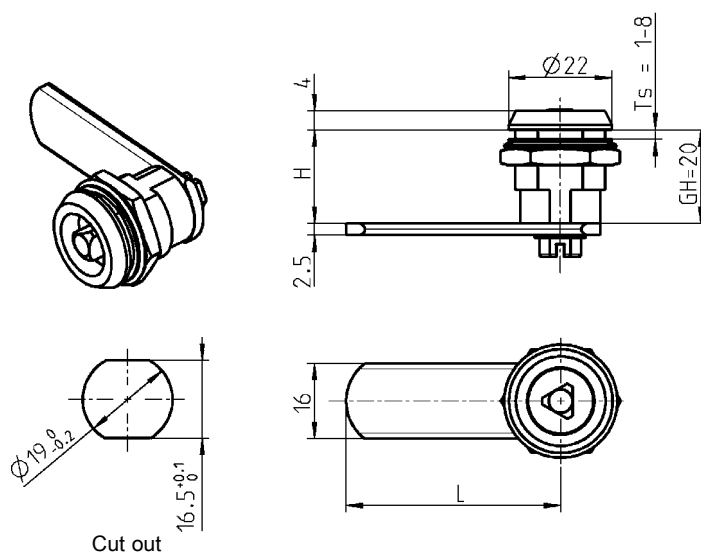
Square 6	1022-U89
Triangular 6,5	1022-U90
Slot 1,5 x 3	1022-U91

Snap-in pin polyamide GF black

Ts	H	
0,5 - 1,0 including surface coating	7,5	1022-56-01
	13,5	1022-56-02
	19,5	1022-56-03
1,0 - 1,5 including surface coating	7,5	1022-55-01
	13,5	1022-55-02
	19,5	1022-55-03
1,5 - 2,0 including surface coating	7,5	1022-54-01
	13,5	1022-54-02
	19,5	1022-54-03

Quarter turn with built-in options, medium version

PROGRAM 1012

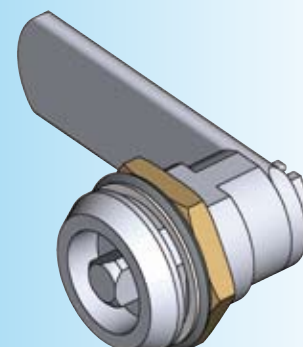
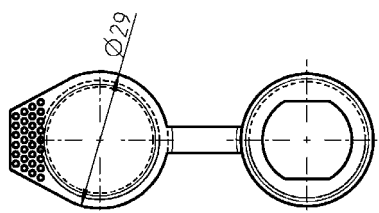
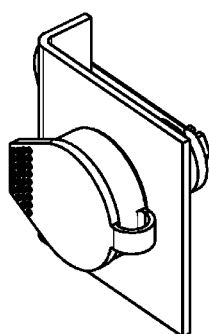
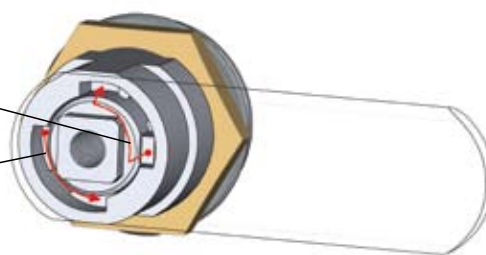


Cut out

2 in 1

Version A

Version B



This quarter turn has two options.

Version A:

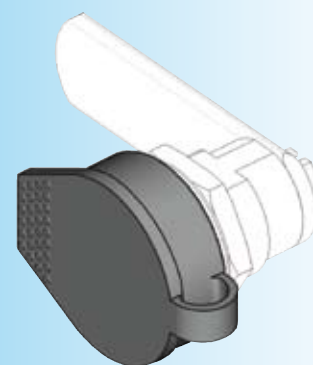
Push cam back using insert and turn.
Cam snaps into place.
Vibration proof op.

Version B:

Turn insert for standard quarter turn operation.

Note:

The quarter is of a vibration-proof design. This depends on the installation location and operational conditions. Specific checks are necessary and/or supplementary measures of fastening required.



Complete quarter turn:
Housing with insert zinc die nickel plated,
Nut brass, screw m.s.zinc plated
with spring and seal

Key

Square 7	1012-U2	1004-36
Triangular 6,5	1012-U1	1004-21
Double bit 3	1012-U3	1004-34
Slot 2 x 2,5 coinproof	1012-U4	—

Cam m.s. zinc plated

H = 20 ; L = 46

Lock washer Fst zinc plated

1012-06-JG

Dust cap polyethylene black

1012-08

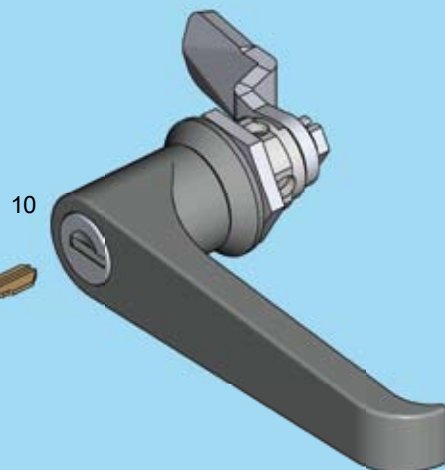
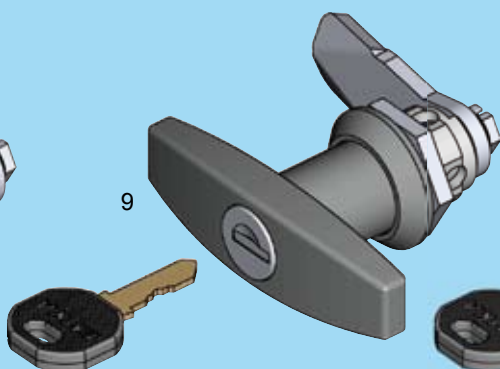
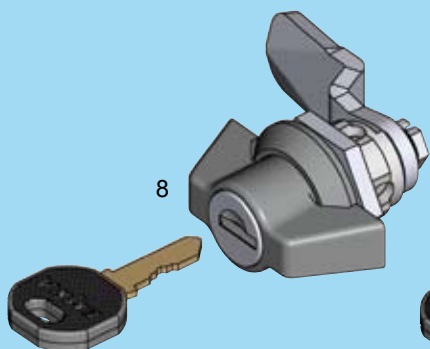
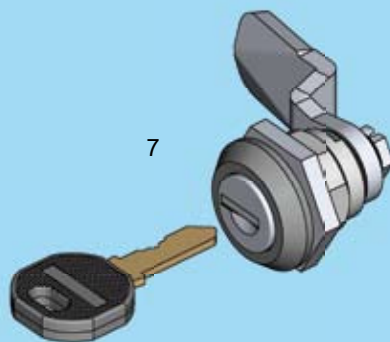
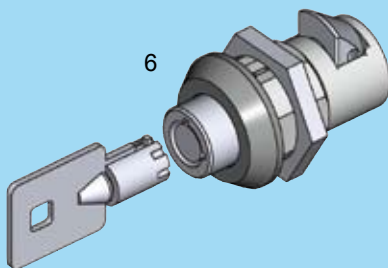
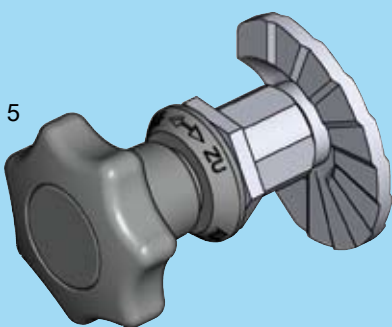
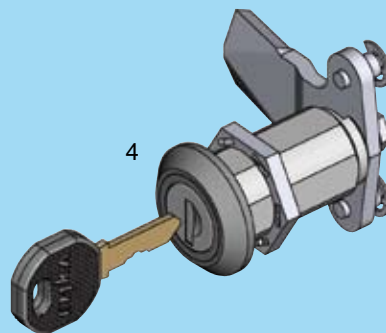
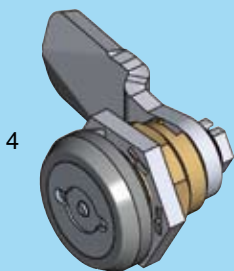
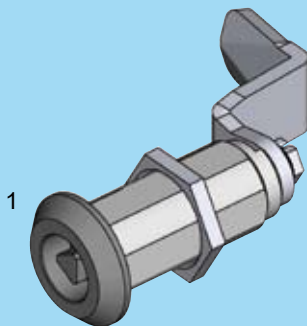
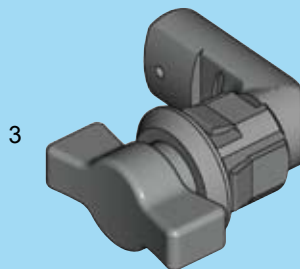
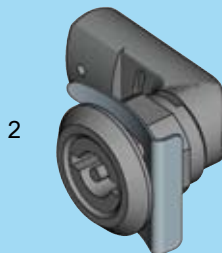
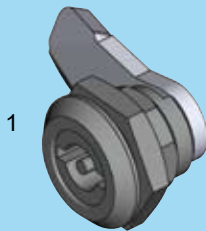
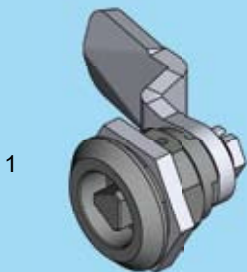
Attention:

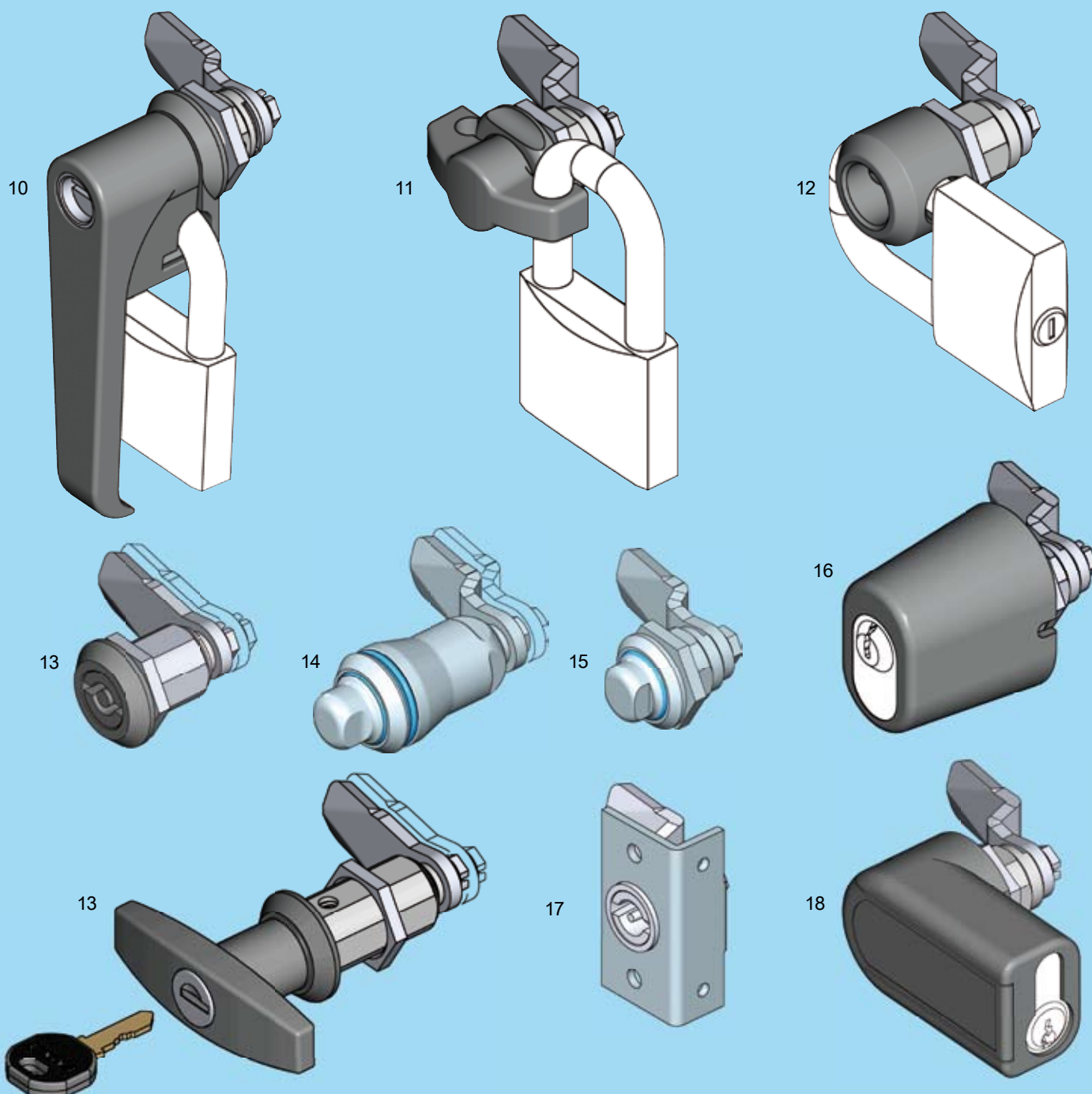
When using dust cap 1012-08, the H dimension is reduced by 2 mm

Other inserts on request!

Cams with other dimensions (H and L) on request.

Quarter turns large version, Program 1000



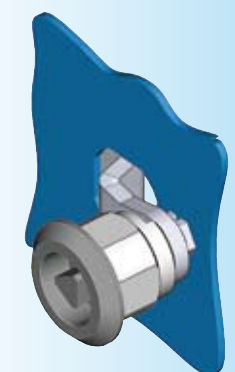
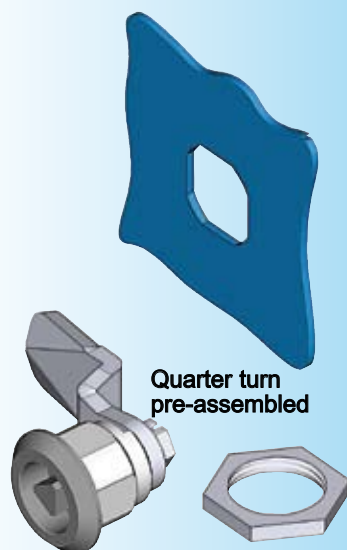


- 1 Quarter turn screw-on e.g. with insert
- 2 Quarter turn with spring fixing e.g. with insert
- 3 Clip-in quarter turn e.g. with wing knob
- 4 Safety quarter turn
- 5 Quarter turn with stepped cam
- 6 Radial pin-push cylinder
- 7 Quarter turn with cylinder
- 8 Wing knob
- 9 T-Handle
- 10 L-Handle
- 11 Quarter turn for padlock
- 12 Quarter turn with padlockable housing
- 13 Compression latch
- 14 Stainless steel compression latch for hygienic areas
- 15 Quarter turn for hygienic areas
- 16 Wing knob for ASSA-cylinder
- 17 Quarter turn screw-on or weld-on
- 18 Quarter turn for profile half cylinder

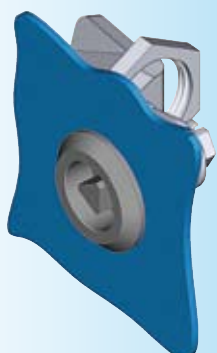
- 1B-120 up to 1B-360, 1B-680 up to 1B-860
- 1B-160
- 1B-160, 1B-760
- 1B-320 up to 1B-360
- 1B-240
- 1B-380
- 1B-420
- 1B-540
- 1B-520, 1B-560
- 1B-580 up to 1B-640
- 1B-680
- 1B-680
- 1B-220 up to 1B-235
- 1B-837
- 1B-835
- 1B-840
- 1B-820
- 1B-850



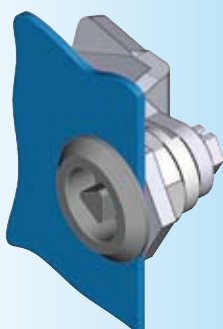
1B-100



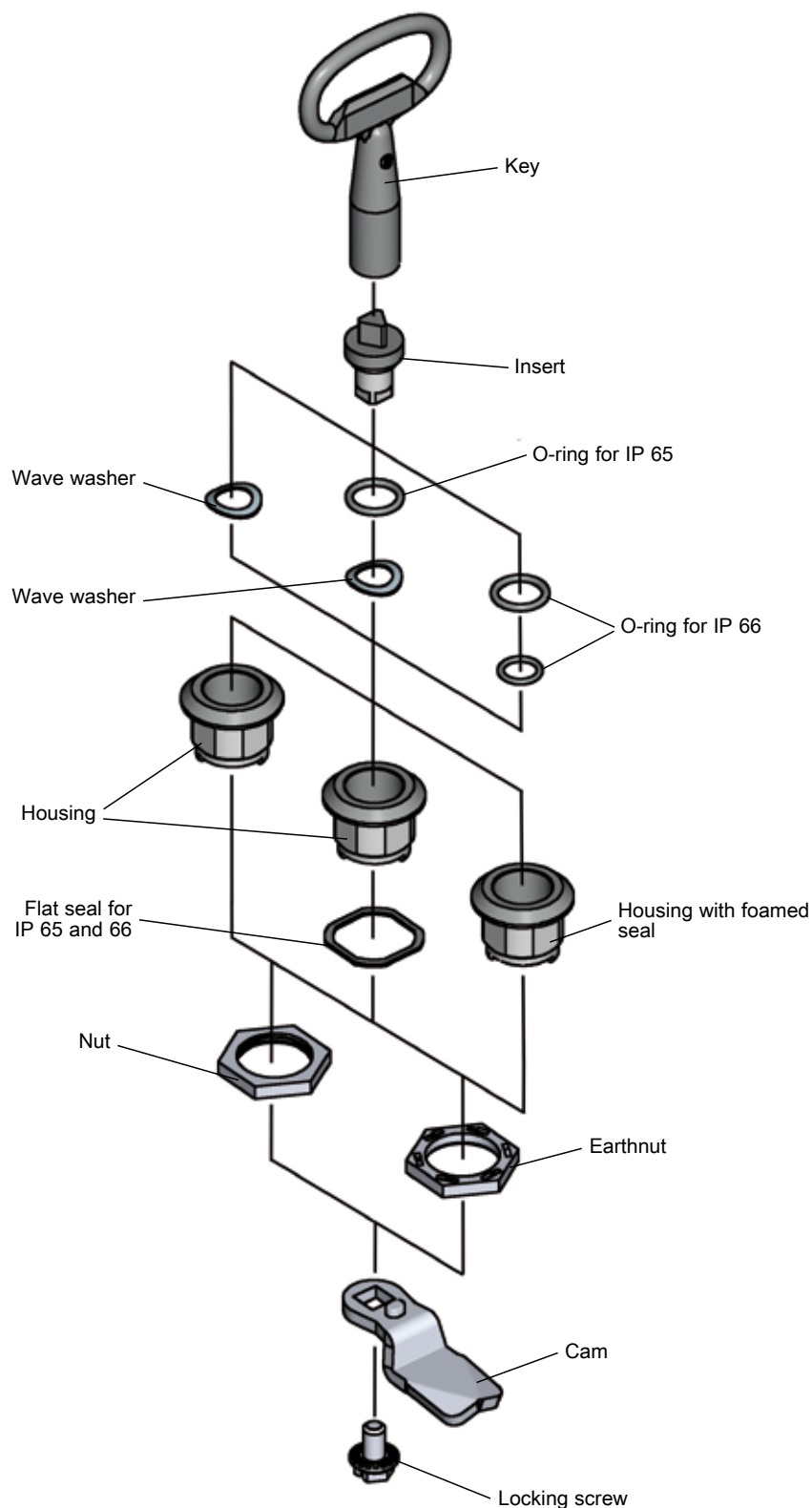
Pass through cut out



Assemble the nut



Ready for operating



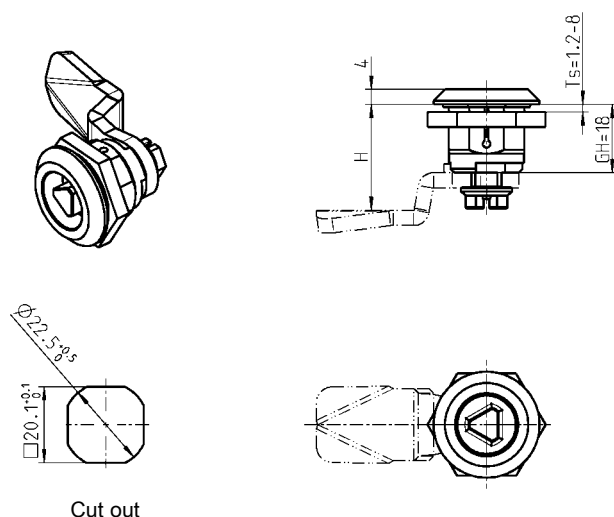
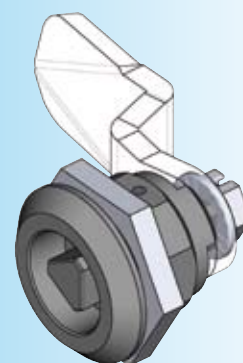
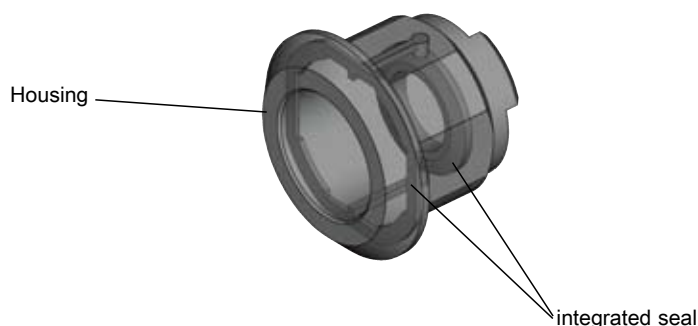
Screw-in safety earthing quarter turn program

By use of the afore mentioned earthnut our screw-in quarter turn is in accordance to the standard VDE-regulation 0660/part 5.

The earthnut is produced with teeth, which under pressure removes the enamel in a limited way and ensure metallic continuity (earthing).

Standard nuts do not meet this requirement due to the high quality of the enamel.

Quarter turn with integrated IP 65 seals PROGRAM 1000



Housing polyamide 6 GF 30 black with integrated TPE seal*
with nut m.s. zinc plated

Head diameter	28	32
Head height	4	6
	1000-U155-D	1000-U46-D

Insert polyamide 66 GF 50 black with screw m.s. zinc plated

Square 7	1000-U184-N2
Square 8	1000-U185-N2
Triangular 8	1000-U186-N2
Double bit 3	1000-U187-N2
Double bit 5	1000-U188-N2
Slot 2 x 4	1000-U196-N2

Assembling on request

1000-990

*The TPE seal provides protection against penetration of water, aqueous solution, alcohol, antifreeze, saline solution (15 %), sulphuric acid (98 %), hydrochloric acid and caustic soda. A very good resistance against hydrolysis is provided.
In case of prolonged contact with oil and fuel then the problem of swelling or hardening could arise. Occasional lubrication will not create problems.

Attention:

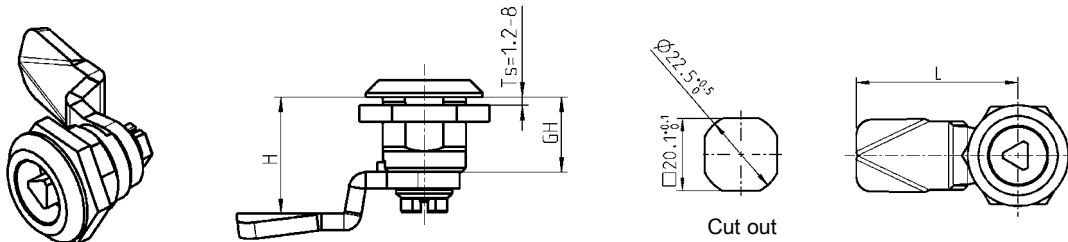
In case of assembling by the customers the insert must be lubricated (Vaseline).

Further parts see page

– cam with catch	up to 1C-120
– Accessories	from 1C-180
– Escutcheon	3B-140
– Key	12B-120

Quarter turn; Housing GH = 18 and 30 - 60; Insert; Seal

PROGRAM 1000



Cut out

Housing with nut or earthnut m.s.zinc plated

Head diameter								
GH = 18 mm	4		4		6		4	
Head height	Nut	Earthnut	Nut	Earthnut	Nut	Earthnut	Nut	Earthnut
zinc die chrome pl.	1000-U45	1000-U56	1000-U47	1000-U55	1000-U7	1000-U54	1000-U330	1000-U332
Zinc die chrome plated (with foamed seal)	1000-U45-G	1000-U56-G	1000-U47-G	1000-U55-G	1000-U7-G	1000-U54-G	-	-
Zinc die black powder coated	1000-U223	1000-U224	1000-U221	1000-U222	1000-U219	1000-U220	1000-U331	1000-U333
Zinc die black powder coated (with foamed seal)	1000-U223-G	1000-U224-G	1000-U221-G	1000-U222-G	1000-U219-G	1000-U220-G	-	-
Polyamide GF VO black	1000-U155	-	-	-	1000-U46	-	-	-
Polyamide GF VO black (with foamed seal)	1000-U155-G	-	-	-	on request	-	-	-
Stainless steel AISI 303 (with foamed seal)	1000-U134	-	-	-	-	-	-	-
Stainless steel AISI 316 (with foamed seal)	1000-U530	-	-	-	-	-	-	-

Insert zinc die, polyamide or stainless steel;
Fixing material m.s. zinc plated or stainless steel;
with seal (only for stainless steel version)

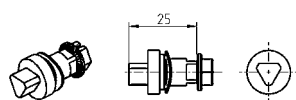
Zinc die chrome plated

Zinc die black

Polyamide 66 GF 50 black

Stainl. steel AISI 304

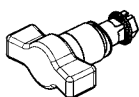
Stainl. steel AISI 316



Insert

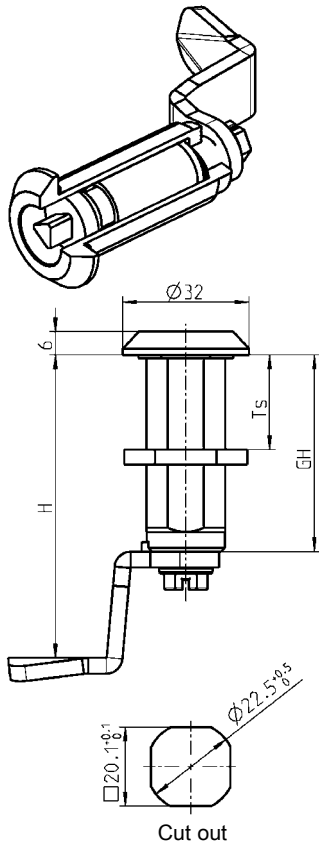


Star handle



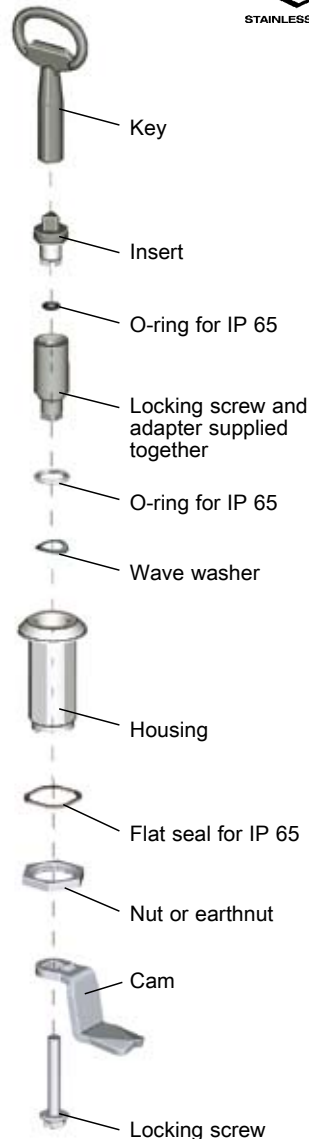
Wing knob

Square 6	1000-U17	1000-U322	-	1000-U351	-
Square 7	1000-U1	1000-U323	1000-U184-N	1000-U135	1000-U531
Square 8	1000-U2	1000-U324	1000-U185-N	1000-U136	1000-U532
Square 8 slotted	1000-U18	-	-	1000-U352	-
Triangular 6.5 CNOMO	1000-U197	-	-	-	-
Triangular 7	1000-U3	1000-U325	-	1000-U334	1000-U536
Triangular 8	1000-U4	1000-U326	1000-U186-N	1000-U335	1000-U537
Triangular 9	1000-U194	-	-	-	-
Triangular 10	1000-U249	-	-	-	-
Double bit 3	1000-U5	1000-U327	1000-U187-N	1000-U183	1000-U533
Double bit 5	1000-U6	1000-U328	1000-U188-N	1000-U137	1000-U534
Hexagon female 10	1000-U96	-	-	-	-
Square female 6	1000-U168	-	-	-	-
Square female 7	1000-U182	-	-	-	-
Square female 8	1000-U169	-	-	-	-
Daimler Benz	1000-U20	-	-	-	-
Slot 1,2 x 3	1000-U195	-	-	-	-
Slot 2 x 4	1000-U142	1000-U329	1000-U196-N	1000-U630	1000-U631
Slot 2 x 4 coinproof	1000-U738	1000-U739	-	-	-
Crown type	1000-U336	-	-	-	-
Eastern Europe Ø 13	1000-U509	-	-	1000-U729	-
Hexagon female 8 with pin	1000-U757	-	-	1000-U757-01	-
			Polyamide GF / Zinc die black	Polyamide GF black / AISI 304	
Star handle	-	-	1000-U13	1000-U138	-
Wing knob	-	-	1000-U78	1000-U510	-



GH	Ts
30 mm	1,5 up to 20 mm
36 mm	1,5 up to 26 mm
40 mm	1,5 up to 30 mm
50 mm	1,5 up to 40 mm
60 mm	1,5 up to 50 mm

Assembling instruction



IP 65 with:	
** flat seal	1000-23
** O-ring	1000-24
IP 66 with:	
Seal-set	1000-U769
IP 69K with:	
* Seal-set	1000-U841
Assembly on re-request:	
without O-ring	1000-990
with O-ring	1000-991

Housing material on choice; nut or earthnut m.s. zinc plated or nut stainless steel
Adapter zinc die or AISI 303, screw m.s. zinc pl. or stainless steel

GH in mm	Zinc die chrome plated		Zinc die black powder coated		Polyamide black	AISI 316
	Nut	Earthnut	Nut	Earthnut		
30	1000-U51	1000-U65	1000-U225	1000-U226	1000-U876	1000-U878
- adapter			1000-U164			1000-U879
36	1000-U246	1000-U248	1000-U317	1000-U318	-	-
- adapter			1000-U198			-
40	1000-U66	1000-U67	1000-U227	1000-U228	1000-U737	-
- adapter			1000-U165			-
50	1000-U68	1000-U69	1000-U229	1000-U230	1000-U736	-
- adapter			1000-U166			-
60	1000-U504	1000-U505	1000-U506	1000-U507	-	-
- adapter			1000-U535			-

** included in case of stainless st. version

* Seal-set only complete assembled with housing, insert and cam available

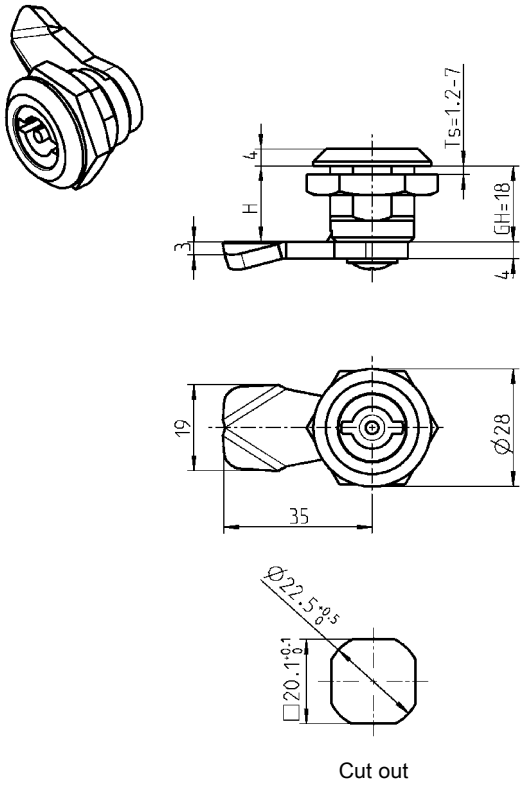
Note:
Quarter turn assembling 1B-105

Further parts see page

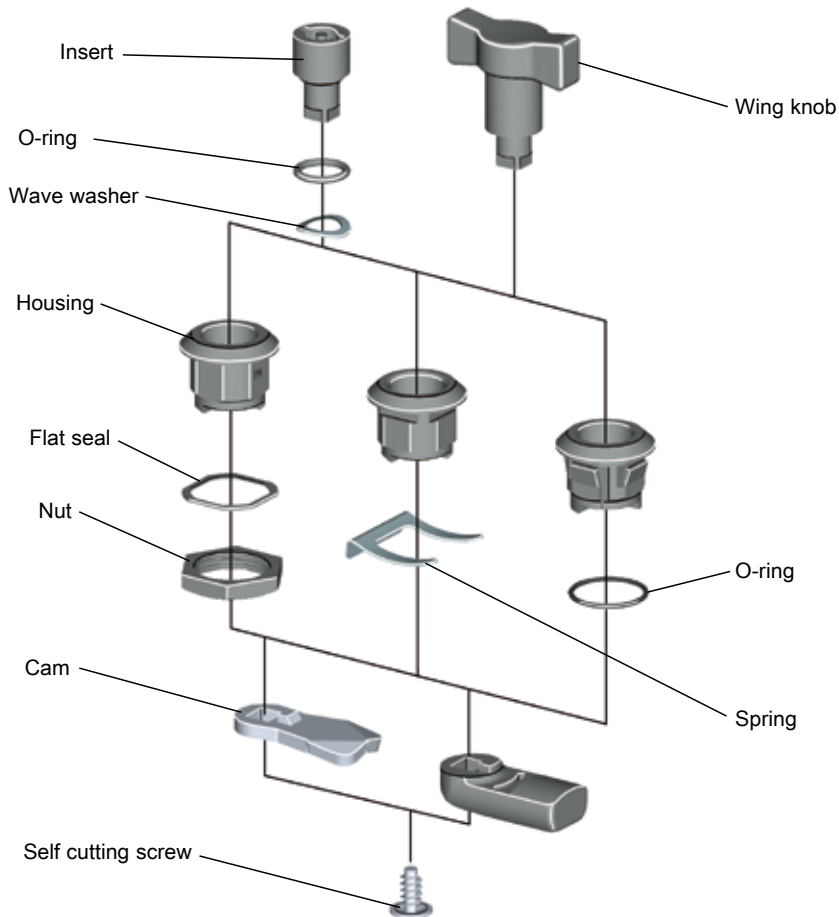
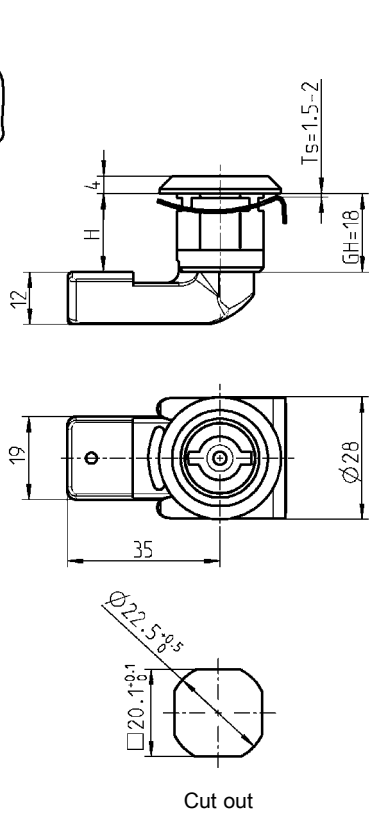
- Housing	1B-760 1B-680 1B-820
- Quarter turn with stepped cam	1B-240
- cam with catch	1C-120 up to 1C-180
- Accessories	from 1C-170
- Insert with wing knob	1B-720
- Escutcheon	3B-140
- Door lock prominent	12A-220
- Key	12B-120

Plastic quarter turn PROGRAM 1000

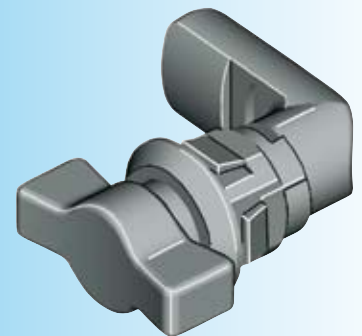
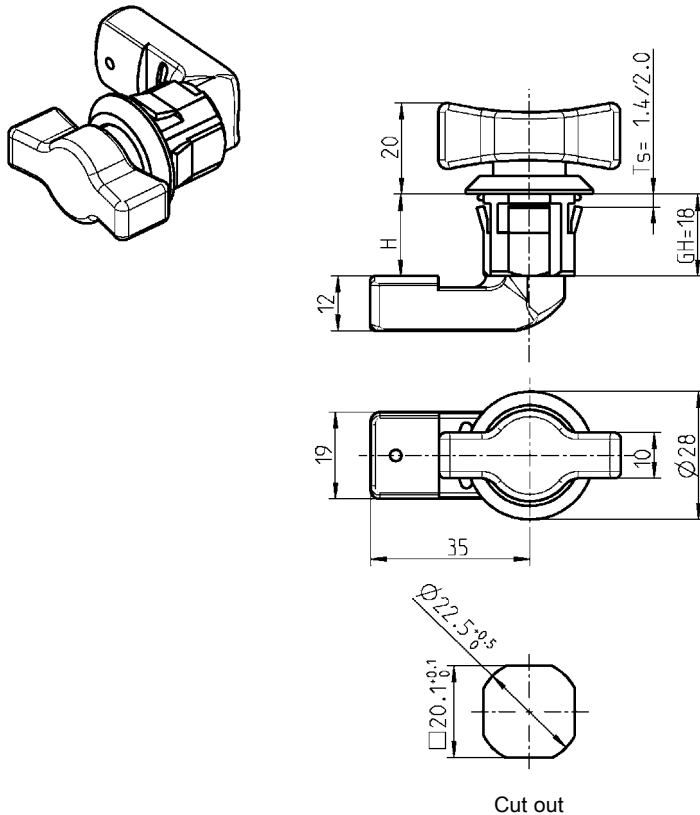
Nut fixing



Spring fixing



Clip-in fixing



Housing polyamide GF black with nut or spring fixing AISI 301

Housing polyamide black with O-ring

*nut fixing	Spring fixing	Ts	clip-in
1000-U675	1000-U709	1,4**	1000-U695
		2,0	1000-U696

Insert polyamide black, wave washer and self cutting screw m.s. zinc plated

Square 7	1000-U666
Square 8	1000-U676
Triangular 8	1000-U667
Double bit 3	1000-U677
Double bit 5	1000-U678
Slot 2 x 4	1000-U679
Eastern Europe Ø 13	1000-U680
Wing knob insert (IP 50) IP 65 on request	1000-U711

Cam on choice

H	m.s. zinc plate, t=4	polyamide black
18	1000-5046	1000-386-18
20	1000-5161	1000-386-20
22	1000-5119	1000-386-22
24	-	1000-386-24
28	1000-5164	1000-386-28
30	-	1000-386-30

IP 65 (see housing) with:

Flat seal (nut fixing only)	1000-23
O-ring	1000-24

Note:

Quarter turn assembling 1B-105

Further parts see page

- Insert with wing knob 1B-720
- Handle (only nut fixing) 1C-320
- Dust cap (only nut fixing) 1C-320
- Key 12B-120

Quarter turn for quick mounting PROGRAM 1000



Quarter turn with cam polyamide



Quarter turn with cam
m. s. zinc-plated

Assembly note:

Assembly door stop on the right:
Pre-mounted insert part is
inserted in the cut out when
closed. Then fixed with
snap-in pin.

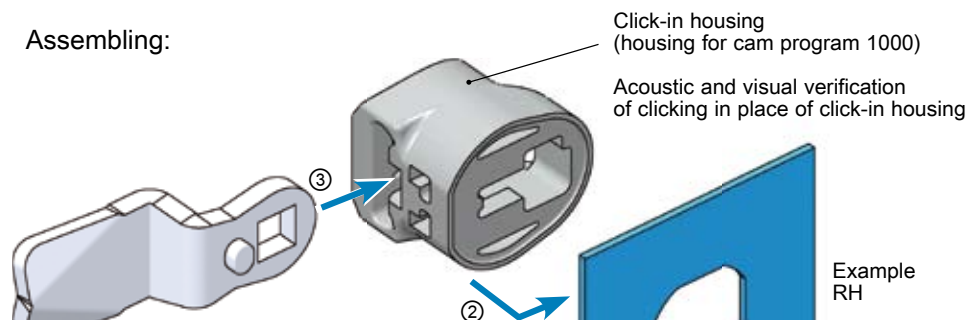
Assembly door stop on the left:
Pre-mounted insert part is
inserted in the cut out when
opened. Then fixed with
snap-in pin.

Other door thickness on request!

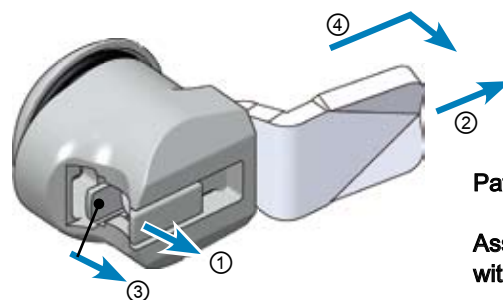
Further parts see page

– Cam (type 1;
GH=18) 1C-120
– Key 12B-120

Assembling:

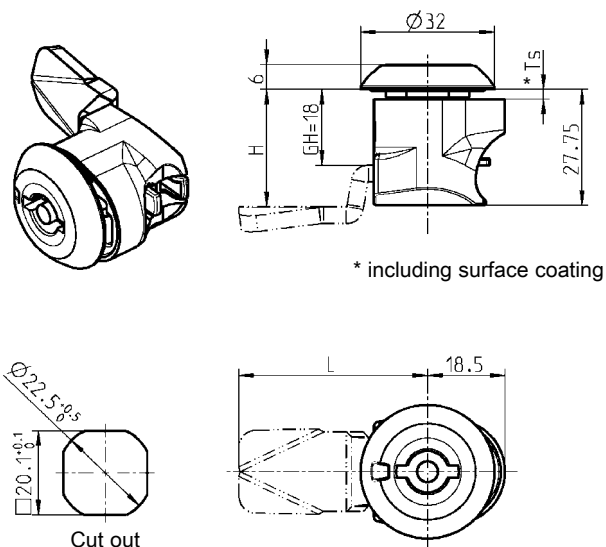


Disassembly:



Product benefits

- cost savings due to toolless assembly and disassembly within seconds
- alternatively available with polyamide or steel cam
- suitable for many standard cams
- closing force with cam of steel matches EMKA standard quarter-turn of zinc die cast
- smooth operation (no internal rotation due to design)
- self-sealing construction for highest protection requirements (design immanent)
- increased safeguarding against overwinding
- standard cutout
- patented



Insert part polyamide GF black; with seal

Square 7	1000-U883
Square 8	on request
Triangular 8	on request
Double bit 3	on request
Double bit 5	1000-U873
Slot 1,5 x 3	on request

Click-in housing polyamide GF black for cam program 1000

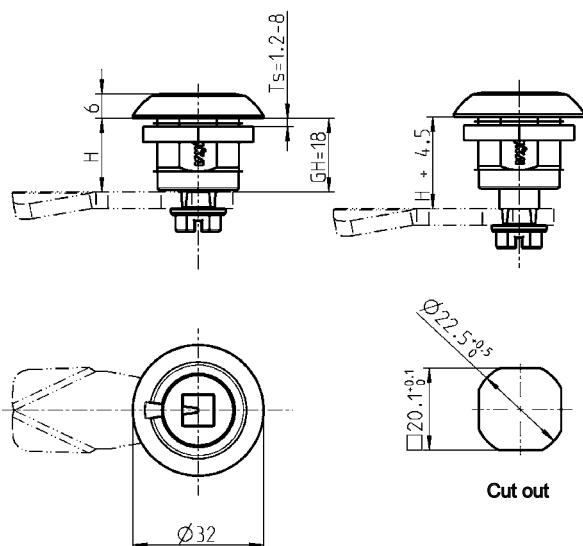
Ts = 0,5 - 1,0 including surface coating	1000-551-02
Ts = 1,0 - 1,5 including surface coating	1000-551-01
Ts = 1,5 - 2,0 including surface coating	1000-551

Compression latch

PROGRAM 1000

Vibration proof

These latches are designed to be vibration resistant with a distinct "over-center" action. There may be some cases of extreme vibration where this detent is overcome. Therefore we recommend rigorous testing.



for stainless steel version

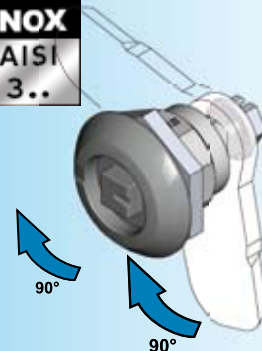
Product benefits

- compact design
- compatible with other quarter-turns with GH = 18 mm
- fire protection acc. to DIN EN 45545-2 with E20
- short housing GH = 18 mm
- foamed sealing
- standard cutout

Housing and insert material acc. to customer's specifications, nut and screw m. s. zinc plated or stainless steel, with spring and seal

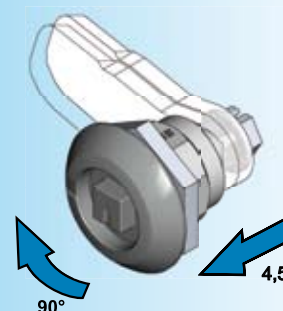
	Zinc die black powder coated	Zinc die chrome plated	AISI 316
Square 6	on request	on request	on request
Square 7	on request	1000-U859-IA	1000-U859-PH
Square 8	1000-U852	1000-U852-IA	1000-U852-PH
Triangular 6,5 CNOMO	on request	on request	on request
Triangular 7	on request	1000-U864-IA	1000-U864-PH
Triangular 8	1000-U853	on request	1000-U853-PH
Triangular 9	on request	on request	on request
Triangular 10	on request	on request	on request
Double bit 3	1000-U854	on request	1000-U854-PH
Double bit 5	1000-U855	on request	1000-U855-PH
Male hexagon 11mm with indicator	on request	on request	on request
Hexagon female 8mm	on request	on request	on request
Hexagon female 8mm with pin	on request	on request	on request
Hexagon female 10mm	on request	on request	on request
Square female 6	on request	on request	on request
Square female 7	on request	on request	on request
Square female 8	on request	on request	on request
Daimler Benz	on request	on request	on request
Slot 1,2 x 3	on request	on request	on request
Slot 2 x 4	on request	on request	on request
Slot 2 x 4 coinproof	on request	on request	on request
Crown type	on request	on request	on request
Railway	1000-U856	on request	1000-U856-PH
Tube with indicator	on request	on request	on request

Beschlagteile



Open condition

The first 90° of rotation of the insert also turns the cam 90°.



Closed position

The second 90° of rotation of the insert draws the cam toward the door 4.5 mm axially.

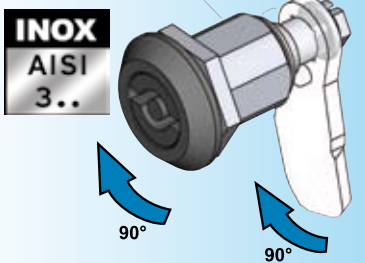


Compressed condition

Unlock:
Reversed rotation

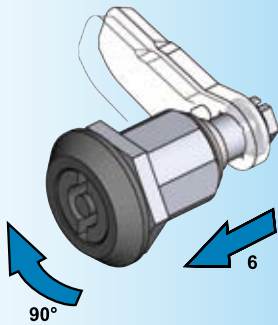
Further parts see page

- Cam without catch from 1C-120
- (not for cam with rod control)
- Accessories from 1C-320
- Escutcheon 3B-140
- Key 12B-120



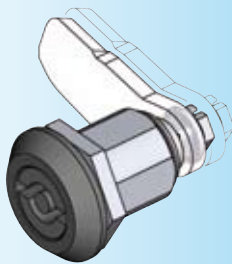
Open condition

The first 90° of rotation of the insert also turns the cam 90°.



Closed position

The second 90° of rotation of the insert draws the cam toward the door 6 mm axially.



Compressed condition

Unlock:
Reversed rotation

Further parts see page

- Cam with or without catch from 1C-120
- (not for cam with rod control)
- Accessories from 1C-320
- Escutcheon 3B-140
- Key 12B-120

Compression latch PROGRAM 1000

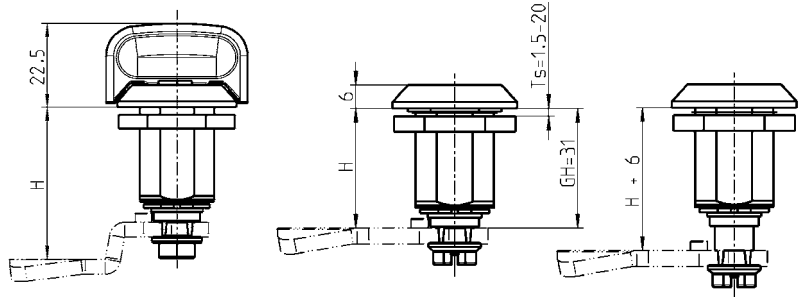


Vibration proof

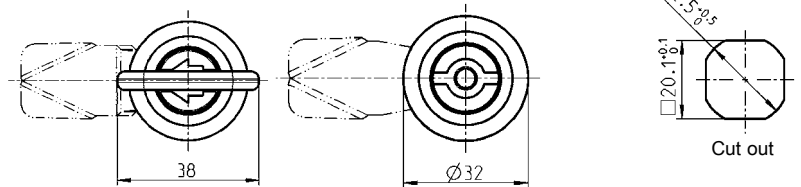
The compression latch is of a vibration-proof design.
Depending on the installation location and operational conditions specific checks are necessary and/or supplementary measures of fastening required.



for stainless steel version



Housing with indicator on request



Housing and insert zinc die black p.c. or AISI 316,
shaft and nut m.s. zinc plated, with spring and gasket

	Zinc die black powder coated	AISI 316
Square 6 with arrow	on request	on request
Square 7 with arrow	1000-U796	on request
Square 8 with arrow head	1000-U798	on request
Square 8 with indicator	on request	1000-U755-01
Triangular 6,5 CNOMO	on request	on request
Triangular 7	1000-U795	on request
Triangular 8	1000-U783	on request
Triangular 9	on request	on request
Triangular 10	on request	on request
Double bit 3	1000-U749	1000-U749-01
Double bit 5	1000-U748	1000-U748-01
Male hexagon 11mm with indicator	on request	on request
Hexagon female 8mm	1000-U807	on request
Hexagon female 8mm with pin	1000-U805	on request
Hexagon female 10mm	1000-U809	on request
Square female 6mm	on request	on request
Square female 7	on request	on request
Square female 8	1000-U811	on request
Daimler Benz	on request	on request
Slot 1,2 x 3	on request	on request
Slot 2 x 4	1000-U777	1000-U777-01
Slot 2 x 4 coinproof	on request	on request
Crown type	on request	on request
Railway	1000-U831	1000-U831-01
Tube with indicator	on request	on request
Wing knob	1000-U882	on request

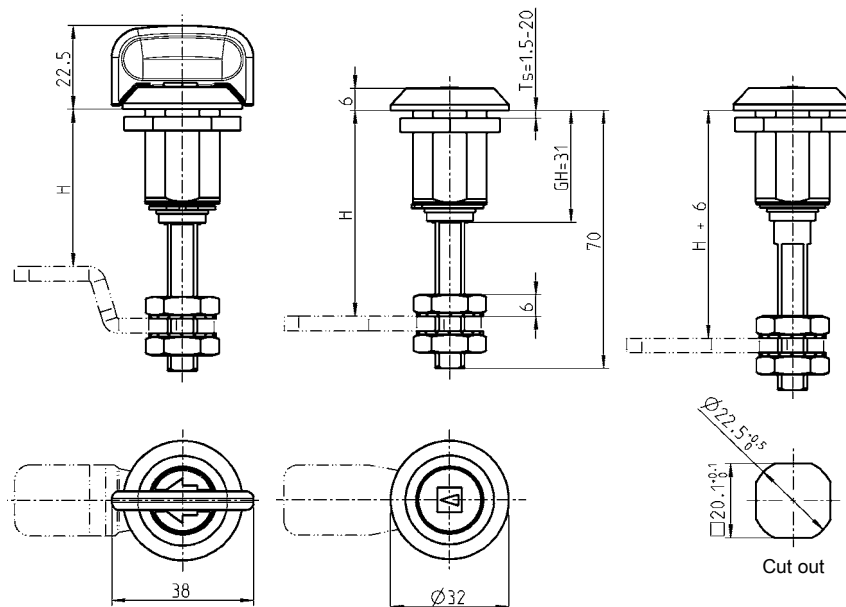
Compression latch with adjustable cam

PROGRAM 1000

Vibration proof

The compression latch is of a vibration-proof design.

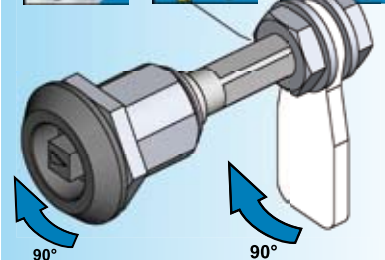
Depending on the installation location and operational conditions specific checks are necessary and/or supplementary measures of fastening required.



Housing and insert zinc die black p.c.; shaft zinc die or m.s. zinc plated; nut and washer m.s. zinc plated, with spring and gasket

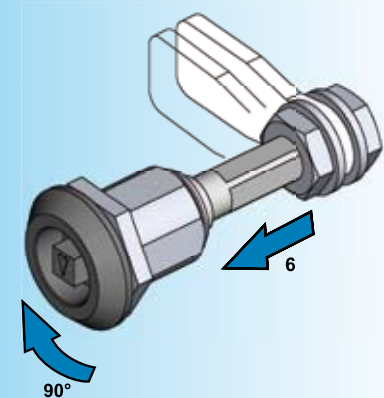
	shaft zinc die	shaft m.s. zinc plated
Square 6 with arrow	on request	on request
Square 7 with arrow	1000-U786	1000-SU720
Square 8mm with arrow	1000-U799	1000-SU861
Triangular 6,5 CNOMO	on request	on request
Triangular 7	1000-U794	1000-SU724
Triangular 8	1000-U802	1000-SU725
Triangular 9	on request	on request
Triangular 10	on request	on request
Double bit 3	1000-U803	1000-SU730
Double bit 5	1000-U804	1000-SU752
Male hexagon 11mm with indicator	1000-U816	1000-SU324
Hexagon female 8mm	1000-U808	1000-SU735
Hexagon female 8mm with pin	on request	1000-SU733
Hexagon female 10mm	on request	on request
Square female 6mm	on request	on request
Square female 7	on request	on request
Square female 8	1000-U812	on request
Daimler Benz	on request	on request
Slot 1,2 x 3	on request	on request
Slot 2 x 4	1000-U813	on request
Slot 2 x 4 coinproof	on request	on request
Crown type	on request	on request
Railway	on request	on request
Tube with indicator	1000-U830	1000-SU736
Wing knob	1000-U880	on request

Beschlagteile



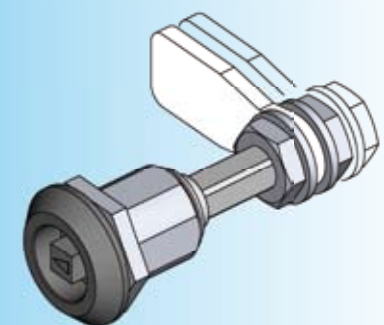
Open condition

The first 90° of rotation of the insert also turns the cam 90°.



Closed position

The second 90° of rotation of the insert draws the cam toward the door 6 mm axially.



Compressed condition

Unlock:
Reversed rotation

Note:

Only cams without a stopper can be used.

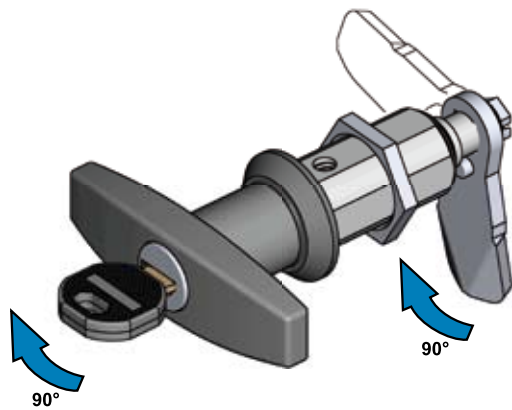
Further parts see page

– Stainless steel version	8A-232
– Cam (GH = 31)	1C-137
– Accessories	from 1C-320
– Escutcheon	3B-140
– Key	12B-120

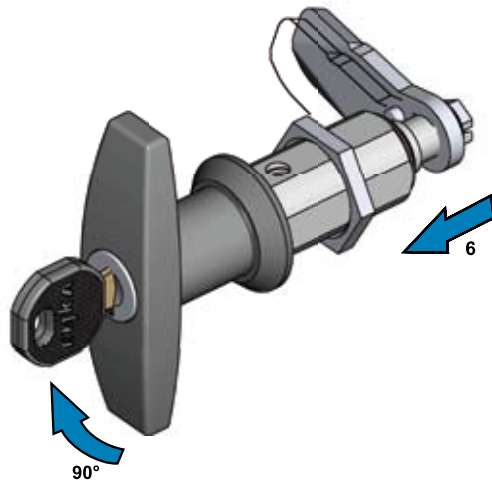
Compression latch with handle and fixed or adjustable cam height

PROGRAM 1000

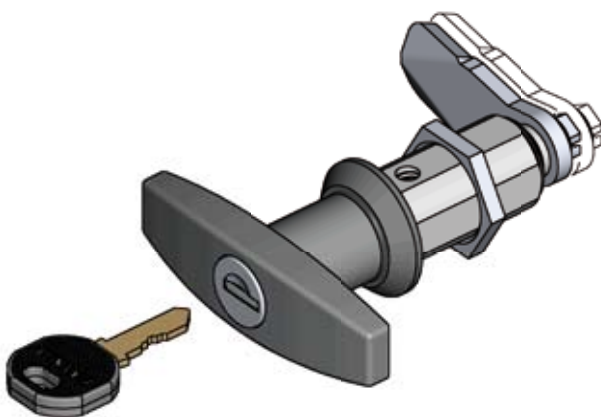
Compression T handle



Open condition
The first 90° of rotation of the handle turns the cam 90°.



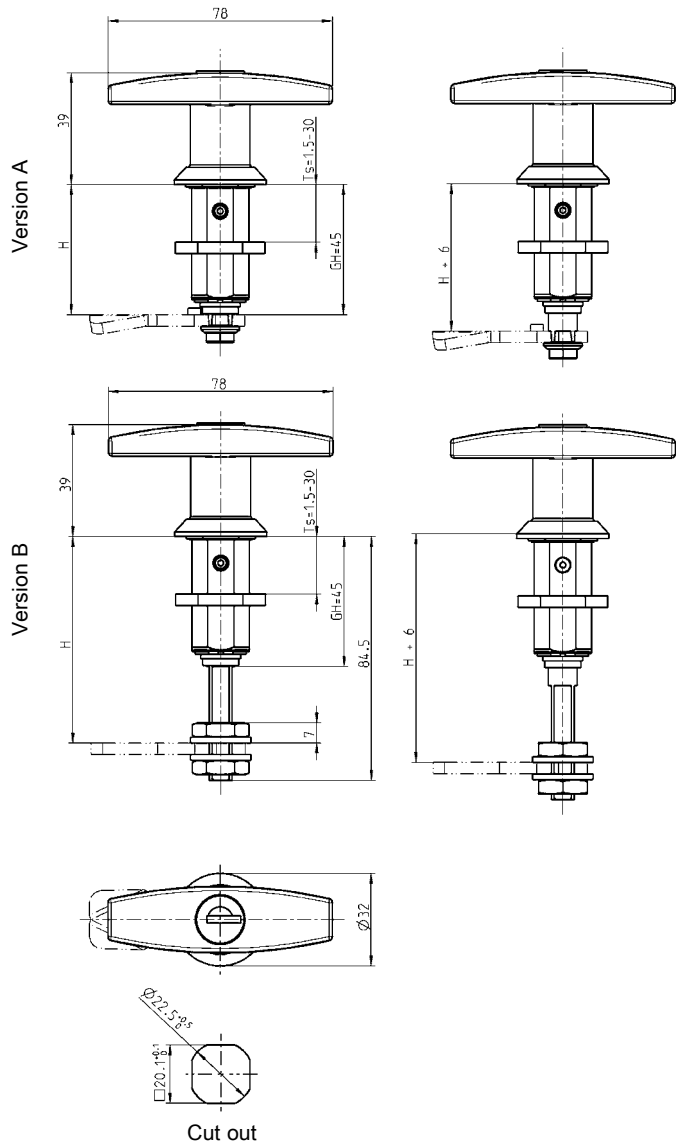
Closed position
The second 90° of rotation draws the cam 6mm axially towards the door.



Compressed condition
Key removable

Unlock:
Reversed rotation

Compression latch with T-handle



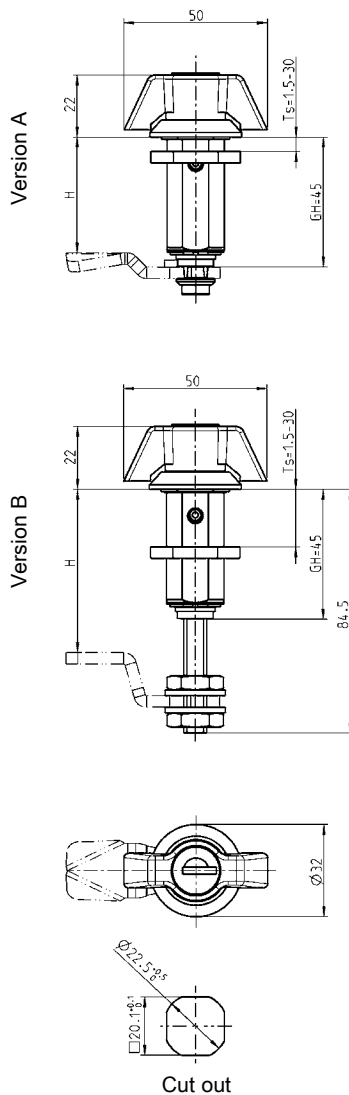
Note:

For version B only cams without catch can be used!

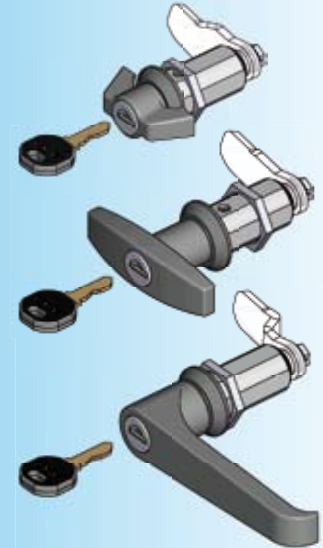
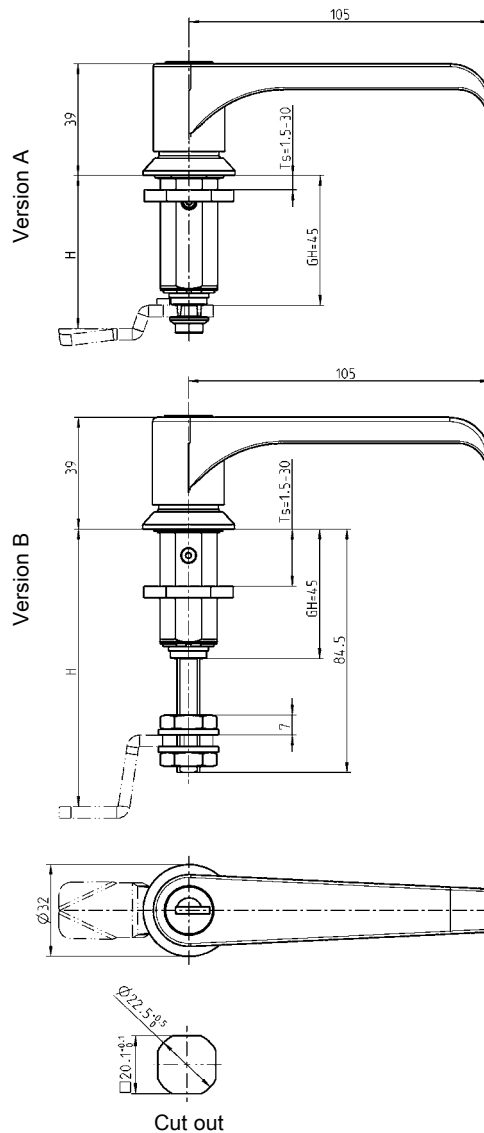
Vibration proof

The compression latch is of a vibration-proof design. Depending on the installation location and operational conditions specific checks are necessary and/or supplementary measures of fastening required.

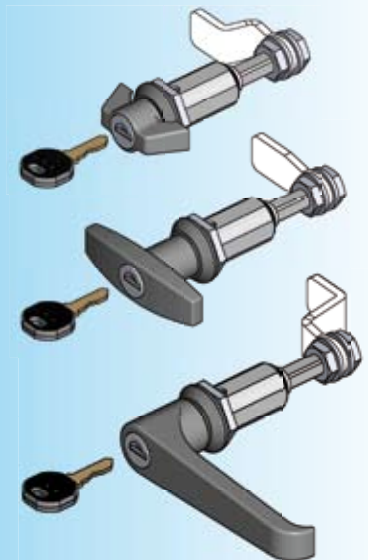
Compression Wing knob



compression L handle



Stainless steel version on request.

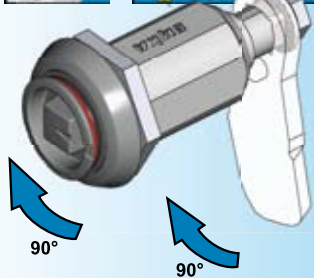


Handle and housing zinc die, black powder coated;
cylinder zinc die, with stainless steel cap and shutter;
nut and screw or washer zinc plated m.s.; with spring and seal
Each cylinder has one silver steel key with polyamid grip.
Key removable in both positions.

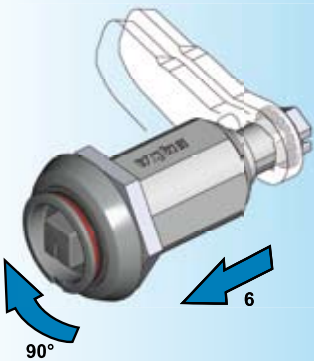
Version A: captive cam level	non locking	keyed EK 333	keyed different
Wing knob	1000-U826	1000-U827	1000-U828
T-Handle	1000-U820	1000-U821	1000-U822
L-Handle	1000-U823	1000-U824	1000-U825
Version B: for adjustable cam level			
Wing knob	1000-U790	1000-U789	1000-U791
T-Handle	1000-U785	1000-U784	1000-U792
L-Handle	1000-U788	1000-U787	1000-U793

Further parts see page
for fixed cam height
– Cam with or without catch from 1C-120
(not for cam with rod control)
for adjustable cam level
– Cam (GH = 45) 1C-137

for both versions
– Dust cap for T-Handle 1C-340
– Spare key 12B-140



Open condition
By turning the insert by 90° the cam is turned.



Closed position
The second 90° of rotation of the insert draws the cam toward the door 6 mm axially.



Compressed condition

Unlock:
Reversed rotation

Further parts see page
– Cam with or without catch from 1C-120

(not for cam with rod control)
– Accessories from 1C-320
– Escutcheon 3B-140
– Key 12B-120

® Compression latch with optical opening indicator

PROGRAM 1000

Vibration proof

The compression latch is vibration-proof as such. Depending on the installation location and the operating conditions specific checks are required and/or fastening measures necessary.

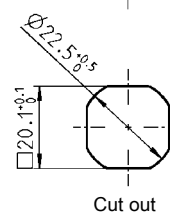
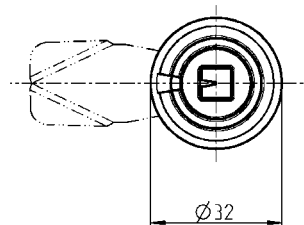
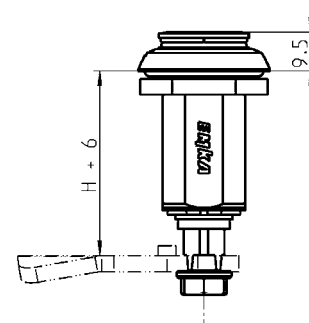
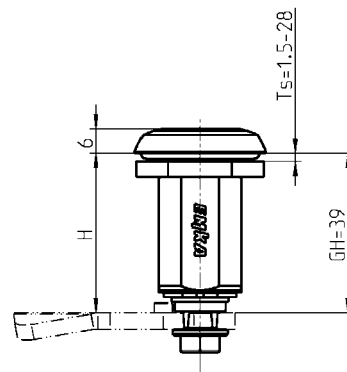
When the compression latch is used in combination with the dust cap (page 1C-330), another security aspect is added:

Additionally to the red ring being visible, the dust cap can not be locked.

Compressed condition



Open condition



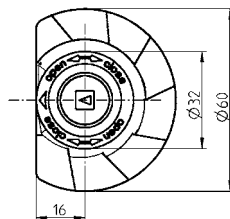
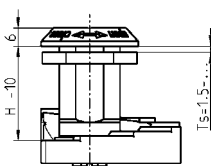
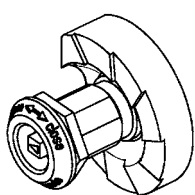
Housing and insert zinc die black powder coated, signal ring red, nut and screw m.s. zinc plated, with spring and seal

Square 8	1000-U846
National railway	1000-U848

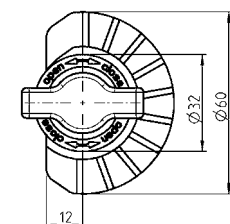
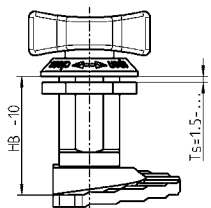
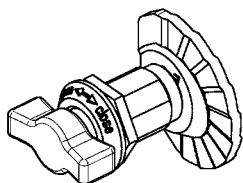
Quarter turn with stepped cam

PROGRAM 1000

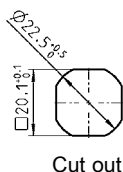
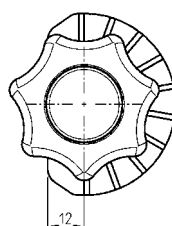
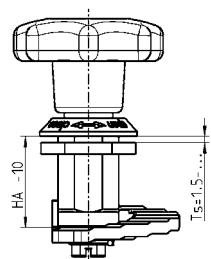
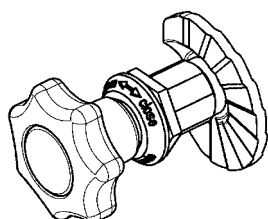
Version A



Version B



Version B



Cut out

Stepped cam

Version A	zinc plated m.s., no stop	1000-127
	zinc plated m.s., with stop	10 00-244
Version B	zinc alloy, with stop	1000-387

Housing zinc die surface as requested; nut m.s. zinc plated

Ts	H	HA	HB	Zinc alloy housing		with zinc adapter (Flush mounted insert)	Spacer, zinc alloy for 5 mm tolerance and screw zinc plated
				Chrome plated	black powder coated		
1,5 –							
8	19	19	27	1000-U157	1000-U231	no need	1000-U539
20	31	31	39	1000-U158	1000-U232	1000-U164	1000-U540
26	37	37	45	1000-U247	1000-U250	1000-U198	1000-U541
30	41	41	49	1000-U159	1000-U233	1000-U165	1000-U542
40	51	51	59	1000-U160	1000-U234	1000-U166	1000-U543

Beschlagteile



Housing with 270° stop

Advice:
Quarter turn-Assembling 1B-105

Further parts see page
 – Insert 1B-140
 – IP 65 or IP 66 1B-140
 – Accessories from 1C-320
 – Escutcheon 3B-140
 – Key 12B-120



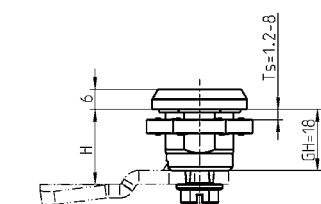
Beschlagteile

Notes:

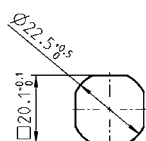
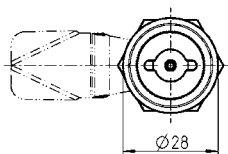
Lined area for notes, consisting of 30 horizontal lines.

Safety quarter turn

PROGRAM 1000

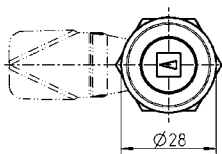
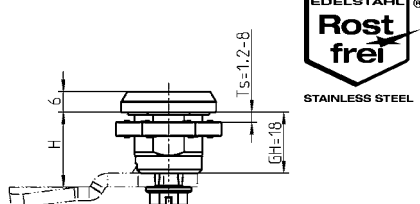


Right-hand version



Cut out

This lock is of a vibration-proof design. This depends on the installation location and operational conditions. Specific checks are necessary and/or supplementary measures of fastening may be required.



for version stainless steel



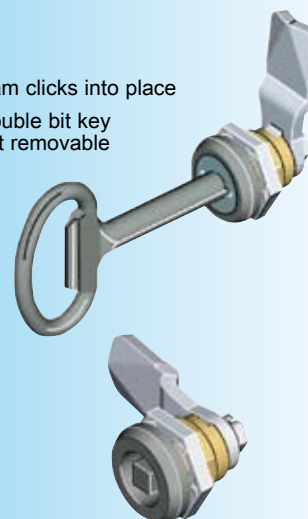
Beschlagteile



By pressing down the insert, the cam can be turned



Cam clicks into place
Double bit key
not removable



Housing brass, insert zinc die, nut and earthnut m.s. zinc plated, with seal	black powder coated		chrome plated	
	without Dust cap	with Dust cap	without Dust cap	with Dust cap
Double bit 3 mm RH version	1000-U252-01	1000-U687	1000-U202-01	1000-U691
Double bit 3 mm LH version	1000-U254-01	1000-U688	1000-U204-01	1000-U692
Double bit 5 mm RH version	1000-U256-01	1000-U689	1000-U206-01	1000-U693
Double bit 5 mm LH version	1000-U258-01	1000-U690	1000-U208-01	1000-U694
Square 6 mm RH/LH version	1000-U260-01	–	1000-U210-01	–
Square 7 mm RH/LH version	1000-U262-01	–	1000-U212-01	–
Square 8 mm RH/LH version	1000-U264-01	–	1000-U214-01	–
Triangular 7 mm RH/LH version	1000-U266-01	–	1000-U216-01	–
Triangular 8 mm RH/LH version	1000-U268-01	–	1000-U218-01	–
Slot 2x4 mm RH/LH version	1000-U652-01	–	1000-U655-01	–
Eastern Europe Ø 13 halfround, 90° and 180° stop, RH/LH version	1000-U713-01	–	–	–
Railroad, insert AISI 303 RH/LH	1000-U732-01	–	1000-U733-01	–
Housing with insert, screw and nut AISI 303, with seal	without Dust cap		with Dust cap	
Double bit 3 mm RH version	1000-U714-01	1000-U725	1000-U714-01	1000-U725
Double bit 3 mm LH version	1000-U715-01	1000-U726	1000-U715-01	1000-U726
Double bit 5 mm RH version	1000-U716-01	1000-U727	1000-U716-01	1000-U727
Double bit 5 mm LH version	1000-U717-01	1000-U728	1000-U717-01	1000-U728
Square 6 mm RH/LH version	1000-U718-01	–	1000-U718-01	–
Square 7 mm RH/LH version	1000-U719-01	–	1000-U719-01	–
Square 8 mm RH/LH version	1000-U720-01	–	1000-U720-01	–
Triangular 7 mm RH/LH version	1000-U721-01	–	1000-U721-01	–
Triangular 8 version right/left	1000-U722-01	–	1000-U722-01	–
Slot 2x4 mm RH/LH version	1000-U723-01	–	1000-U723-01	–
Eastern Europe Ø 13 halfround, 90° and 180° stop, RH/LH version	1000-U724-01	–	1000-U724-01	–
Railroad RH/LH	1000-U710-01	–	1000-U710-01	–
Ø 8,6 with slot RH/LH	1000-U712-01	–	1000-U712-01	–

Safety quarter turn

Tamper and vibration-proof. With the double bit version the key is captive in the open position.

Hole for the double bit to DIN 43668.

Sealed against water and dust according to IP 65 DIN 40050.

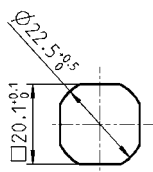
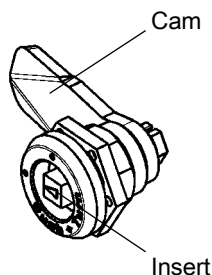
Available with pre-assembled cam.

Further parts see page

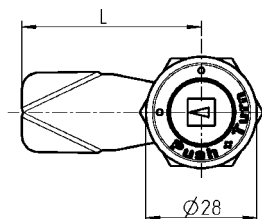
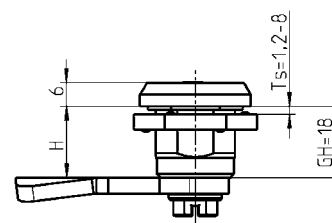
– cam with catch	1C-120
Accessories (not for cam with rod control)	1C-320
– Escutcheon	1C-360
– Key	1C-380
	3B-140
	12B-120



with stainless steel version



Cut out



Press down insert and turn!

Safety quarter turn:
This lock is of a vibration proof design. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.

Note:
The H-dimension will be reduced by 2 mm when used with finger pull (see page 1C-320)

Further parts see page

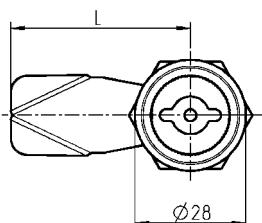
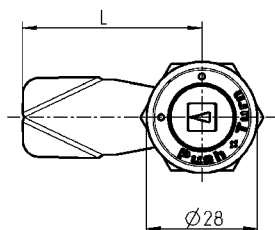
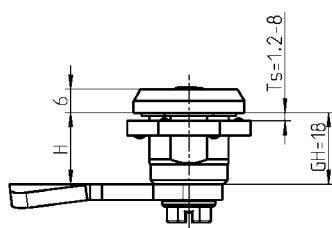
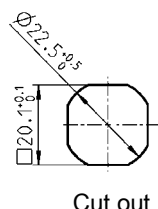
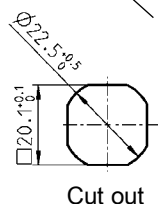
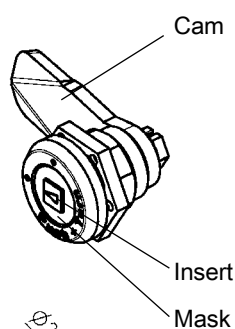
- Cam without catch 1C-120
- Accessories 1C-320
- Key up to 1C-380
- Key 12B-120

Housing and insert material on choice, mask zinc die raw, screw and earthnut m.s. zinc plated and/or screw and nut stainless steel, with spring and seal

	zinc die chrome pl.	AISI 316
Square 6	on request	1000-U817-01PH
Square 7	1000-U817-02IA	on request
Square 8	1000-U817-03IA	1000-U817-03PH
Square 8 slotted	on request	on request
Triangular 6,5 CNOMO	on request	on request
Triangular 7	1000-U817-04IA	on request
Triangular 8	1000-U817-05IA	1000-U817-05PH
Triangular 9	on request	on request
Triangular 10	on request	1000-U817-07PH
Double bit 3	on request	on request
Double bit 5	on request	on request
Hexagon female 8mm	on request	1000-U817-24PH
Hexagon female 10mm	on request	on request
Square female 6mm	on request	on request
Square female 7	on request	on request
Square female 8	on request	on request
Daimler Benz	on request	on request
Slot 1,2 x 3	1000-U817-16IA	on request
Slot 2 x 4	1000-U817-17IA	on request
Slot 2 x 4 coinproof	on request	on request
Crown type	on request	on request
Eastern Europe Ø 13	on request	on request
Hexagon female 8mm with pin	on request	on request
Railway version	1000-U817-23IA	on request

Safety quarter turn with mask

PROGRAM 1000



with stainless steel version

Beschlagteile



Insert square or triangular



Insert double bit

Press down insert turn quarter turn!

Housing and insert material on choice, mask zinc die raw, screw and earthnut m.s. zinc plated and/or screw and nut stainless steel, with spring and seal

	zinc die chrome pl.	AISI 316
Square female 6mm	on request	on request
Square female 7mm	1000-U818-02IA	on request
Square female 8mm	1000-U818-03IA	on request
Square female 8mm slotted	on request	on request
Triangular 6,5 CNOMO	on request	on request
Triangular 7	1000-U818-04IA	on request
Triangular 8	1000-U818-05IA	on request
Triangular 9	on request	on request
Triangular 10	on request	on request

Housing and insert material on choice, mask zinc die raw, screw and earthnut m.s. zinc plated and/or screw and nut stainless steel, with spring and seal

	zinc die chrome pl.	AISI 316
Double bit 3 mm RH version	1000-U819-01IA	on request
Double bit 3 mm LH version	1000-U819-03IA	on request
Double bit 5 mm RH version	1000-U819-02IA	on request
Double bit 5 mm LH version	1000-U819-04IA	on request

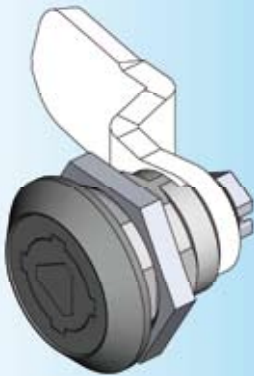
Safety quarter turn:
This lock is of a vibration proof design. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.

Version double bit: Key only removable in locked position

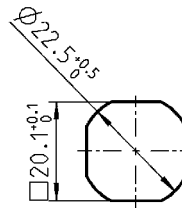
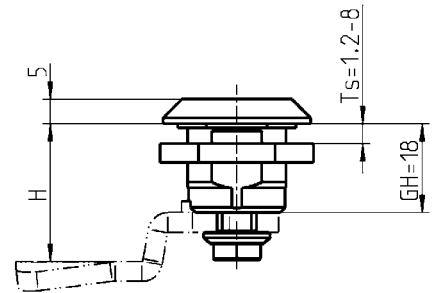
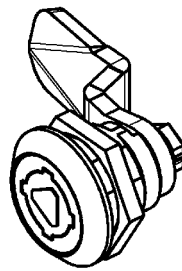
Keyhole for double bit according to key DIN 43668.

Note:
The H-dimension will be reduced by 2 mm when used with finger pull (see page 1C-320)

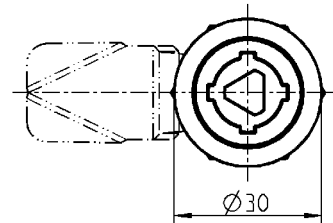
Further parts see page
 – Cam without catch 1C-120
 – Accessories 1C-320
 up to 1C-380
 – Key 12B-120



**Press mask back
and
turn insert!**



Cut out



Safety quarter turn:
This lock is of a vibration proof design. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.

The H-dimension will be reduced by 2 mm when used with finger pull (see page 1C-320)

Further parts see page

- cam with catch 1C-120
- Accessories 1C-160
- Key up to 1C-380
- Key 12B-120

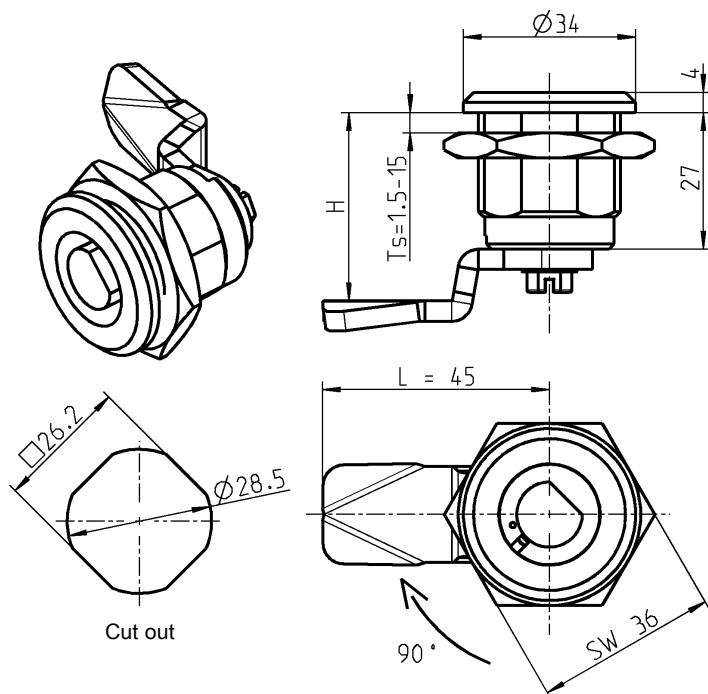
**Quarter turn zinc die black powder coated, screw and earthnut m.s. zinc plated, with seal
Key removable in both positions.**

Triangular 8 mm RH/LH version

1000-U835

Safety quarter turn Eastern Europe half-round PROGRAM 1000

Beschlagteile



Attention:

Cut-out differs from standard

The spring loaded insert in the direction of arrow (type: Eastern Europe – Ø 13) can only be operated with a special key. Key only removable in the closed position.



Housing zinc die or polyamie; insert zinc die zinc plated; nut and Fixing material m.s. zinc plated

Zinc die black powder coated 1000-U746-01

Polyamide black 1000-U747

Key zinc die, raw

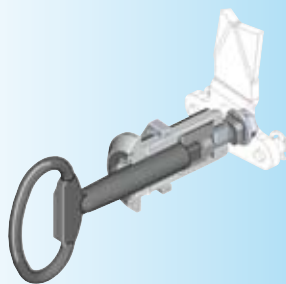
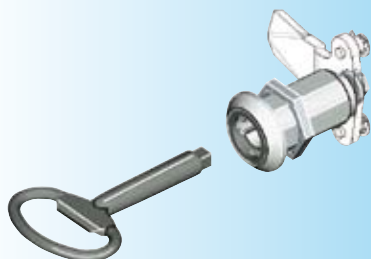
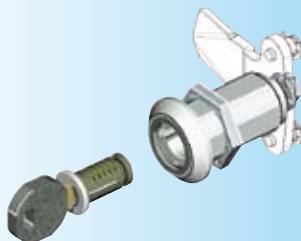
1004-45

Cam m.s. zinc plated

Dim.H in mm	Part-No.:	Dim.H in mm	Part-No.:
13	1000-112	29	1000-16
15	1000-22	31	1000-15
17	1000-113	33	1000-14
19	1000-21	34	1000-27
22	1000-20	35	1000-50
23	1000-19	37	1000-13
25	1000-18	39	1000-28
27	1000-17		

Further cams on request

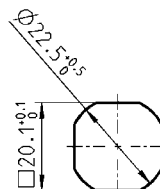
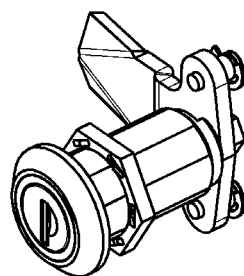
Application area:
Electric power companies
in Eastern Europe



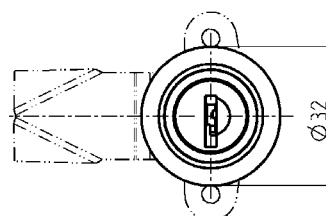
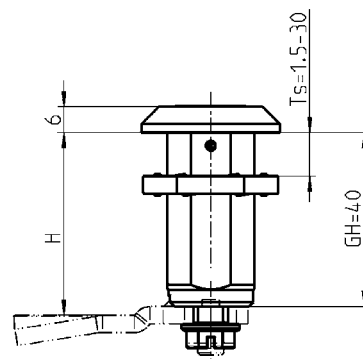
Combination of quarter turn and cylinder for 1- and 3-point latch system.

Note:
IP 65 and IP 66 only available factory pre-assembled

Further parts see page
– cam with catch up to 1C-120
– Accessories from 1C-170
– Escutcheon 3B-140
– Spare key 12B-140



Cut out



Safety quarter turn:

Removable cylinder, covered square insert, enables higher torque with square key.

Safety quarter turn housing zinc die black powder coated, cylinder with stainless steel cap and shutter, insert square female 6mm zinc die chrome plated, earthnut and fixing material m.s. zinc plated
Each cylinder has one silver steel key with polyamide GF grip black.

keyed EK 333	1048-U22
keyed different	1048-U23
Key square 6 mm male	1004-29-01

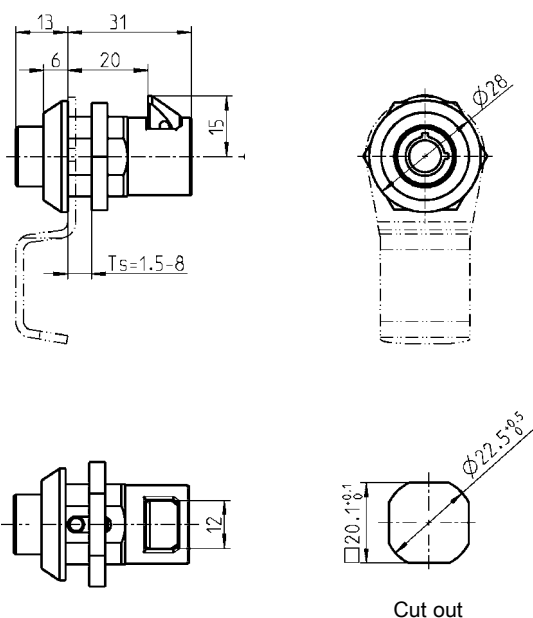
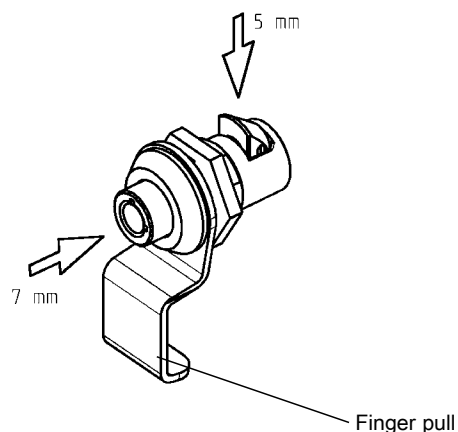
IP 65 with:

Flat seal	1000-23
O-ring	1000-24

IP 66 with:

Seal-set	1000-U769
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Radial pin-push cylinder PROGRAM 1000



Radial pin-push cylinder:

By turning the key 90° the push button is unlocked and can be operated.

The key is removable in both positions.

Application area:
Computer housings for
German Railroad Company

Attention:
In case of using a finger pull the dimension will be changed from 20 to 18 mm and TS max will be 6 mm

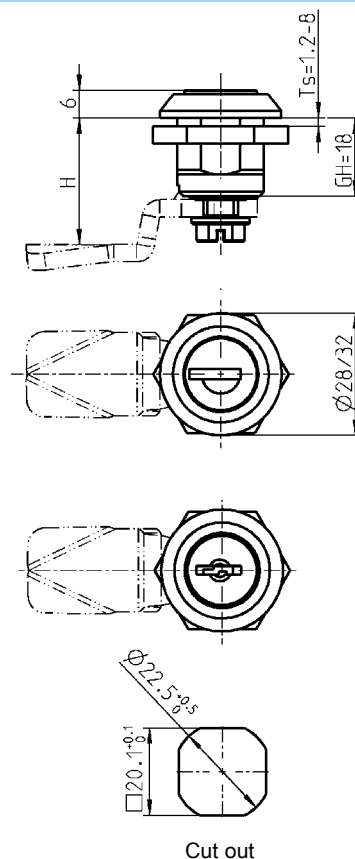
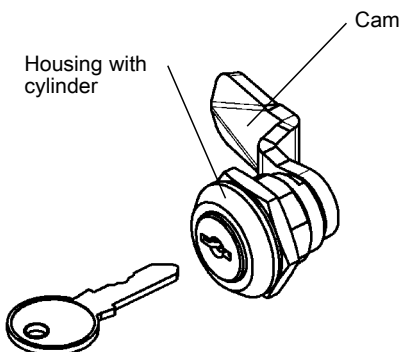
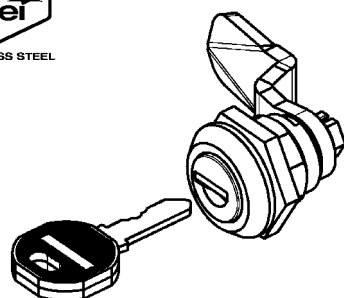
Housing zinc die, pin cylinder brass/zinc die nickel plated,
locking bolt zinc die plated, nut m.s. zinc plated

	chrome plated	black powder coated
keyed 20001	1000-U742	1000-U751
keyed different	1000-U743	1000-U752

Further parts see page
– Finger pull 1C-320
– Escutcheon 3B-140



Quarter turn with cylinder PROGRAM 1000



Cylinder-tumbuckle housing zinc die-cast zinc surface with your choice of round cylinder die-cast zinc, stainless steel dust cover and slide, screw and nut ms. Each cylinder has one silver steel key with polyamide GF grip black.

	Nut chrome plated	Earthnut	Nut black powder coated	Earthnut
D = 28 mm				
keyed EK 333	1048-U6	1048-U8	1048-U14	1048-U16
keyed different	1048-U7	1048-U9	1048-U15	1048-U17
D = 32 mm				
keyed EK 333	1048-U1	1048-U3	1048-U10	1048-U12
keyed different	1048-U2	1048-U4	1048-U11	1048-U13

Quarter turn with cylinder AISI 316, round cylinder, screw and serrated lock washer stainless steel.

Each cylinder has one silver steel key with polyamide GF grip black.

keyed EK 333 ; D = 28 mm	1048-U6-PH	–
keyed different ; D = 28 mm	1048-U7-PH	–

Quarter turn with cylinder, housing with cylinder polyamide GF black.

Screw m.s. zinc plated, nut m.s. zinc plated or polyamide black.

Each cylinder has one m.s. nickel plated key.

	Nut Nut m.s. zinc plated	Earthnut	Nut Nut polyamide black	Earthnut
D = 28 mm				
keyed EK 333	1048-U18	–	1048-U27	–
keyed different	1048-U19	–	1048-U28	–
D = 32 mm				
keyed EK 333	1048-U20	–	1048-U25	–
keyed different	1048-U21	–	1048-U26	–

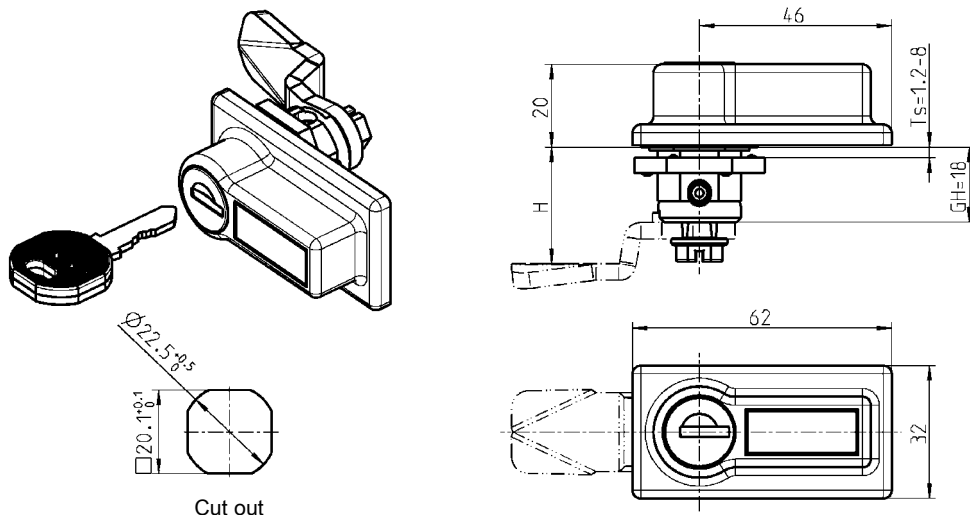
Key removable in both positions

Further parts see page

- cam with catch from 1C-120
- (not for cam with rod control) 1C-160
- Slam cam 1C-180
- Accessories 1C-320
- 1C-360
- 1C-380
- Escutcheon 3B-140
- Spare key 12B-140

Panel handle quarter turn, T-handle quarter turn, small PROGRAM 1000

Cylinder locking handle (quarterturn)

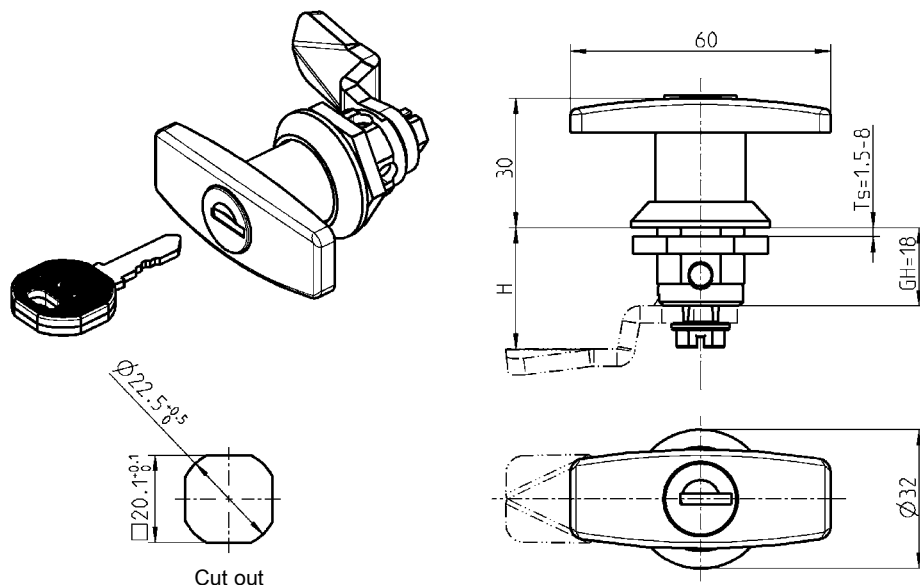


Handle polyamide GF black, housing black powder coated zinc die, round cylinder zinc die with stainless steel cap and shutter, nut, earthnut and fixing material ms zinc die, with seal. Each cylinder has one silver steel key with polyamid grip.

Key removable in both positions.

	Nut	Earthnut
keyed EK 333	–	1000-U844
keyed different	–	1000-U845

T-Handle, compact

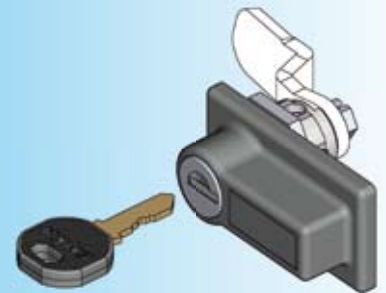


Handle polyamide black, housing black powder coated zinc die, round cylinder zinc die with stainless steel cap and shutter, nut, earthnut and fixing material ms zinc round cylinder, with seal.

Each cylinder has one silver steel key with polyamide GF grip black.

Key removable in both positions.

	Nut	Earthnut
non locking	1000-U775	1000-U775-01
* Keyed EK 333	1000-U773	1000-U773-01
* Keyed different	1000-U774	1000-U774-01



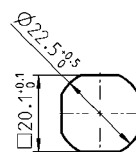
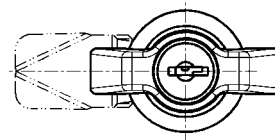
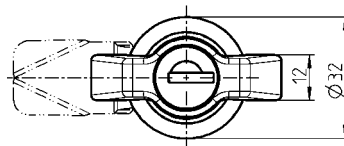
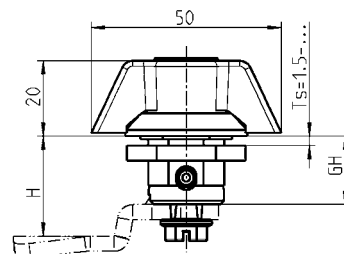
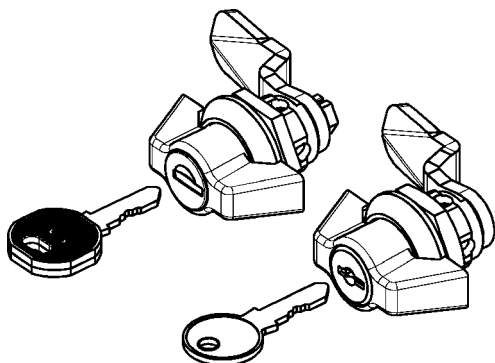
* IP 65

Further parts see page

- cam with catch up to 1C-120
- Accessories from 1C-180
- Escutcheon 1C-340
- Spare key 3B-140
- 12B-140

Wing knob

PROGRAM 1000



Cut out

Cylinder zinc die

Each cylinder has one silver steel key with polyamide GF grip black.
Screw and nut m.s. zinc plated.
Key removable in both positions.

Cylinder polyamide

Each cylinder has one m.s. nickel plated key.
Screw and nut m.s. zinc plated.
Key removable in both positions.

Wing knob		Handle, housing zinc die chrome pl., with sealing nut, earthnut and screw m.s. zinc plated cylinder zinc die with stainless steel cap and shutter		
IP 65				
GH 18 mm	Ts 1,5 - 8 mm	non locking	keyed EK 333	Keyed different
with nut		1000-U149	1000-U150	1000-U151
with earthnut		1000-U152	1000-U153	1000-U154
30 mm	20 mm			
with nut		1000-U269	1000-U271	1000-U273
with earthnut		1000-U270	1000-U272	1000-U274
40 mm	30 mm			
with nut		1000-U275	1000-U277	1000-U279
with earthnut		1000-U276	1000-U278	1000-U280
50 mm	40 mm			
with nut		1000-U281	1000-U283	1000-U285
with earthnut		1000-U282	1000-U284	1000-U286
60 mm	50 mm			
with nut		1000-U633	1000-U635	1000-U637
with earthnut		1000-U634	1000-U636	1000-U638

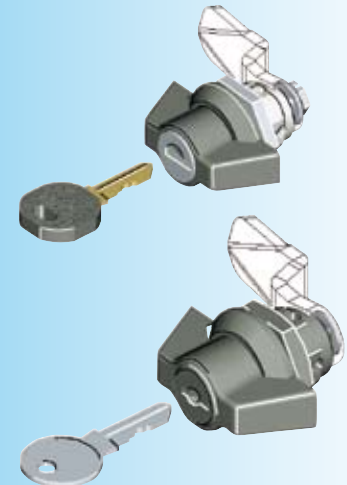
Beschlagteile



Wing knob IP 65		Handle and housing zinc die black powder coated, earthnut and screw m.s. zinc plated, with seal cylinder zinc die, with stainless steel cap and shutter		
GH 18 mm	Ts 1,5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U241	1000-U237	1000-U239
with earthnut		1000-U242	1000-U238	1000-U240
30 mm	20 mm			
with nut		1000-U403	1000-U405	1000-U407
with earthnut		1000-U404	1000-U406	1000-U408
40 mm	30 mm			
with nut		1000-U409	1000-U411	1000-U413
with earthnut		1000-U410	1000-U412	1000-U414
50 mm	40 mm			
with nut		1000-U415	1000-U417	1000-U419
with earthnut		1000-U416	1000-U418	1000-U420
60 mm	50 mm			
with nut		1000-U639	1000-U641	1000-U643
with earthnut		1000-U640	1000-U642	1000-U644

Wing knob IP 65		Handle, housing, nut and screw AISI 316, with seal		
GH 18 mm	Ts 1,5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U665	1000-U150-PH	1000-U151-PH

Wing knob IP 65		Handle polyamide black, housing zinc die black p.c., earthnut and screw m.s. zinc plated, with seal, cylinder zinc die with stainless steel cap and shutter			Handle, housing, Cylinder and nut polyamide black (IP 40)	
GH 18 mm	Ts 1.5 up to 8 mm	non locking	keyed EK 333	keyed different	keyed EK 333	keyed different
with nut		1000-U343	1000-U345	1000-U347	1000-U754	1000-U753
with earthnut		1000-U344	1000-U346	1000-U348	-	-
30 mm	20 mm					
with nut		1000-U512	1000-U514	1000-U516	-	-
with earthnut		1000-U513	1000-U515	1000-U517	-	-
40 mm	30 mm					
with nut		1000-U518	1000-U520	1000-U522	-	-
with earthnut		1000-U519	1000-U521	1000-U523	-	-
50 mm	40 mm					
with nut		1000-U524	1000-U526	1000-U528	-	-
with earthnut		1000-U525	1000-U527	1000-U529	-	-
60 mm	50 mm					
with nut		1000-U645	1000-U647	1000-U649	-	-
with earthnut		1000-U646	1000-U648	1000-U650	-	-

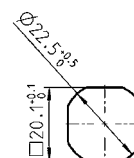
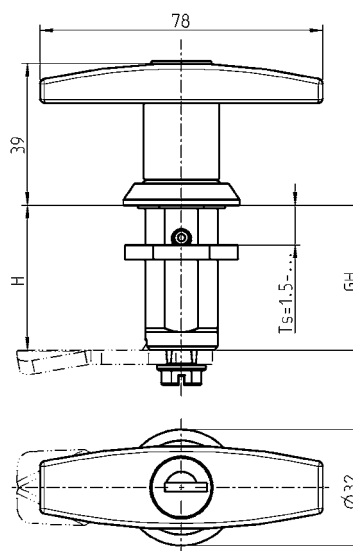
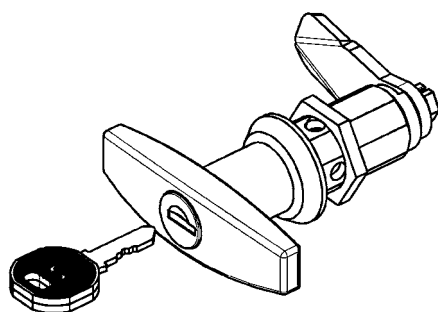


Further parts see page

- cam with catch up to 1C-120
- Accessories from 1C-180
- Escutcheon 1C-340
- Spare key 3B-140
- 12B-140

T-Handle

PROGRAM 1000



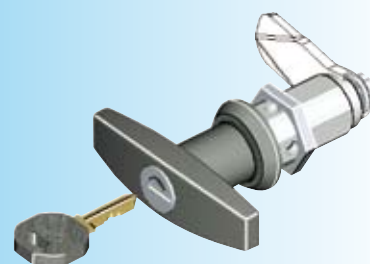
Cut out

Each cylinder has one silver steel key with polyamide GF grip black, screw and nut m.s. zinc plated. Key removable in both positions.

T-Handle, suitable for KABA-cylinder type 1036 for standard locking or master key system on request.

T-Handle		Handle and housing zinc die chrome plated, nut, earthnut and screw m.s. zinc plated, with seal cylinder zinc die with stainless steel cap and shutter		
IP 65				
GH 18 mm	Ts 1.5 up to 8 mm	non locking	keyed EK 333	Keyed different
with nut		1000-U9	1000-U10	1000-U11
with earthnut		1000-U60	1000-U61	1000-U62
30 mm	20 mm			
with nut		1000-U116	1000-U118	1000-U120
with earthnut		1000-U117	1000-U119	1000-U121
40 mm	30 mm			
with nut		1000-U122	1000-U124	1000-U126
with earthnut		1000-U123	1000-U125	1000-U127
50 mm	40 mm			
with nut		1000-U128	1000-U130	1000-U132
with earthnut		1000-U129	1000-U131	1000-U133
60 mm	50 mm			
with nut		1000-U594	1000-U596	1000-U598
with earthnut		1000-U595	1000-U597	1000-U599

Beschlagteile



T-Handle IP 65		Handle and housing zinc die black powder coated, nut, earthnut and screw m.s. zinc plated, with seal, cylinder zinc die with stainless steel cap and shutter		
GH 18 mm	Ts 1,5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U337	1000-U338	1000-U339
with earthnut		1000-U340	1000-U341	1000-U342
30 mm	20 mm			
with nut		1000-U372	1000-U374	1000-U376
with earthnut		1000-U373	1000-U375	1000-U377
40 mm	30 mm			
with nut		1000-U378	1000-U380	1000-U382
with earthnut		1000-U379	1000-U381	1000-U383
50 mm	40 mm			
with nut		1000-U384	1000-U386	1000-U388
with earthnut		1000-U385	1000-U387	1000-U389
60 mm	50 mm			
with nut		1000-U600	1000-U602	1000-U604
with earthnut		1000-U601	1000-U603	1000-U605

T-Handle IP 65		Handle, housing, nut and screw AISI 316, with seal		
GH 18 mm	Ts 1,5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U664	1000-U10-PH	1000-U11-PH

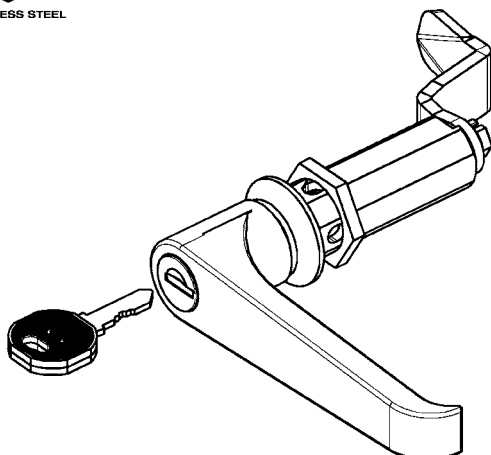
T-Handle IP 65		Handle polyamide black Housing zinc die black powder coated, nut, earthnut and screw m.s. zinc plated, with seal Cylinder zinc die with stainless steel cap and shutter		
GH 18 mm	Ts 1,5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U546	1000-U548	1000-U550
with earthnut		1000-U547	1000-U549	1000-U551
30 mm	20 mm			
with nut		1000-U552	1000-U554	1000-U556
with earthnut		1000-U553	1000-U555	1000-U557
40 mm	30 mm			
with nut		1000-U558	1000-U560	1000-U562
with earthnut		1000-U559	1000-U561	1000-U563
50 mm	40 mm			
with nut		1000-U564	1000-U566	1000-U568
with earthnut		1000-U565	1000-U567	1000-U569
60 mm	50 mm			
with nut		1000-U606	1000-U608	1000-U610
with earthnut		1000-U607	1000-U609	1000-U611

Further parts see page

- cam with catch up to 1C-120
- Accessories from 1C-180
- Escutcheon 1C-340
- Spare key 3B-140
- 12B-140

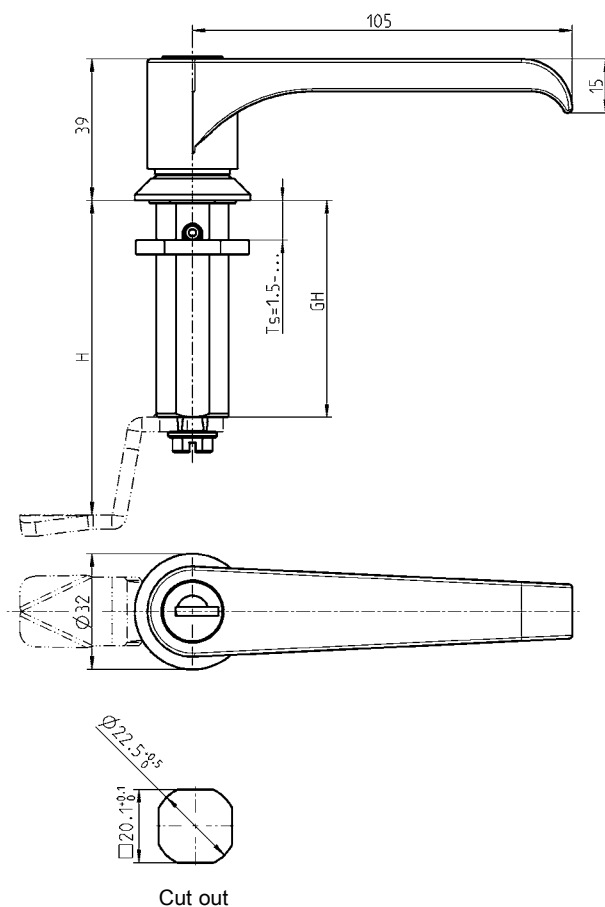
L-Handle

PROGRAM 1000



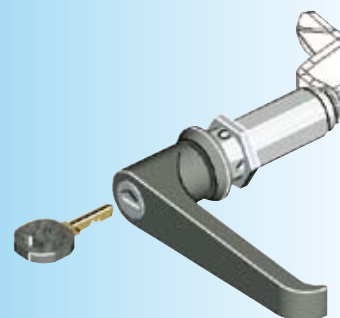
Each cylinder has one silver steel key with polyamide GF grip black, screw and nut m.s.zinc pl., key removable in both positions.

L-Handle,
suitable for KABA-cylinder type 1036 for standard locking or master key system on request.



Cut out

L-Handle		Handle and housing zinc die chrome plated, nut, earthnut and screw m.s. zinc plated, with seal, cylinder zinc die, with stainless steel cap and shutter		
IP 65				
GH 18 mm	Ts 1,5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U14	1000-U15	1000-U16
with earthnut		1000-U57	1000-U58	1000-U59
30 mm	20 mm			
with nut		1000-U98	1000-U100	1000-U102
with earthnut		1000-U99	1000-U101	1000-U103
40 mm	30 mm			
with nut		1000-U104	1000-U106	1000-U108
with earthnut		1000-U105	1000-U107	1000-U109
50 mm	40 mm			
with nut		1000-U110	1000-U112	1000-U114
with earthnut		1000-U111	1000-U113	1000-U115
60 mm	50 mm			
with nut		1000-U612	1000-U614	1000-U616
with earthnut		1000-U613	1000-U615	1000-U617



L-Handle IP 65		Handle, housing zinc die black powder coated, nut, earthnut and screw m.s. zinc plated, with seal, cylinder zinc die with stainless steel cap and shutter.		
GH 18 mm	Ts 1,5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U353	1000-U390	1000-U391
with earthnut		1000-U392	1000-U393	1000-U394
30 mm	20 mm			
with nut		1000-U354	1000-U356	1000-U358
with earthnut		1000-U355	1000-U357	1000-U359
40 mm	30 mm			
with nut		1000-U360	1000-U362	1000-U364
with earthnut		1000-U361	1000-U363	1000-U365
50 mm	40 mm			
with nut		1000-U366	1000-U368	1000-U370
with earthnut		1000-U367	1000-U369	1000-U371
60 mm	50 mm			
with nut		1000-U618	1000-U620	1000-U622
with earthnut		1000-U619	1000-U621	1000-U623

L-Handle IP 65		Handle, housing, nut and screw AISI 316, with seal		
GH 18 mm	Ts 1,5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U658	1000-U15-PH	1000-U16-PH

L-Handle IP 65		Handle polyamide black Housing zinc die black powder coated, nut, earthnut and screw m.s. zinc plated, with seal, cylinder zinc die, with stainless steel cap and shutter		
GH 18 mm	Ts 1,5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U570	1000-U572	1000-U574
with earthnut		1000-U571	1000-U573	1000-U575
30 mm	20 mm			
with nut		1000-U576	1000-U578	1000-U580
with earthnut		1000-U577	1000-U579	1000-U581
40 mm	30 mm			
with nut		1000-U582	1000-U584	1000-U586
with earthnut		1000-U583	1000-U585	1000-U587
50 mm	40 mm			
with nut		1000-U588	1000-U590	1000-U592
with earthnut		1000-U589	1000-U591	1000-U593
60 mm	50 mm			
with nut		1000-U624	1000-U626	1000-U628
with earthnut		1000-U625	1000-U627	1000-U629

Further parts see page

- cam with catch up to 1C-120
- Accessories from 1C-180
- Escutcheon 1C-340
- Spare key 3B-140
- 12B-140



IP 65 on request!

Insert is spring loaded
(2 hand operation)

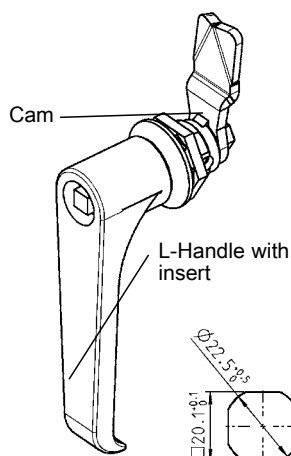


IP 65

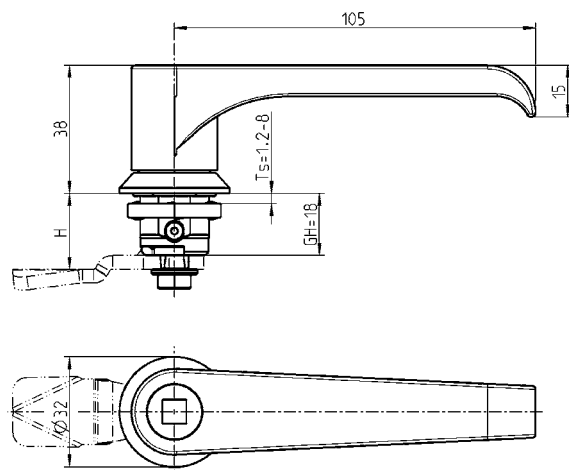
Attention:
L-Handle is locked when a pad-
lock is fitted.

Further parts see page

- cam with catch up to 1C-120
- Accessories up to 1C-180
- Escutcheon from 1C-340
- Key 3B-140
- 12B-120

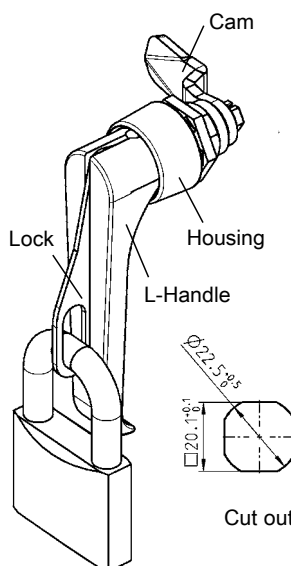


Cut out

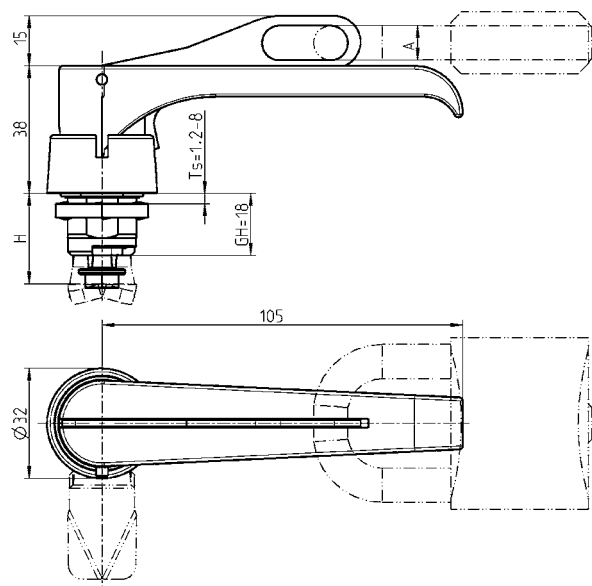


**L-Handle with housing and insert zinc die,
screw and earthnut m.s. zinc plated, with seal**

	chrome pl.	black powder coated		chrome pl.	black powder coated
Square 7	1000-U89	1000-U395	Double bit 5	1000-U94	1000-U400
Square 8	1000-U90	1000-U396	Daimler Benz	1000-U95	1000-U401
Triangular 6,5 CNOMO	1000-U423	1000-U422	Slot 2 x 4	1000-U434	1000-U435
Triangular 7	1000-U91	1000-U397	Slot 1,2 x 3	1000-U656	1000-U657
Triangular 8	1000-U92	1000-U398	Eastern Europe half round Ø 13	1000-U659	1000-U660
Double bit 3	1000-U93	1000-U399			



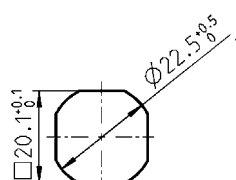
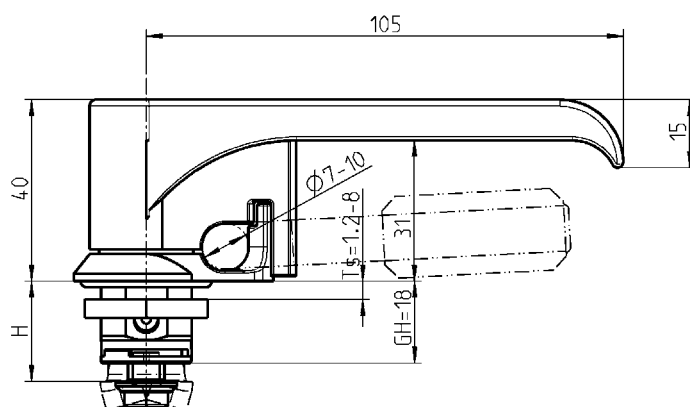
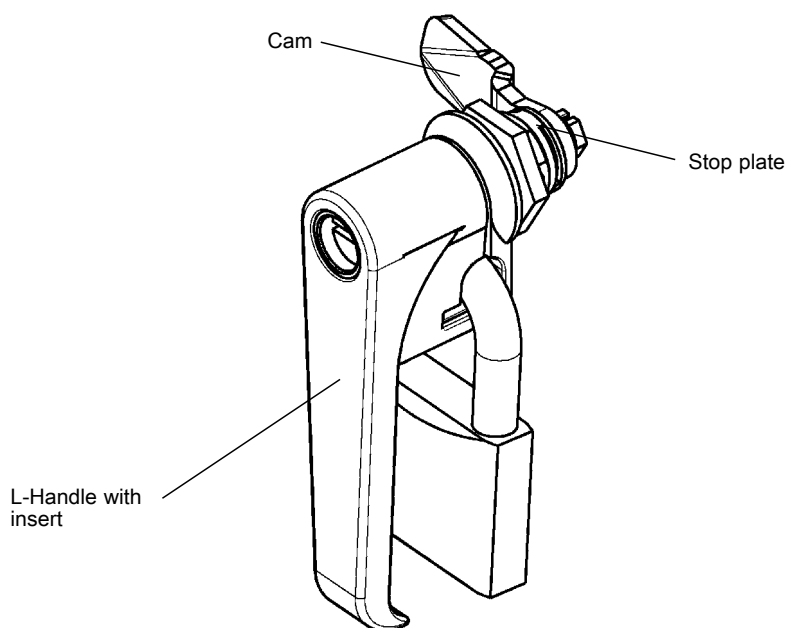
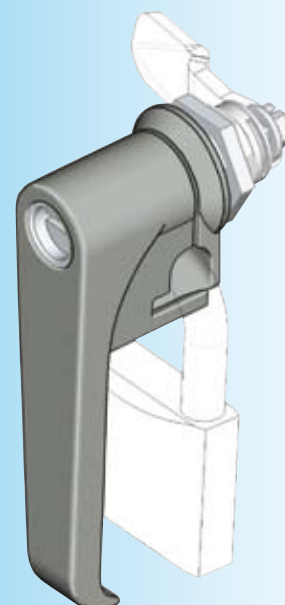
Cut out



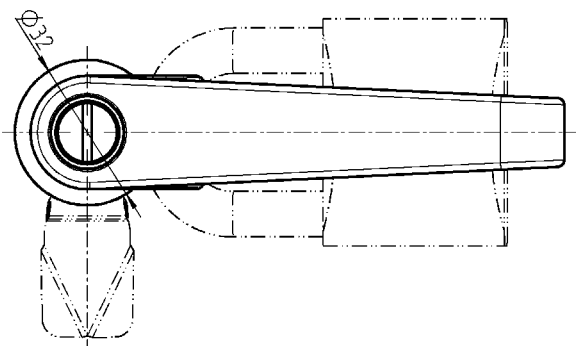
**L-Handle with housing zinc die, lock and spring stainless steel,
screw and earthnut m.s. zinc plated, with seal**

	chrome pl.	black powder coated		chrome pl.	black powder coated
Dim. A = 7	1000-U501	1000-U502	Dim. A = 10	1000-U189	1000-U402

L-Handle for padlock PROGRAM 1000



Cut out



Insert is spring loaded
(2 hand operation)

Attention:
L-Handle is locked when a pad-
lock is fitted.

Further parts see page
– Cam without catch 1C-120
– Accessories 1C-360
1C-380

Further inserts
(see catalogue page 1B-620)
on request!

L-Handle with housing zinc die bl. p.c., stop plate zinc die for version RH and LH,
screw and nut m.s. zinc plated, with seal

with insert 2x4 coinproof zinc die chrome plated	1000-U770
without insert	1000-U771



RL

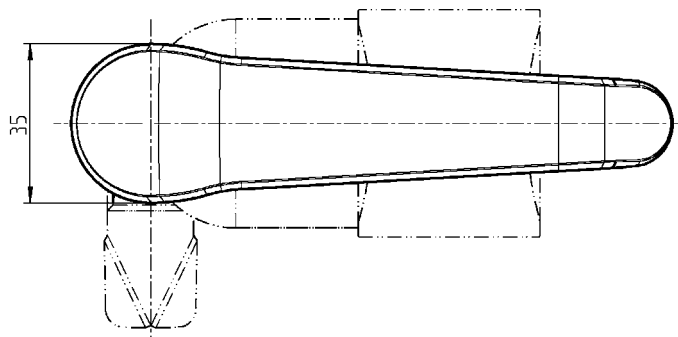
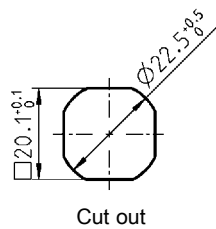
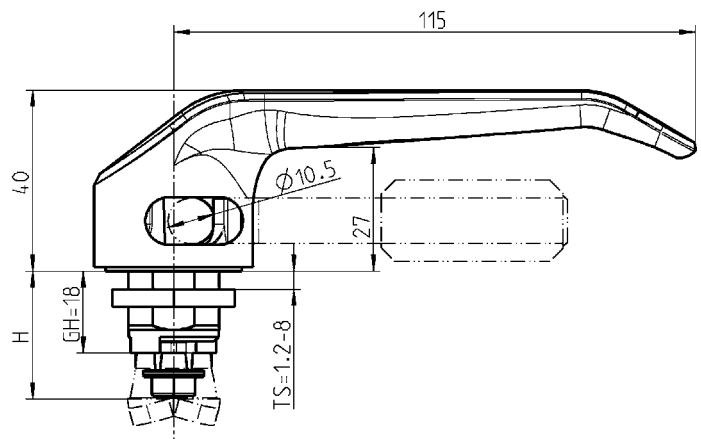
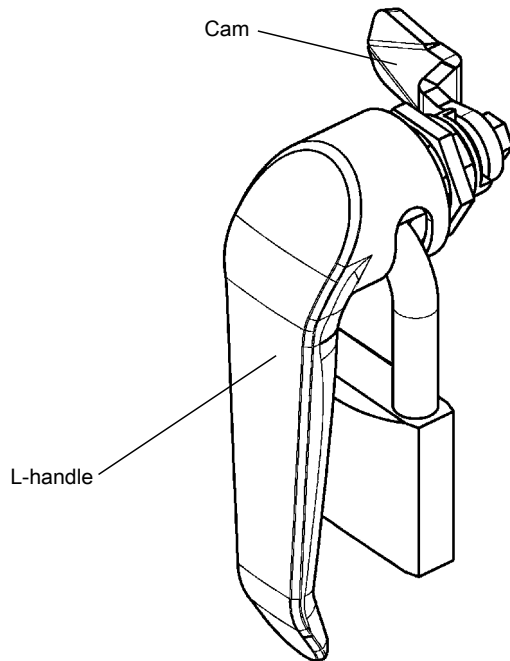
IP 65



INOX
AISI
3..



L-handle quarter turn for padlock PROGRAM 1000



Attention:
L-handle is locked when a pad-
lock is fitted.

Further parts see page
– cam with pip

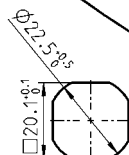
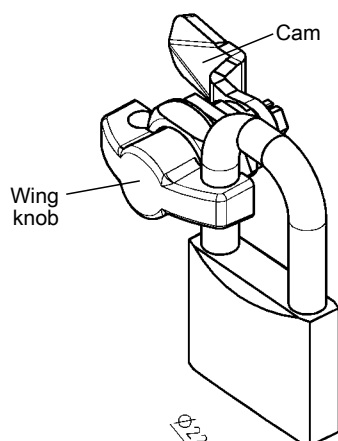
1C-120

L-handle AISI 316, screw and nut
stainless steel, with seal

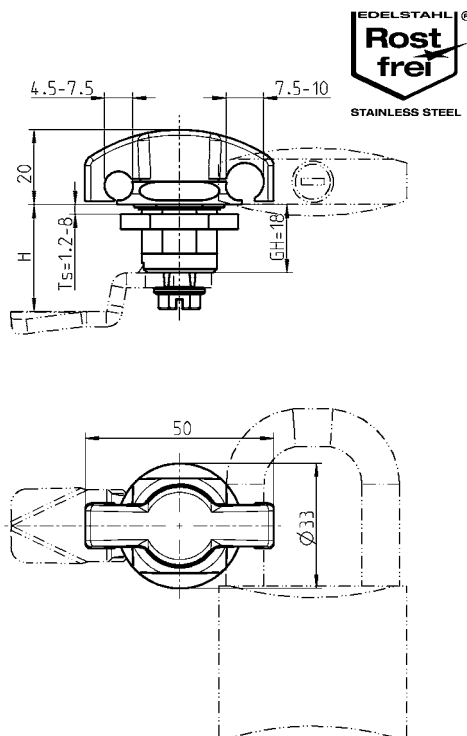
1000-U860

Quarter turn for padlock

PROGRAM 1000



Cut out

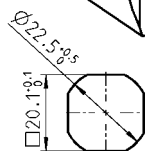
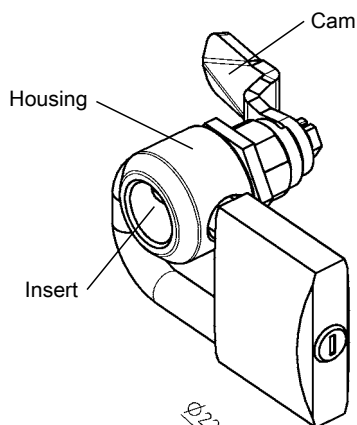


Wing knob and housing zinc die black powder coated, nut and screw m.s. zinc plated, with seal

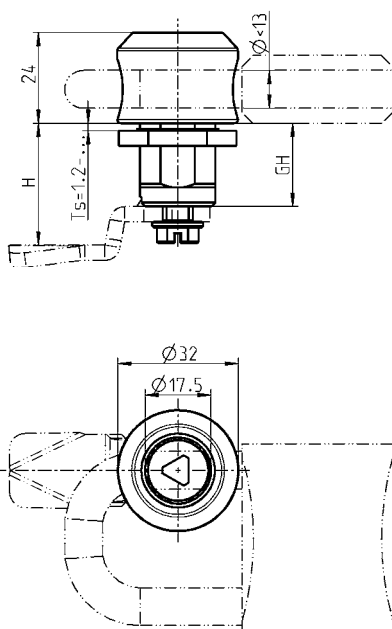
1000-U429-01

Wing knob quarter turn AISI 316, with seal

1000-U429-01PH



Cut out



Housing zinc die black p.c., nut and earthnut m.s. zinc plated

GH	TS<	Nut	Earthnut
22	13	1000-U436	1000-U438
32	23	1000-U437	1000-U439
42	33	1000-U734	1000-U735

Beschlagteile



IP 65

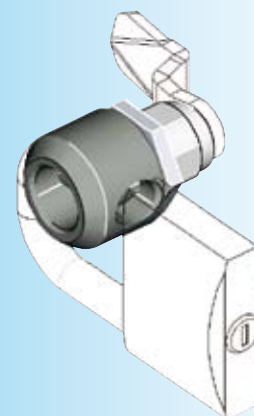
Attention:

In case of an attached padlock with suitable shackle Diameter, the wing knob cannot be moved.

For shackle Ø 4.5 to 10

Further parts see page

- cam with catch 1C-120
- Accessories up to 1C-180
- Accessories from 1C-340



For shackle ≤ Ø 13

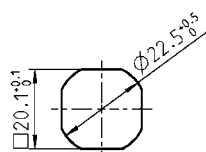
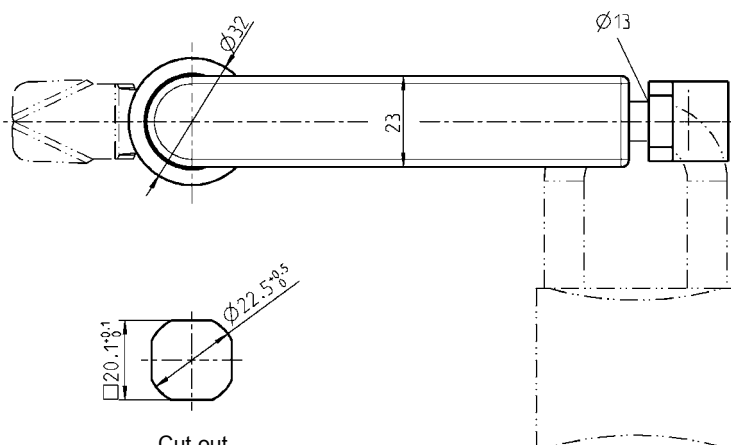
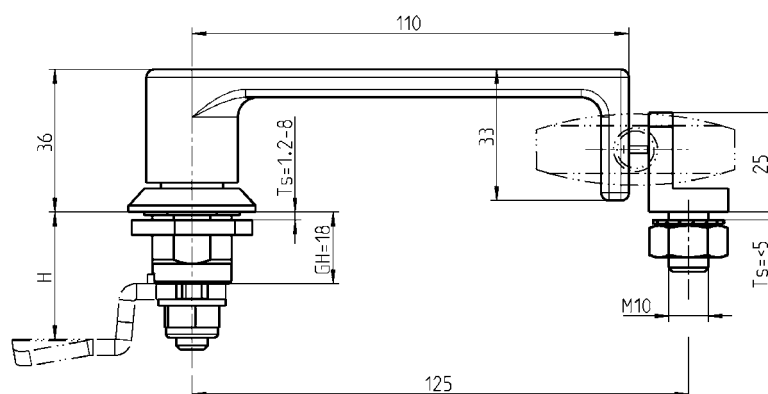
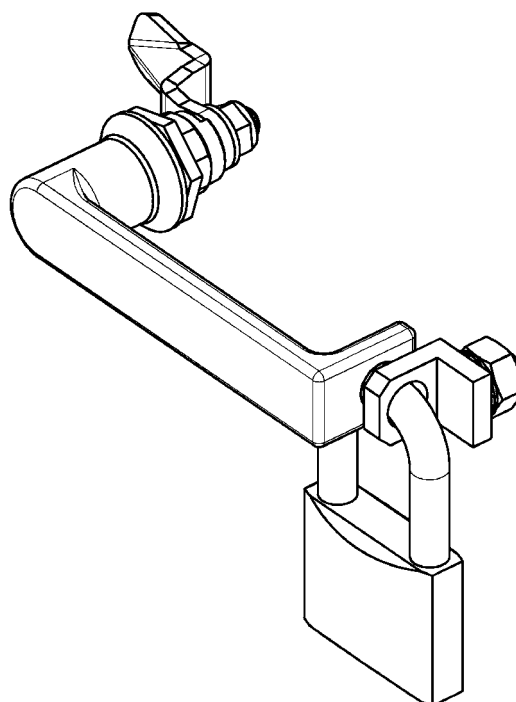
Note:

Quarter turn assembly

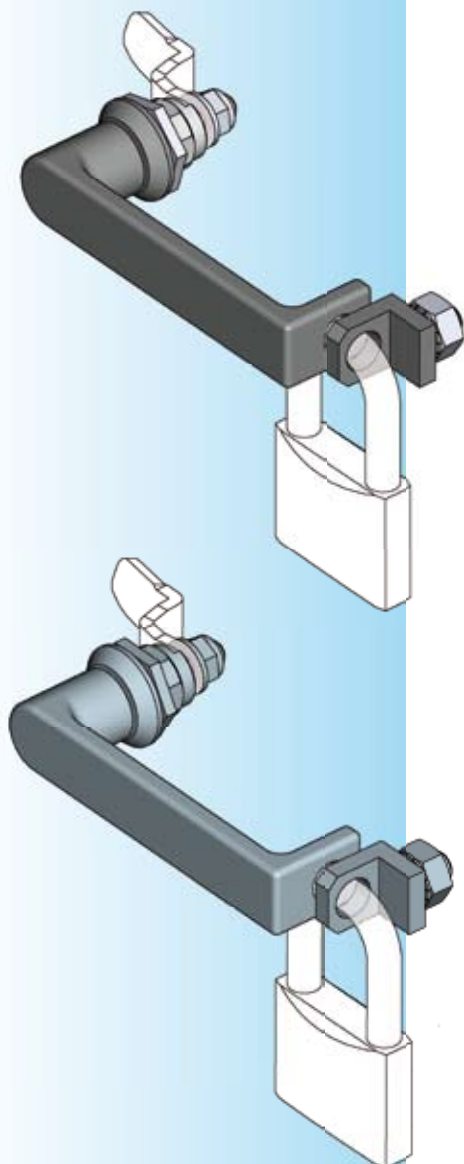
1B-105

Further parts see page

- Insert 1B-140
- IP 65 or IP 66 1B-140
- cam with catch 1C-120
- Accessories from 1C-340
- Escutcheon 3B-140
- Key 12B-120



Cut out



Further parts see page
– cam with catch

1C-120

Handle, housing and angle steel as requested; nut and washers m.s. zinc plated or stainless steel with seal

cast steel black powder
coated

1000-U857

AISI 316

1000-U842

1B-690

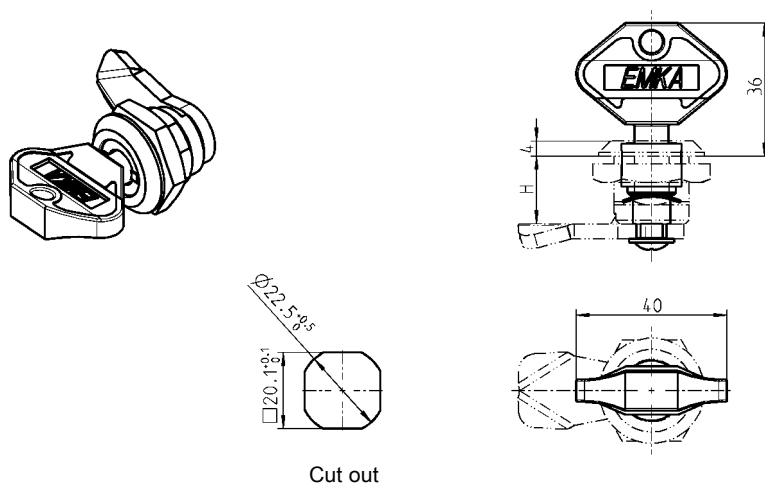
© EMKA Beschlagteile GmbH & Co. KG • 2016 • www.emka.com

Clip-in key, wing knob for insert

PROGRAM 1000

Clip-in key

Key can be used as handle



The key clips into the insert with its clip-in arms and is captivated.
The key cannot be removed without destruction unless lock is disassembled.

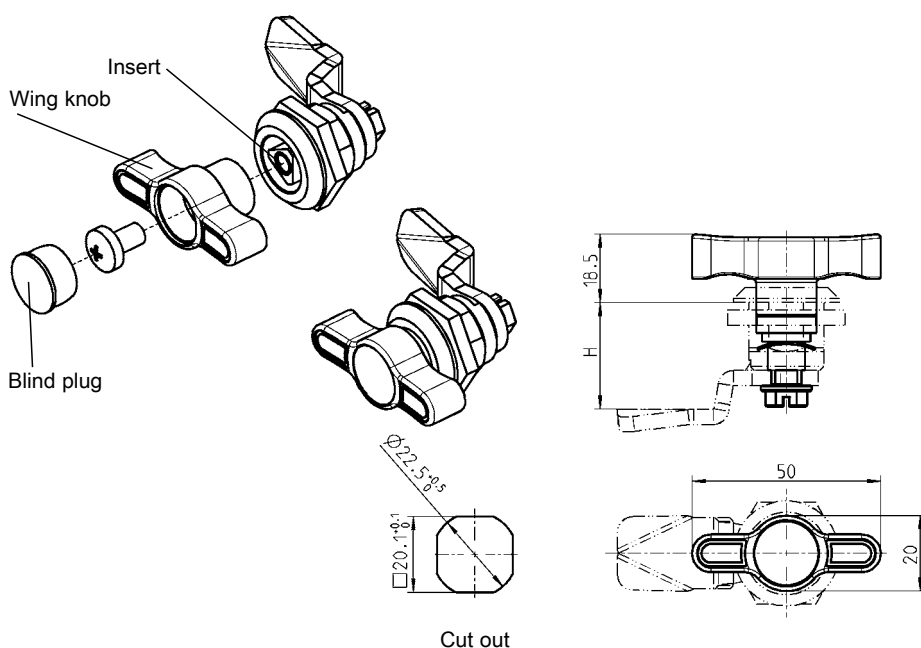
Insert Polyamide black; spring washer and self-cutting screw m.s. zinc plated

Double bit 3	1000-U745	Double bit 5	1000-U744
--------------	-----------	--------------	-----------

Key polyamide black

Key nat.rail. 3	1004-34-01	Key nat.rail. 5	1004-33-01
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Wing knob for insert



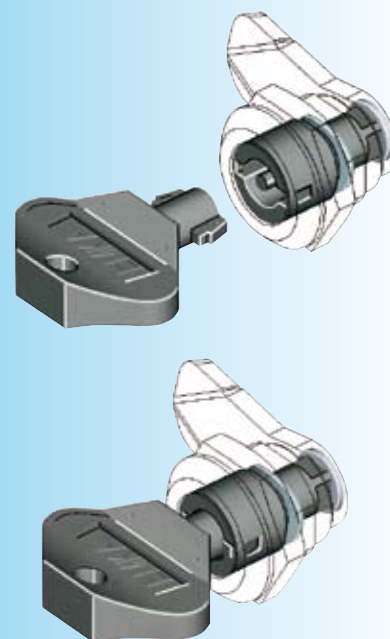
Wing knob polyamide GF black; blind plug PE black; Fixing material m.s. zinc plated

for square 8	1000-U764	for triangular 10	1000-U762
--------------	-----------	-------------------	-----------

Insert with M6 female thread zinc die zinc plated

Square 8	1000-U765	Triangular 10	1000-U763
----------	-----------	---------------	-----------

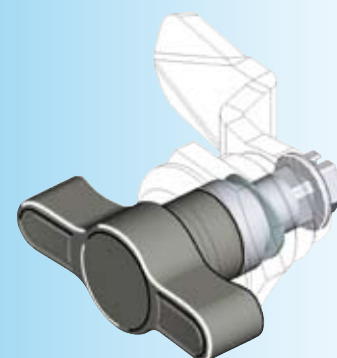
RL



Key can be used as handle

Further parts see page
– Housing and cam

1B-160



Note:

Quarter turn assembly 1B-105

Further parts see page

– Housing	1B-140
– cam with catch	1B-160
– Accessories	up to 1C-180
	from 1C-340



IP 40

Advantage:
Easy to install

Easy to assemble by using
plug in plastic parts

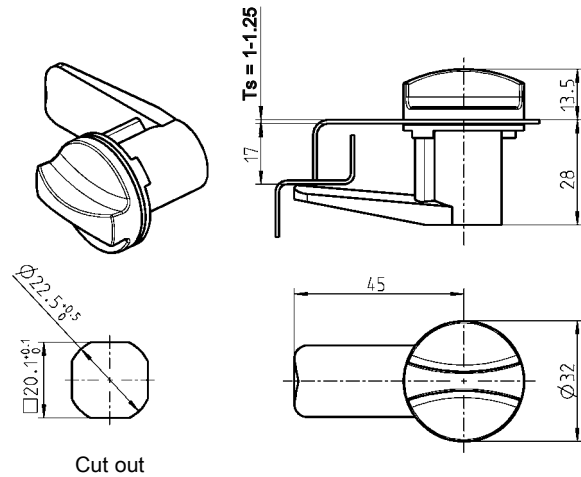


Attention:
When selecting a cam the
H-dimension reduced by 3 mm

Note:
Quarter turn assembling 1B-105

Further parts see page
– Insert 1B-140
– cam with catch 1C-120
(GH = 18)
Attention : When selecting
these cams, note the H-dimen-
sion is reduced by 3mm.
– Key 12B-120

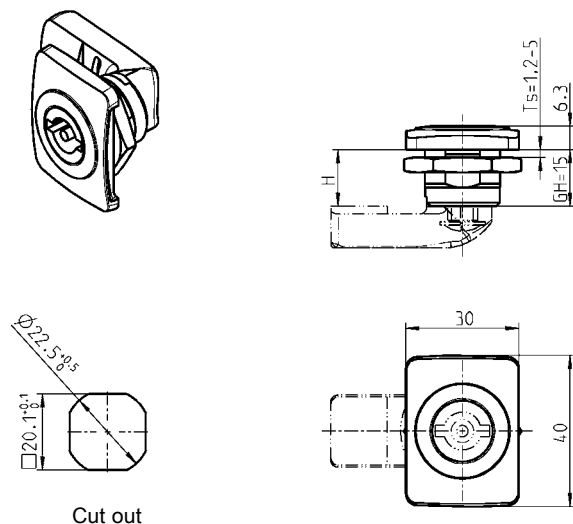
Clip in quarter turn



Clip in quarter turn polyamide GF, RH/LH version

black	1000-U349
grey RAL 7032	1000-U350

Housing for quarter turn



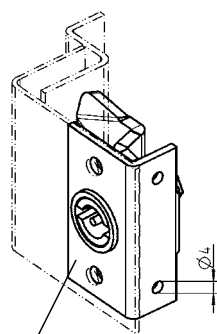
Housing polyamide GF black, nut m.s. zinc plated

RH version	1000-U740
LH version	1000-U740-01
IP 65 with:	
Flat seal	1000-23
O-ring	1000-24
IP 66 with:	
Sealing device	1000-U769

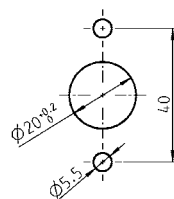
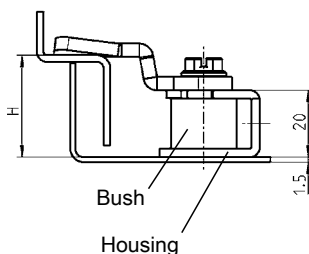
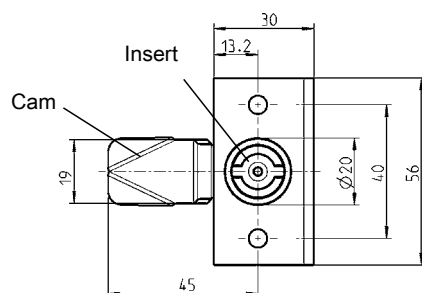
Quarter turn screw-on or weld-on

PROGRAM 1000

Beschlagteile



On request bush flush with housing



Cut out
No need for
holes Ø 5,5 when
welded.



Cam m.s. zinc plated Dim. H in mm

6	1000-112
8	1000-22
10	1000-113
12	1000-21
15	1000-20
16	1000-19
18	1000-18
20	1000-17
22	1000-16
24	1000-15
26	1000-14
27	1000-27
28	1000-50
30	1000-13
32	1000-28
34	1000-26
36	1000-12
37	1000-11
38	1000-51
40	1000-52
42	1000-25
44	1000-53
46	1000-54
49	1000-55
52	1000-56

Housing m.s. raw with bush zinc die zinc pl.

RH version as drawn	1057-U1
LH version	1057-U2
Housing on request also zinc plated	

Further parts see page

– Insert 1B-140
– Key 12B-120



Beschlagteile

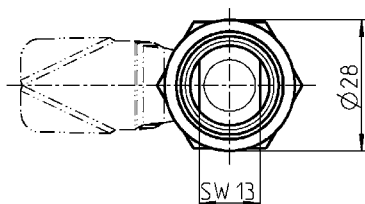
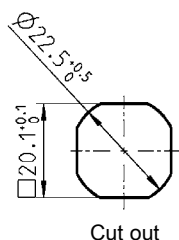
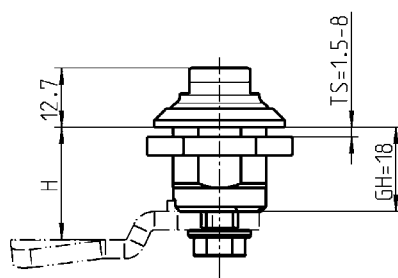
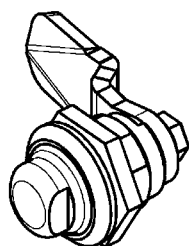
Notes:

Lined area for notes, consisting of 30 horizontal lines.

Quarter turn stainless steel for hygienic areas PROGRAM 1000



Beschlagteile



Note:

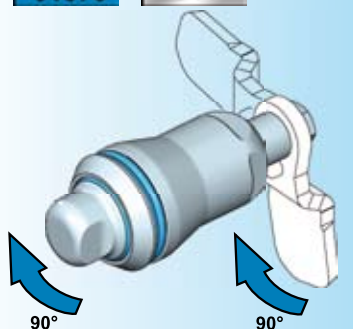
The quarter turn for hygienic areas fulfills the hygiene demands to DIN EN 1672-2 and DIN EN 14159

quarter turn material on choice, with seal

AISI 316L	1000-U838
AISI 303	1000-U838-PF
Key zinc die	
	1004-53

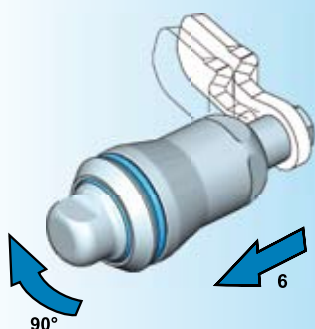
Further parts see page
– cam with catch

1C-120



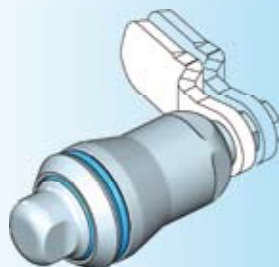
Open condition

By turning the insert by 90°, the cam is turn.



Closed condition

By turning the insert another 90°, the cam is axially drawn by 6 mm towards the door.



Compressed condition

Open:

Reversed rotation

Further parts see page

– Cam with or without catch

1C-120

® Stainless steel compression latch for hygienic areas

PROGRAM 1000

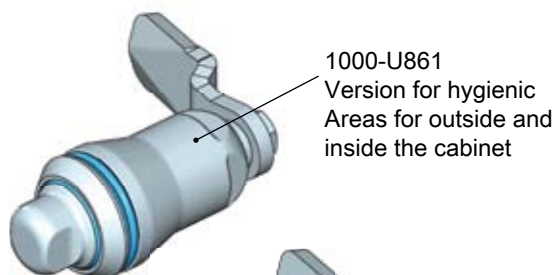


The quarter turn for hygienic areas meets hygiene standard acc. to DIN EN 1672- and DIN EN 14159

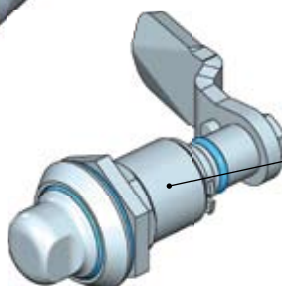
This item is completely IP 65, not only from outside to inside (common standard), but also within the application.

Tamper and vibration-proof

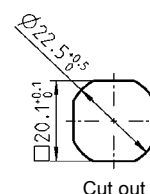
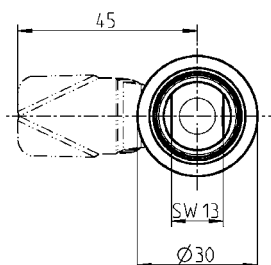
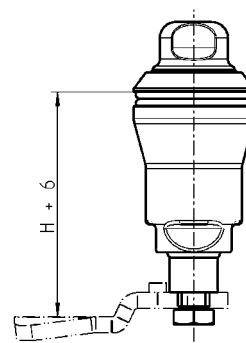
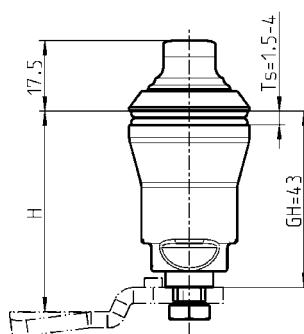
The compression latch is designed to be vibration-proof as such. Depending on the installation location and the operating conditions specific tests are required and/or supplementary measures for fixing necessary.



1000-U861
Version for hygienic Areas for outside and inside the cabinet



1000-U862
Version for hygienic areas for outside the cabinet, not for inside



Compression latch for hygienic areas AISI 316L; with spring and seal

Version for hygienic areas for inside and outside of cabinet

on request

Version for hygienic areas for outside the cabinet, not for inside

1000-U862

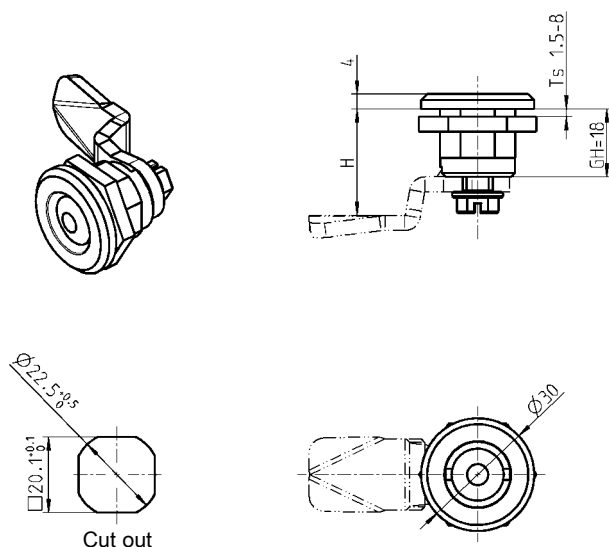
Key zinc die raw

1004-53

Quarter turns

PROGRAM 1000

Quarter turn for Swedish power companies
EBR-standard



Housing with insert zinc die chrome plated, screws and nut m.s. zinc plated

1000-U768

IP 65 achieved through:

Flat seal

1000-23

O-ring

1000-24

IP 66 is achieved by:

Seal set

1000-U769

Assembly on request:

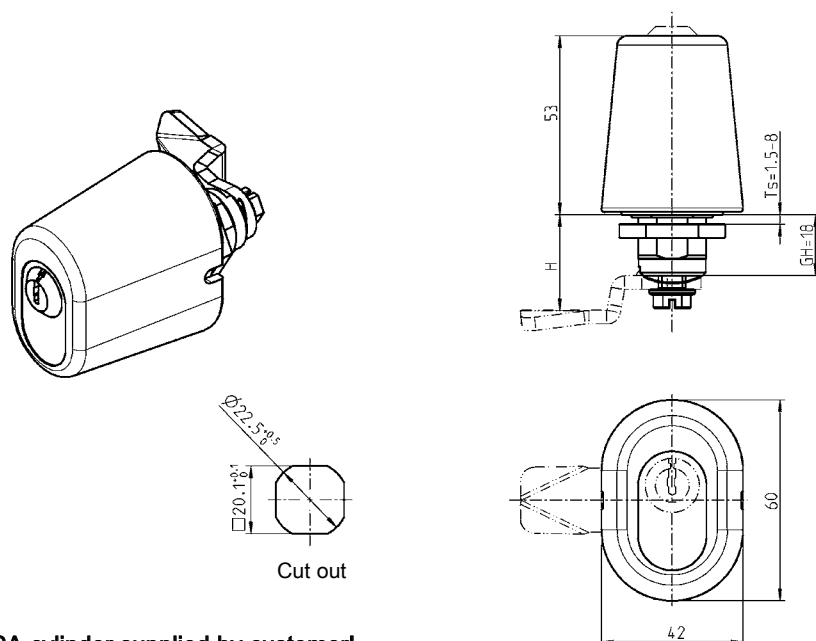
without O-ring

1000-990

with O-ring

1000-991

Wing knob quarter turn for ASSA-cylinder



ASSA cylinder supplied by customer!

Handle Polyamide black, housing zinc die zinc plated,
screws and nut m.s. zinc plated, with seal

1000-U653



Further parts see page

– cam with catch up to 1C-120
– Accessories from 1C-180



Further parts see page

– cam with catch up to 1C-120
– Accessories from 1C-180

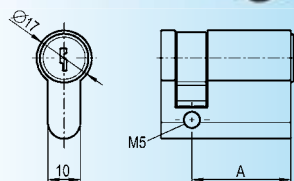
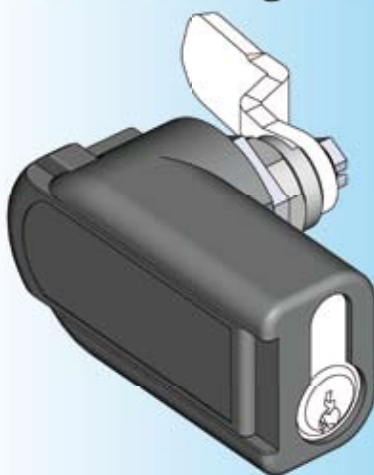
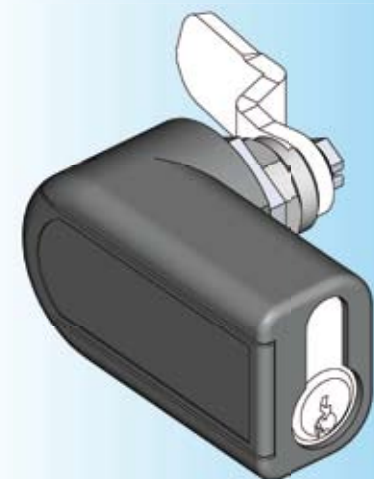


RL

IP 65



DIN EN 61373



Profile half cyl. acc. to DIN 18252 (EN 1303)

The locking cam has to be between 3 and 5 o'clock locking position.

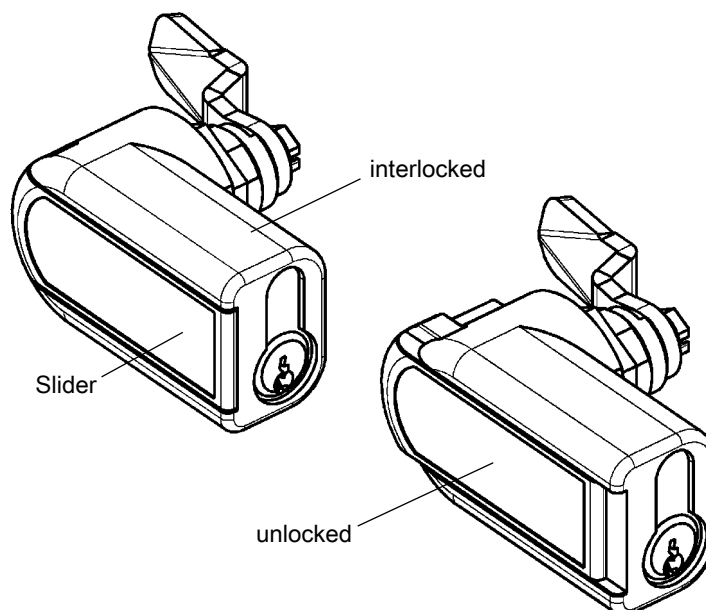
Further parts see page

- cam with catch 1C-120
 - Profile half cylinder 3XB-120
- (Attention: the use of push button profile half cylinder and blind plug is not possible)

Quarter turn for profile half cylinder

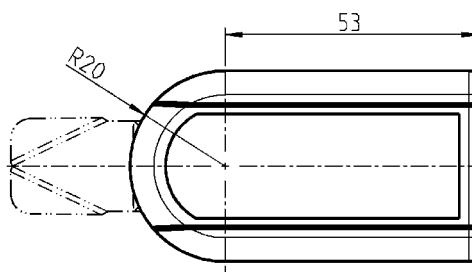
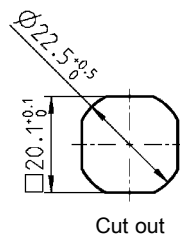
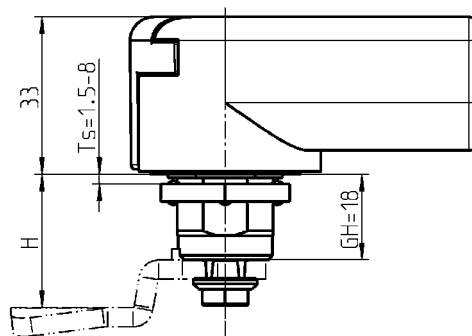
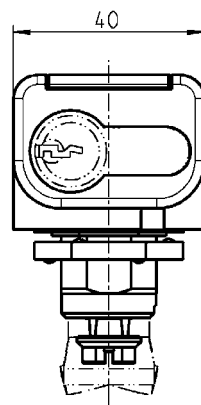
PROGRAM 1000

Tamper and vibration proof with profile half cylinder acc. to DIN 18252 (EN1303)



Locking with EMKA profile half cylinder
Locking possible without key.

Locking process with profile half cyl. acc. to DIN 18253
Locking only possible with key.



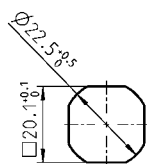
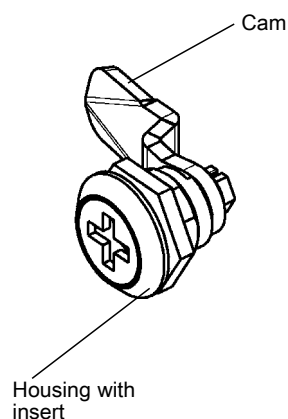
Housing zinc die, handle polyamide GF black, earthnut and screw m.s. zinc plated

1000-U837

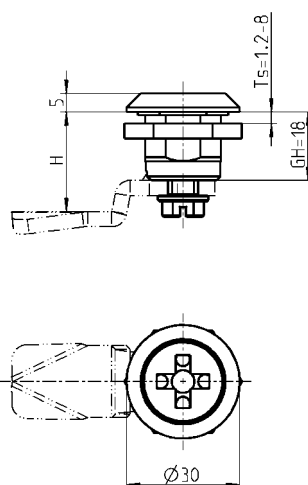
FIAT and nat. railway quarter turns

PROGRAM 1000

Fiat



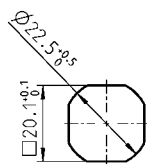
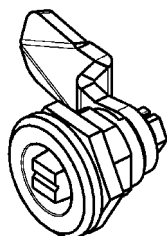
Cut out



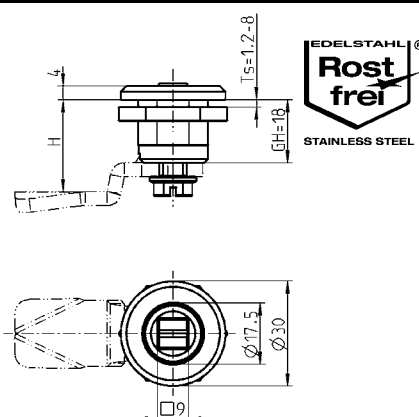
Housing* with insert zinc die chrome plated, screw, nut and earth nut
m.s. zinc plated, with seal

	Nut	Earth nut
	1000-U426	1000-U427

Nat. railway



Cut out



Housing zinc die surface as requested, screw, nut and earth nut m.s. zinc plated,
insert as requested

Insert m.s. zinc plated	Nut	Earth nut
Housing chrome plated	1000-U431	1000-U499
Housing black powder coated	1000-U432	1000-U500
Insert zinc die chrome plated	Nut	Earth nut
Housing Chrome plated	1000-U431-01	—
Housing with insert, screw and nut AISI 304	1000-U431-PF	—

IP 65 is achieved by

Flat seal	1000-23
O-ring	1000-24

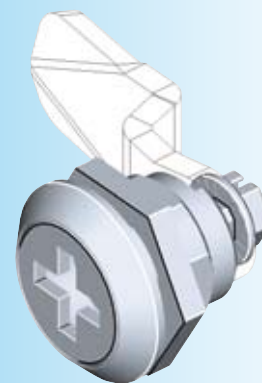
IP 66 is achieved by:

Seal-set	1000-U769
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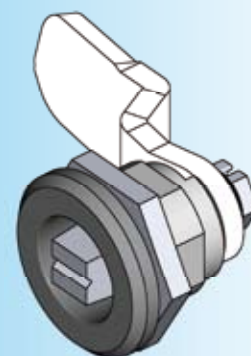
Assembly on request:

without O-ring	1000-990
with O-ring	1000-991

Beschlagteile



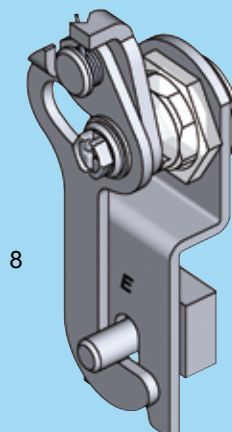
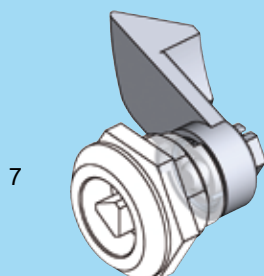
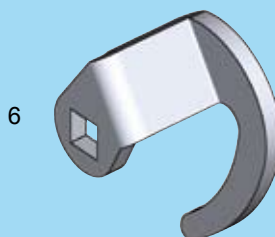
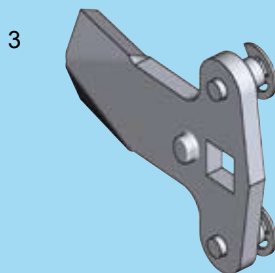
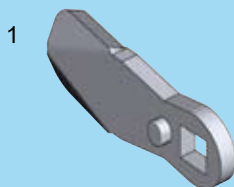
* = IP 65

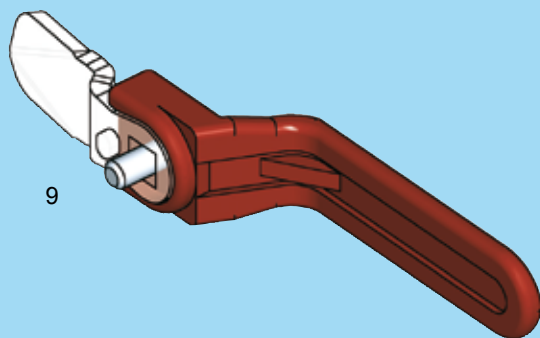


Note:
Quarter turn assembly 1B-105

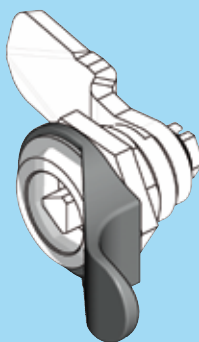
Further parts see page
 – cam with catch up to 1C-120
 – Accessories from 1C-180
 – Escutcheon 3B-140
 – Key 12B-120

Quarter turn accessories standard version

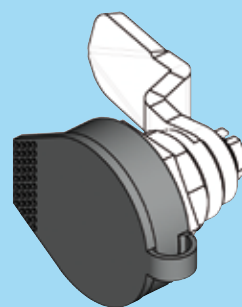




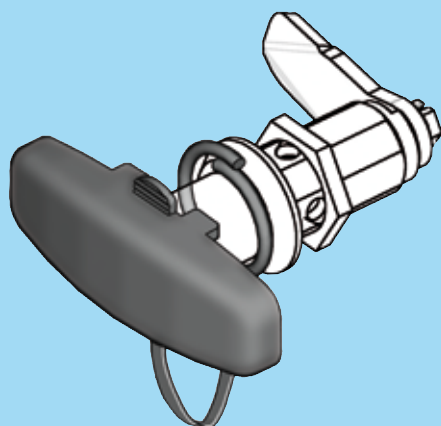
10



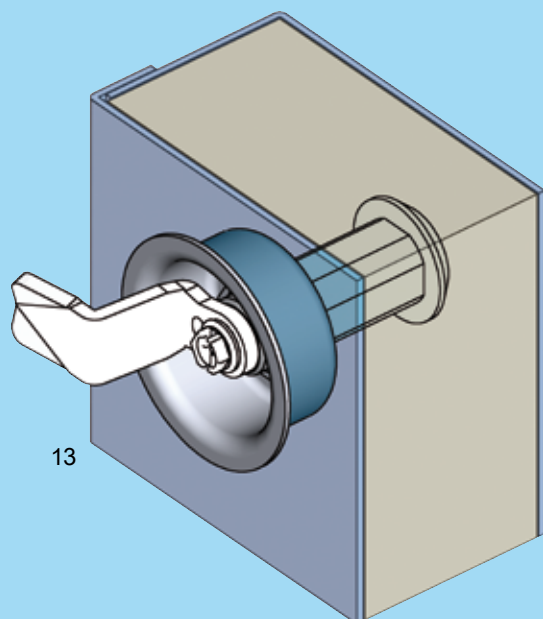
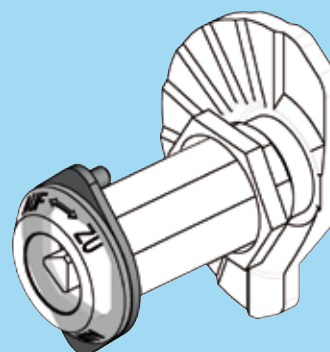
11



11



12

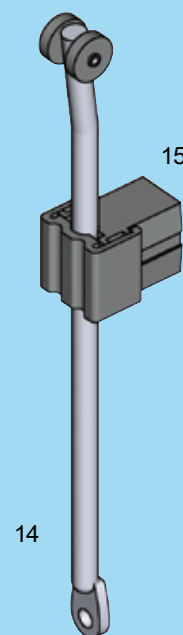


13

15



14



14

- 1 Cam with and without pip
- 2 Rod control for steel and stainless
- 3 Cam with rod control
- 4 Rod control
- 5 Ramp
- 6 Hooked cam
- 7 Slam cam
- 8 Hook lever assembly
- 9 Internal handle for cams
- 10 Finger pull
- 11 Dust cap
- 12 Rotation prevention
- 13 Dish for quarter turn
- 14 Rod
- 15 Rod guide

- 1C-120, 1C-137
- 1C-120
- 1C-120
- 1C-120
- 1C-170
- 1C-160
- 1C-180
- 1C-180
- 1C-170
- 1C-320
- 1C-320, 1C-340
- 1C-360
- 1C-380
- 1C-620
- 1C-630, 1C-640



1C-100

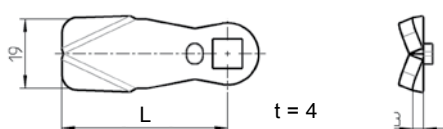
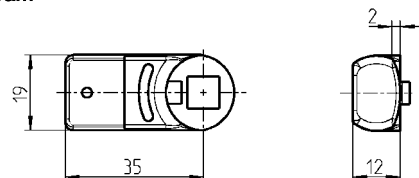
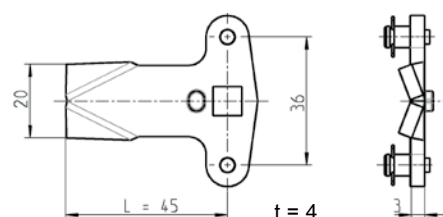
Cam with catch

Cam without catch

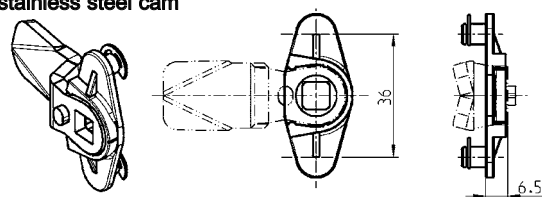
PROGRAM 1000



Cam with catch

Cams without stopper
on request.Version 1
CamVersion 2
Cam*Version 3
Cam with rod control

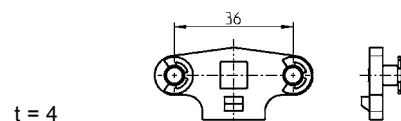
*Version 4

Rod control for steel cam or
stainless steel camRod control zinc die,
zinc plated circlip m.s. zinc plated

1000-U776

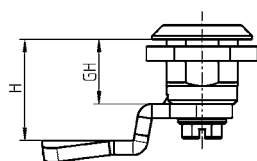
Rod control AISI 316, circlip stainless steel

1000-U776-PH

*Version 5
Rod control

2-point rod control m.s. zinc plated

1000-U167



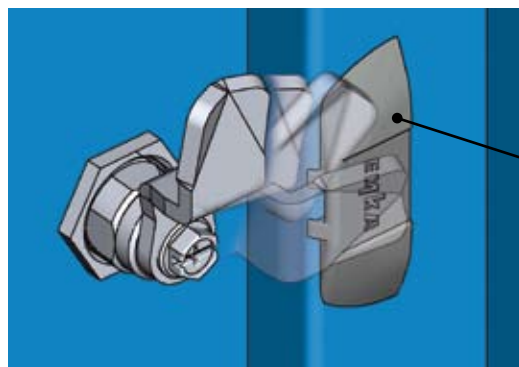
minus offset
↑
straight version
↓
plus offset

Cam with catch material as requested

H dimensions for GH =

18	22	28	30	31	32	36	39	40	42	43	45	50	60	Version 1	
														L = 45 m.s. zinc plated	
4	8	14	16	17	18	22	25	26	28	29	31	36	46	1000-112	
6	10	16	18	19	20	24	27	28	30	31	33	38	48	1000-22	
8	12	18	20	21	22	26	29	30	32	33	35	40	50	1000-113	
10	14	20	22	23	24	28	31	32	34	35	37	42	52	1000-21	
13	17	23	25	26	27	31	34	35	37	38	40	45	55	1000-20	
14	18	24	26	27	28	32	35	36	38	39	41	46	56	1000-19	
15	19	25	27	28	29	33	36	37	39	40	42	47	57	-	
16	20	26	28	29	30	34	37	38	40	41	43	48	58	1000-18	
18	22	28	30	31	32	36	39	40	42	43	45	50	60	1000-17	
20	24	30	32	33	34	38	41	42	44	45	47	52	62	1000-16	
22	26	32	34	35	36	40	43	44	46	47	49	54	64	1000-15	
24	28	34	36	37	38	42	45	46	48	49	51	56	66	1000-14	
25	29	35	37	38	39	43	46	47	49	50	52	57	67	1000-27	
26	30	36	38	39	40	44	47	48	50	51	53	58	68	1000-50	
28	32	38	40	41	42	46	49	50	52	53	55	60	70	1000-13	
30	34	40	42	43	44	48	51	52	54	55	57	62	72	1000-28	
32	36	42	44	45	46	50	53	54	56	57	59	64	74	1000-26	
34	38	44	46	46	48	52	55	56	58	59	61	66	76	1000-12	
35	39	45	47	48	49	53	56	57	59	60	62	67	77	1000-11	
36	40	46	48	49	50	54	57	58	60	61	63	68	78	1000-51	
38	42	48	50	51	52	56	59	60	62	63	65	70	80	1000-52	
40	44	50	52	53	54	58	61	62	64	65	67	72	82	1000-25	
42	46	52	54	55	56	60	63	64	66	67	69	74	84	1000-53	
44	48	54	56	57	58	62	65	66	68	69	71	76	86	1000-54	
45	49	55	57	58	59	63	66	67	69	70	72	77	87	1000-10	
47	51	57	59	60	61	65	68	69	71	72	74	79	89	1000-55	
50	54	60	62	63	64	68	71	72	74	75	78	82	92	1000-56	

* When using cams for rod operation you must be aware that the rods travel in an axial direction.



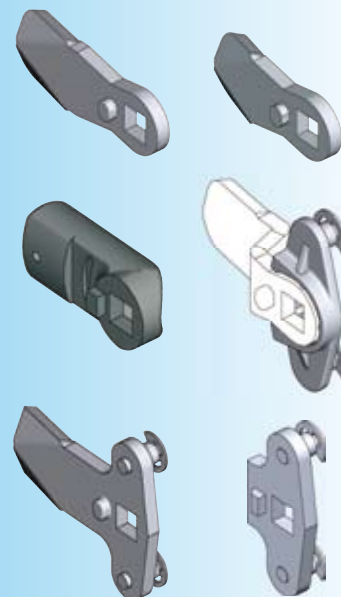
The leading ramp increases the compression by 4 mm.
see catalogue page 1C-170

Note:

This catalogue page does not show all available cams.

Other versions such as:

- Cam without pip
 - Cams with other H- and L- dimension
 - Cams with spoon in the opposite direction
 - etc.
- please ask.



Version 1		Version 1		Version 2	Version 3
L = 45 AISI 304	L = 45 AISI 316	L = 35 m.s. zinc plated	L = 35 polyamide GF black ①	polyamide GF black	m.s. zinc plated
-	-	-	-	-	1000-U63
1000-221	1000-221-PD	-	-	-	1000-U21
-	-	-	-	-	1000-U64
1000-223	1000-223-PD	-	-	-	1000-U22
-	-	-	-	-	1000-U23
1000-225	1000-225-PD	-	-	-	1000-U24
-	-	-	1000-5043-SI	-	-
-	-	-	-	-	1000-U25
1000-227	1000-227-PD	1000-5046	1000-5046-SI	1000-386-18	1000-U26
1000-228	1000-228-PD	1000-5161	-	1000-386-20	1000-U27
1000-179	1000-179-PD	1000-5119	-	1000-386-22	1000-U28
1000-229	1000-229-PD	-	-	1000-386-24	1000-U29
-	-	-	-	-	1000-U30
1000-230	1000-230-PD	-	-	-	1000-U31
1000-180	1000-180-PD	1000-5164	-	1000-386-28	1000-U32
-	-	-	-	1000-386-30	1000-U33
-	-	-	-	-	1000-U34
-	-	-	-	-	1000-U35
-	-	-	-	-	1000-U36
-	-	-	-	-	1000-U37
-	-	-	-	-	1000-U38
-	-	-	-	-	1000-U39
-	-	-	-	-	1000-U40
-	-	-	-	-	1000-U41
-	-	-	-	-	1000-U42
-	-	-	-	-	1000-U43
-	-	-	-	-	1000-U44

① only for light doors and covers

Note:

The H dimension of the cam increases by 4mm when using the leading ramp (see page 1C-170)

The H dimension will be reduced by 2 mm when used with the finger pull (see page 1C-320)

Further parts see page

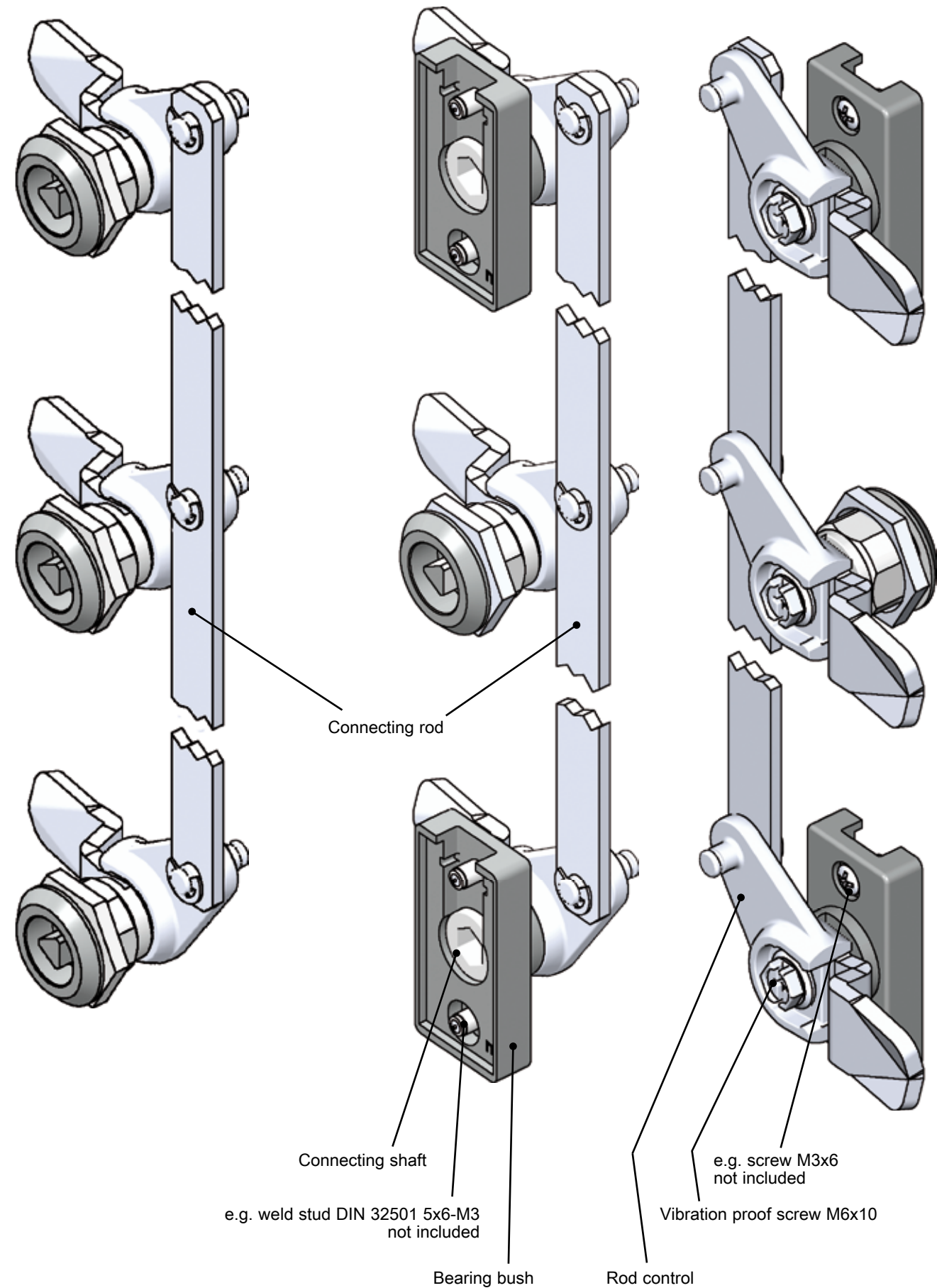
- Ramp 1C-170
- Rod 1C-620
- Quarter turns 1B-120
1B-140
for quick mounting 1B-180
1B-220
1B-230
1B-320
up to 1B-335
1B-360
up to 1B-760
1B-835
up to 1B-860
- Inside handle 1C-170
- Swinghandle 1152 with compression 3C-540
- Swinghandle 3N-120
- Heavy duty latch 10A-620
10A-640

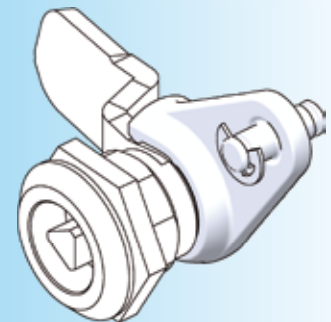
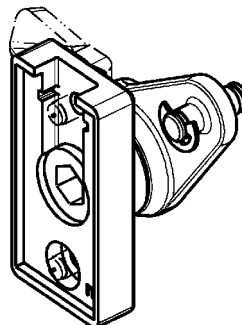
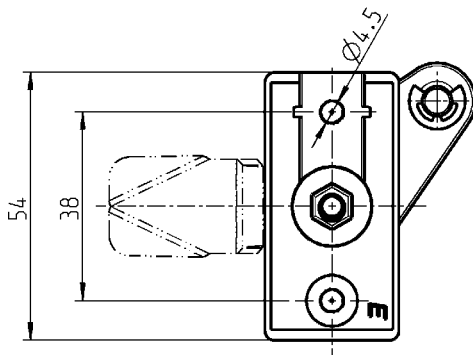
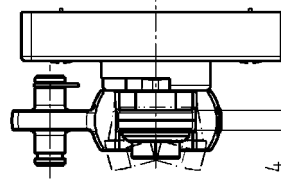
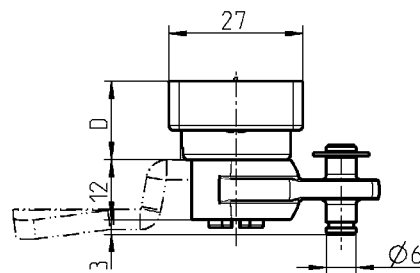
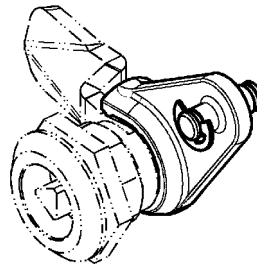
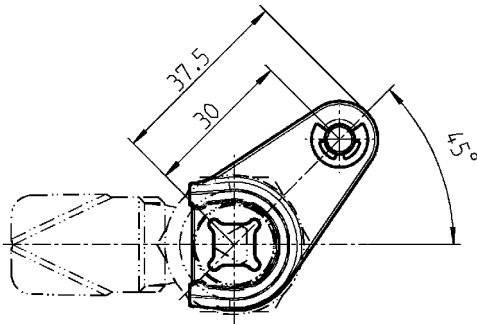
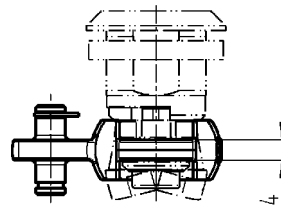
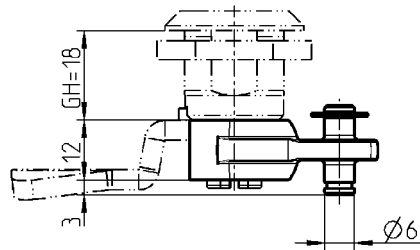
Rod control for multi-point locking

PROGRAM 1000

Example with three quarter turns

Example with one quarter turn and two bearing bushes





Note:

When using the rod control for multi-point locking, the screw-in depth of the screw is reduced by 4 mm

Further parts see page

– Cam (Version 1)	1C-120
– Quarter turns	1B-120
(only for GH = 18)	1B-140
	1B-330
	1B-332
(only 1x lockable)	1B-520
(only 1x lockable)	1B-540
(only 1x lockable)	1B-560
(only 1x lockable)	1B-580
(bottom)	1B-720
(not with bearing bush)	1B-820
(bottom only 1x)	1B-840
(only 1x)	1B-850
(bottom)	1B-860

Rod control zinc-die zinc-plated; circlip m.s. zinc-plated

1000-U874

Bearing bush Polyamide GF black

door gauge	Dim. D	with stopper left	with stopper right
1,5	16,5	1125-83-015	1125-84-015
2,0	16,0	1125-83-020	1125-84-020

Connecting shaft zinc-die

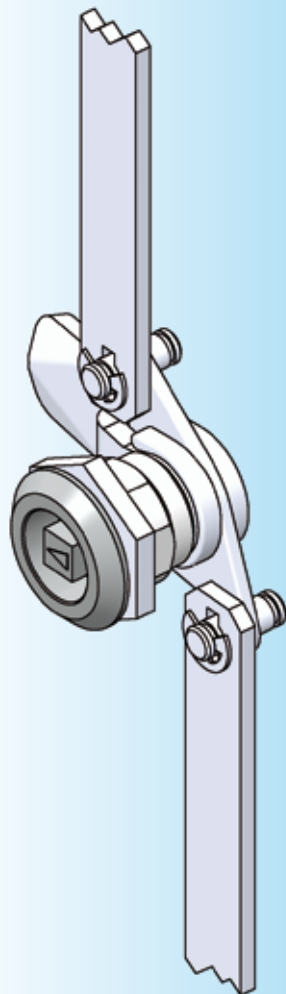
1000-556-KA

Vibration-proof screw M6x10 for connecting shaft m.s. zinc-plated

1000-277-01JB

Connecting rod m.s. zinc-plated

Length, number of bore holes and spacing according to customer specifications on request



Attention:

Only cams with stopper of steel and stainless steel can be used.

Note:

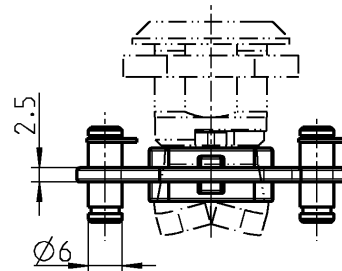
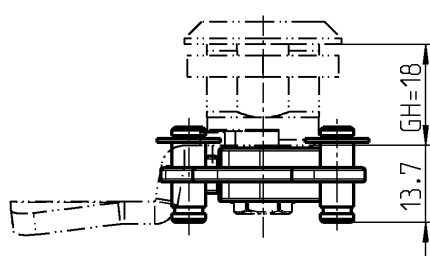
When using the rod control for cam, the screw-in depth of the screw is reduced by 2.5 mm

Further parts see page

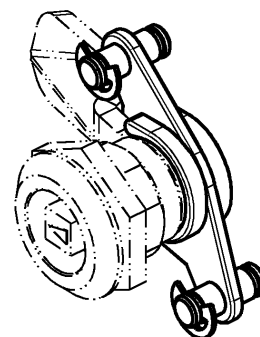
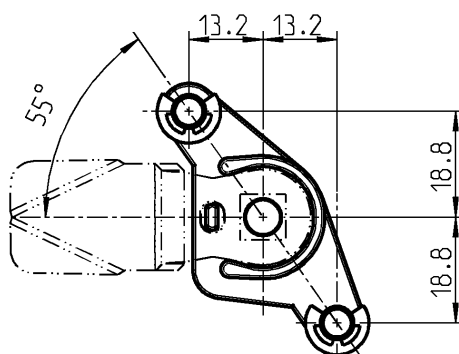
- Cam (type 1) 1C-120
- Ramp 1C-170
- Quarter turns 1B-120
- 1B-140
- 1B-320
- 1B-335
- 1B-360
- 1B-520
- up to 1B-690
- (bottom) 1B-720
- 1B-820
- 1B-840
- 1B-850
- 1B-860
- Connecting rod 3ZB-420

Attention: The rod length is reduced by 5.8 mm, as the stroke amounts to 32 mm

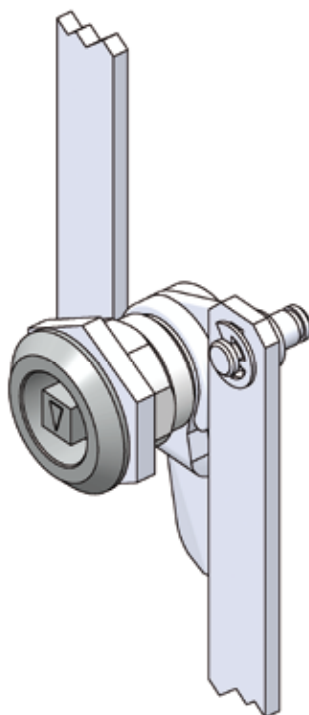
Only cams with stopper of steel and stainless steel can be used



Stroke 32 mm



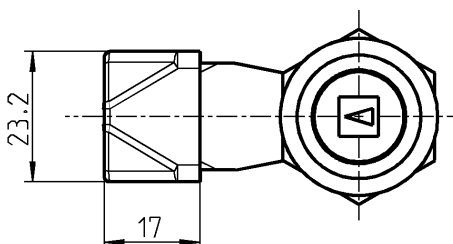
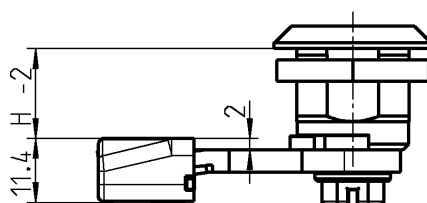
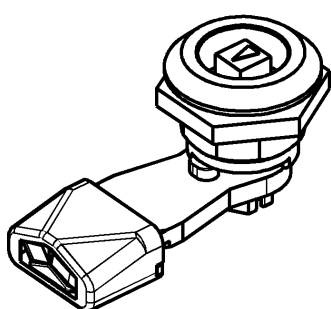
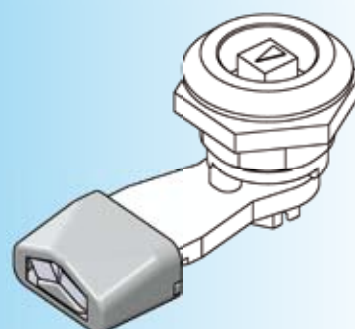
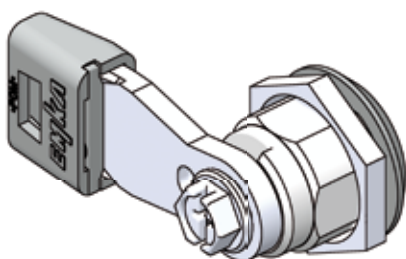
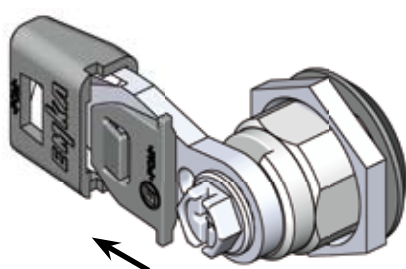
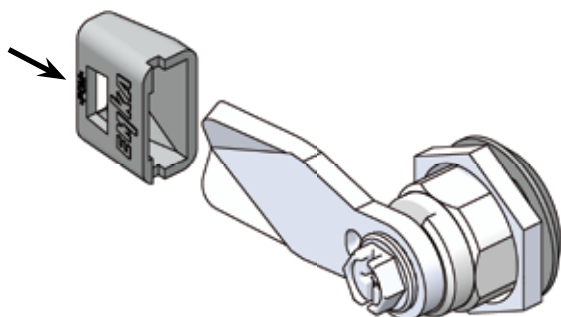
Rod control in open position



Rod control zinc die zinc plated; retaining washer m.s. zinc plated

1150-U63

Only cams of steel and stainless steel can be used



Attention:
Only cams of steel and stainless steel can be used.

Note:
If the guiding shoe for the cam is used, the H dimension is reduced by 2 mm

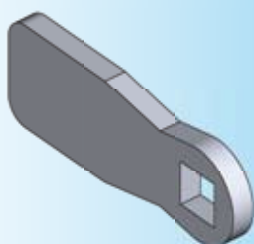
Guide shoe POM black

1000-U892

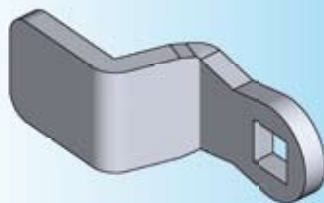
Further parts see page
– Cam (type 1) 1C-120



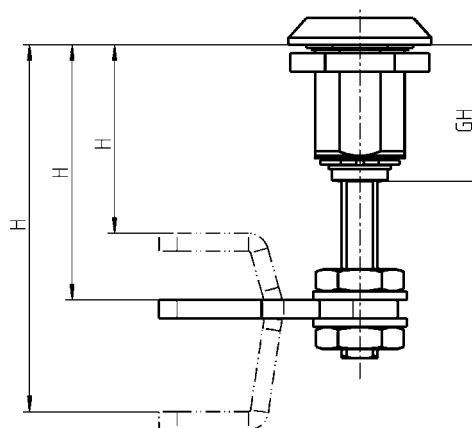
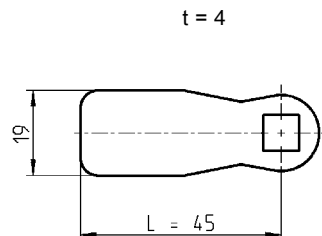
® Cam m.s. for GH = 31, 45 and 64 Compression latch PROGRAM 1000



straight cam



cranked cam



Note:
Insert of cranked cam optionally
positive or negative

Further parts see page

- Compression latch with insert 1B-222
- Compression latch with handle 1B-232
- Recess T-Handle with compression function 12A-135

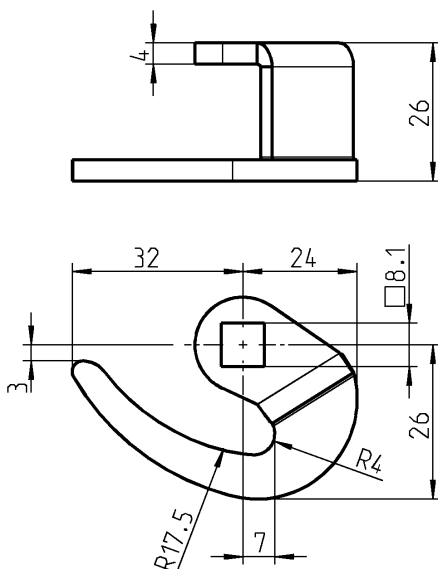
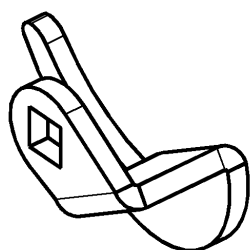
Cam m.s. zinc plated

for GH = 31	H	GH = 31
straight	38 - 58	1000-476
offset +/- 14 mm	24 - 44 ; 52 - 72	1000-478
offset +/- 26 mm	12 - 32 ; 64 - 84	1000-477
for GH = 45	H	GH = 45
straight	52 - 72	1000-476
offset +/- 14 mm	38 - 58 ; 66 - 86	1000-478
offset +/- 26 mm	26 - 46 ; 78 - 98	1000-477
for GH = 64	H	GH = 64
straight	71 - 91	1000-476
offset +/- 14 mm	57 - 77 ; 85 - 105	1000-478
offset +/- 26 mm	45 - 65 ; 97 - 117	1000-477

Cam

PROGRAM 1000

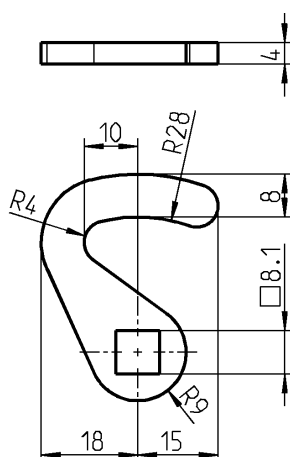
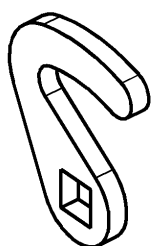
Beschlagteile



Hooked cam for desk lid,
LH version

m.s. zinc plated

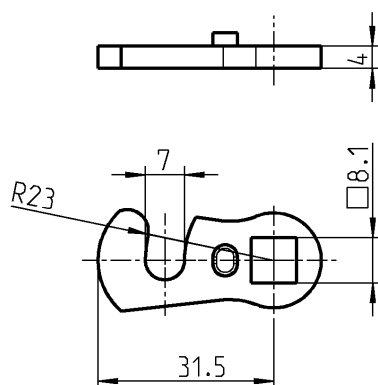
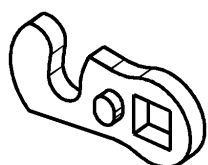
1000-91



Hooked cam,
RH and LH version

m.s. zinc plated

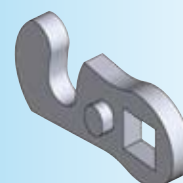
1000-93



Hooked cam, LH version

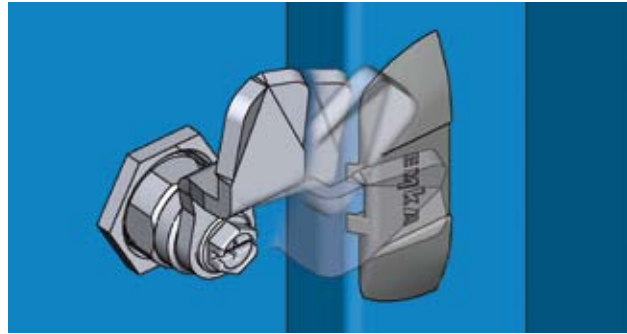
m.s. zinc plated

1000-61

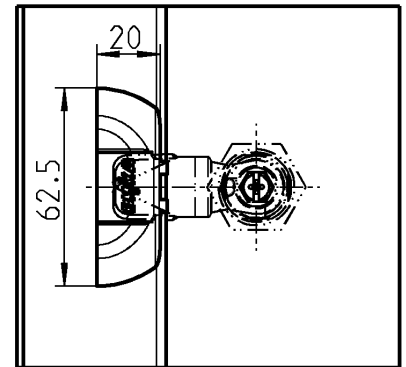
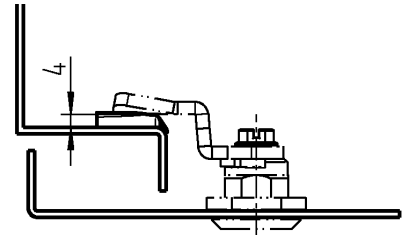
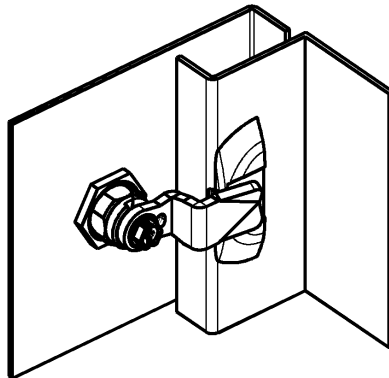


Further parts see page
– Quarter turns

1B-120
1B-140
1B-320
up to 1B-335
up to 1B-360
up to 1B-760
up to 1B-835
up to 1B-860
– Swinghandle 3N-120
– Heavy duty latch 10A-620
10A-640



Installation example: door and frame shown from the inside



Attention:

When using the Leading ramp the H-dimension of the tongue increases by 4 mm, and on page 3YA-820, the A-dimension of the tongue increases by 4 mm.

Further parts see page

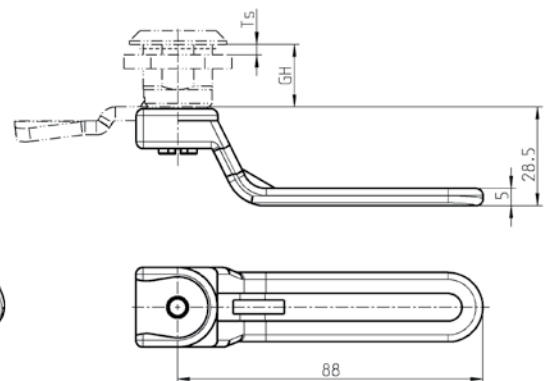
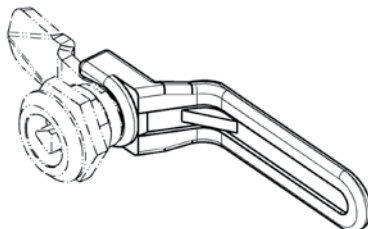
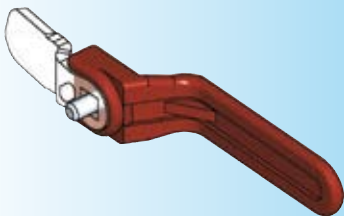
- Cam
 - 1C-120
 - 1C-130
 - 1C-140
 - 3YA-820
 - 3YA-840
 - 3YB-420
 - 3YB-440
 - 3YC-120
 - 3YC-140

Product benefits

- the ramp increases the compression distance of the lock by 4 mm
- good positioning of the cam by small recess in the ramp
- prevents the scratching of the frame

Frame-sided leading ramp for cams polyamide black, self-adhesive

1000-U858



Further parts see page

- Cam
 - 1C-120
 - 1C-130
 - 1B-120
 - 1B-140
 - 1B-360
 - (non locking) 1B-520
 - to (without lock) 1B-580
 - 1B-720
 - 1B-835
 - 1B-860
- Quarter turns

**Internal handle polyamide red, screw m.s. zinc plated,
(cannot be used for lockable quarter turns)**

GH	Ts 1,5-	M6x	
18	8	16	1000-U681
30	20	25	1000-U682
36	26	30	1000-U683
40	30	40	1000-U684
50	40	50	1000-U685
60	50	55	1000-U686

Hook lever lock, slam cam

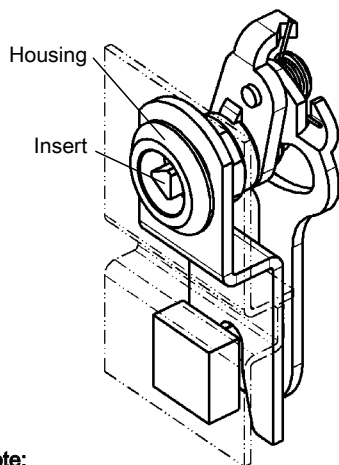
PROGRAM 1000

Hook lever lock

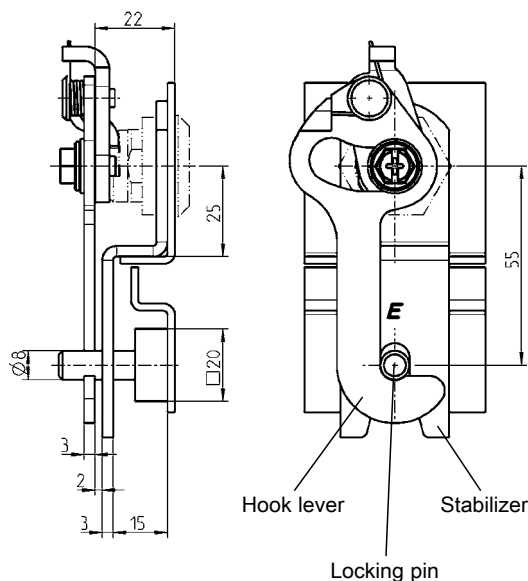
with 90° locking stroke, turn and pull movement to the cam

Note: drawings and dimensions relate to quarter turns with GH = 18 !

Hook stroke 5 mm



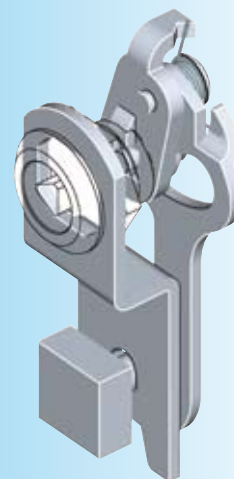
Note:
When using quarter turns with GH-
dimension >18 the length of
the screw has to be checked



Beschlagteile



1 Quarter turns



Further parts see page
– Quarter turns

1B-120
1B-140
1B-330
up to 1B-335
1B-520
up to 1B-720
1B-835
up to 1B-860

Hook lever lock m.s. zinc plated:

Hook lever	1000-U12
Locking pin	1000-49
Stabilizer	1000-48



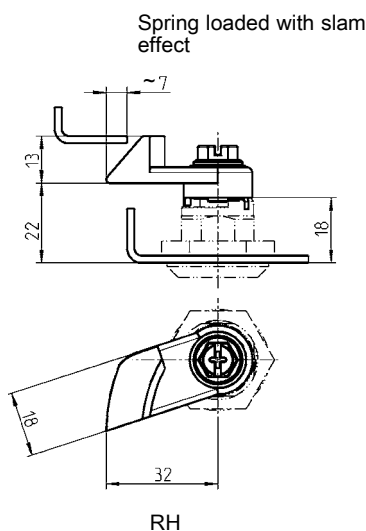
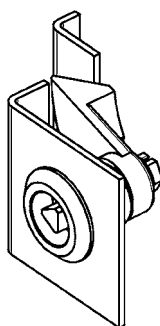
Slam cam

Note:
Slam cam is designed for quarter turn with GH = 18!
Other dimensions GH on request.

The wave washer (delivered with
the insert) has to be replaced by the
enclosed spacer.

With the following slam cams IP 54 up
to IP 69K is not possible!

Article-no:
1000-U235-N
1000-U235-NPH
1000-U236-N
1000-U236-NPH

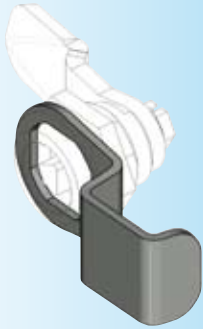


Slam cam zinc die chrome plated, spacer, screw m.s. zinc plated

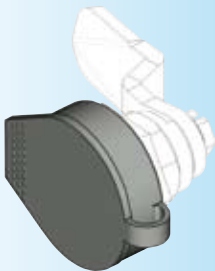
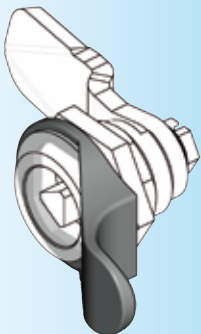
for quarter turn see catalogue page	RH	LH
1B-120, 1B-140, 1B-360, 1B-830, 1B-835, 1B-860	1000-U235-N	1000-U236-N
1B-420 up to 1B-680	1000-U315-N	1000-U316-N

Slam cam AISI 316, spacer, screw stainless steel

1B-120, 1B-140, 1B-360, 1B-830, 1B-835, 1B-860	1000-U235-NPH	1000-U236-NPH
--	---------------	---------------



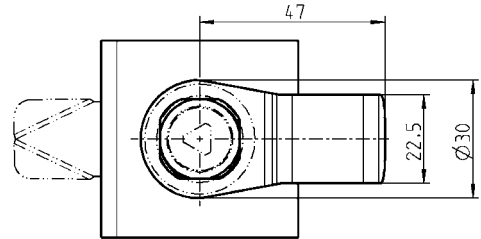
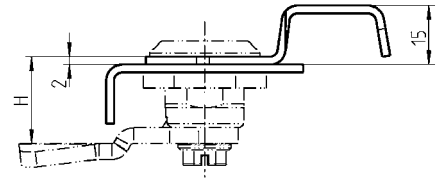
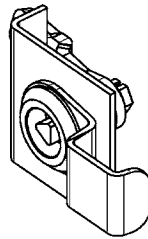
Attention:
The H-dimension will be reduced by 2 mm with the finger pull installed.



Attention:
The H-dimension will be reduced by 2 mm with this dust cap installed.

Further parts see page

– Quarter turns
up to 1B-120
up to 1B-222
up to 1B-235
up to 1B-335
up to 1B-360
up to 1B-420
up to 1B-840
up to 1B-860



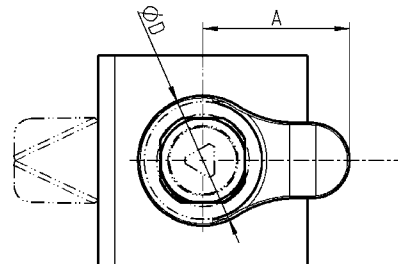
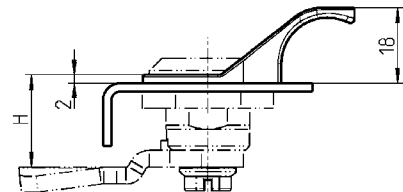
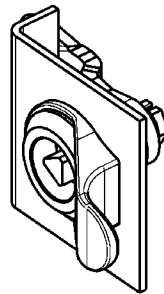
Finger pull m.s. black powder coated

1000-359

IP 65 with:

Flat seal

1000-23



Finger pull polyamide GF black

for housing with head diameter Ø 28

; D = 31, A = 35

1000-358

for housing with head diameter Ø 30 and 32

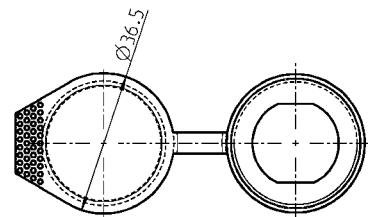
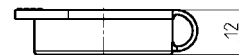
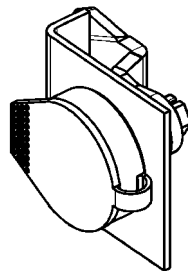
; D = 35, A = 36

1000-358-01

IP 65 with:

Flat seal

1000-23



Dust cap polyethylene black

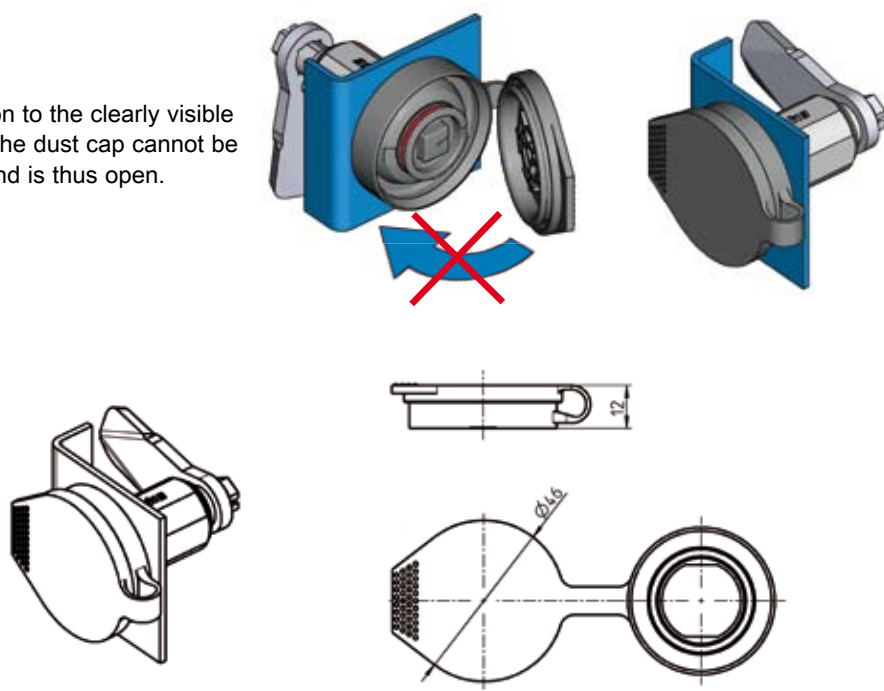
1000-97-01

Dust cap for high-speed trains, dust cap for T-Handle

PROGRAM 1000

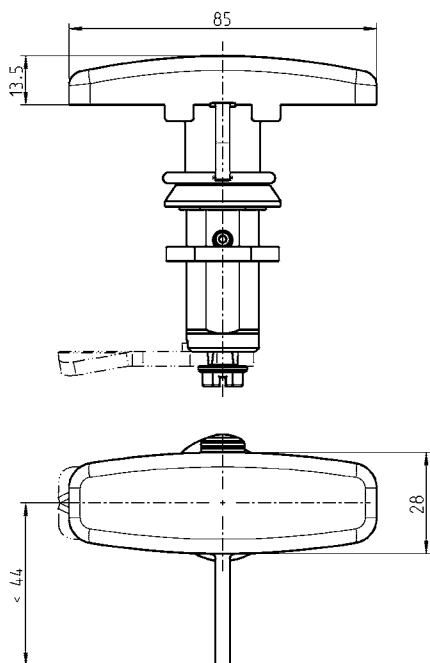
When combined use of dust cap and compression quarter turn with optical open indication (program 1000 / catalogue page 1B-237) an additional safety aspect is achieved.

In addition to the clearly visible red ring the dust cap cannot be closed and is thus open.



Dust cap TPE, UV resistant , black

1000-97-02



Also suitable for:

- Program 1000
(see page 1B-560)
- Program 1102
(see page 2A-140)
- Program 1005
(see page 2B-160)
- Program 1125
(see page 3B-180)
- Program 1225
(see page 3G-180)
- Program 2100
(see page 3H-220)

T-Handle-cap polypropylene black

1000-460



Note

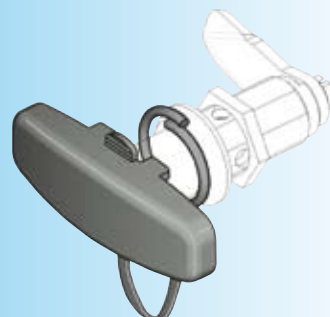
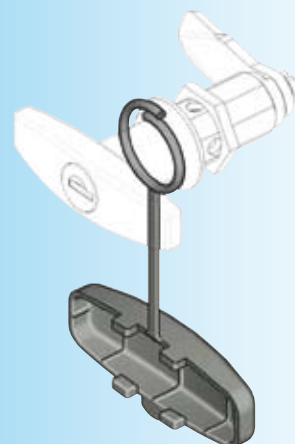
The dust cap was tested successfully by the Technical University of Dresden in respect of high-speed resistant class up to 450 km/h.

Attention:

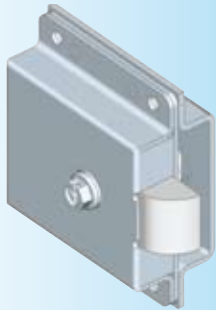
The H-dimension will be reduced by 2 mm with this dust cap installed.

Further parts see page

- Quarter turns
 - up to 1B-120
 - up to 1B-222
 - up to 1B-235
 - up to 1B-335
 - up to 1B-360
 - up to 1B-420
 - up to 1B-840
 - up to 1B-860

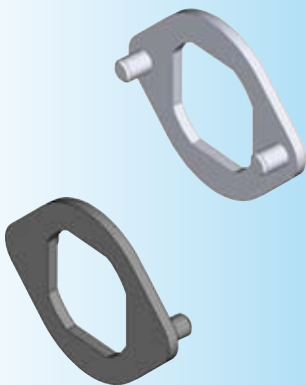


Slam latch, rotation prevention PROGRAM 1000



Further parts see page
– Quarter turns

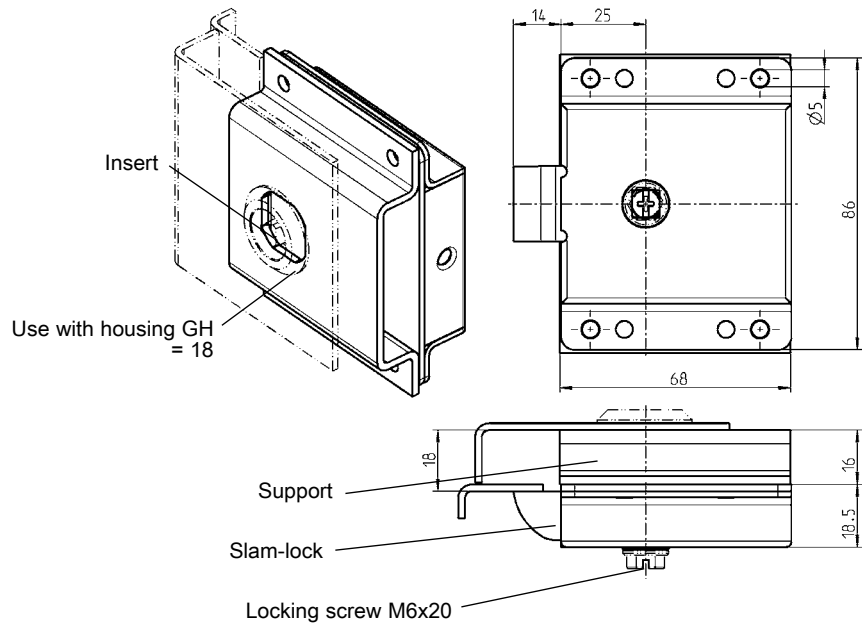
- 1B-120
- 1B-140
- 1B-330
- up to 1B-335
- 1B-520
- up to 1B-680
- 1B-835
- up to 1B-860



Note:
The H-dimension will be reduced by 2mm when used with this device fitted on the outside for preventing rotation.

Further parts see page
– Quarter turns

- 1B-120
- 1B-140
- 1B-220
- up to 1B-335
- 1B-360
- up to 1B-720
- 1B-835
- up to 1B-860

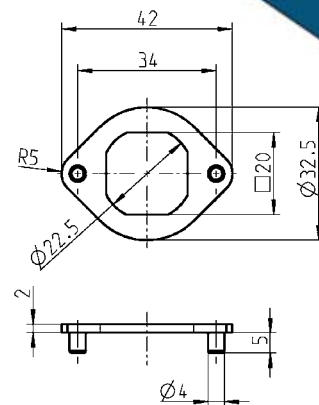
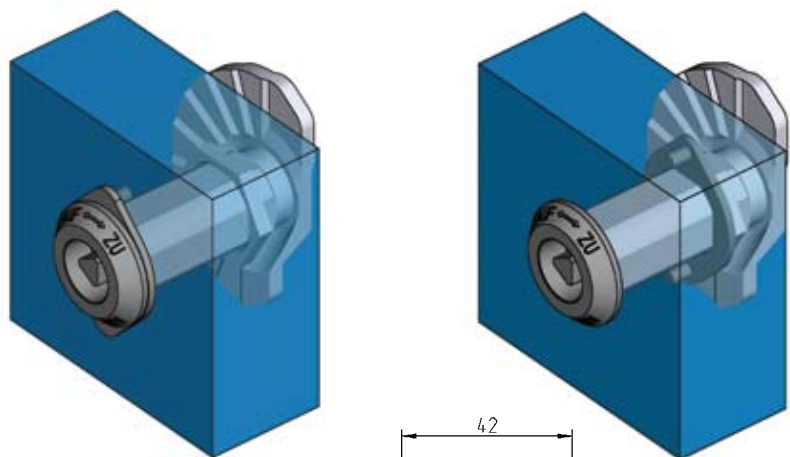


**Slam latch m.s. zinc pl., zinc die raw and spring steel
Support and vibration proof screw m.s. zinc plated**

Slam-lock	1034-U1
Support	1034-03
Locking screw M6x20	1000-277-04JB

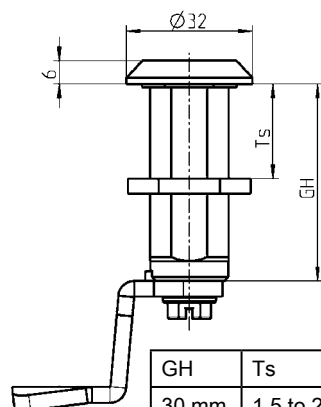
Front mounted door device for preventing rotation, mounted under the housing head.

Rear mounted door device for preventing rotation, mounted under the nut.

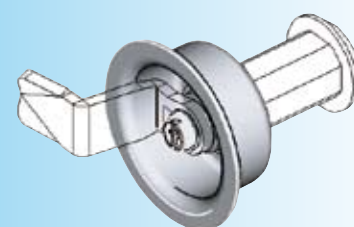
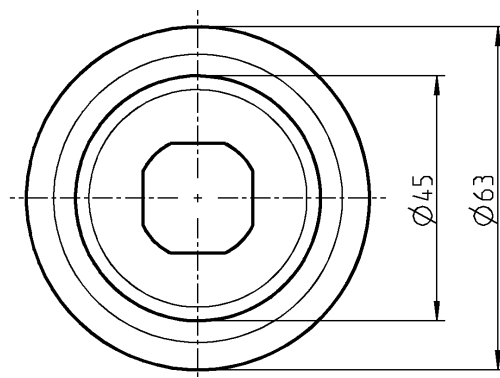
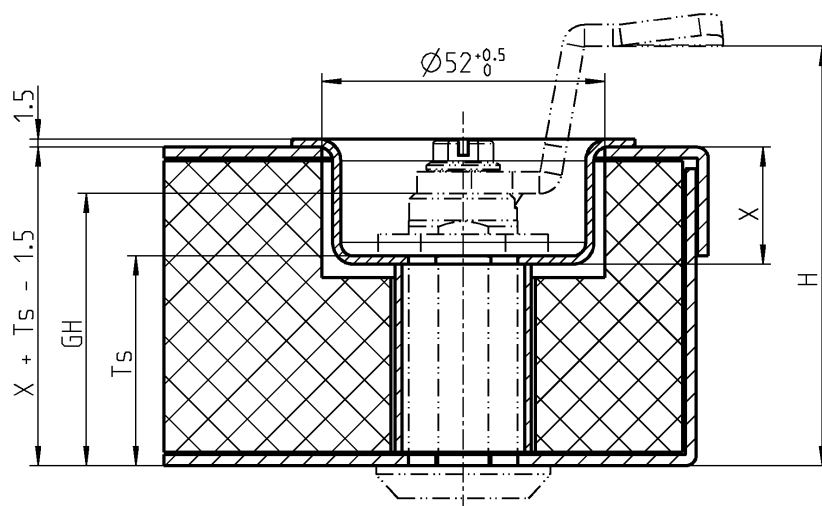
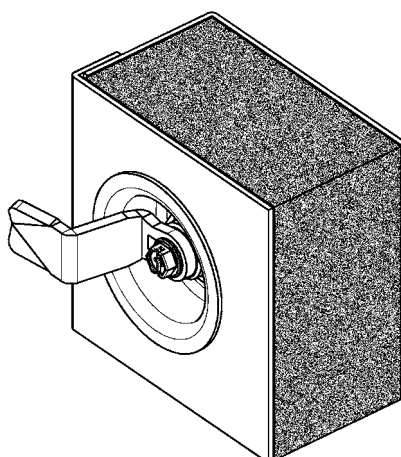


Device for preventing rotation zinc die, surface as requested

black powder coated	1000-456-AA
zinc plated	1000-456-JB



GH	TS
30 mm	1.5 to 20 mm
36 mm	1.5 to 26 mm
40 mm	1.5 to 30 mm
50 mm	1.5 to 40 mm
60 mm	1.5 to 50 mm



Dish to decrease the door thickness in conjunction with quarter turns for insulated doors or to align cut outs for quarter turns.

Dish m.s. zinc plated

Dimension X

10,5 mm	1000-264
17,5 mm	1000-265
21,5 mm	1000-266

Further parts see page
– Quarter turns

	1B-120
	1B-140
	1B-220
up to	1B-235
	1B-320
up to	1B-335
	1B-360
up to	1B-720
	1B-835
up to	1B-860

Rod

PROGRAM UNIVERSAL

Round rod
in fixed lengths

Minimum order quantity: 200 pieces
Lower quantities on request

Program 1000

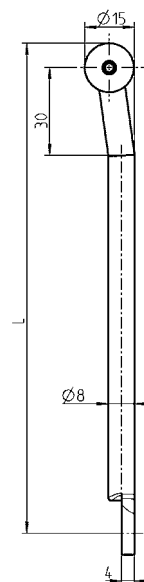
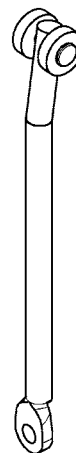
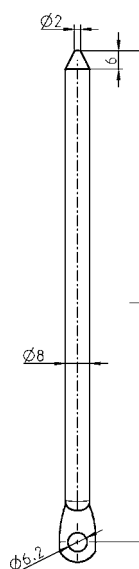
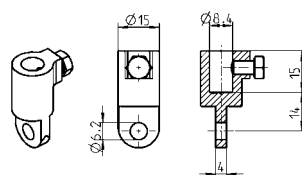
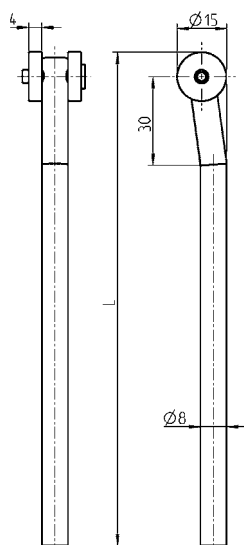
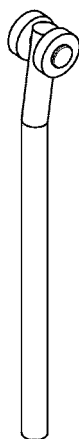
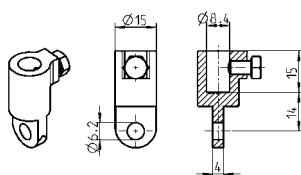
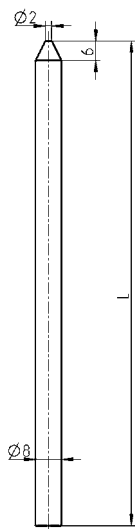
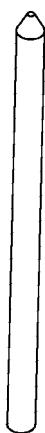
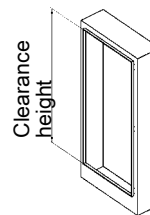
How to find dim. L
when pivot point is central

with adapter $\frac{\text{Clearance height} - 40}{2}$

with eye $\frac{\text{Clearance height} - 12}{2}$

$L \leq 1200$

Order example: Part number for rod with rollers and a length
L of 1034 mm = 1049-U18-L 1034



with eye m.s. zinc pl.
with rollers
polyamide black
(not suitable for program 1121
and 2121)

1000-U144-L mm

(1000-U144-01 to -17
see price list)

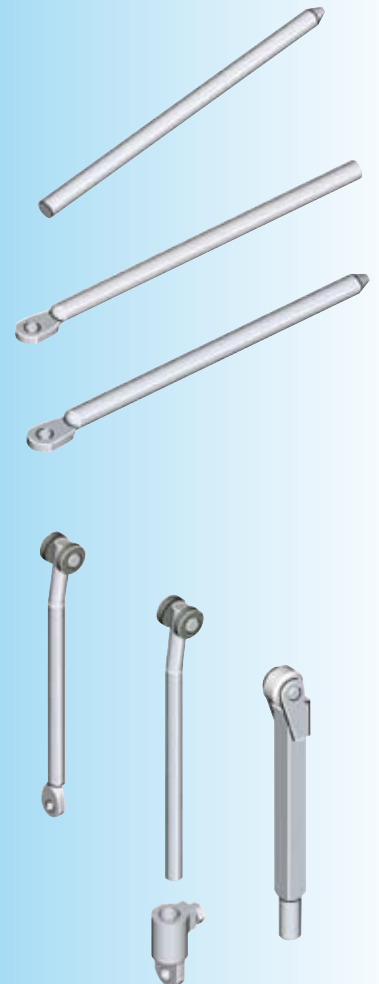
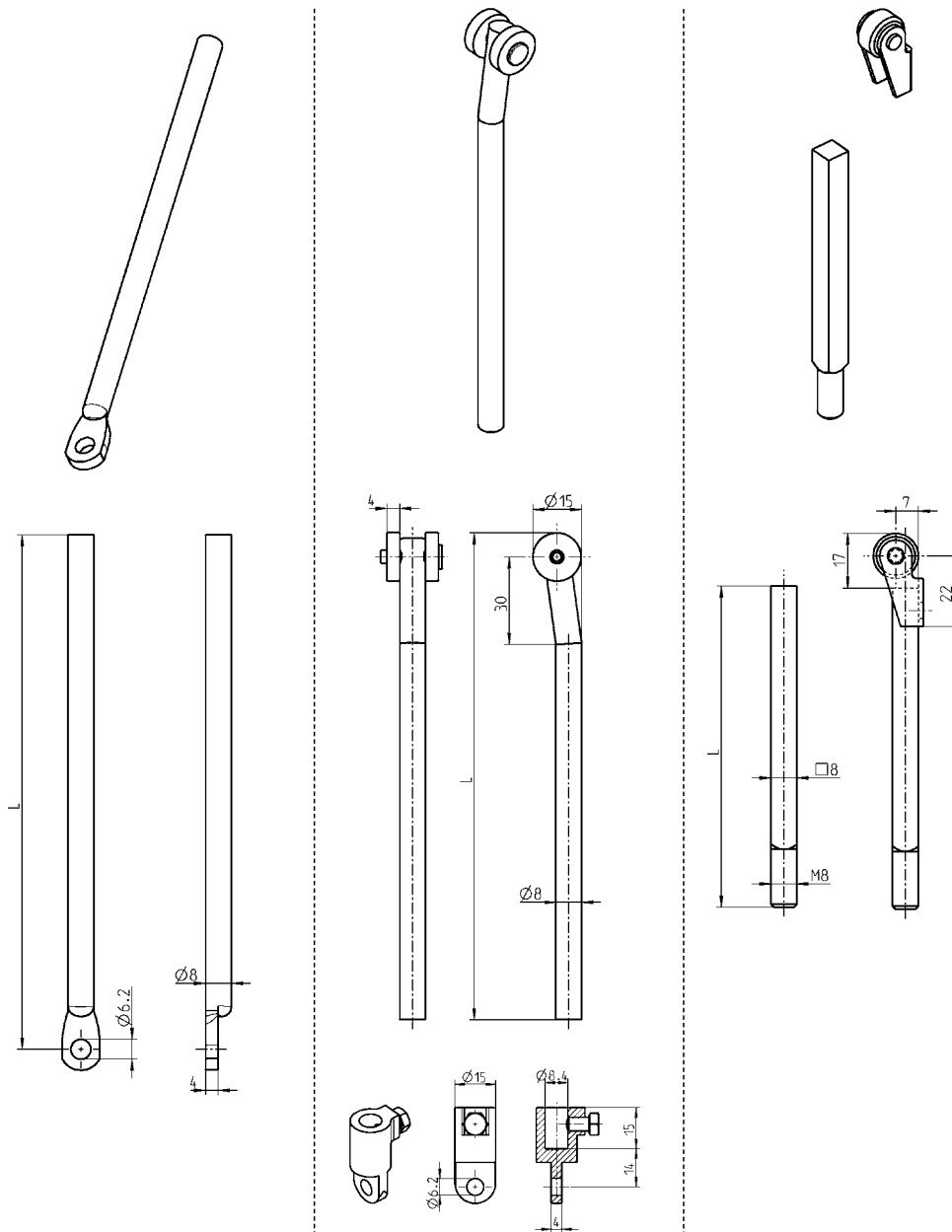
with eye AISI 304
and rollers
polyamide black
(not suitable for program 1121
and 2121)

1000-U538-L mm

(1000-U538-01 bis -09
see price list)

Chamfered end m.s. zinc pl.			m.s. zinc pl., with rollers polyamide black			with eye and pointed end, m.s. zinc pl.			with eye AISI 304 and rollers polyamide black (not suitable for program 1121 and 2121)		
1049-19-L mm			1049-U18-L mm			1000-211-L mm					
(1049-19-01 to -17 see price list)			(1049-U18-01 to -17 see price list)			(1000-211-01 bis -17 see price list)					
adapter	zinc die, m.s. z.pl.	AISI 303	adapter	zinc die, m.s. z.pl.	AISI 303						
	1000-U49	1000-U141		1000-U49	1000-U141						

Round- and square rods in available lengths



Round rod with eye, m.s. zinc plated

L in mm

400	1000-33
500	1000-34
600	1000-35
700	1000-36
800	1000-37
900	1000-38
1000	1000-39
1100	1000-114
1200	1000-115

Round rod m.s. zinc pl. or AISI 304 with rollers polyamide black

L in mm

m.s. z.pl.	AISI 304
600	1049-U3
700	1049-U4
800	1049-U5
900	1049-U6
1000	1049-U7
1100	1049-U8
1200	1049-U9
adapter	zinc die, m.s. z.pl.
	1000-U49
	1000-U141

Square rod m.s. zinc pl. suitable for catalogue page 2B-120

L in mm

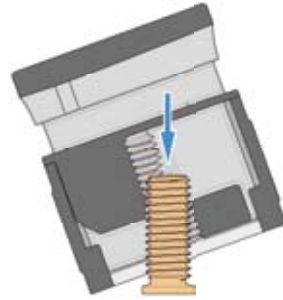
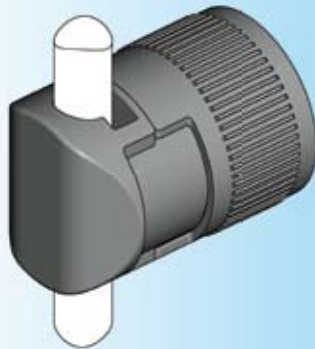
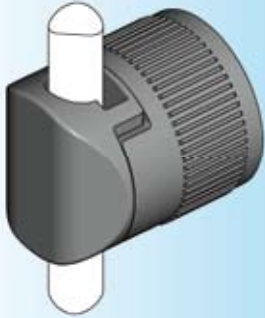
600	1001-11
700	1001-12
800	1001-13
900	1001-14
1000	1001-15
1100	1001-16
1200	1001-17

Roller unit m.s. zinc pl., roller polyamide white

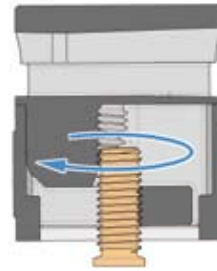
–	1019-U1
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Further parts see page

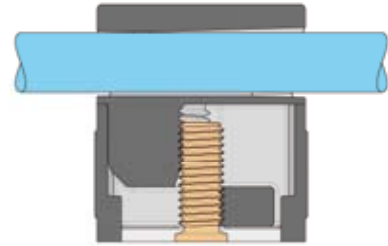
– Cam	1C-120
	1C-160
– Rod control	2A-120
	2B-120
	2B-140
– Rod guide	up to 1C-630
	1C-640



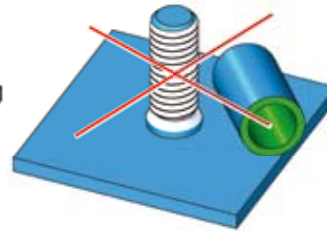
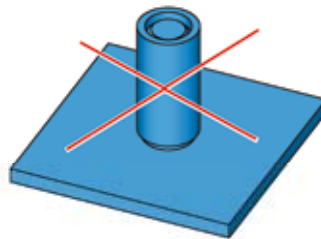
1. Place the rod guide on weld stud.
(Hereby the time-consuming screwing is reduced considerably.)



2. Straighten up the rod guide, noticeably and audibly locks in place and secured with only a few rotations.

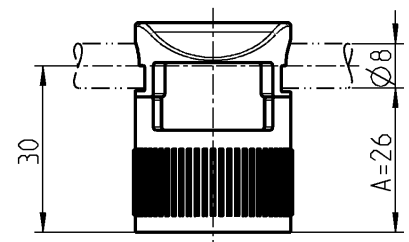
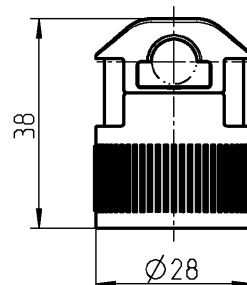
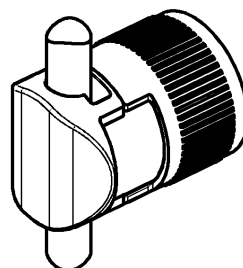
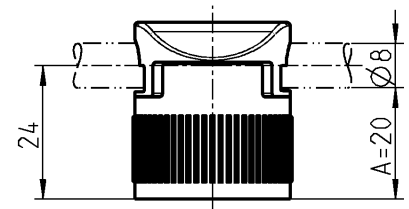
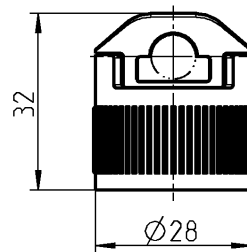
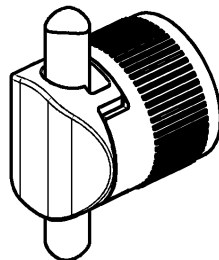


3. Rod guide completely mounted.



+ ADVANTAGE

This rod guide is suitable for raw and powder coated weld studs.
The covering of the weld stud before powdering can be omitted, this results in process optimization and cost saving.



Note:
Rod guide suitable for dimensions of A=20 and A=26

Further parts see page
– Rod

1C-620
8A-360

Rod guide polyamide GF black

A for weld stud

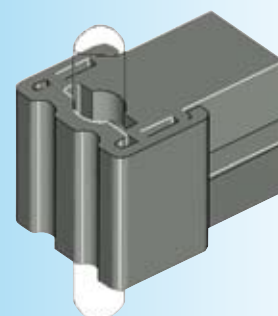
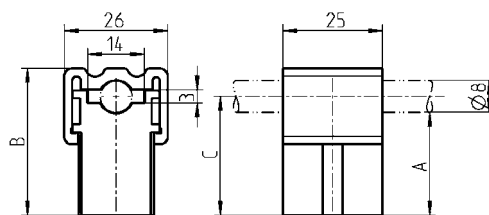
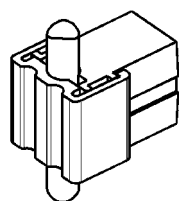
20	M6x16
26	M6x20

1001-U47

Rod guide for round rods 8 mm

PROGRAM UNIVERSAL

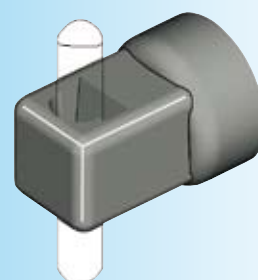
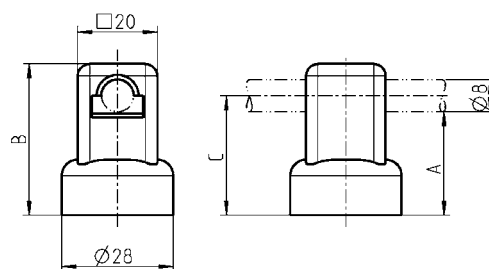
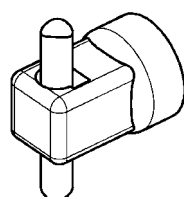
Beschlagteile



For round and flat rods

Rod guide polyamide black

A	B	C	for weld stud	
20	31	24	M6x12 - 20	1001-U40
26	37	30	M6x12 - 20	1001-U41

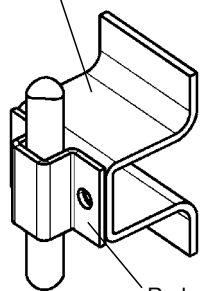


For round rods

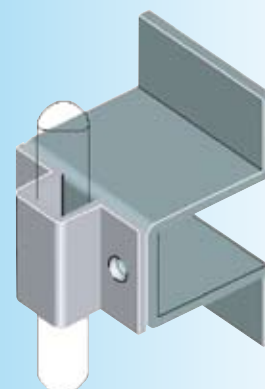
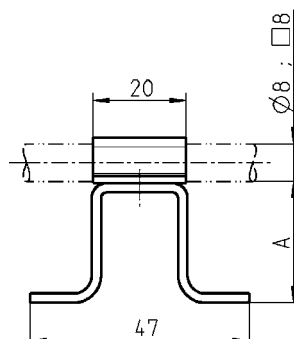
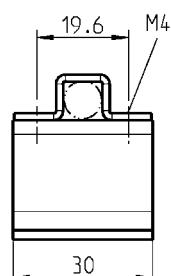
Rod guide polyamide black with sunken nut m.s. zinc pl.

A	B	C	for weld stud	
20	32	24	M6x16	1001-U11
26	38	30	M6x20	1001-U12

Rod support



Rod guide



For round- and square rods

Rod guide m.s. zinc pl.

	1001-22
--	---------

Rod support m.s. raw

A = 20	1001-20
A = 26	1001-21

Further parts see page
– Rod

1C-620
8A-360

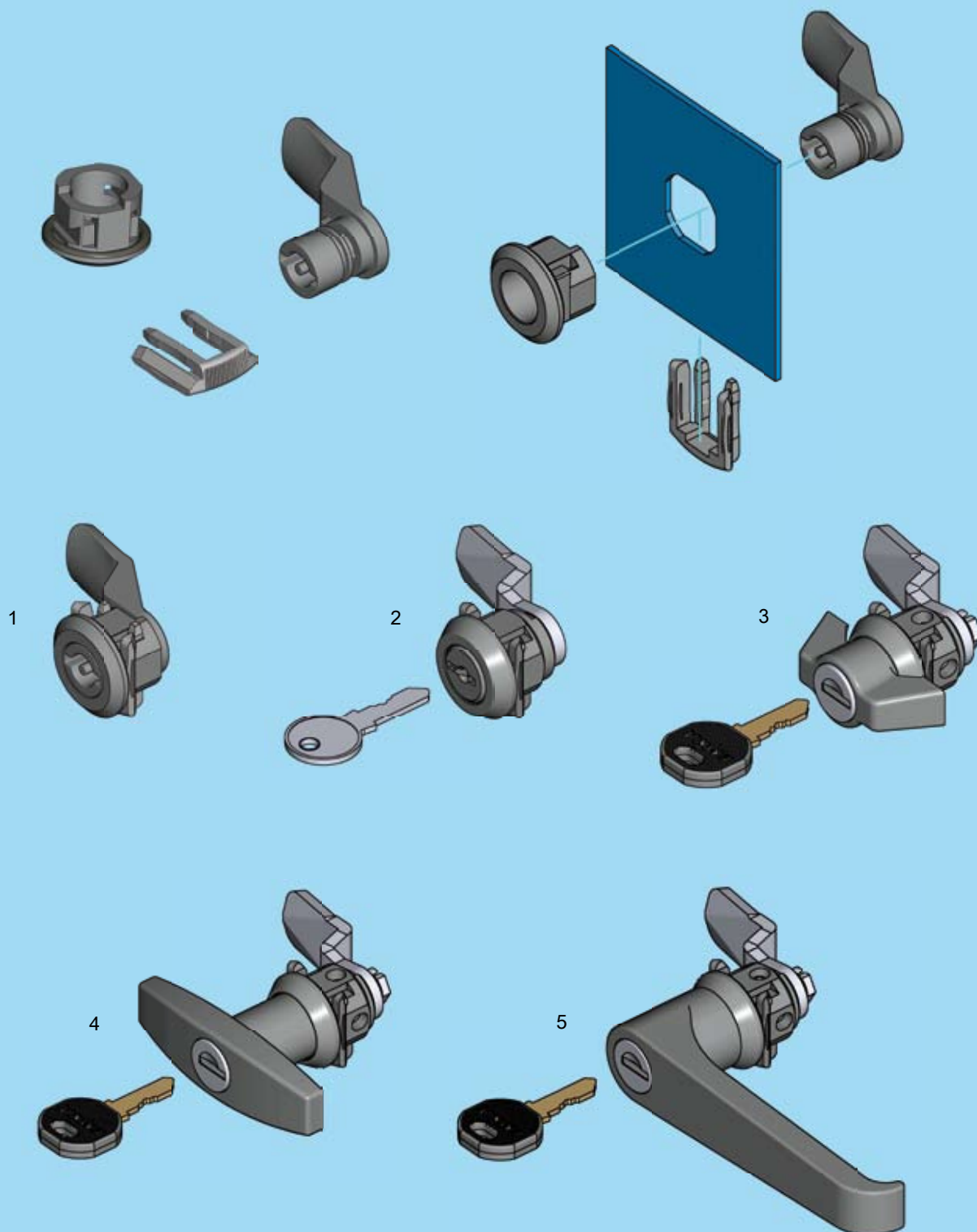


Beschlagteile

Notes:

Lined area for notes, consisting of 30 horizontal lines.

Quarter turn clip fix Program 1500



- 1 Quarter turn with insert cam
- 2 Quarter turn with cylinder
- 3 Wing knob
- 4 T-Handle
- 5 L-Handle

- 1D-140
- 1D-240
- 1D-220
- 1D-220
- 1D-220



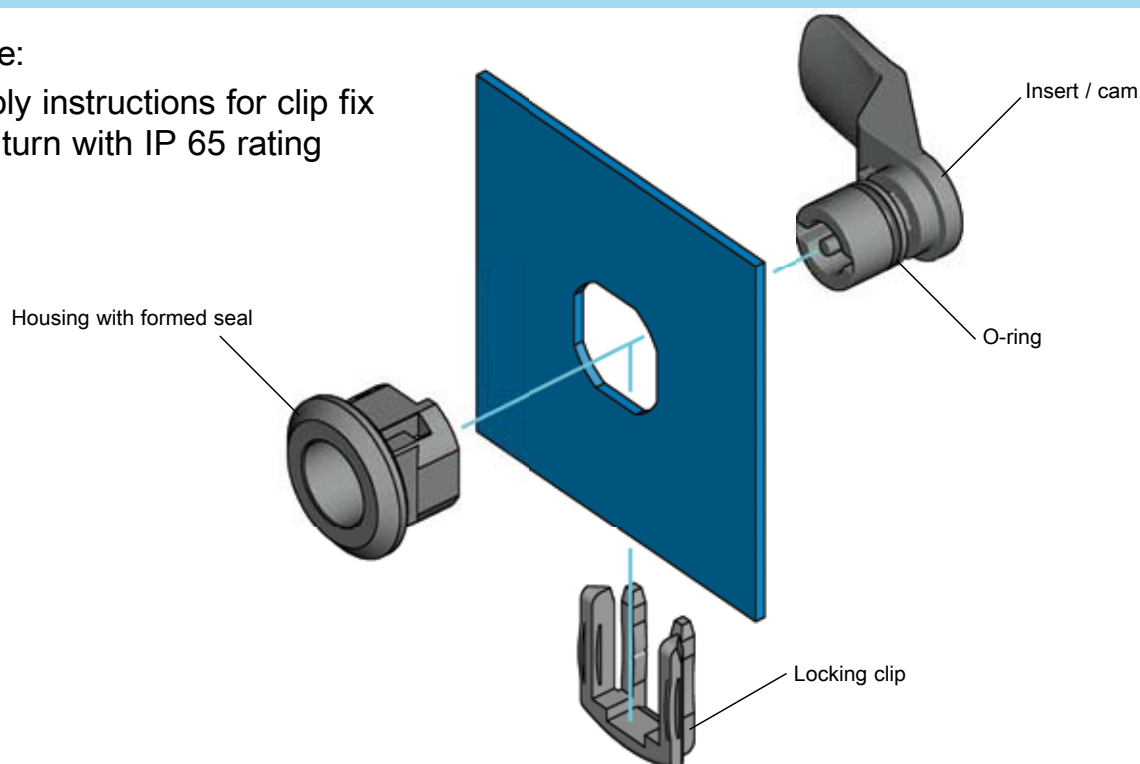
1D-100

Quarter turn; three piece, clip fix

PROGRAM 1500

Example:

Assembly instructions for clip fix quarter turn with IP 65 rating



Housing polyamide GF color on choice

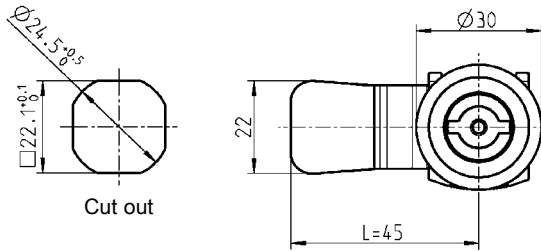
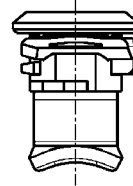
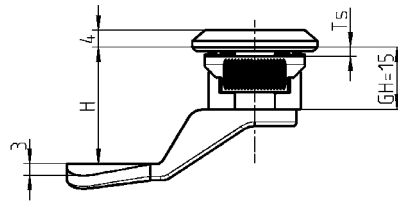
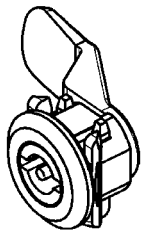
	black	silver
without seal	1500-01	1500-01-HW
with formed seal (for IP 65)	1500-01-G	1500-01-GHW

Locking clip polyamide GF colour depends door thickness

Ts = 1,0 - 1,5 including surface coating; pebble grey	1500-02-10
Ts = 1,5 - 2,0 including surface coating; black	1500-02-15
Ts = . . .	

Insert Cam polyamide GF colour of choice see ordering example;
order with O-ring see ordering example (for IP 65)

	H = 16	H = 18	H = 22	H = 24
	without O-ring	without O-ring	without O-ring	without O-ring
Square 7mm ; black	1500-136-H16	1500-136-H18	1500-136-H22	1500-136-H24
Square 8mm ; black	1500-140-H16	1500-140-H18	1500-140-H22	1500-140-H24
Triangular 7mm ; black	on request	on request	on request	on request
Triangular 8mm ; black	1500-152-H16	1500-152-H18	1500-152-H22	1500-152-H24
Triangular 9mm ; black	on request	on request	on request	on request
Double bit 3mm ; black	1500-156-H16	1500-156-H18	1500-156-H22	1500-156-H24
Double bit 5mm ; black	1500-160-H16	1500-160-H18	1500-160-H22	1500-160-H24
Hexagon female BS 10 ; black	on request	on request	on request	on request
Square female 7mm ; black	on request	on request	on request	on request
Square female 8mm ; black	on request	on request	on request	on request
Daimler Benz ; black	on request	on request	on request	on request
Slot 1,2 x 3mm ; black	on request	on request	on request	on request
Slot 2 x 4mm ; black	1500-177-H16	1500-177-H18	1500-177-H22	1500-177-H24
Slot 2 x 4mm coinproof ; black	on request	on request	on request	on request



Purchase order sample insert cam in silver:

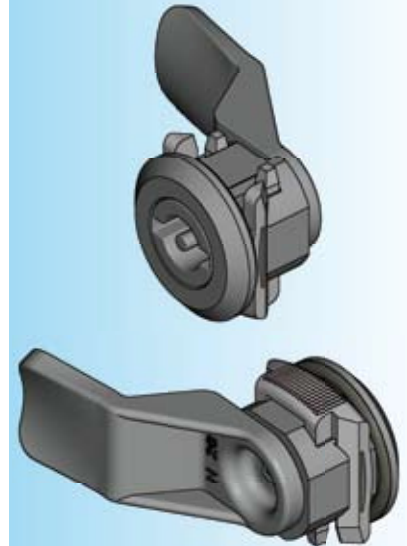
You require a silver insert cam in square 8 mm for the clearance $H = 18$ mm. Then add to the item no. in the table the letters "HW" at the end.

e.g.:
1500-140-H18HW Insert cam polyamide GF; silver; $H=18$ mm; square 8 mm

Purchase order sample insert cam with O-ring:

You require a black insert cam in double bit 3 mm for the clearance $H = 28$ mm with O-ring. Then add to the item no. in the table the letter "B" after "1500-".

e.g.:
1500-B156-H28 Insert cam Polyamide GF; black; $H=28$ mm; double bit 3 mm with O-ring



Attention:

IP 65 is achieved by housing with foamed seal and insert cam with O-ring!

Note:

Further insert cams with other inserts or other H- and L- dimensions on request

Further parts see page
– Key

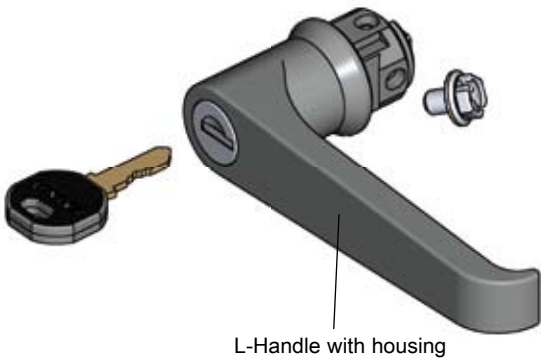
12B-120

H = 28	H = 30	
without O-ring	without O-ring	
1500-136-H28	1500-136-H30	
1500-140-H28	1500-140-H30	
on request	on request	
1500-152-H28	1500-152-H30	
on request	on request	
1500-156-H28	1500-156-H30	
1500-160-H28	1500-160-H30	
on request	on request	
on request	on request	
on request	on request	
on request	on request	
on request	on request	
1500-177-H28	1500-177-H30	
on request	on request	

Handle clip fix

PROGRAM 1500

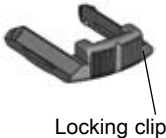
L-Handle clip fix



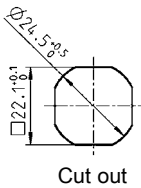
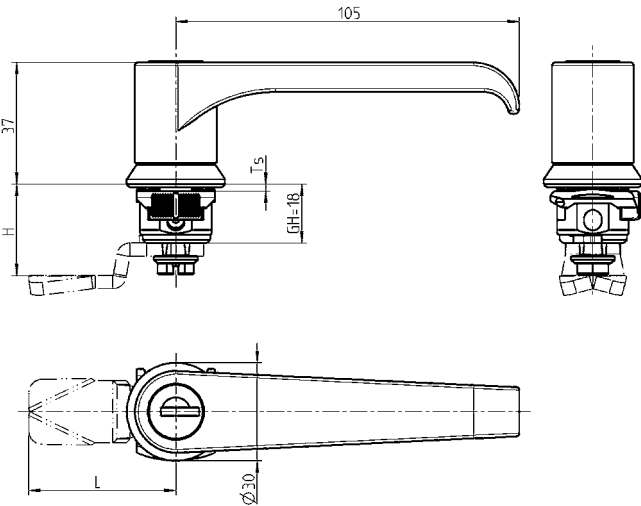
L-Handle with housing



Cam



Locking clip

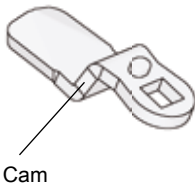


Cut out

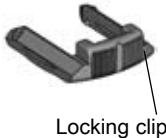
T-handle quarter turn, clip fix



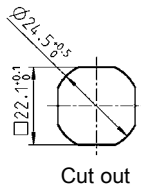
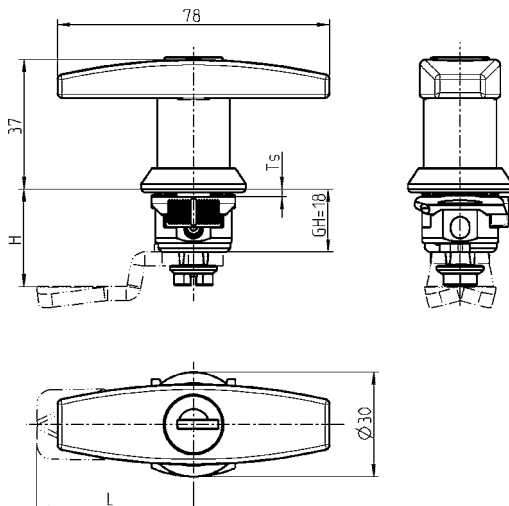
T-handle with housing



Cam

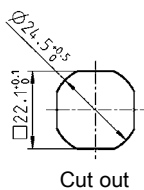
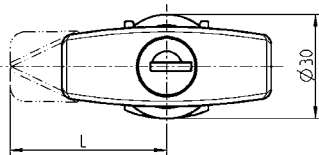
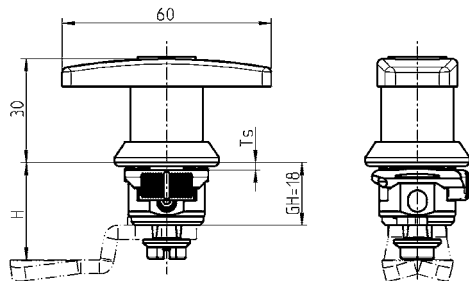


Locking clip

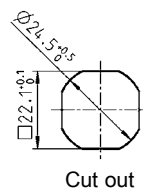
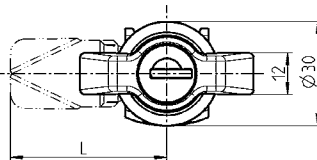
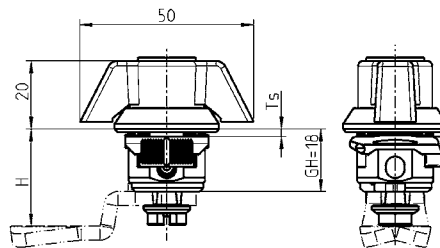


Cut out

T-handle quarter turn, small, clip fix



Wingknob quarter turn clip fix

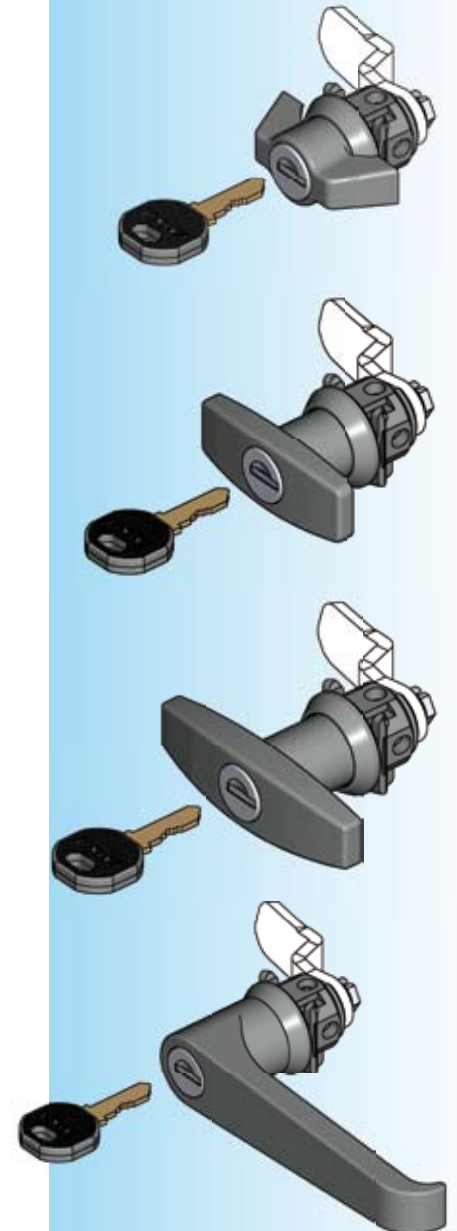


Handle polyamide GF black / zinc die, housing polyamide GF black, round cylinder zinc die with stainless steel cap and dust cap, screw m.s. zinc plated, with seal. Each cylinder has one silver steel key with polyamid grip. Key removable in both positions.

	non locking	keyed EK 333	keyed different
Wing knob	1500-U343	1500-U345	1500-U347
T handle small	1500-U775 (IP 40)	1500-U773	1500-U774
T-Handle	1500-U546	1500-U548	1500-U550
L-Handle	1500-U570	1500-U72	1500-U74

Locking fork polyamide GF colour according to article

Ts = 1.0 - 1.5 colour pebble grey	1500-05-10
Ts = 1.5 - 2.0 colour black	1500-05-15



Further parts see page

– Cam (GH=18)

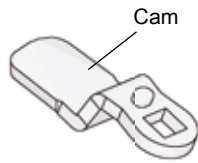
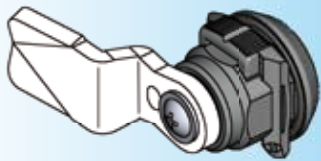
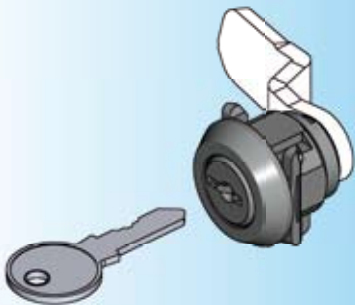
– Spare key

1C-120

1C-160

12B-140

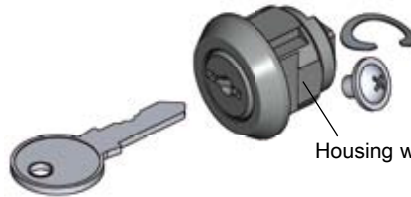
Cylinder quarter turn clip fix PROGRAM 1500



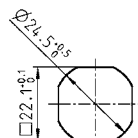
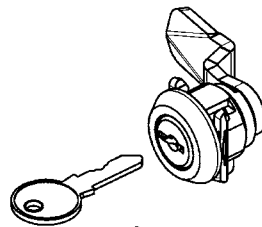
Cam



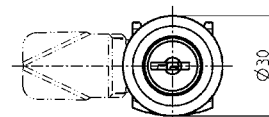
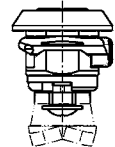
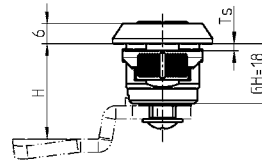
Locking clip



Housing with cylinder



Cut out



Further parts see page

- Cam (GH=18) 1C-120
- (without 2-point rod control) 1C-160
- Spare key 12B-140

Housing and round cylinder polyamide GF black, screw zinc plated.
Each round cylinder has one key m.s. nickel plated. Key removable in both positions.

keyed EK 333

1500-U18

keyed different

1500-U19

Locking fork polyamide GF colour according to article

Ts = 1.0 - 1.5 colour pebble grey

1500-05-10

Ts = 1.5 - 2.0 colour black

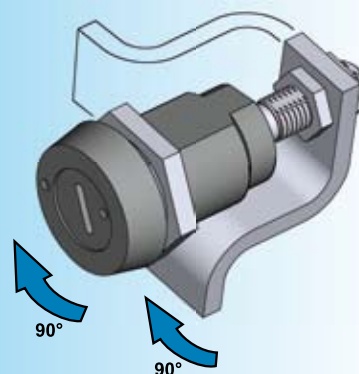
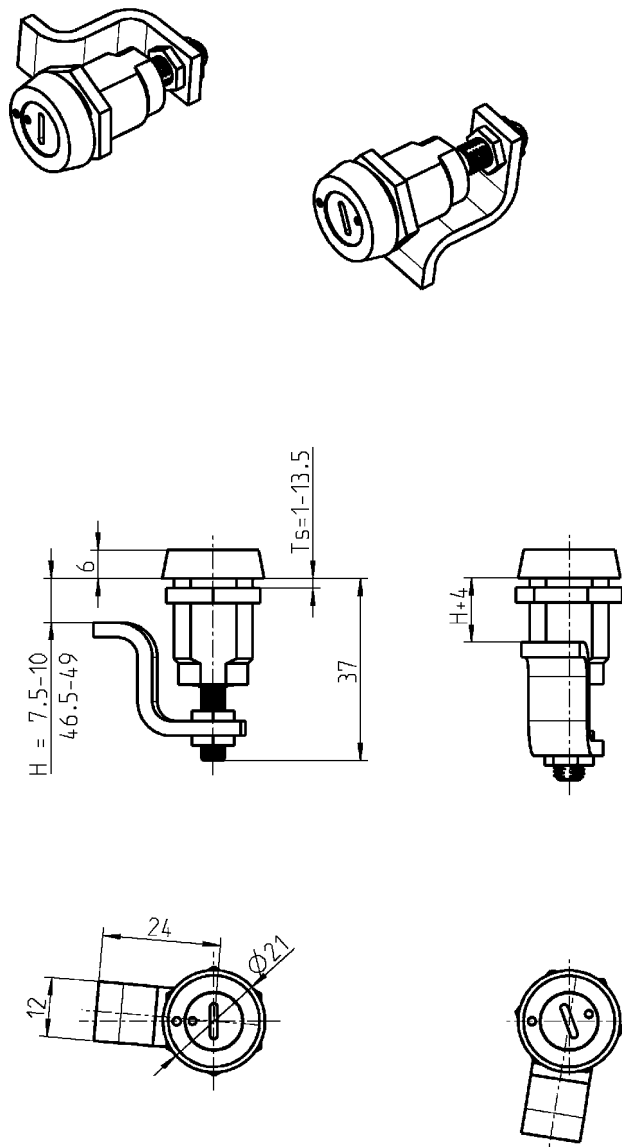
1500-05-15

Compression latch

PROGRAM 1022

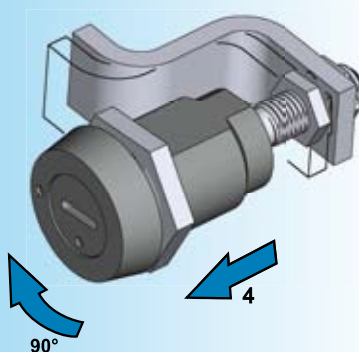
vibration proof

These latches are designed to be vibration resistant with a distinct "over-center" action. There may be some cases of extreme vibration where this detent is overcome. Therefore we recommend rigorous testing.



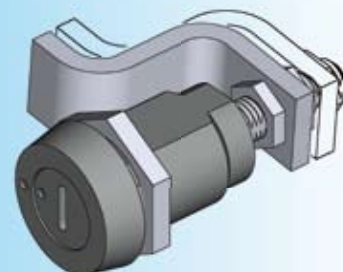
Open condition

The first 90° of rotation of the insert also turns the cam 90°.



Closed position

If you continue with rotating the insert by another 90° the cam is moved by 4 mm in axial direction.



Compressed condition

Unlock:
Reversed rotation



Beschlagteile

Notes:

Lined area for notes, consisting of 30 horizontal lines.